Catálogo 2022



Tras los útlimos meses que el mercado y el mundo ha dado un gran cambio, tenemos el placer de presentaros nuestro nuevo Catálogo que pretende englobar todas las necesidades del cliente en un solo proveedor.

Es un avance significativo en la linea de productos, tanto en gama como en variedad.

Nuestro objetivo es ser un proveedor global de herramientas de corte/amarre y sus accesorios.

Asi mismo en este nuevo catalogo hemos incorporado nuevas lineas de producto y ampliado otras líneas con nuevas gamas, rangos o especificaciones.

En todas nuestras líneas de producto hay novedades, pero queremos destacar la gama de Mobiliario de Taller (POLAK), nuestras herramientas de Metal Duro, Acero Rápido, Insertos y Portaherramientas NIXA, asi como la maquinaria industrial NOVA y XTLINE.

Esperamos que este nuevo catálogo sea de vuestro agrado y sigáis depositando vuestra confianza en nuestra empresa y productos.

Visítanos en Internet:
www.basemetalurgica.com

BASE METALÚRGICA
Distribución Metalúrgica

NOTA:
No nos hacemos responsables de posibles fallos tipográficos, ni de cambios en la fabricacion por parte de proveedor.
En la medida de lo posible hemos intentado reflejar fielmente la informacion de los proveedores.

ÍNDICE

	Categoría	Páginas
Bright-tools	Portaherramientas DIN 69871	7-14
	Portaherramientas MAS 403BT	15-22
	Portaherramientas MAS 403BT Doble Contacto	23-25
	Portaherramientas DIN 2080	26-28
	Portaherramientas DIN 228 – Cono Morse	29-30
	Portaherramientas HSK	31-34
	Portaherramientas DIN 69880 – VDI y Poligonal ISO 26623	35-46
	Portaherramientas Mango Cilíndrico	47
	Accesorios: Pinzas – Tirantes – Soportes - Tuercas	48-57
	Mobiliario y Soportes	58-60
NIXA INDUSTRIAL TOOLS	Platos de Torno Manuales	61-62
	Garras de Torno para platos hidráulicos	63-66
Ozkayali	Platos Torno Hidráulicos	66-67
	Garras de Torno Blandas/Duras para platos hidráulicos	68-71
	Mordazas de Precisión	71-74
	Puntos Fijos – Puntos Giratorios	75-78
NIXA INDUSTRIAL TOOLS MD	Fresas de Metal Duro	79-103
	Fresas de Metal Duro NX-PRO	104-112
	Fresas MD 5X - Materiales Grafito	113-116
	Fresas MD Cabeza Roscada	117
	Escariadores MD	118
	Brocas de Metal duro 3xd – 5xd – 8xd - 12xd - 20xd	119-127
NIXA INDUSTRIAL TOOLS HSS	Fresas HSS	128-142
	Discos y Fresas de eje HSS	143-150
	Brocas Centrado, Punteado HSS	151
	Escariadores HSS	152-153
Karnasch PROFESSIONAL TOOLS	Avellanadores y Brocas de Punteado	154-158
	Brocas Escalonadas Karnash	159
	Fresas Huecas – Coronas Karnash - Accesorios	160-163
	Fresas Rotativas Karnash	164-173
	Maquinaria Karnasch	174-175
	Brocas y Cuchillas Cabeza Intercambiable Karnash	176-181
NIXA INDUSTRIAL TOOLS	Brocas Cabeza intercambiable	182-189
	Brocas HSS Mango Cilíndrico	190-199
	Brocas HSS Mango Cónico	199-203
	Cuchillas Soldadas ISO y Barras HSS	204-207
	Machos de Roscado Maquina	208-223
	Machos de Roscado Mano	223-227
	Terrajas – Liquido de Roscado	228
BAER GERMANY	Machos Metrica Fina Derecha/Izquierda	229-232
	Terrajas Metrica Derecha/Izquierda	233-237
	Machos Métrica Izquierda	237-239
	Machos Especiales: Serie Larga, Sobremedida	240-241
	Machos Especiales: BSP, UNC, 8UN, 12UN, NPT, PG, VG, TR, NPS, BSPT, BA, UNS,	242-249
	Kits Reparacion Rosca Baercoil	250-256
	Insertos Roscado Baercoil	257-263
	Machos y herramientas para Roscas Baercoil	263-273

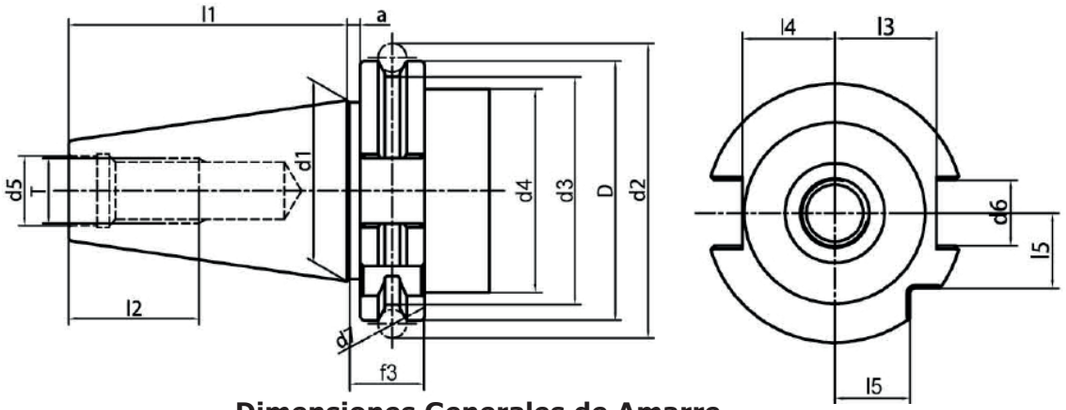
ÍNDICE

	Categoría	Páginas
JETON	Sistemas de Refrigeración Jeton	274-283
GRATTEC	Sistema de Rebarbado Grattec	284-289
OKE	Placas de Torneado	290-305
	Placas de Aluminio	306
	Placas de Taladrado	306
	Placas de Ranurado	307
	Placas de Roscado	307-308
	Placas de Fresado	309-315
NIXA INDUSTRIAL TOOLS	Placas Ranurado / Fresado / Taladrado / Avellanado	316-323
	Utillajes para Portaherramientas Roscados	324-325
	Portaherramientas de Torneado Exterior	326-346
	Portaherramientas de Torneado Interior	347-371
	Portaherramientas Tipo Cartucho	372
	Portaherramientas de Roscado	373-374
	Portaherramientas de Taladrado	375-390
	Portaherramientas de Ranurado	391-411
	Portaherramientas de Fresado Portas	412-445
	Portaherramientas de Fresado Platos	446-487
NOVA	Tornos	488-494
	Fresadoras	495-501
	Taladros	501-505
	Sierras de Cinta	505-510
	Lijadoras Banda	511-513
	Compresores	514-515
	Prensas	515-517
	Cabinas Chorreadoras	518-519
TAIPU	Roscadora Neumáticas	520
	Roscadora Eléctricas	520-525
	Taladro-Roscador-Avellanador	525
	Accesorios de Roscadoras	526-527
POLAK CZ	Mobiliario Cajoneras / Armarios / Mesas	528-549
XTline / HONITON PROFESSIONAL TOOLS	Herramienta Eléctrica a batería	550-558
	Herramienta Eléctrica a cable	559-581
	Herramientas: Sets	582-603
	Herramientas: Vasos y Llaves	604-632
	Herramientas: Destornilladores y Puntas	633-643
	Herramientas: Alicates y Tenazas	644-651
	Herramientas: Martillos, Grapadoras, cutters, limas	652-659
	Herramientas: Pinzas Apriete, Cajas, Bolsas, Organizadores	660-669
	Herramientas: Linternas, Luces, Flexómetros	670-674
	Herramientas: Brocas, Discos, Sierras y varios	675-696
	Herramientas: De Aire	697-703
	Herramientas: De Elevación y Amarre	704-711
	Mantenimiento: Limpieza, Cableado y Baterías	712
	Electricidad y Baterías	713

Bright-tools



DIN 69871



Dimensiones Generales de Amarre

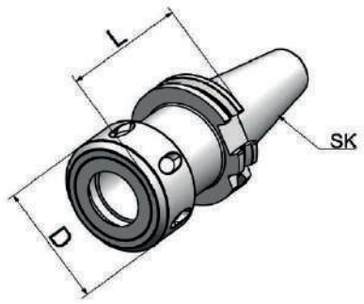
f3= 19.1mm | a=3.2mm

Modelo	D	d1	d2	d3	d4	d5	d6	d7	l1	l2	l3	l4	l5	e1	e2
SK30	50	31.75	59.30	44.30	45	13	16.10	7	47.80	24	18.80	16.30	15	21	5
SK40	63.55	44.45	72.30	56.25	50	17	16.10	7	58.40	32	25	22.70	18.50	27	5
SK50	97.50	68.85	107.36	91.25	80	25	25.70	7	101.80	47	37.70	35.50	30	42	7

Portapinzas Tipo OZ – DIN 69871 AD/B 6.3 - 15000 Rpm

Referencia	SK	Capacidad	L	D
S01.302.16 *	SK 30	2-16 (OZ 16)	60	43
S01.302.25 *	SK 30	2-25 (OZ 25)	80	60
S01.403.16	SK 40	2-16 (OZ 16)	70	43
S01.403.25	SK 40	2-25 (OZ 25)	70	60
S01.403.32	SK 40	3-32 (OZ 32)	90	72
S01.403.16.1	SK 40	2-16 (OZ 16)	100	43
S01.403.25.1	SK 40	2-25 (OZ 25)	100	60
S01.503.25	SK 50	2-25 (OZ 25)	70	60
S01.503.32	SK 50	3-32 (OZ 32)	80	72
S01.503.32.1	SK 50	3-32 (OZ 32)	100	72



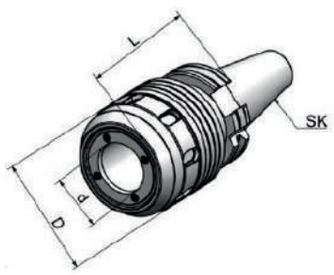


- Llave no incluida
*Modelo SK30 – Modelo Tipo AD

Portapinzas Tipo HKS – DIN 69871 AD/B 6.3 - 15.000 Rpm

Referencia	SK	Capacidad	L	D
S64.403.20	SK 40	20 – HKS 20	90	53
S64.403.32	SK 40	32 – HKS 32	105	68
S64.503.20	SK 50	20 – HKS 20	90	53
S64.503.32	SK 50	32 – HKS 32	90	68



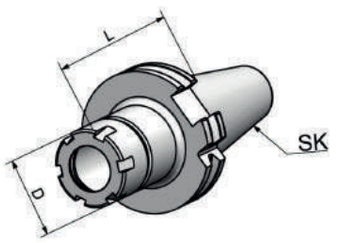


- Llave no incluida

Portapinzas Tipo ER Mini – DIN 69871 AD/B 6.3 - 15.000 Rpm

Referencia	SK	Capacidad	L	D
S03.403.07.1	SK 40	1-7 (ER11)	100	16
S03.403.07.2	SK 40	1-7 (ER11)	160	16
S03.403.10.1	SK 40	1-10 (ER16)	100	22
S03.403.10.2	SK 40	1-10 (ER16)	160	22
S03.503.10.1	SK 50	1-10 (ER16)	100	22
S03.503.10.2	SK 50	1-10 (ER16)	160	22



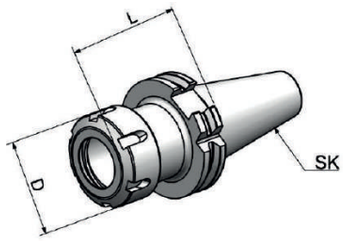


- Llave no incluida

Portapinzas Tipo ER – DIN 69871 AD - 6.3 - 15.000 Rpm

Referencia	SK	Capacidad	L	D
S02.302.10*	SK 30	1-10 (ER 16)	70	32
S02.302.16*	SK 30	2-16 (ER 25)	70	42
S02.302.20*	SK 30	2-20 (ER 32)	70	50
S02.302.26*	SK 30	3-26 (ER 40)	70	63
S02.302.10.1*	SK 30	1-10 (ER 16)	100	32
S02.302.16.1*	SK 30	2-16 (ER 25)	100	42
S02.302.20.1*	SK 30	2-20 (ER 32)	100	50



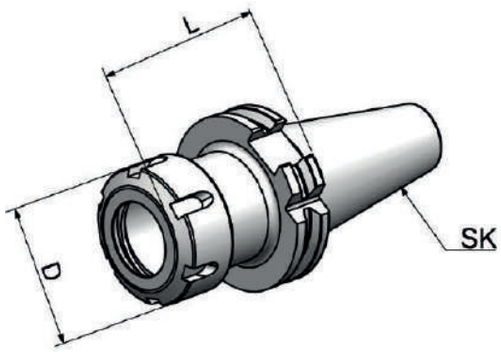


- Llave no incluida
* Modelo SK30 - Modelo Tipo AD

Portapinzas Tipo ER – DIN 69871 AD/B 6.3 - 15.000 Rpm

Referencia	SK	Capacidad	L	D
S02.403.10	SK 40	1-10 (ER 16)	63	32
S02.403.16	SK 40	2-16 (ER 25)	60	42
S02.403.20	SK 40	2-20 (ER 32)	70	50
S02.403.26	SK 40	3-26 (ER 40)	80	63
S02.403.10.1	SK 40	1-10 (ER 16)	100	32
S02.403.16.1	SK 40	2-16 (ER 25)	100	42
S02.403.20.1	SK 40	2-20 (ER 32)	100	50
S02.403.26.1	SK 40	3-26 (ER 40)	100	63
S02.403.10.2	SK 40	1-10 (ER 16)	160	32
S02.403.16.2	SK 40	2-16 (ER 25)	160	42
S02.403.20.2	SK 40	2-20 (ER 32)	160	50
S02.403.26.2	SK 40	3-26 (ER 40)	160	63
S02.403.10.3	SK 40	1-10 (ER 16)	200	32
S02.403.16.3	SK 40	2-16 (ER 25)	200	42
S02.403.20.3	SK 40	2-20 (ER 32)	200	50
S02.403.26.3	SK 40	3-26 (ER 40)	200	63
S02.503.16	SK 50	2-16 (ER 25)	60	42
S02.503.20	SK 50	2-20 (ER 32)	70	50
S02.503.26	SK 50	3-26 (ER 40)	80	63
S02.503.34	SK 50	6-34 (ER 50)	100	78
S02.503.10.1	SK 50	1-10 (ER 16)	100	32
S02.503.16.1	SK 50	2-16 (ER 25)	100	42
S02.503.20.1	SK 50	2-20 (ER 32)	100	50
S02.503.26.1	SK 50	3-26 (ER 40)	100	63
S02.503.10.2	SK 50	1-10 (ER 16)	160	32
S02.503.16.2	SK 50	2-16 (ER 25)	160	42
S02.503.20.2	SK 50	2-20 (ER 32)	160	50
S02.503.26.2	SK 50	3-26 (ER 40)	160	63
S02.503.34.2	SK 50	6-34 (ER 50)	160	78
S02.503.10.3	SK 50	1-10 (ER 16)	200	32
S02.503.10.3	SK 50	1-10 (ER 16)	200	32
S02.503.16.3	SK 50	2-16 (ER 25)	200	42
S02.503.20.3	SK 50	2-20 (ER 32)	200	50
S02.503.26.3	SK 50	3-26 (ER 40)	200	63



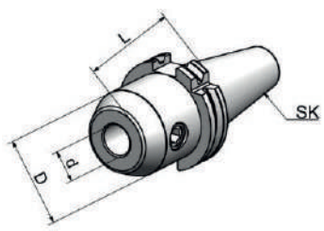


- Llave no incluida

Portafresas Tipo Weldon DIN 69871 AD 6.3 15.000 Rpm

Referencia	SK	d	L	D
S04.302.06*	SK 30	6	50	25
S04.302.08*	SK 30	8	50	28
S04.302.10*	SK 30	10	50	35
S04.302.12*	SK 30	12	50	42
S04.302.14*	SK 30	14	63	44
S04.302.16*	SK 30	16	63	48
S04.302.18*	SK 30	18	63	50
S04.302.20*	SK 30	20	70	52





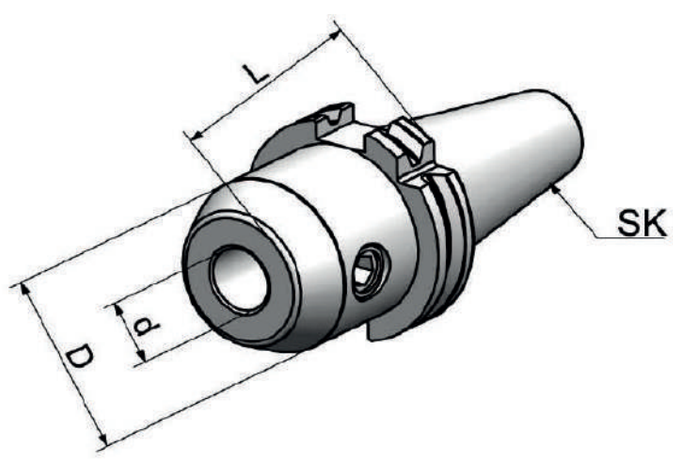
*Modelo SK30 – Tipo AD

Portafresas Tipo Weldon (Con Refrigeración) – DIN 69871 AD/B 6.3 - 15.000 Rpm

Referencia	SK	d	L	D
S04.403.16.0	SK 40	16	35	45
S04.403.20.0	SK 40	20	35	45
S04.403.25.0	SK 40	25	35	50
S04.403.32.0	SK 40	32	65	50
S04.403.06	SK 40	6	50	25
S04.403.08	SK 40	8	50	28
S04.403.10	SK 40	10	50	35
S04.403.12	SK 40	12	50	42
S04.403.14	SK 40	14	50	44
S04.403.16	SK 40	16	63	48
S04.403.18	SK 40	18	63	50
S04.403.20	SK 40	20	63	52
S04.403.25	SK 40	25	100	65
S04.403.32	SK 40	32	100	72
S04.403.40	SK 40	40	120	80
S04.403.06	SK 40	6	100	25
S04.403.08.1	SK 40	8	100	28
S04.403.10.1	SK 40	10	100	35
S04.403.12.1	SK 40	12	100	42
S04.403.14.1	SK 40	14	100	44
S04.403.16.1	SK 40	16	100	48
S04.403.18.1	SK 40	18	100	50
S04.403.20.1	SK 40	20	100	52
S04.403.06.2	SK 40	6	160	25
S04.403.08.2	SK 40	8	160	28
S04.403.10.2	SK 40	10	160	35
S04.403.12.2	SK 40	12	160	42
S04.403.14.2	SK 40	14	160	44
S04.403.16.2	SK 40	16	160	48
S04.403.18.2	SK 40	18	160	50
S04.403.20.2	SK 40	20	160	52
S04.403.25.2	SK 40	25	160	65
S04.403.32.2	SK 40	32	160	72
S04.403.06.3	SK 40	6	200	25
S04.403.08.3	SK 40	8	200	28
S04.403.10.3	SK 40	10	200	35
S04.403.12.3	SK 40	12	200	42
S04.403.14.3	SK 40	14	200	44
S04.403.16.3	SK 40	16	200	48
S04.403.18.3	SK 40	18	200	50
S04.403.20.3	SK 40	20	200	52

Referencia	SK	d	L	D
S04.503.06	SK 50	6	63	25
S04.503.08	SK 50	8	63	28
S04.503.10	SK 50	10	63	35
S04.503.12	SK 50	12	63	42
S04.503.14	SK 50	14	63	44
S04.503.16	SK 50	16	63	48
S04.503.18	SK 50	18	63	50
S04.503.20	SK 50	20	63	52
S04.503.25	SK 50	25	80	65
S04.503.32	SK 50	32	100	72
S04.503.40	SK 50	40	100	80
S04.503.50	SK 50	50	130	50
S04.503.06.1	SK 50	6	100	25
S04.503.08.1	SK 50	8	100	28
S04.503.10.1	SK 50	10	100	35
S04.503.12.1	SK 50	12	100	42
S04.503.14.1	SK 50	14	100	44
S04.503.16.1	SK 50	16	100	48
S04.503.18.	SK 50	18	100	50
S04.503.20.1	SK 50	20	100	52
S04.503.25.1	SK 50	25	120	65
S04.503.06.2	SK 50	6	160	25
S04.503.08.2	SK 50	8	160	28
S04.503.10.2	SK 50	10	160	35
S04.503.12.2	SK 50	12	160	42
S04.503.14.2	SK 50	14	160	44
S04.503.16.2	SK 50	16	160	48
S04.503.18.2	SK 50	18	160	50
S04.503.20.2	SK 50	20	160	52
S04.503.25.2	SK 50	25	160	65
S04.503.32.2	SK 50	32	160	72
S04.503.40.2	SK 50	40	160	80
S04.503.08.3	SK 50	8	200	28
S04.503.10.3	SK 50	10	200	35
S04.503.12.3	SK 50	12	200	42
S04.503.14.3	SK 50	14	200	44
S04.503.16.3	SK 50	16	200	48
S04.503.18.3	SK 50	18	200	50
S04.503.20.3	SK 50	20	200	52
S04.503.25.3	SK 50	25	200	65
S04.503.32.3	SK 50	32	200	72
S04.503.40.3	SK 50	40	200	80
S04.503.20.4	SK 50	20	250	52
S04.503.25.4	SK 50	25	250	65
S04.503.32.4	SK 50	32	250	72

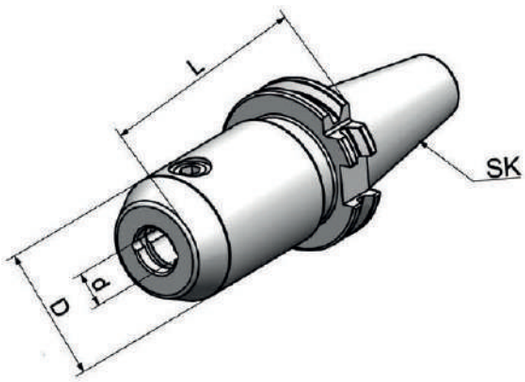




Portafresas Tipo Weldon Refrigeración Ext/Int Orificios – DIN 69871 AD/B 6.3 - 15.000 Rpm

Referencia	SK	d	L	D
S04.403.06.K	SK 40	6	50	25
S04.403.08.K	SK 40	8	50	28
S04.403.10.K	SK 40	10	50	35
S04.403.12.K	SK 40	12	50	42
S04.403.14.K	SK 40	14	50	44
S04.403.16.K	SK 40	16	63	48
S04.403.18.K	SK 40	18	63	50
S04.403.20.K	SK 40	20	63	52
S04.403.25.K	SK 40	25	100	65
S04.403.32.K	SK 40	32	100	72
S04.403.40.K	SK 40	40	120	80
S04.403.06.1.K	SK 40	6	100	25
S04.403.08.1.K	SK 40	8	100	28
S04.403.10.1.K	SK 40	10	100	35
S04.403.12.1.K	SK 40	12	100	42
S04.403.14.1.K	SK 40	14	100	44
S04.403.16.1.K	SK 40	16	100	48
S04.403.18.1.K	SK 40	18	100	50
S04.403.20.1.K	SK 40	20	100	52
S04.503.06.K	SK 50	6	63	25
S04.503.08.K	SK 50	8	63	28
S04.503.10.K	SK 50	10	63	35
S04.503.12.K	SK 50	12	63	42
S04.503.14.K	SK 50	14	63	44
S04.503.16.K	SK 50	16	63	48
S04.503.18.K	SK 50	18	63	50
S04.503.20.K	SK 50	20	63	52
S04.503.25.K	SK 50	25	80	65
S04.503.32.K	SK 50	32	100	72
S04.503.40.K	SK 50	40	100	80



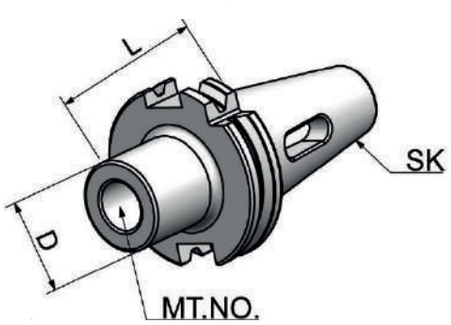


Adaptador Cono Morse DIN 228 – DIN DIN 69871 AD 6.3 - 15.000 Rpm

Referencia	SK	MK | MT	L	D
S07.302.01*	SK 30	1	50	25
S07.302.02*	SK 30	2	65	32
S07.302.03*	SK 30	3	80	40
S07.403.01	SK 40	1	50	25
S07.403.02	SK 40	2	50	32
S07.403.03	SK 40	3	70	40
S07.403.04	SK 40	4	95	48
S07.403.02.1*	SK 40	2	117	32
S07.403.03.1*	SK 40	3	133	40
S07.403.04.1*	SK 40	4	156	48
S07.503.01	SK 50	1	45	25
S07.503.02	SK 50	2	60	32
S07.503.03	SK 50	3	65	40
S07.503.04	SK 50	4	95	48
S07.503.05	SK 50	5	105	63
S07.503.02.1*	SK 50	2	117	32
S07.503.03.1*	SK 50	3	137	40
S07.503.04.1*	SK 50	4	167	48
S07.503.05.1*	SK 50	5	197	63

* DIN 69871 AD



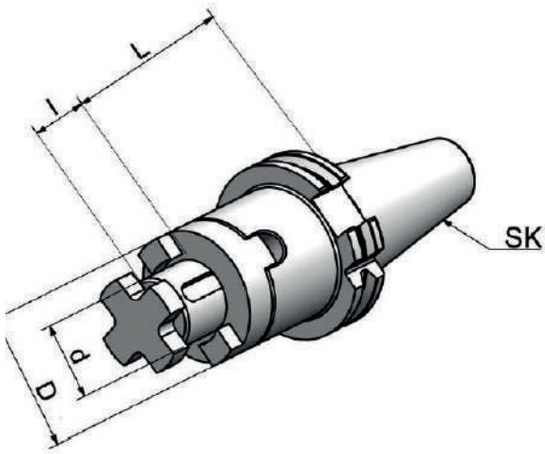


Eje Portafresas –Combinado DIN 69871 AD/B 6.3 15.000 Rpm

Referencia	SK	d	L	l	D
S10.302.16*	SK 30	16	50	17	32
S10.302.22*	SK 30	22	50	19	40
S10.302.27*	SK 30	27	55	21	48
S10.302.32*	SK 30	32	60	24	58
S10.403.16	SK 40	16	55	17	32
S10.403.22	SK 40	22	55	19	40
S10.403.27	SK 40	27	55	21	48
S10.403.32	SK 40	32	60	24	58
S10.403.40	SK 40	40	60	27	70
S10.403.16.1	SK 40	16	100	17	32
S10.403.22.1	SK 40	22	100	19	40
S10.403.27.1	SK 40	27	100	21	48
S10.403.32.1	SK 40	32	100	24	58
S10.403.40.1	SK 40	40	100	27	70
S10.403.16.2	SK 40	16	160	17	32
S10.403.22.2	SK 40	22	160	19	40
S10.403.27.2	SK 40	27	160	21	48
S10.403.32.2	SK 40	32	160	24	58
S10.403.40.2	SK 40	40	160	27	70
S10.403.16.3	SK 40	16	200	17	32
S10.403.22.3	SK 40	22	200	19	40
S10.403.27.3	SK 40	27	200	21	48
S10.403.32.3	SK 40	32	200	24	58
S10.403.40.3	SK 40	40	200	27	70
S10.503.16	SK 50	16	55	17	32
S10.503.22	SK 50	22	55	19	40
S10.503.27	SK 50	27	55	21	48
S10.503.32	SK 50	32	55	24	58
S10.503.40	SK 50	40	55	27	70
S10.503.16.1	SK 50	16	100	17	32
S10.503.22.1	SK 50	22	100	19	40
S10.503.27.1	SK 50	27	100	21	48
S10.503.32.1	SK 50	32	100	24	58
S10.503.40.1	SK 50	40	100	27	70
S10.503.16.2	SK 50	16	160	17	32
S10.503.22.2	SK 50	22	160	19	40
S10.503.27.2	SK 50	27	160	21	48
S10.503.32.2	SK 50	32	160	24	58
S10.503.40.2	SK 50	40	160	27	70

*Modelo SK30 – Tipo AD

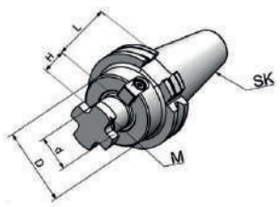




Eje Portafresas – DIN 69871 AD/B 6.3 - 15.000 Rpm

Referencia	SK	d	L	H	D
S11.302.16*	SK 30	16	40	17	38
S11.302.22*	SK 30	22	40	19	48
S11.302.27*	SK 30	27	50	21	58
S11.302.32*	SK 30	32	50	24	78
S11.403.16	SK 40	16	35	17	38
S11.403.22	SK 40	22	35	19	48
S11.403.27	SK 40	27	40	21	58
S11.403.32	SK 40	32	50	24	78
S11.403.40	SK 40	40	50	27	88
S11.503.22	SK 50	22	35	19	38
S11.503.27	SK 50	27	40	21	48
S11.503.32	SK 50	32	50	24	58
S11.503.40	SK 50	40	50	27	78
S11.503.60	SK 50	60	70	40	88

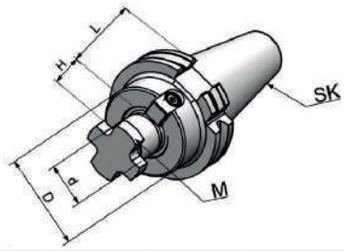




Eje Portafresas Serie Larga – DIN 69871 AD/B 6.3 - 15.000 Rpm

Referencia	SK	d	L	H	D
S11.403.16.1	SK 40	16	100	17	38
S11.403.16.2	SK 40	16	160	17	38
S11.403.16.3	SK 40	16	200	17	38
S11.403.22.1	SK 40	22	100	19	48
S11.403.22.2	SK 40	22	160	19	48
S11.403.22.3	SK 40	22	200	19	48
S11.403.22.4	SK 40	22	250	19	48
S11.403.22.5	SK 40	22	300	19	48
S11.403.27.1	SK 40	27	100	21	58
S11.403.27.2	SK 40	27	160	21	58
S11.403.27.3	SK 40	27	200	21	58
S11.403.27.4	SK 40	27	250	21	58
S11.403.27.5	SK 40	27	300	21	58
S11.403.32.1	SK 40	32	100	24	78
S11.403.32.2	SK 40	32	160	24	78
S11.403.32.3	SK 40	32	200	24	78
S11.403.32.4	SK 40	32	250	24	78
S11.403.32.5	SK 40	32	300	24	78
S11.403.40.1	SK 40	40	100	27	88
S11.403.40.2	SK 40	40	160	27	88
S11.403.40.3	SK 40	40	200	27	88
S11.403.40.4	SK 40	40	250	27	88
S11.403.40.5	SK 40	40	300	27	88
S11.503.16.1	SK 50	16	100	17	38
S11.503.16.2	SK 50	16	160	17	38
S11.503.16.3	SK 50	16	200	17	38
S11.503.16.4	SK 50	16	250	17	38
S11.503.16.5	SK 50	16	300	17	38
S11.503.16.6	SK 50	16	350	17	38
S11.503.22.1	SK 50	22	100	19	48
S11.503.22.2	SK 50	22	160	19	48
S11.503.22.3	SK 50	22	200	19	48
S11.503.22.4	SK 50	22	250	19	48
S11.503.22.5	SK 50	22	300	19	48
S11.503.22.6	SK 50	22	350	19	48
S11.503.40.5	SK 50	40	300	27	88



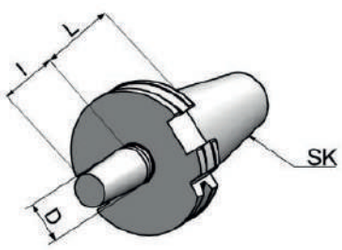


Referencia	SK	d	L	H	D
S11.503.27.1	SK 50	27	100	21	58
S11.503.27.2	SK 50	27	160	21	58
S11.503.27.3	SK 50	27	200	21	58
S11.503.27.4	SK 50	27	250	21	58
S11.503.27.5	SK 50	27	300	21	58
S11.503.27.6	SK 50	27	350	21	58
S11.503.32.1	SK 50	32	100	24	78
S11.503.32.2	SK 50	32	160	24	78
S11.503.32.3	SK 50	32	200	24	78
S11.503.32.4	SK 50	32	250	24	78
S11.503.32.5	SK 50	32	300	24	78
S11.503.32.6	SK 50	32	350	24	78
S11.503.40.1	SK 50	40	100	27	88
S11.503.40.2	SK 50	40	160	27	88
S11.503.40.3	SK 50	40	200	27	88
S11.503.40.4	SK 50	40	250	27	88

Espiga Adaptador – DIN 238 - DIN 69871 A 6.3 - 15.000 Rpm

Referencia	SK	d	L	l
S14.302.12	SK 30	B12	25	18.5
S14.302.16	SK 30	B16	25	24
S14.402.12	SK 40	B12	25	18.5
S14.402.16	SK 40	B16	25	24
S14.402.18	SK 40	B18	35	32
S14.502.16	SK 50	B16	25	24

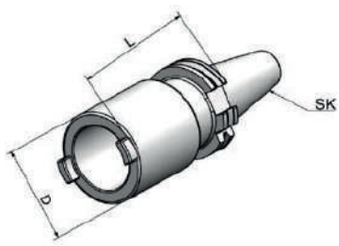




Reductor – DIN 69871 - A 6.3 - 15.000 Rpm

Referencia	SK	SK1	L	D
S09.402.30	SK 40	SK30	50	50
S09.402.40	SK 40	SK40	100	63
S09.502.40	SK 50	SK40	70	70
S09.502.50	SK 50	SK50	120	97

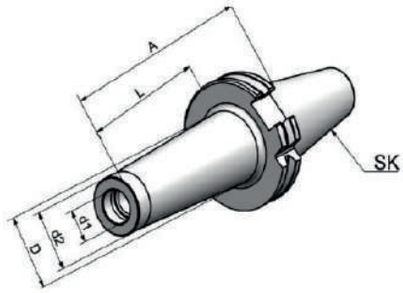




Eje Portafresas – DIN 69871 AD/B 6.3 15.000 Rpm

Referencia	SK	Rosca	D	d1	d2	A	L
S19.403.08	SK 40	M-8	23	8.5	14.5	69	50
S19.403.08.1	SK 40	M-8	23	8.5	14.5	119	100
S19.403.08.2	SK 40	M-8	25	8.5	14.5	169	150
S19.403.10	SK 40	M-10	23	10.5	18	69	50
S19.403.10.1	SK 40	M-10	32	10.5	18	119	100
S19.403.10.2	SK 40	M-10	36.5	10.5	18	169	150
S19.403.12	SK 40	M-12	24	12.5	21	69	50
S19.403.12.1	SK 40	M-10	33	12.5	21	119	100
S19.403.12.2	SK 40	M-12	40	12.5	21	169	150
S19.403.16	SK 40	M-16	34	17	29	69	50
S19.403.16.1	SK 40	M-16	36	17	29	119	100
S19.403.16.2	SK 40	M-16	42.5	17	29	169	150
S19.503.08	SK 50	M-8	23	8.5	14.5	69	50
S19.503.08.1	SK 50	M-8	25	8.5	14.5	119	100
S19.503.08.2	SK 50	M-10	30	8.5	14.5	169	150
S19.503.10	SK 50	M-10	23	10.5	18	69	50
S19.503.10.1	SK 50	M-12	32	10.5	18	119	100
S19.503.10.2	SK 50	M-8	36.5	10.5	18	169	150
S19.503.12	SK 50	M-12	24	12.5	21	69	50
S19.503.12.1	SK 50	M-10	33	12.5	21	119	100
S19.503.12.2	SK 50	M-12	40	12.5	21	169	150
S19.503.16	SK 50	M-16	34	17	29	69	50
S19.503.16.1	SK 50	M-16	36	17	29	119	100
S19.503.16.2	SK 50	M-16	42.5	17	29	169	150



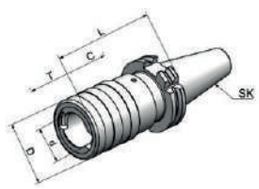


Eje Adaptador Pinzas Roscado – DIN 69871 A

- Eje Adaptador Pinzas de Roscado con Sistema de Embrague.
- Disponible para la Serie 1 (19 mm), Serie 2 (31 mm) y Serie 3 (48 mm).

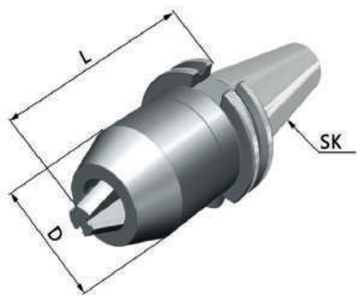
Referencia	SK	Capacidad	Serie	A	D	D	C	T
S16.302.12	SK 30	M3-M14	1	65	38	19	7	7
S16.302.20	SK 30	M5-M22	2	99	54	31	12	12
S16.402.12	SK 40	M3-M14	1	59	38	19	7	7
S16.402.20	SK 40	M5-M22	2	97	54	31	12	12
S16.402.36	SK 40	M14-M36	3	156	78	48	17.5	17.58
S16.502.12	SK 50	M3-M14	1	63	38	19	7	7
S16.502.20	SK 50	M5-M22	2	97	54	31	12	12
S16.502.36	SK 50	M14-M36	3	140	78	48	17.5	17.5





Portabrocas CNC – DIN 69871 AD y AD/B 6.3 - 15.000 Rpm

Referencia AD	Referencia AD/B	S K	Capacidad	L	D
S15.302.08	-	SK 30	0-8	70	36
S15.302.13	-	SK 30	1,0-13	111	50
S15.302.16	-	SK 30	2,5-16	116	50
S15.402.08	S15.403.08	SK 40	0-8	70	36
S15.402.13	S15.403.13	SK 40	1,0-13	90	50
S15.402.16	S15.403.16	SK 40	2,5-16	95	50
S15.502.13	S15.503.13	SK 50	1,0-13	90	50
S15.502.16	S15.503.16	SK 50	2,5-16	95	50

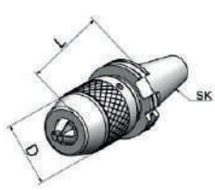


- Llave incluida

Portabrocas – DIN 69871 AD - 6.3 - 15.000 Rpm

Referencia AD	SK	Capacidad	L	D
S17.403.13	SK 40	1-13	90	48
S17.503.13	SK 50	1-13	115	50
S17.503.16	SK 50	3-16	115	53

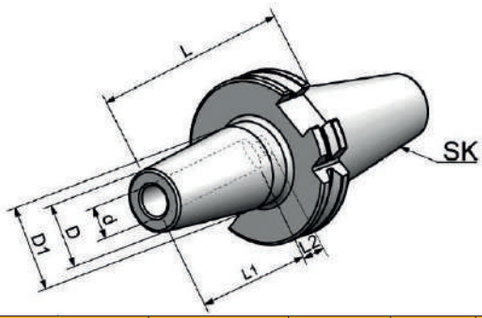




- Llave no incluida

Portaherramientas Térmicos 4.5º –DIN 69871 AD/B G2.5 - 25.000 Rpm





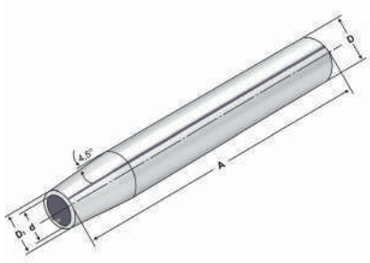
Referencia	SK	d	L	D	D1
S04.443.03	SK 40	3	80	15	20
S04.443.04	SK 40	4	80	15	20
S04.443.05	SK 40	5	80	15	20
S04.443.06	SK 40	6	80	20	27
S04.443.08	SK 40	8	80	20	27
S04.443.10	SK 40	10	80	24	32
S04.443.12	SK 40	12	80	24	32
S04.443.14	SK 40	14	80	27	34
S04.443.16	SK 40	16	80	27	34
S04.443.18	SK 40	18	80	33	42
S04.443.20	SK 40	20	80	33	42
S04.443.25	SK 40	25	100	44	53
S04.443.32	SK 40	32	100	44	53
S04.443.06.1	SK 40	6	120	20	27
S04.443.08.1	SK 40	8	120	20	27
S04.443.10.1	SK 40	10	120	24	32
S04.443.12.1	SK 40	12	120	24	32
S04.443.14.1	SK 40	14	120	27	34
S04.443.16.1	SK 40	16	120	27	34
S04.443.18.1	SK 40	18	120	33	42
S04.443.20.1	SK 40	20	120	33	42
S04.443.25.1	SK 40	25	120	44	53
S04.443.32.1	SK 40	32	120	44	53

Referencia	SK	d	L	D	D1
S04.553.03	SK 50	3	80	15	20
S04.553.04	SK 50	4	80	15	20
S04.553.05	SK 50	5	80	15	20
S04.553.06	SK 50	6	80	20	27
S04.553.08	SK 50	8	80	20	27
S04.553.10	SK 50	10	80	24	32
S04.553.12	SK 50	12	80	24	32
S04.553.14	SK 50	14	80	27	34
S04.553.16	SK 50	16	80	27	34
S04.553.18	SK 50	18	80	33	42
S04.553.20	SK 50	20	80	33	42
S04.553.25	SK 50	25	100	44	53
S04.553.32	SK 50	32	100	44	53
S04.553.06.1	SK 50	6	160	21	27
S04.553.08.1	SK 50	8	160	21	27
S04.553.10.1	SK 50	10	160	24	32
S04.553.12.1	SK 50	12	160	24	32
S04.553.14.1	SK 50	14	160	27	34
S04.553.16.1	SK 50	16	160	27	34
S04.553.18.1	SK 50	18	160	33	42
S04.553.20.1	SK 50	20	160	33	42
S04.553.25.1	SK 50	25	160	44	53
S04.553.32.1	SK 50	32	160	44	53

Alargador Térmico 4.5º - Para Portaherramientas Térmicos

- Tipo AD y precisión de 0.003 - l1: longitud máxima de amarre | l2: profundidad máxima del diámetro
- Modelos de medida 6-8-10-12 con tope de herramienta interior
- Válido para herramientas de metal duro

Referencia	D	d	D1	A	l1	l2
S07.107.03	20	3	10	150	15	5
S07.107.04	20	4	10	150	20	5
S07.107.05	20	5	10	150	20	5
S07.107.06	20	6	10	150	36	10
S07.107.08	20	8	12	150	36	10
S07.107.10	20	10	14	150	42	10
S07.107.12	20	12	16	150	47	10

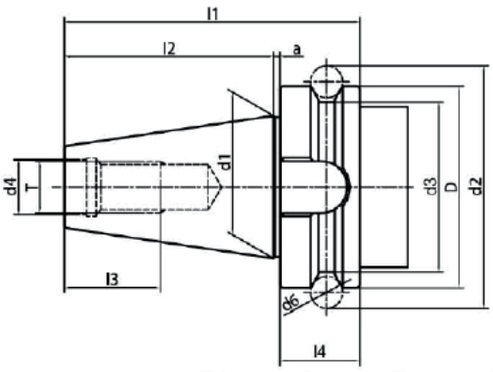


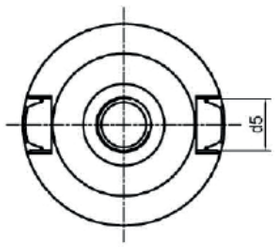
Portaherramientas Hidráulico - DIN 69871 AD/B - G2.5 - 25.000 Rpm

Referencia	SK	d	L	D	D1
S04H.403.06	SK 40	6	80	26	50
S04H.403.08	SK 40	8	80	28	50
S04H.403.10	SK 40	10	80	30	50
S04H.403.12	SK 40	12	80	32	50
S04H.403.14	SK 40	14	80	34	50
S04H.403.16	SK 40	16	80	38	50
S04H.403.18	SK 40	18	80	40	50
S04H.403.20	SK 40	20	80	42	50
S04H.403.25	SK 40	25	80	50	63
S04H.403.32	SK 40	32	80	60	63



MAS 403 BT





Dimensiones Generales de Amarre

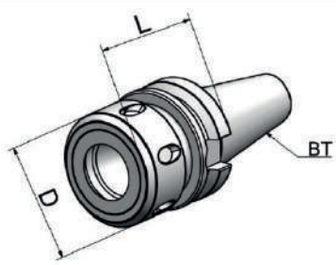
Modelo	D	d1	d2	d3	d4	d5	d6	d7	l1	l2	l3	l4	d	T
BT30	46	31.75	56.14	38	12.5	16.1	8	70.40	70.40	48.40	24	20	2	M12x1.75
BT40	63	44.45	75.674	53	17	16	10	92.40	92.40	65.40	30	25	2	M16x2
BT50	100	68.85	119.01	85	25	25.7	15	139.80	139.80	101.80	45	35	3	M24x3

Portapinzas Tipo OZ – MAS 403 BT AD/B 6.3 - 15.000 Rpm

Referencia	SK	Capacidad	L	D
S01.305.16*	BT 30	2-16 (OZ 16)	60	43
S01.305.25*	BT 30	2-25 (OZ 25)	80	60
S01.406.16	BT 40	2-16 (OZ 16)	70	43
S01.406.25	BT 40	2-25 (OZ 25)	70	60
S01.406.32	BT 40	3-32 (OZ 32)	90	72
S01.506.25	BT 50	2-25 (OZ 25)	85	60
S01.506.32	BT 50	3-32 (OZ 32)	90	72

- Llave no incluida
*Modelo BT30 - Modelo Tipo AD



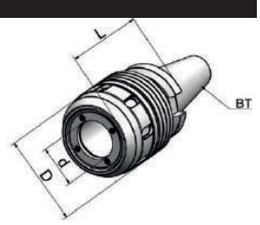


Portapinzas Tipo HKS – MAS 403 BT AD/B 6.3 - 15.000 Rpm

Referencia	SK	Capacidad	L	D
S64.406.20	BT 40	20 – HKS 20	90	50
S64.406.32	BT 40	32 – HKS 32	90	70
S64.506.20	BT 50	20 – HKS 20	105	50
S64.506.32	BT 50	32 – HKS 32	110	70

- Llave no incluida



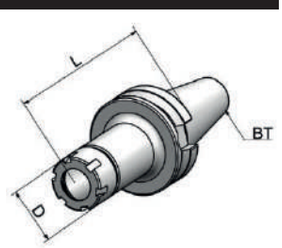


Portapinzas Tipo ER Mini – MAS 403 BT AD/B 6.3 - 15.000 Rpm

Referencia	SK	Capacidad	L	D
S03.406.07.1	BT 40	1-7 (ER11)	100	16
S03.406.07.2	BT 40	1-7 (ER11)	160	16
S03.406.10.1	BT 40	1-10 (ER 16)	100	22
S03.406.10.2	BT 40	1-10 (ER 16)	160	22
S03.506.10.1	BT 50	1-10 (ER 16)	100	22
S03.506.10.2	BT 50	1-10 (ER 16)	160	22

- Llave no incluida

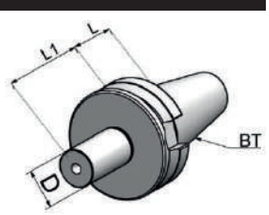




Eje Adaptador DIN – MAS 403 BT A 6.3 - 15.000 Rpm

Referencia	BT	D	L	L1
S14.305.12	BT 30	B12	25	18.5
S14.305.16	BT 30	B16	25	24
S14.405.12	BT 40	B12	32	18.5
S14.405.16	BT 40	B16	32	24
S14.405.18	BT 40	B18	32	32
S14.505.16	BT 50	B16	45	24
S14.505.18	BT 50	B18	45	32

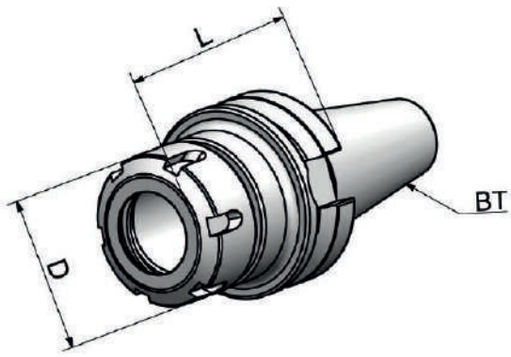




Portapinzas Tipo ER – MAS 403 BT AD/B 6.3 - 15.000 Rpm

Referencia	BT	Capacidad	L	D
S02.305.10*	BT 30	1-10 (ER 16)	70	32
S02.305.16*	BT 30	2-16 (ER 25)	70	42
S02.305.20*	BT 30	2-20 (ER 32)	70	50
S02.305.26*	BT 30	3-26 (ER 40)	70	63
S02.305.10.1*	BT 30	1-10 (ER 16)	100	32
S02.406.10	BT 40	1-10 (ER 16)	63	32
S02.406.16	BT 40	2-16 (ER 25)	60	42
S02.406.20	BT 40	2-20 (ER 32)	70	50
S02.406.26	BT 40	3-26 (ER 40)	80	63
S02.406.34	BT 40	6-34 (ER-50)	78	85
S02.406.10.1	BT 40	1-10 (ER 16)	100	32
S02.406.16.1	BT 40	2-16 (ER 25)	100	42
S02.406.20.1	BT 40	2-20 (ER 32)	100	50
S02.406.26.1	BT 40	3-26 (ER 40)	100	63
S02.406.10.2	BT 40	1-10 (ER 16)	160	32
S02.406.16.2	BT 40	2-16 (ER 25)	160	42
S02.406.20.2	BT 40	2-20 (ER 32)	160	50
S02.406.26.2	BT 40	3-26 (ER 40)	160	63
S02.406.10.3	BT 40	1-10 (ER 16)	200	32
S02.406.16.3	BT 40	2-16 (ER 25)	200	42
S02.406.20.3	BT 40	2-20 (ER 32)	200	50
S02.406.26.3	BT 40	3-26 (ER 40)	200	63
S02.506.16	BT 50	2-16 (ER 25)	70	42
S02.506.20	BT 50	2-20 (ER 32)	70	50
S02.506.26	BT 50	3-26 (ER 40)	80	63
S02.506.34	BT 50	6-34 (ER 50)	100	78
S02.506.10.1	BT 50	1-10 (ER 16)	100	32
S02.506.16.1	BT 50	2-16 (ER 25)	100	42
S02.506.20.1	BT 50	2-20 (ER 32)	100	50
S02.506.26.1	BT 50	3-26 (ER 40)	100	63
S02.506.10.2	BT 50	1-10 (ER 16)	160	32
S02.506.16.2	BT 50	2-16 (ER 25)	160	42
S02.506.20.2	BT 50	2-20 (ER 32)	160	50
S02.506.26.2	BT 50	3- 26 (ER 40)	160	63
S02.506.34.2	BT 50	6-34 (ER 50)	160	63
S02.506.10.3	BT 50	1-10 (ER 16)	200	32
S02.506.16.3	BT 50	2-16 (ER 25)	200	42
S02.506.20.3	BT 50	2-20 (ER 32)	200	50
S02.506.26.3	BT 50	3- 26 (ER 40)	200	63



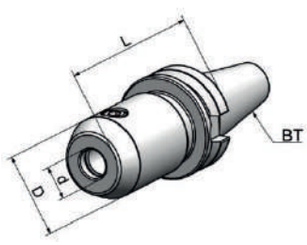


- Llave no incluida
*Modelo BT30 - Modelo Tipo AD

Portafresas Tipo Weldon – MAS 403 BT AD/B 6.3 - 15.000 Rpm

Referencia	BT	d	L	D
S04.305.06*	BT 30	6	50	25
S04.305.08*	BT 30	8	50	28
S04.305.10*	BT 30	10	50	35
S04.305.12*	BT 30	12	50	42
S04.305.14*	BT 30	14	50	44
S04.305.16*	BT 30	16	63	48
S04.305.18*	BT 30	18	63	50
S04.305.20*	BT 30	20	63	52



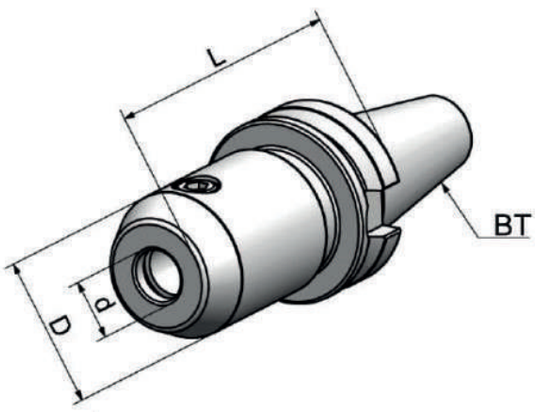


*Modelo BT30 - Tipo AD

Portafresas Tipo Weldon (Con Refrigeración) – MAS 403 BT AD/B 6.3 - 15.000 Rpm

Referencia	BT	d	L	D
S04.406.16.0	BT-40	16	35	45
S04.406.20.0	BT-40	20	35	45
S04.406.25.0	BT-40	25	35	55
S04.406.32.0	BT-40	32	65	50
S04.406.06	BT 40	6	50	25
S04.406.08	BT 40	8	50	28
S04.406.10	BT 40	10	63	35
S04.406.12	BT 40	12	63	42
S04.406.14	BT 40	14	63	44
S04.406.16	BT 40	16	63	48
S04.406.18	BT 40	18	63	50
S04.406.20	BT 40	20	63	52
S04.406.25	BT 40	25	90	65
S04.406.32	BT 40	32	100	72
S04.406.40	BT 40	40	120	80
S04.406.06.1	BT 40	6	100	25
S04.406.08.1	BT 40	8	100	28
S04.406.10.1	BT 40	10	100	35
S04.406.12.1	BT 40	12	100	42
S04.406.14.1	BT 40	14	100	44
S04.406.16.1	BT 40	16	100	48
S04.406.18.1	BT 40	18	100	50
S04.406.20.1	BT 40	20	100	52
S04.406.06.2	BT 40	6	160	25
S04.406.08.2	BT 40	8	160	28
S04.406.10.2	BT 40	10	160	35
S04.406.12.2	BT 40	12	160	42
S04.406.14.2	BT 40	14	160	44
S04.406.16.2	BT 40	16	160	48
S04.406.18.2	BT 40	18	160	50
S04.406.20.2	BT 40	20	160	52
S04.406.25.2	BT 40	25	160	65
S04.406.32.2	BT 40	32	160	72
S04.406.40.2	BT 40	40	160	80

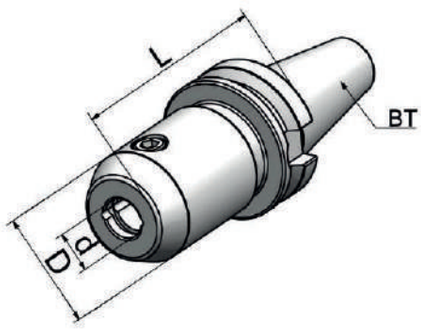




Portafresas Tipo Weldon Refrigeración Ext/Int Orificios – MAS 403 BT AD/B 6.3 - 15.000 Rpm

Referencia	SK	d	L	D
S04.406.06.K	BT 40	6	50	25
S04.406.08.K	BT 40	8	50	28
S04.406.10.K	BT 40	10	63	35
S04.406.12.K	BT 40	12	63	42
S04.406.14.K	BT 40	14	63	44
S04.406.16.K	BT 40	16	63	48
S04.406.18.K	BT 40	18	63	50
S04.406.20.K	BT 40	20	63	52
S04.406.25.K	BT 40	25	90	65
S04.406.32.K	BT 40	32	100	72
S04.406.40.K	BT 40	40	120	80
S04.406.06.1.K	BT 40	6	100	25
S04.406.08.1.K	BT 40	8	100	28
S04.406.10.1.K	BT 40	10	100	35
S04.406.12.1.K	BT 40	12	100	42
S04.406.14.1.K	BT 40	14	100	44
S04.406.16.1.K	BT 40	16	100	48
S04.406.18.1.K	BT 40	18	100	50
S04.406.20.1.K	BT 40	20	100	52

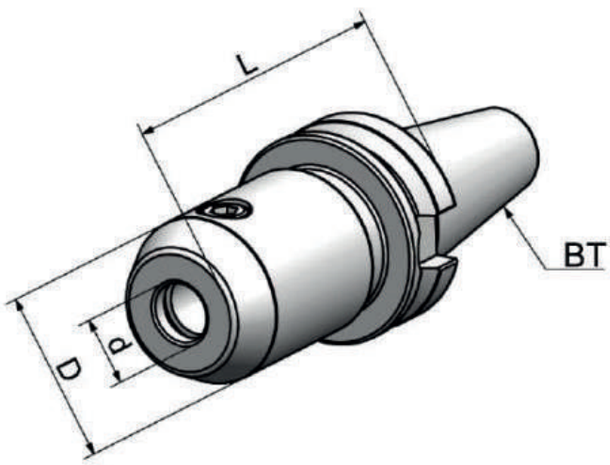




Portafresas Tipo Weldon (Con Refrigeración) – MAS 403 BT AD/B 6.3 - 15.000 Rpm

Referencia	BT	d	L	D
S04.506.06	BT 50	6	63	25
S04.506.08	BT 50	8	63	28
S04.506.10	BT 50	10	63	32
S04.506.12	BT 50	12	80	42
S04.506.14	BT 50	14	80	44
S04.506.16	BT 50	16	80	48
S04.506.18	BT 50	18	80	50
S04.506.20	BT 50	20	80	52
S04.506.25	BT 50	25	100	65
S04.506.32	BT 50	32	105	72
S04.506.40	BT 50	40	110	80
S04.506.06.1	BT 50	6	100	25
S04.506.08.1	BT 50	8	100	28
S04.506.10.1	BT 50	10	100	32
S04.506.12.1	BT 50	12	100	42
S04.506.14.1	BT 50	14	100	44
S04.506.16.1	BT 50	16	100	48
S04.506.18.1	BT 50	18	100	50
S04.506.20.1	BT 50	20	100	52
S04.506.06.2	BT 50	6	160	25
S04.506.08.2	BT 50	8	160	28
S04.506.10.2	BT 50	10	160	32
S04.506.12.2	BT 50	12	160	42
S04.506.14.2	BT 50	14	160	44
S04.506.16.2	BT 50	16	160	48
S04.506.18.2	BT 50	18	160	50
S04.506.20.2	BT 50	20	160	52
S04.506.25.2	BT 50	25	160	65
S04.506.06.3	BT 50	6	200	25
S04.506.08.3	BT 50	8	200	28
S04.506.10.3	BT 50	10	200	32
S04.506.12.3	BT 50	12	200	42
S04.506.14.3	BT 50	14	200	44
S04.506.16.3	BT 50	16	200	48
S04.506.18.3	BT 50	18	200	50
S04.506.20.3	BT 50	20	200	52
S04.506.25.3	BT 50	25	200	65
S04.506.32.3	BT 50	32	200	72

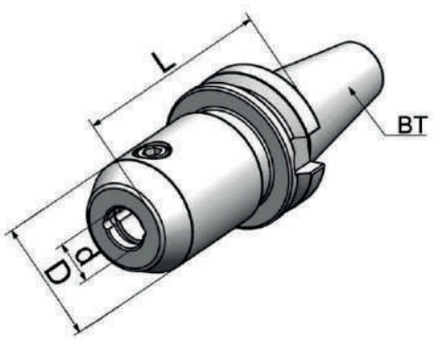




Portafresas Tipo Weldon Refrigeración Ext/Int Orificios – MAS 403 BT AD/B 6.3 - 15.000 Rpm

Referencia	SK	d	L	D
S04.506.06.K	BT 50	6	63	25
S04.506.08.K	BT 50	8	63	28
S04.506.10.K	BT 50	10	63	35
S04.506.12.K	BT 50	12	80	42
S04.506.14.K	BT 50	14	80	44
S04.506.16.K	BT 50	16	80	48
S04.506.18.K	BT 50	18	80	50
S04.506.20.K	BT 50	20	80	52
S04.506.25.K	BT 50	25	100	65
S04.506.32.K	BT 50	32	105	72
S04.506.40.K	BT 50	40	110	80



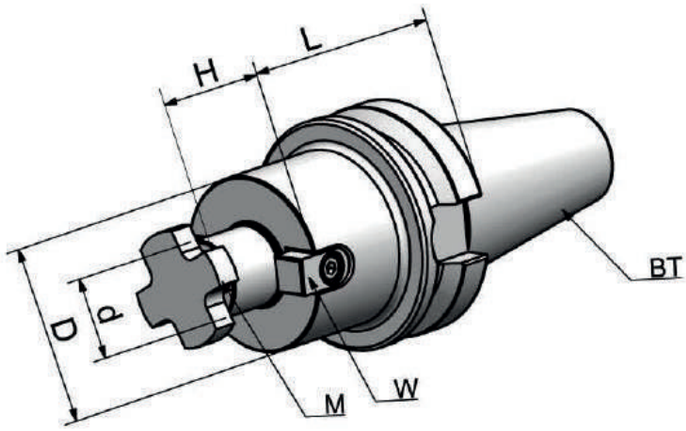


Eje Portafresas – MAS 403 BT AD/B 6.3 - 15.000 Rpm

Referencia	BT	d	L	H	D
S11.305.16*	BT 30	16	40	17	38
S11.305.22*	BT 30	22	40	19	48
S11.305.27*	BT 30	27	40	21	58
S11.305.32*	BT 30	32	50	24	78
S11.406.16	BT 40	16	40	17	38
S11.406.16.1	BT 40	16	100	17	38
S11.406.16.2	BT 40	16	160	17	38
S11.406.16.3	BT 40	16	200	17	38
S11.406.22	BT 40	22	40	19	48
S11.406.22.1	BT 40	22	100	19	48
S11.406.22.2	BT 40	22	160	19	48
S11.406.22.3	BT 40	22	200	19	48
S11.406.22.4	BT 40	22	250	19	48
S11.406.22.5	BT 40	22	300	19	48
S11.406.27	BT 40	27	40	21	58
S11.406.27.1	BT 40	27	100	21	58
S11.406.27.2	BT 40	27	160	21	58
S11.406.27.3	BT 40	27	200	21	58
S11.406.27.4	BT 40	27	250	21	58
S11.406.27.5	BT 40	27	300	21	58
S11.406.32	BT 40	32	50	24	78
S11.406.32.1	BT 40	32	100	24	78
S11.406.32.2	BT 40	32	160	24	78
S11.406.32.3	BT 40	32	200	24	78
S11.406.32.4	BT 40	32	250	24	78
S11.406.32.5	BT 40	32	300	24	78
S11.406.40	BT 40	40	50	27	88
S11.406.40.1	BT 40	40	100	27	88
S11.406.40.2	BT 40	40	160	27	88
S11.406.40.3	BT 40	40	200	27	88
S11.406.40.4	BT 40	40	250	27	88
S11.406.40.5	BT 40	40	300	27	88
S11.506.16	BT 50	16	38	17	48
S11.506.16.1	BT 50	16	100	16	38
S11.506.16.2	BT 50	16	160	17	48
S11.506.16.3	BT 50	16	200	17	48
S11.506.16.4	BT 50	16	250	17	48
S11.506.22	BT 50	22	40	19	48
S11.506.22.1	BT 50	22	100	19	48
S11.506.22.2	BT 50	22	160	19	48
S11.506.22.3	BT 50	22	200	19	48
S11.506.22.4	BT 50	22	250	19	48
S11.506.22.5	BT 50	22	300	19	48
S11.506.27	BT 50	27	50	21	58
S11.506.27.1	BT 50	27	100	21	58
S11.506.27.2	BT 50	27	160	21	58
S11.506.27.3	BT 50	27	200	21	58
S11.506.27.3	BT 50	27	200	21	58
S11.506.27.4	BT 50	27	250	21	58
S11.506.27.5	BT 50	27	300	21	58
S11.506.27.6	BT 50	27	350	21	58

*Modelo BT30 - Tipo AD





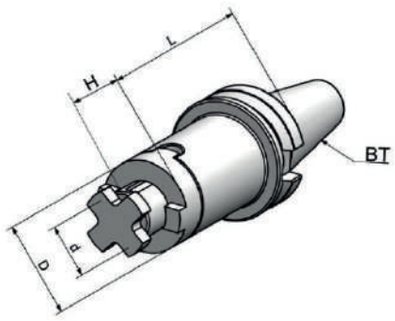
Referencia	BT	d	L	H	D
S11.506.32	BT 50	32	50	24	78
S11.506.32.1	BT 50	32	100	24	78
S11.506.32.2	BT 50	32	160	24	78
S11.506.32.3	BT 50	32	200	24	78
S11.506.32.4	BT 50	32	250	24	78
S11.506.32.5	BT 50	32	300	24	78
S11.506.32.6	BT 50	32	350	24	78
S11.506.40	BT 50	40	50	27	88
S11.506.40.1	BT 50	40	100	27	88
S11.506.40.2	BT 50	40	160	27	88
S11.506.40.3	BT 50	40	200	27	88
S11.506.40.4	BT 50	40	250	27	88
S11.506.40.5	BT 50	40	250	27	88

Eje Portafresas Combinado – MAS 403 BT AD/B 6.3 - 15.000 Rpm

Referencia	BT	d	L	H	D
S10.305.16*	BT 30	16	45	17	32
S10.305.22*	BT 30	22	47	19	40
S10.305.27*	BT 30	27	49	21	48
S10.406.16	BT 40	16	55	17	32
S10.406.22	BT 40	22	55	19	40
S10.406.27	BT 40	27	55	21	48
S10.406.32	BT 40	32	60	24	58
S10.406.40	BT 40	40	60	27	70
S10.406.16.1	BT 40	16	100	17	32
S10.406.22.1	BT 40	22	100	19	40
S10.406.27.1	BT 40	27	100	21	48
S10.406.32.1	BT 40	32	100	24	58
S10.406.40.1	BT 40	40	100	27	70
S10.406.16.2	BT 40	16	160	17	32
S10.406.22.2	BT 40	22	160	19	40
S10.406.27.2	BT 40	27	160	21	48
S10.406.32.2	BT 40	32	160	24	58
S10.406.40.2	BT 40	40	160	27	70
S10.406.16.3	BT 40	16	200	17	32
S10.406.22.3	BT 40	22	200	19	40
S10.406.27.3	BT 40	27	200	21	48
S10.406.32.3	BT 40	32	200	24	58
S10.406.40.3	BT 40	40	200	27	70
S10.506.16	BT 50	16	70	17	32
S10.506.22	BT 50	22	70	19	40
S10.506.27	BT 50	27	70	21	48
S10.506.32	BT 50	32	70	24	58
S10.506.40	BT 50	40	70	27	70
S10.506.16.2	BT 50	16	160	17	32
S10.506.22.2	BT 50	22	160	19	40
S10.506.27.2	BT 50	27	160	21	48
S10.506.32.2	BT 50	32	160	24	58
S10.506.40.2	BT 50	40	160	27	70
S10.506.16.3	BT 50	16	200	17	32
S10.506.22.3	BT 50	22	200	19	40
S10.506.27.3	BT 50	27	200	21	48
S10.506.32.3	BT 50	32	200	24	58
S10.506.40.3	BT 50	40	200	27	70

*Modelo BT30 - Tipo AD



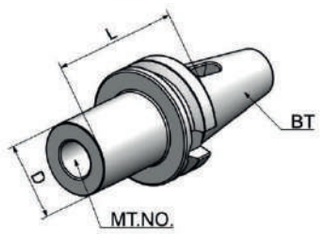


Porta Reductor Cono Morse DIN 228 – MAS 403 BT AD/B 6.3 - 15.000 Rpm

Referencia	BT	MK	L	D
S07.305.01*	BT 30	1	45	25
S07.305.02*	BT 30	2	60	32
S07.305.03*	BT 30	3	75	40
S07.406.01	BT 40	1	50	25
S07.406.02	BT 40	2	50	32
S07.406.03	BT 40	3	70	40
S07.406.04	BT 40	4	95	48
S07.506.01	BT 50	1	45	25
S07.506.02	BT 50	2	60	32
S07.506.03	BT 50	3	65	40
S07.506.04	BT 50	4	95	48
S07.506.05	BT 50	5	105	63

*Modelo BT30 - Tipo AD

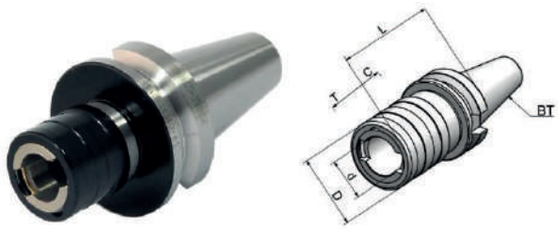




Eje Adaptador Pinzas de Roscado - MAS 403 BT A 6.3 - 15.000 Rpm

- Disponible para la Serie 1 (19 mm), Serie 2 (31 mm) y Serie 3 (48 mm). Forma A.
- Eje Adaptador Pinzas de Roscado con Sistema de Embrague.

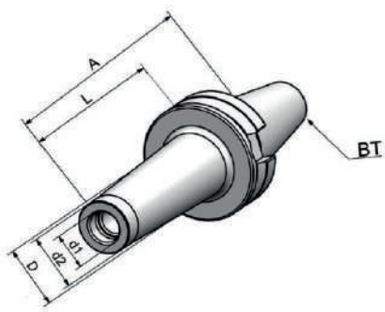
Referencia	BT	Capacidad	Serie	L	D
S16.305.12	BT 30	M3-M14	1	70	38
S16.305.20	BT 30	M5-M22	2	95	54
S16.405.12	BT 40	M3-M14	1	65	38
S16.405.20	BT 40	M5-M22	2	93	53
S16.405.36	BT 40	M14-M36	3	166	78
S16.505.12	BT 50	M3-M14	1	100	38
S16.505.20	BT 50	M5-M22	2	100	53
S16.505.36	BT 50	M14-M36	3	142	78



Portaherramientas Cabeza Roscada – MAS 403 BT AD 6.3 - 15.000 Rpm

Referencia	BT	Rosca	D	d1	d2	A	L
S19.406.08	BT 40	M-8	15	8.5	14.5	77	50
S19.406.08.1	BT 40	M-8	23	8.5	14.5	127	100
S19.406.08.2	BT 40	M-8	25	8.5	14.5	177	150
S19.406.10	BT 40	M-10	23	10.5	18	77	50
S19.406.10.1	BT 40	M-10	32	10.5	18	127	100
S19.406.10.2	BT 40	M-10	36.5	10.5	18	177	150
S19.406.12	BT 40	M-12	24	12.5	21	77	50
S19.406.12.1	BT 40	M-12	31	12.5	21	127	100
S19.406.12.2	BT 40	M-12	38	12.5	21	177	150
S19.406.16	BT 40	M-16	34	17	29	77	50
S19.406.16.1	BT 40	M-16	36	17	29	127	100
S19.406.16.2	BT 40	M-16	42.5	17	29	177	150
S19.506.08.0	BT 50	M-8	23	8.5	14.5	88	50
S19.506.08	BT 50	M-8	25	8.5	14.5	138	100
S19.506.08.2	BT 50	M-8	30	8.5	14.5	188	150
S19.506.10.0	BT 50	M-10	23	10.5	18	88	50
S19.506.10	BT 50	M-10	32	10.5	18	138	100
S19.506.10.2	BT 50	M-10	36.5	10.5	18	188	150
S19.506.12.0	BT 50	M-12	24	12.5	21	88	50
S19.506.12	BT 50	M-12	33	12.5	21	138	100
S19.506.12.2	BT 50	M-12	40	12.5	21	188	150
S19.506.16.0	BT 50	M-16	34	17	29	88	50
S19.506.16	BT-50	M-16	36	17	29	138	100
S19.506.16.2	BT 50	M-16	42.5	17	29	188	150





Portabrocas CNC – MAS 403 BT AD y AD/B

Referencia AD	Referencia AD/B	BT	Capacidad	L	D
S15.305.08	-	BT 30	0-8	70	36
S15.305.13	-	BT 30	1,0-13	111	50
S15.305.16	-	BT 30	2,5-16	116	50
S15.405.08	S15.406.08	BT 40	0-8	70	36
S15.405.13	S15.406.13	BT 40	1,0-13	90	50
S15.405.16	S15.406.16	BT 40	2,5-16	95	50
S15.505.13	S15.506.13	BT 50	1,0-13	90	50
S15.505.16	S15.506.16	BT 50	2,5-16	95	50

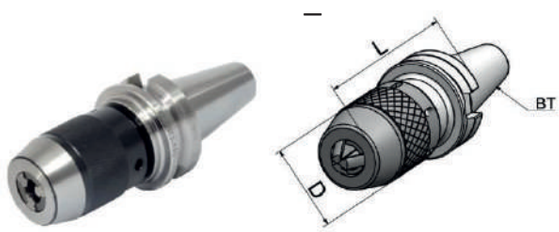
- Llave incluida



Portabrocas AD – MAS 403 BT

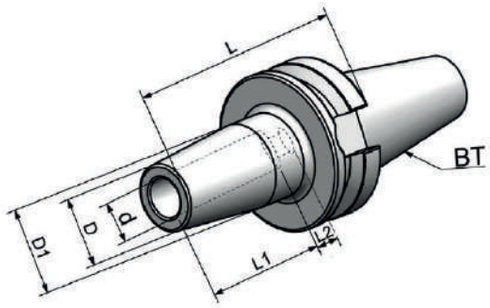
Referencia AD	BT	Capacidad	L	D
S17.406.13	BT 40	1-13	105	48
S17.506.13	BT 50	1-13	115	48
S17.506.16	BT 50	3-16	115	53

- Llave no incluida



Portaherramientas Térmicos 4.5º – MAS 403 BT AD/B G2.5 - 25.000 Rpm





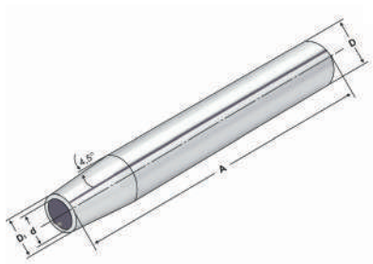
Referencia	BT	d	L	D	D1
S04.446.03	BT 40	3	80	15	20
S04.446.04	BT 40	4	80	15	20
S04.446.05	BT 40	5	80	15	20
S04.446.06	BT 40	6	80	20	27
S04.446.08	BT 40	8	90	20	27
S04.446.10	BT 40	10	90	24	32
S04.446.12	BT 40	12	90	24	32
S04.446.14	BT 40	14	90	27	34
S04.446.16	BT 40	16	90	27	34
S04.446.18	BT 40	18	90	33	42
S04.446.20	BT 40	20	90	33	42
S04.446.25	BT 40	25	100	44	53
S04.446.32	BT 40	32	100	44	53
S04.446.06.1	BT 40	6	120	20	27
S04.446.08.1	BT 40	8	120	20	27
S04.446.10.1	BT 40	10	120	24	32
S04.446.12.1	BT 40	12	120	24	32
S04.446.14.1	BT 40	14	120	27	34
S04.446.16.1	BT 40	16	120	27	34
S04.446.18.1	BT 40	18	120	33	42
S04.446.20.1	BT 40	20	120	33	42
S04.446.25.1	BT 40	25	120	44	53

Referencia	BT	d	L	D	D1
S04.556.03	BT 50	3	100	15	20
S04.556.04	BT 50	4	100	15	20
S04.556.05	BT 50	5	100	15	20
S04.556.06	BT 50	6	100	20	27
S04.556.08	BT 50	8	100	20	27
S04.556.10	BT 50	10	100	24	32
S04.556.12	BT 50	12	100	24	32
S04.556.14	BT 50	14	100	27	34
S04.556.16	BT 50	16	100	27	34
S04.556.18	BT 50	18	100	33	42
S04.556.20	BT 50	20	100	33	42
S04.556.25	BT 50	25	100	44	53
S04.556.32	BT 50	32	120	44	53
S04.556.06.1	BT 50	6	160	21	27
S04.556.08.1	BT 50	8	160	21	27
S04.556.10.1	BT 50	10	160	24	32
S04.556.12.1	BT 50	12	160	24	32
S04.556.14.1	BT 50	14	160	27	34
S04.556.16.1	BT 50	16	160	27	34
S04.556.18.1	BT 50	18	160	33	42
S04.556.20.1	BT 50	20	160	33	42
S04.556.25.1	BT 50	25	160	44	53
S04.556.32.1	BT 50	32	160	44	53

Alargador Térmico 4.5º - Para Portaherramientas Térmicos

- Tipo AD y precisión de 0.003 - l1: longitud máxima de amarre | l2: profundidad máxima del diámetro
- Modelos de medida 6-8-10-12 con tope de herramienta interior
- Válido para herramientas de metal duro

Referencia	D	d	D1	A	l1	l2
S07.107.03	20	3	10	150	15	5
S07.107.04	20	4	10	150	20	5
S07.107.05	20	5	10	150	20	5
S07.107.06	20	6	10	150	36	10
S07.107.08	20	8	12	150	36	10
S07.107.10	20	10	14	150	42	10
S07.107.12	20	12	16	150	47	10

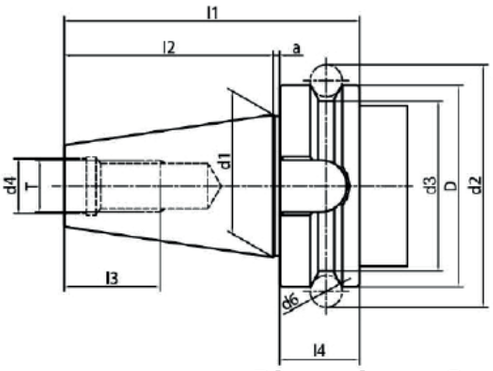


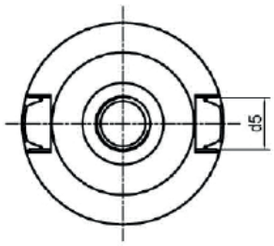
Portaherramienta Hidráulico - MAS 403 BT AD/B - G2.5 - 25.000 Rpm

Referencia	SK	d	L	D	D1
S04H.406.06	BT 40	6	90	26	50
S04H.406.08	BT 40	8	90	28	50
S04H.406.10	BT 40	10	90	30	50
S04H.406.12	BT 40	12	90	32	50
S04H.406.14	BT 40	14	90	34	50
S04H.406.16	BT 40	16	90	38	50
S04H.406.18	BT 40	18	90	40	50
S04H.406.20	BT 40	20	90	42	50
S04H.406.25	BT 40	25	100	50	63
S04H.406.32	BT 40	32	105	60	63



MAS 403 BBT – Doble Contacto





Dimensiones Generales de Amarre

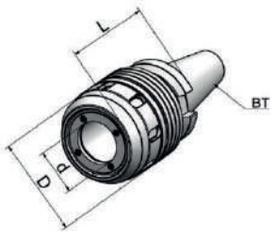
Modelo	D	d1	d2	d3	d4	d5	d6	l1	l2	l3	l4	d	T
BT30	46	31.75	56.14	38	12.5	16.1	8	70.40	48.40	24	20	2	M12x1.75
BT40	63	44.45	75.67	53	17	16	10	92.40	65.40	30	25	2	M16x2
BT50	100	68.85	119.01	85	25	25.7	15	139.80	101.80	45	35	3	M24x3

Portapinzas Tipo HKS Doble Contacto – MAS 403 BBT AD/B 6.3 - 15.000 Rpm

Referencia	BT	Capacidad	L	D
S64.409.20	BBT 40	20 – HKS 20	90	53
S64.409.25	BBT 40	25 – HKS 25	90	53
S64.409.32	BBT 40	32 – HKS 32	90	53

- Llave no incluida



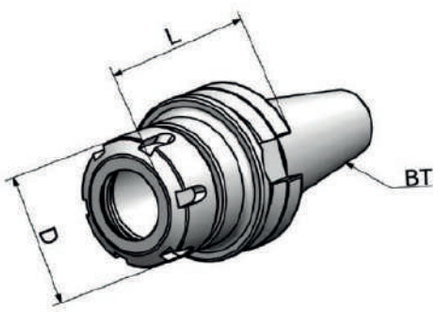


Portapinzas Tipo ER Doble Contacto – MAS 403 BBT AD/B 6.3 - 15.000 Rpm

Referencia	BT	Capacidad	L	D
S02.329.10	BBT 30	1-10 (ER 16)	70	32
S02.329.16	BBT 30	2-16 (ER 25)	70	42
S02.329.20	BBT 30	2-20 (ER 32)	70	50
S02.329.26	BBT 30	3-26 (ER 40)	70	63
S02.429.10	BBT 40	1-10 (ER 16)	63	32
S02.429.16	BBT 40	2-16 (ER 25)	60	42
S02.429.20	BBT 40	2-20 (ER 32)	70	50
S02.429.26	BBT 40	3-26 (ER 40)	80	63
S02.429.10.1	BBT 40	1-10 (ER 16)	100	32
S02.429.16.1	BBT 40	2-16 (ER 25)	100	42
S02.429.20.1	BBT 40	2-20 (ER 32)	100	50
S02.429.26.1	BBT 40	3-26 (ER 40)	100	63
S02.429.10.2	BBT 40	1-10 (ER 16)	160	32
S02.429.16.2	BBT 40	2-16 (ER 25)	160	42
S02.429.20.2	BBT 40	2-20 (ER 32)	160	50
S02.429.26.2	BBT 40	3-26 (ER 40)	160	63
S02.529.10	BBT 50	1-10 (ER 16)	70	32
S02.529.16	BBT 50	2-16 (ER 25)	70	42
S02.529.20	BBT 50	2-20 (ER 32)	70	50
S02.529.26	BBT 50	3-26 (ER 40)	80	63

- Llave no incluida

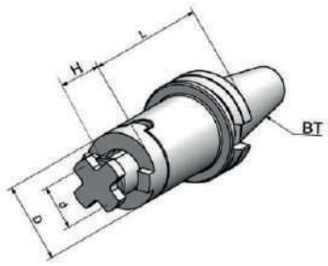




Eje Portafresas Combinado Doble Contacto – MAS 403 BBT AD/B 6.3 - 15.000 Rpm

Referencia	BT	d h6	A	H	D
S10.309.16	BBT 30	16	45	47	32
S10.309.22	BBT 30	22	47	19	40
S10.309.27	BBT 30	27	49	21	48
S10.409.16	BBT 40	16	55	17	32
S10.409.22	BBT 40	22	55	19	40
S10.409.27	BBT 40	27	55	21	48
S10.509.16	BBT 50	16	55	17	38
S10.509.22	BBT 50	22	55	19	48
S10.509.27	BBT 50	27	55	21	58
S10.509.32	BBT 50	32	55	24	78
S10.509.40	BBT 50	40	80	27	88

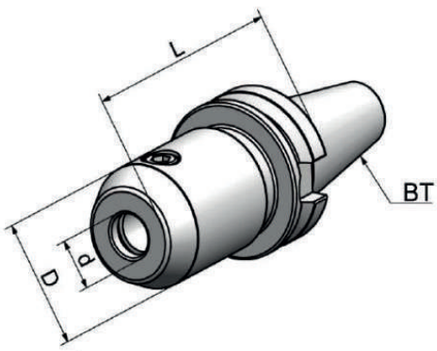




Portafresas Tipo Weldon Doble Contacto – MAS 403 BBT AD/B 6.3 - 15.000 Rpm

Referencia	BT	d	L	D
S04.309.06	BBT 30	6	50	25
S04.309.08	BBT 30	8	50	28
S04.309.10	BBT 30	10	50	35
S04.309.12	BBT 30	12	50	42
S04.309.14	BBT 30	14	50	44
S04.309.16	BBT 30	16	63	48
S04.309.18	BBT 30	18	63	50
S04.309.20	BBT 30	20	63	52
S04.409.06	BBT 40	6	50	25
S04.409.08	BBT 40	8	50	28
S04.409.10	BBT 40	10	63	35
S04.409.12	BBT 40	12	63	42
S04.409.14	BBT 40	14	63	44
S04.409.16	BBT 40	16	63	48
S04.409.18	BBT 40	18	63	50
S04.409.20	BBT 40	20	63	52
S04.409.25	BBT 40	25	90	65
S04.409.32	BBT 40	32	100	72
S04.409.40	BBT 40	40	120	80
S04.409.06.1	BBT 40	6	100	25
S04.409.08.1	BBT 40	8	100	28
S04.409.10.1	BBT 40	10	100	35
S04.409.12.1	BBT 40	12	100	42
S04.409.14.1	BBT 40	14	100	44
S04.409.16.1	BBT 40	16	100	48
S04.409.18.1	BBT 40	18	100	50
S04.409.20.1	BBT 40	20	100	52
S04.509.06	BBT 50	6	63	25
S04.509.08	BBT 50	8	63	28
S04.509.10	BBT 50	10	63	35
S04.509.12	BBT 50	12	80	42
S04.509.14	BBT 50	14	80	44
S04.509.16	BBT 50	16	80	48
S04.509.18	BBT 50	18	80	50
S04.509.20	BBT 50	20	80	52
S04.509.25	BBT 50	25	100	65
S04.509.32	BBT 50	32	105	72
S04.509.40	BBT 50	40	110	80

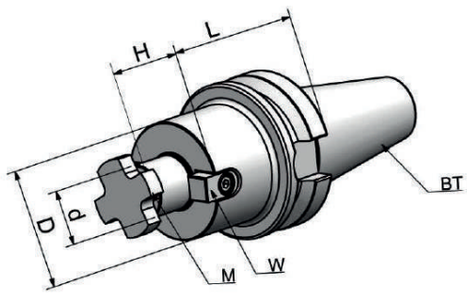




Eje Portafresas Doble Contacto – MAS 403 BBT AD/B 6.3 - 15.000 Rpm

Referencia	BT	d	L	H	D
S11.309.16	BBT 30	16	40	17	38
S11.309.22	BBT 30	22	40	19	48
S11.309.27	BBT 30	27	40	21	58
S11.309.32	BBT 30	32	50	24	78
S11.409.16	BBT 40	16	40	17	38
S11.409.22	BBT 40	22	40	19	48
S11.409.27	BBT 40	27	40	21	58
S11.409.32	BBT 40	32	50	24	78
S11.409.40	BBT 40	40	50	24	78
S11.409.16.1	BBT 40	32	100	24	78
S11.409.22.1	BBT 40	32	100	24	78
S11.409.27.1	BBT 40	32	100	24	78
S11.509.16	BBT 50	16	55	17	38
S11.509.22	BBT 50	22	55	19	48
S11.509.27	BBT 50	27	55	21	58
S11.509.32	BBT 50	32	55	24	78
S11.509.40	BBT 50	40	55	27	88

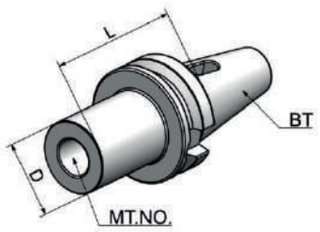




Porta Reductor Cono Morse DIN 228 Doble Contacto – MAS 403 BBT AD/B 6.3 - 15.000 Rpm

Referencia	BT	MK	L	D
S07.309.01	BBT 30	1	45	25
S07.309.02	BBT 30	2	60	32
S07.309.03	BBT 30	3	75	40
S07.409.01	BBT 40	1	50	25
S07.409.02	BBT 40	2	50	32
S07.409.03	BBT 40	3	70	40
S07.409.04	BBT 40	4	90	48



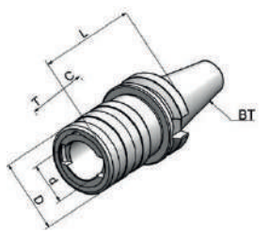


Eje Adaptador Pinzas Roscado Doble Contacto - MAS 403 BBT A 6.3 - 15.000 Rpm

- Disponible para la Serie 1 (19 mm), Serie 2 (31 mm) y Serie 3 (48 mm). Forma A.
- Eje Adaptador Pinzas de Roscado con Sistema de Embrague.

Referencia	BT	Capacidad	Serie	L	D
S16.409.12	BBT 40	M3-M14	1	65	38
S16.409.20	BBT 40	M5-M22	2	93	53

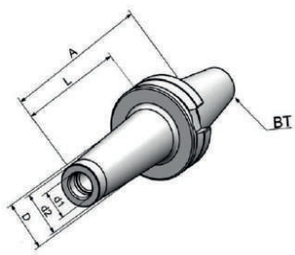




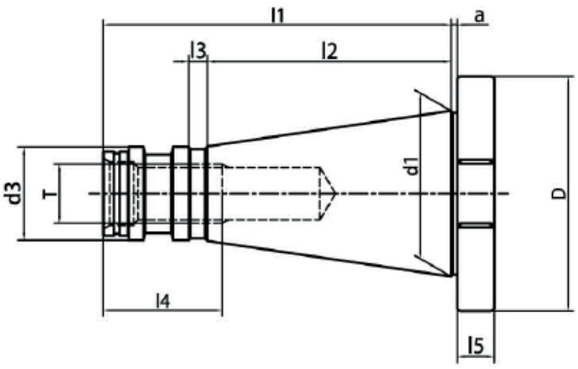
Portaherramientas Cabeza Roscada Doble Contacto – MAS 403 BBT AD 6.3 - 15.000 Rpm

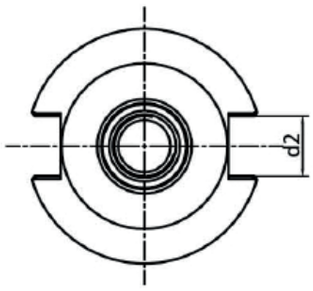
Referencia	BT	Rosca	D	d2	L	A
S19.409.12	BBT 40	M-12	24	21	25	52
S19.409.12.1	BBT 40	M-12	31	21	75	102
S19.409.12.2	BBT 40	M-12	33	21	100	127
S19.409.16	BBT 40	M-16	29	29	25	52
S19.409.16.1	BBT 40	M-16	34	29	50	77
S19.409.16.2	BBT 40	M-16	34	29	75	102
S19.409.16.3	BBT 40	M-16	36	29	100	127





DIN 2080





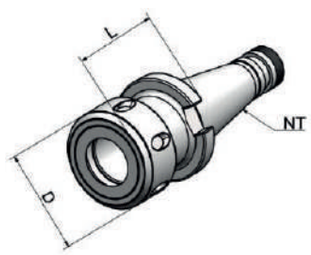
Dimensiones Generales de Amarre

SK	D	d1	d2	d3	A	l1	l2	l3	l4	l5	T
30	50	31.75	16.1	17.04	1.6	68.4	48.4	3	24	8	M12
40	63	44.45	16.1	24.94	1.6	93.4	65.4	5	32	10	M16
50	97.5	68.85	25.7	39.19	3.2	126.8	101.8	8	47	12	M24

Portapinzas Tipo OZ – DIN 2080 AD 6.3 - 15.000 Rpm

Referencia	ISO	Capacidad	L	D
S01.301.16	ISO 30	2-16 – OZ16	50	43
S01.401.16	ISO 40	2-16 – OZ16	55	43
S01.401.25	ISO 40	2-25 – OZ25	66	60
S01.401.32	ISO 40	3-32 – OZ32	95	72
S01.501.25	ISO 50	2-25 – OZ25	71	60
S01.501.32	ISO 50	3-32 – OZ32	73	72



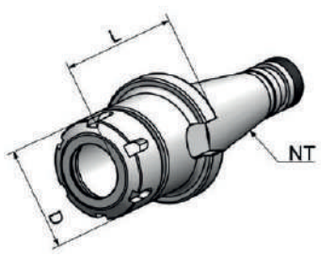


- Llave no incluida

Portapinzas Tipo ER – DIN 2080 AD 6.3 - 15.000 Rpm

Referencia	ISO	Capacidad	L	D
S02.301.16	ISO 30	2-16 – ER25	50	42
S02.301.20	ISO 30	2-20 – ER32	50	50
S02.401.16	ISO 40	2-16 – ER25	50	42
S02.401.20	ISO 40	2-20 – ER32	50	50
S02.401.26	ISO 40	3-26 – ER40	80	63
S02.501.20	ISO 50	2-20 – ER32	63	50
S02.501.26	ISO 50	3-26 – ER40	63	63



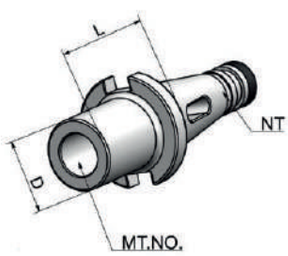


- Llave no incluida

Reductor Cono Morse DIN 228 - DIN 2080 AD 6.3 - 15.000 Rpm

Referencia	ISO	CM/MT	L	D
S07.301.01	ISO 30	1	50	25
S07.301.02	ISO 30	2	50	32
S07.301.03	ISO 30	3	75	40
S07.401.01	ISO 40	1	50	25
S07.401.02	ISO 40	2	50	32
S07.401.03	ISO 40	3	65	40
S07.401.04	ISO 40	4	95	48
S07.501.02	ISO 50	2	60	32
S07.501.03	ISO 50	3	65	40
S07.501.04	ISO 50	4	70	48
S07.501.05	ISO 50	5	105	63

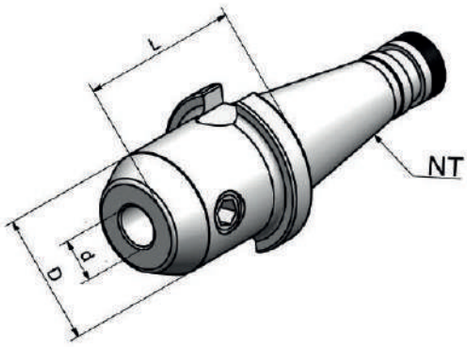




Portaherramientas Tipo Weldon – DIN 2080 AD 6.3 - 15.000 Rpm

Referencia	ISO	d	L	D
S04.301.06	ISO 30	6	40	25
S04.301.08	ISO 30	8	40	28
S04.301.10	ISO 30	10	40	35
S04.301.12	ISO 30	12	40	42
S04.301.14	ISO 30	14	50	44
S04.301.16	ISO 30	16	50	48
S04.301.18	ISO 30	18	50	50
S04.301.20	ISO 30	20	63	52
S04.401.06	ISO 40	6	50	25
S04.401.08	ISO 40	8	50	28
S04.401.10	ISO 40	10	50	35
S04.401.12	ISO 40	12	50	42
S04.401.14	ISO 40	14	50	44
S04.401.16	ISO 40	16	63	48
S04.401.18	ISO 40	18	63	50
S04.401.20	ISO 40	20	63	52
S04.401.25	ISO 50	25	80	65
S04.401.32	ISO 50	32	80	72
S04.401.40	ISO 50	40	90	80
S04.501.06	ISO 50	6	63	25
S04.501.08	ISO 50	8	63	28
S04.501.10	ISO 50	10	63	35
S04.501.12	ISO 50	12	63	42
S04.501.14	ISO 50	14	63	44
S04.501.16	ISO 50	16	63	48
S04.501.18	ISO 50	18	63	50
S04.501.20	ISO 50	20	80	52
S04.501.25	ISO 50	25	80	65
S04.501.32	ISO 50	32	80	72
S04.501.40	ISO 50	40	90	80

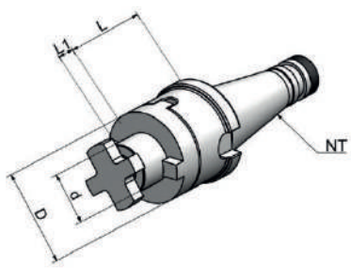




Eje Portafresas Combinado – DIN 2080 AD 6.3 - 15.000 Rpm

Referencia	ISO	d	L	L1	D
S10.301.16	ISO 30	16	35	25	32
S10.301.22	ISO 30	22	35	25	40
S10.301.27	ISO 30	27	35	25	48
S10.301.32	ISO 30	32	50	40	58
S10.401.16	ISO 40	16	52	40	32
S10.401.22	ISO 40	22	52	40	40
S10.401.27	ISO 40	27	52	40	48
S10.401.32	ISO 40	32	52	40	58
S10.401.40	ISO 40	40	52	40	70
S10.501.16	ISO 50	16	55	40	32
S10.501.22	ISO 50	22	55	40	40
S10.501.27	ISO 50	27	55	40	48
S10.501.32	ISO 50	32	55	40	58
S10.501.40	ISO 50	40	55	40	48

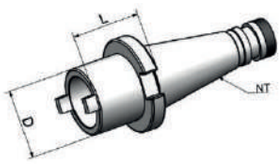




Porta Reductor – DIN 2080 AD 6.3 - 15.000 Rpm

Referencia	ISO	Reductor	L	D
S09.401.30	ISO 40	30	50	42
S09.401.40	ISO 40	40	100	50
S09.501.40	ISO 50	40	50	42
S09.501.50	ISO 50	50	125	50

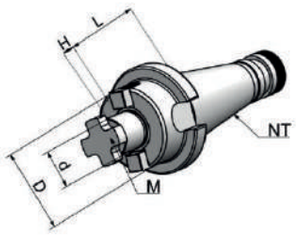




Eje Portafresas – DIN 2080 AD 6.3 - 15.000 Rpm

Referencia	ISO	d	H	L	D
S11.401.16	ISO 40	16	17	30	38
S11.401.22	ISO 40	22	19	30	48
S11.401.27	ISO 40	27	21	30	58
S11.401.32	ISO 40	32	24	30	78
S11.401.40	ISO 40	40	27	30	55
S11.501.22	ISO 50	22	19	35	48
S11.501.27	ISO 50	27	21	35	58
S11.501.32	ISO 50	32	24	40	78
S11.501.40	ISO 50	40	27	33	88
S11.501.60	ISO 50	60	40	55	129

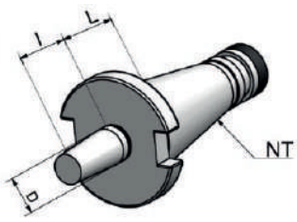




Eje Adaptador DIN – DIN 2080 AD 6.3 - 15.000 Rpm

Referencia	ISO	D	L	I
S14.301.12	ISO 30	B12	15	18.5
S14.301.16	ISO 30	B16	17	24
S14.401.12	ISO 40	B12	15	18.5
S14.401.16	ISO 40	B16	17	24
S14.401.18	ISO 40	B18	17	32
S14.501.16	ISO 50	B16	20	24
S14.501.18	ISO 50	B18	20	32

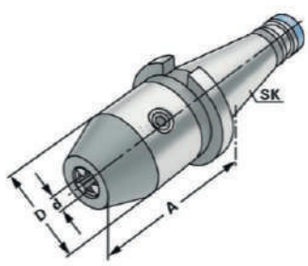




Portabrocas Industrial – DIN 2080 AD 6.3 - 15.000 Rpm

Referencia	ISO	Capacidad	A	D
S15.301.08	ISO 30	0-8	60	36
S15.301.13	ISO 30	1-13	90	50
S15.301.16	ISO 40	2.5-16	95	50
S15.401.08	ISO 40	0-8	63	36
S15.401.13	ISO 40	1-13	83	50
S15.401.16	ISO 50	2.5-16	88	50
S15.501.13	ISO 50	1-13	85	50
S15.501.16	ISO 50	2.5-16	90	50





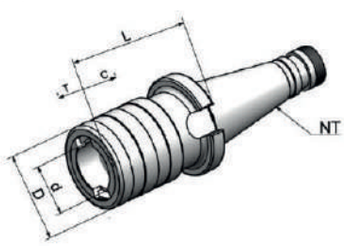
- Llave incluida

Eje Adaptador Pinzas Roscado – DIN 2080 AD 6.3 - 15.000 Rpm

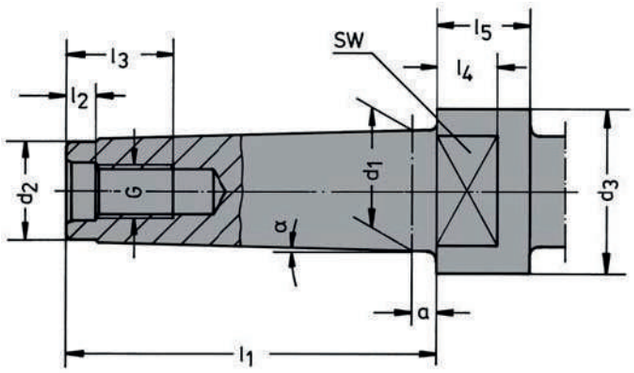
• Eje Adaptador Pinzas de Roscado con Sistema de Embrague. Disponible para la Serie 1 (19 mm), Serie 2 (…) y Serie 3 (…)

Referencia	ISO	Capacidad	Serie	A	D
S16.301.12	ISO 30	M3-M14	1	55	38
S16.301.20	ISO 30	M5-M22	2	86	48
S16.401.12	ISO 40	M3-M14	1	55	58
S16.401.20	ISO 40	M5-M22	2	86	78
S16.401.36	ISO 40	M14-M36	3	132	55
S16.501.12	ISO 50	M3-M14	1	62	48
S16.501.20	ISO 50	M5-M22	2	90	58
S16.501.36	ISO 50	M14-M36	3	117	78





DIN 228



Dimensiones Generales de Amarre

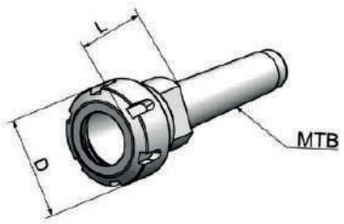
SK	Grados	G	A	D1	D2 Max	D3	SW	L1	L2	L3	L4	L5
1	1º25´43”	M-6	3.5	12.065	9	-	-	-	4	16	-	-
2	1º25´50”	M-10	5	17.780	14	-	-	-	5	24	-	-
3	1º26´16”	M-12	5	23.825	19	36	24	86	5.5	24	12	18
4	1º29´15”	M-16	6.5	31.267	25	43	32	109	8.2	32	15	23
5	1º30´26”	M-20	6.5	44.399	35.7	60	45	136	10	40	18	28
6	1º29´36”	M-24	8	63.348	51	84	65	190	11.5	47	25	39

Portapinzas Tipo Cono Morse – DIN 228 - 1A

Referencia	CM	Capacidad	L	D
S02.108.01	2	1.10 – ER16	45	32
S02.108.01.1	2	2.16 – ER25	50	42
S02.108.02	3	2.16 – ER25	56	42
S02.108.03	3	2.20 – ER32	70	50
S02.108.03.1	3	3.26 – ER40	80	63
S02.108.04	4	2.16 – ER25	63	42
S02.108.05	4	2.20 – ER32	65	50
S02.108.05.1	4	3.26 – ER40	96	78
S02.108.06	5	3.26 – ER40	86	63
S02.108.06.1	5	6.36 – ER50	91	78

- Llave no incluida

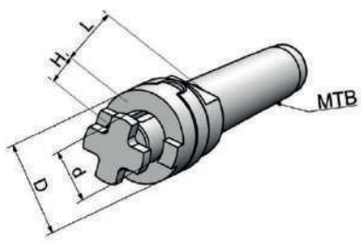




Eje Portafresas Tipo Cono Morse – DIN 228 - 1A

Referencia	CM	d	L	H	D
S10.108.20	2	16	43	17	32
S10.108.21	2	22	43	19	40
S10.108.30	3	16	48	17	32
S10.108.31	3	22	48	19	40
S10.108.32	3	27	48	21	48
S10.108.33	3	32	48	24	58
S10.108.40	4	16	55	17	32
S10.108.41	4	22	55	19	40
S10.108.42	4	27	55	21	48
S10.108.43	4	32	55	24	58
S10.108.50	5	16	75	17	32
S10.108.51	5	22	75	19	40
S10.108.52	5	27	75	21	48
S10.108.53	5	32	75	24	58





Portabrocas Cono Morse – DIN 228 - 1B

Referencia	CM	Campo de Amarre
S16.CM2	2	1-16
S16.CM3	3	1-16
S16.CM4	4	1-16

- Llave no incluida



Eje de Amarre DIN – DIN 228 - 1B

Referencia	CM	Amarre	L
S14.106.00	1	B.10	92
S14.106.01	1	B.12	102
S14.106.02	2	B.12	102
S14.107.02	2	B.16	112
S14.107.03	3	B.16	134
S14.107.03.2	3	B.18	140
S14.107.04	4	B.16	158
S14.107.04.2	4	B.18	166
S14.107.05	5	B.18	193



Casquillo Reductor Cono Morse DIN 2185 – DIN 228 - 1B

Referencia	CM Exterior	CM Interior	L
S07.107.21	2	1	92
S07.107.31	3	1	96
S07.107.32	3	2	98
S07.107.42	4	2	124
S07.107.43	4	3	132
S07.107.53	5	3	156
S07.107.54	5	4	171
S07.107.64	6	4	218
S07.107.65	6	5	218

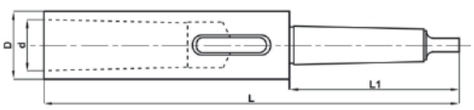


Casquillo Adaptador Cono Morse

Referencia	Ø Exterior	Cono Morse	Longitud
S09.CM321	32	1	85
S09.CM322	32	2	85
S09.CM323	32	3	85
S09.CM401	40	1	90
S09.CM402	40	2	90
S09.CM403	40	3	90
S09.CM404	40	4	115







Casquillo Alargador Cono Morse

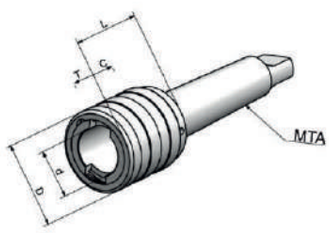
• Totalmente rectificado interior/exterior. Según Din 218.

Referencia	CM Interior	CM Exterior	D	d	L	L1
S08.04	2	3	32	23.825	196	80
S08.05	3	2	24	17.780	195	100
S08.06	3	3	32	23.825	215	100
S08.07	3	4	45	31.267	240	100
S08.08	4	3	32	23.825	240	125
S08.09	4	4	45	31.267	264	125
S08.10	4	5	63	44.399	300	125
S08.11	5	4	45	31.267	300	156
S08.12	5	5	63	44.399	335	156

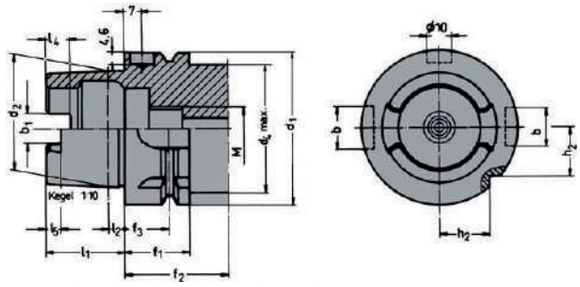
Eje Adaptador Pinzas de Roscado DIN 228 – 1B

Referencia	CM	Capacidad	Serie	L
S16.107.212	2	M3 – M14	1	46
S16.107.320	3	M5 – M22	2	70
S16.107.410	4	M3 – M14	1	85
S16.107.420	4	M5 – M22	2	85
S16.107.430	4	M14 – M36	3	85
S16.107.450	5	M14 – M36	3	103





DIN 69893 – HSK



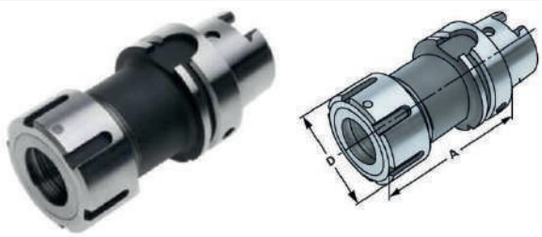
Dimensiones Generales de Amarre - Forma A

D1	D2	D4	L1	L2	L4	L5	M	F1	F2	F3	B1	B2	B3
32	24	26	16	3.2	5.0	3.0	M10X1	20	35	16	7.05	7	9
40	30	34	20	4.0	6.0	3.5	M12X1	26	35	16	8.05	9	11
50	38	42	25	5.0	7.5	4.5	M16X1	26	42	18	10.54	12	14
63	48	53	32	6.3	10.0	6.0	M18X1	26	42	18	12.54	16	18
80	60	67	40	8.0	12.0	8.0	M20X1.5	26	42	18	16.04	18	20
100	75	85	50	10.0	15.0	10.0	M24X1.5	29	45	20	20.02	22	20

HSK - Forma A - Porta-Pinzas OZ - G6.3 - 15.000 Rpm

Referencia	HSK	Capacidad	A	D
S01.A63.16	A-63	2-16 (OZ16)	100	43
S01.A63.25	A-63	2-25 (OZ25)	100	60
S01.A63.32	A-63	3-32 (OZ32)	120	72
S01.A100.16	A-100	2-16 (OZ16)	110	43
S01.A100.25	A-100	2-25 (OZ25)	120	60
S01.A100.32	A-100	3-32 (OZ32)	130	72

- Llave no incluida

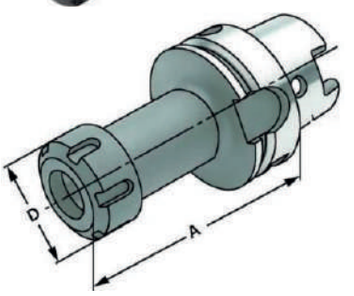


HSK - Forma A - Porta-Pinzas ER - G6.3 - 15.000 Rpm

Referencia	HSK	Capacidad	A	D
S02.A63.10	A-63	1-10 (ER11)	63	32
S02.A63.10	A-63	1-10 (ER16)	100	32
S02.A63.16	A-63	2-16 (ER25)	100	42
S02.A63.20	A-63	2-20 (ER32)	100	50
S02.A63.26	A-63	3-26 (ER40	120	63
S02.A63.10.1	A-63	1-10 (ER16)	160	32
S02.A63.16.1	A-63	2-16 (ER25)	160	42
S02.A63.20.1	A-63	2-20 (ER32)	160	50
S02.A63.26.1	A-63	3-26 (ER40)	160	63
S02.A63.10.2	A-63	1-10 (ER16)	200	32
S02.A63.16.2	A-63	2-16 (ER25)	200	42
S02.A63.20.2	A-63	2-20 (ER32)	200	50
S02.A100.16	A-100	2-16 (ER25)	100	42
S02.A100.20	A-100	2-20 (ER32)	100	50
S02.A100.26	A-100	3-26 (ER40)	120	63
S02.A100.16.2	A-100	2-16 (ER25)	160	42
S02.A100.20.2	A-100	2-20 (ER32)	160	50
S02.A100.26.2	A-100	3-26 (ER40)	160	63
S02.A100.16.3	A-100	2-16 (ER25)	200	42
S02.A100.20.3	A-100	2-20 (ER32)	200	50
S02.A100.26.3	A-100	3-26 (ER40)	200	63

- Llave no incluida





HSK - Forma A - Porta-Pinzas Gran Apriete HKS - G6.3 - 15.000 Rpm

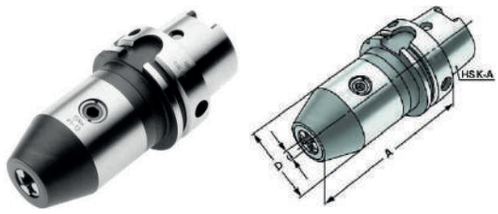
Referencia	HSK	Capacidad	A	D
S64.A63.20	A-63	20 (HKS20	95	53
S64.A63.32	A-63	32 (HKS32)	110	68
S64.A100.20	A-100	20 (HKS20	105	53
S64.A100.32	A-100	32 (HKS32)	105	68

- Llave no incluida



HSK - Forma A - Portabrocas CNC - G6.3 - 15.000 Rpm

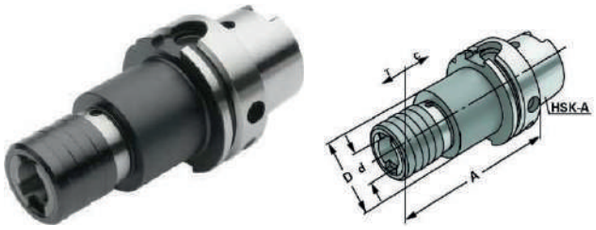
Referencia	HSK	Capacidad	A	D
S15.A63.08	A-63	0.5/8	85	36
S15.A63.13	A-63	1-13	104	50
S15.A63.16	A-63	2.5-16	109	50
S15.A100.13	A-100	1-13	107	50
S15.A100.16	A-100	2.5-16	112	50



- Llave incluida

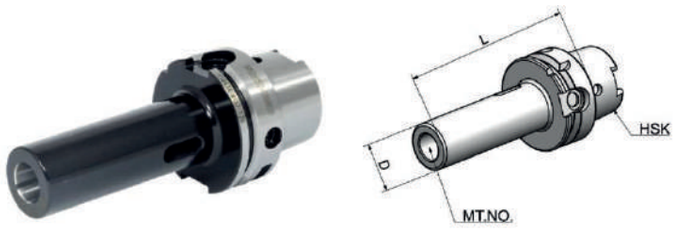
HSK - Forma A - Eje Adaptador Pinza de Roscado con Embrague - G6.3 - 15.000 Rpm

Referencia	HSK	Capacidad	A	D	d
S16.A63.12	A-63	M3 – M14 (1)	102	38	19
S16.A63.20	A-63	M5 – M22 (2)	140	54	31
S16.A63.36	A-63	M14 – M36 (3)	141	86	48
S16.A100.12	A-100	M3 – M14 (1)	112	38	19
S16.A100.20	A-100	M5 – M22 (2)	148	54	31
S16.A100.36	A-100	M14 – M36 (3)	144	86	48



HSK - Forma A - Eje Reductor Cono Morse DIN 6383 - G6.3 - 15.000 Rpm

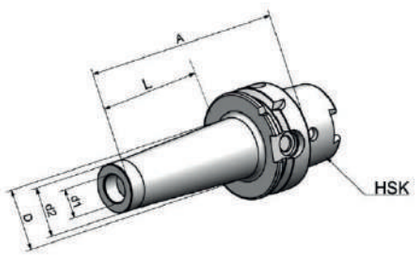
Referencia	HSK	MK	L	D
S07.A63.01	A-63	1	100	25
S07.A63.02	A-63	2	120	32
S07.A63.03	A-63	3	140	40
S07.A63.04	A-63	4	160	48
S07.A100.01	A-100	1	110	25
S07.A100.02	A-100	2	120	32
S07.A100.03	A-100	3	150	40
S07.A100.04	A-100	4	170	48
S07.A100.05	A-100	5	200	63



HSK - Forma A - Eje Portafresas Roscado – HSK - A63 - G6.3 - 15.000 Rpm

Referencia	HSK	Metrica	d1	d2	A	L	D
S19.A63.M8	A-63	M-8	8.5	14.5	51	25	15
S19.A63.M8.1	A-63	M-8	8.5	14.5	76	50	23
S19.A63.M8.3	A-63	M-8	8.5	14.5	101	75	23
S19.A63.M10	A-63	M-10	10.5	18	51	25	20
S19.A63.M10.1	A-63	M-10	10.5	18	76	50	23
S19.A63.M10.2	A-63	M-10	10.5	18	126	100	32
S19.A63.M10.3	A-63	M-10	10.5	18	176	150	36.5
S19.A63.12	A-63	M-12	12.5	21	51	25	24
S19.A63.M12.1	A-63	M-12	12.5	21	76	50	34
S19.A63.M12.2	A-63	M-12	12.5	21	101	75	31
S19.A63.M12.3	A-63	M-12	12.5	21	126	100	33
S19.A63.M12.4	A-63	M-12	12.5	21	176	150	40
S19.A63.M16	A-63	M-16	17	29	51	25	29
S19.A63.M16.1	A-63	M-16	17	29	76	50	34
S19.A63.M16.2	A-63	M-16	17	29	101	75	34
S19.A63.M16.3	A-63	M-16	17	29	126	100	36
S19.A63.M16.4	A-63	M-16	17	29	176	150	42.5
S19.A100.M8	A-100	M-8	8.5	14.5	49	50	23
S19.A100.M10	A-100	M-10	10.5	18	79	50	23
S19.A100.M10.1	A-100	M-10	10.5	18	129	100	32
S19.A100.M10.2	A-100	M-10	10.5	18	179	150	36.5
S19.A100.M12	A-100	M-12	12.5	21	79	50	24
S19.A100.M12.1	A-100	M-12	12.5	21	129	100	33
S19.A100.M12.2	A-100	M-12	12.5	21	179	150	40
S19.A100.M16	A-100	M-16	17	29	79	50	34
S19.A100.M16.1	A-100	M-16	17	29	129	100	36
S19.A100.M16.2	A-100	M-16	17	29	179	150	42.5

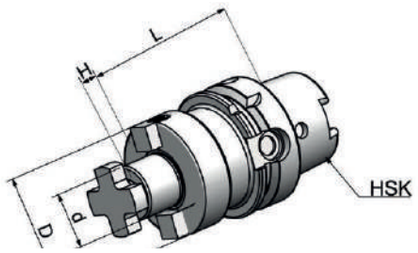




HSK - Forma A - Eje Portafresas DIN 6357 - G6.3 - 15.000 Rpm

Referencia	HSK	Capacidad	L	H	D
S11.A63.16	A-63	16	65	17	38
S11.A63.22	A-63	22	65	19	48
S11.A63.27	A-63	27	65	21	58
S11.A63.32	A-63	32	80	24	78
S11.A63.40	A-63	40	80	27	88
S11.A63.16.1	A-63	16	80	17	38
S11.A63.22.1	A-63	22	80	19	48
S11.A63.27.1	A-63	27	80	21	58
S11.A63.32.1	A-63	32	110	24	78
S11.A63.40.1	A-63	40	110	27	88
S11.A63.16.2	A-63	16	125	17	38
S11.A63.22.2	A-63	22	100	19	48
S11.A63.27.2	A-63	27	100	21	58
S11.A63.32.2	A-63	32	100	24	78
S11.A63.40.2	A-63	40	100	27	88
S11.A100.22	A-100	22	100	19	48
S11.A100.27	A-100	27	100	21	58
S11.A100.32	A-100	32	100	24	78
S11.A100.40	A-100	40	100	27	88
S11.A100.60	A-100	60	160	40	130
S11.A100.22.1	A-100	22	160	19	48
S11.A100.27.1	A-100	27	160	21	58
S11.A100.32.1	A-100	32	160	24	78
S11.A100.40.1	A-100	40	160	27	88



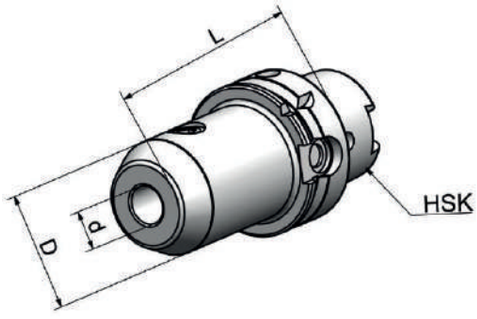


HSK - Forma A - Porta Mango Weldon DIN 1835-B - G6.3 - 15.000 Rpm

Referencia	HFK	Capacidad	A	D
S04.A63.06	A-63	6	65	28
S04.A63.08	A-63	8	65	28
S04.A63.10	A-63	10	65	35
S04.A63.12	A-63	12	80	42
S04.A63.14	A-63	14	80	44
S04.A63.16	A-63	16	80	48
S04.A63.18	A-63	18	80	50
S04.A63.20	A-63	20	80	52
S04.A63.25	A-63	25	110	65
S04.A63.32	A-63	32	110	72
S04.A63.40	A-63	40	125	80
S04.A63.06.1	A-63	6	100	25
S04.A63.08.1	A-63	8	100	38
S04.A63.10.1	A-63	10	100	35
S04.A63.12.1	A-63	12	100	35
S04.A63.14.1	A-63	14	100	44
S04.A63.16.1	A-63	16	100	48
S04.A63.18.1	A-63	18	100	50
S04.A63.20.1	A-63	20	100	52
S04.A63.06.2	A-63	6	160	25
S04.A63.08.2	A-63	8	160	28
S04.A63.10.2	A-63	10	160	35
S04.A63.12.2	A-63	12	160	35
S04.A63.14.2	A-63	14	160	44
S04.A63.16.2	A-63	16	160	48
S04.A63.18.2	A-63	18	160	50
S04.A63.20.2	A-63	20	160	52

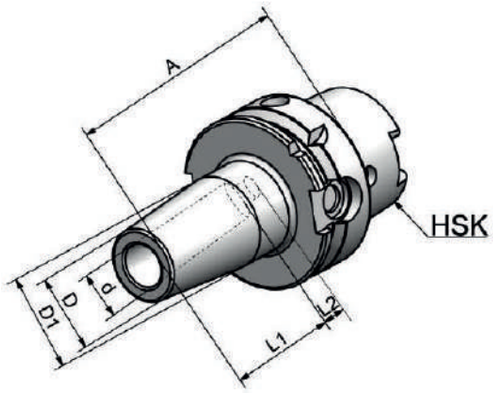
Referencia	HFK	Capacidad	A	D
S04.A100.06	A-100	6	80	25
S04.A100.08	A-100	8	80	28
S04.A100.10	A-100	10	80	35
S04.A100.12	A-100	12	80	42
S04.A100.14	A-100	14	80	44
S04.A100.16	A-100	16	100	48
S04.A100.18	A-100	18	100	50
S04.A100.20	A-100	20	100	52
S04.A100.25	A-100	25	100	65
S04.A100.32	A-100	32	100	72
S04.A100.40	A-100	40	105	80





HSK - Forma A - Porta Térmicos DIN 1835 - B – G2.5 – 25.000 Rpm





Referencia	HSK	d	A	D	D1
S046.A63.03	A-63	3	80	11	15
S046.A63.04	A-63	4	80	14	22
S046.A63.05	A-63	5	80	16	22
S046.A63.06	A-63	6	80	21	27
S046.A63.08	A-63	8	80	21	27
S046.A63.10	A-63	10	85	24	32
S046.A63.12	A-63	12	90	24	32
S046.A63.14	A-63	14	90	27	34
S046.A63.16	A-63	16	95	27	34
S046.A63.18	A-63	18	95	33	42
S046.A63.20	A-63	20	100	33	42
S046.A63.25	A-63	25	115	44	53
S046.A63.32	A-63	32	120	44	53
S046.A63.03.1	A-63	3	120	11	15
S046.A63.04.1	A-63	4	120	14	22
S046.A63.05.1	A-63	5	120	16	22
S046.A63.06.1	A-63	6	120	21	27
S046.A63.08.1	A-63	8	120	21	27
S046.A63.10.1	A-63	10	120	24	32
S046.A63.12.1	A-63	12	120	24	32
S046.A63.14.1	A-63	14	120	27	34
S046.A63.16.1	A-63	16	120	27	34
S046.A63.18.1	A-63	18	120	33	42
S046.A63.20.1	A-63	20	120	33	42
S046.A63.25.1	A-63	25	120	44	53

Referencia	HSK	d	A	D	D1
S046.A100.04	A-100	4	85	14	22
S046.A100.05	A-100	5	85	16	22
S046.A100.06	A-100	6	85	21	27
S046.A100.08	A-100	8	85	21	27
S046.A100.10	A-100	10	90	24	32
S046.A100.12	A-100	12	95	24	32
S046.A100.14	A-100	14	95	27	34
S046.A100.16	A-100	16	100	27	34
S046.A100.18	A-100	18	100	33	42
S046.A100.20	A-100	20	105	33	42
S046.A100.25	A-100	25	120	44	53
S046.A100.32	A-100	32	120	44	53
S046.A100.40	A-100	40	150	78	90
S046.A100.50	A-100	50	150	78	90
S046.A100.06.1	A-100	6	120	21	27
S046.A100.08.1	A-100	8	120	21	27
S046.A100.10.1	A-100	10	120	24	32
S046.A100.12.1	A-100	12	120	24	32
S046.A100.14.1	A-100	14	120	27	34
S046.A100.16.1	A-100	16	120	27	34
S046.A100.18.1	A-100	18	120	33	42
S046.A100.20.1	A-100	20	120	33	42

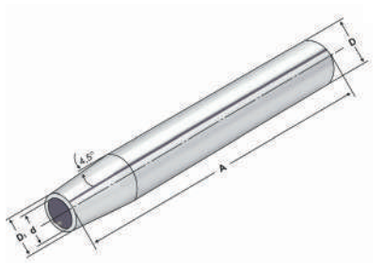
Alargador Térmico 4.5º - Para Portaherramientas Térmicos

- Tipo AD y precisión de 0.003
- Modelos de medida 6-8-10-12 con tope de herramienta interior

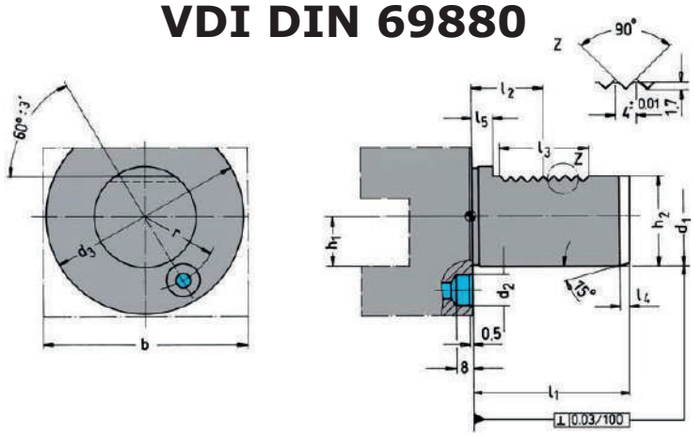
Válido paa herramientas de metal duro

Referencia	D	d	D1	A	l1	l2
S07.107.03	20	3	10	150	15	5
S07.107.04	20	4	10	150	20	5
S07.107.05	20	5	10	150	20	5
S07.107.06	20	6	10	150	36	10
S07.107.08	20	8	12	150	36	10
S07.107.10	20	10	14	150	42	10
S07.107.12	20	12	16	150	47	10





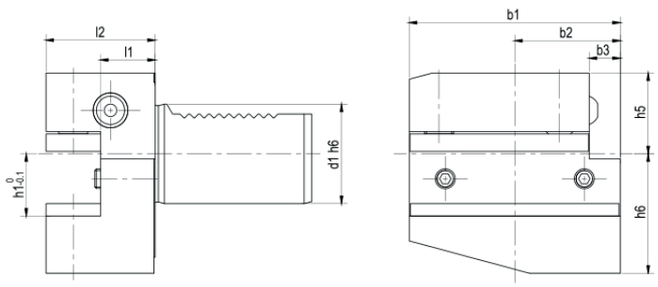
VDI DIN 69880



D1/h6	B	H1	D2	D3	H2	R	H	L2	L3	L4	L5
16	42	12	8	40	15.0	14.5	32	12.7	16	2	3.8
20	52	16	10	50	18.0	18.0	40	21.7	24	2	7.0
25	60	16	10	58	23.5	21.0	48	21.7	24	2	7.0
30	70	20	14	68	27.0	25.0	55	29.7	40	2	7.0
40	85	25	14	83	36.0	32.0	63	29.7	40	3	7.0
50	100	32	16	98	45.0	37.0	78	35.7	48	3	8.0

Portaherramientas VDI - B1 Derecha

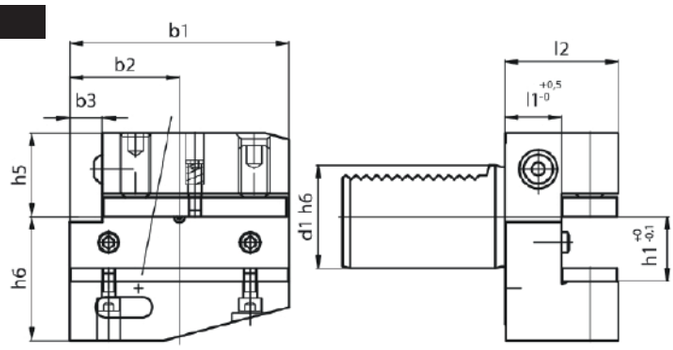




Referencia	Dimensiones	D1	d1	b1	b2	b3	h1	h5	h6	l1	l2
S31.169.12	Ø 16 – 16x12x24	16	16	42	23	5	12	20	22	13	24
S31.209.16	Ø 20 – 20x16x30	20	20	55	30	7	16/12	25	30	16	30
S31.309.20	Ø 30 – 30x20x40	30	30	70	35	10	20/16	28	38	22	40
S31.409.25	Ø 40 – 40x25x44	40	40	85	42.5	12.5	25/20	32.5	48	22	44
S31.509.32	Ø 50 – 50x32x55	50	50	100	50	16	32/25	35	60	30	55

Portaherramientas VDI – B2 Izquierda

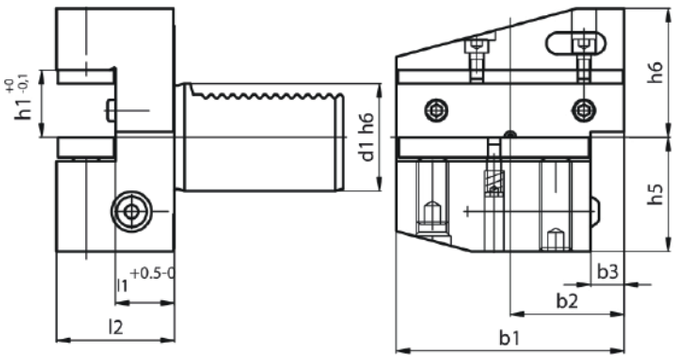




Referencia	Dimensiones	D1	d1	b1	b2	b3	h1	h5	h6	l1	l2
S32.169.12	Ø 16 – 16x12x24	16	16	42	23	5	12	20	22	13	24
S32.209.16	Ø 20 – 20x16x30	20	20	55	30	7	16/12	25	30	16	30
S32.309.20	Ø 30 – 30x20x40	30	30	70	35	10	20/16	28	38	22	40
S32.409.25	Ø 40 – 40x25x44	40	40	85	42.5	12.5	25/20	32.5	48	22	44
S32.509.32	Ø 50 – 50x32x55	50	50	100	50	16	32/25	35	60	30	55

Portaherramientas VDI - B3 Derecha

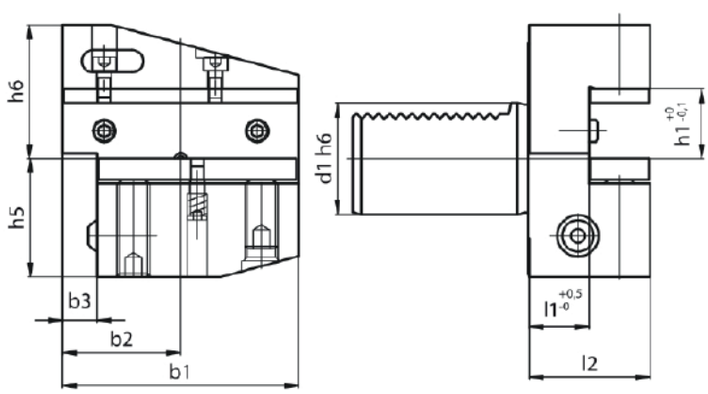




Referencia	Dimensiones	D1	d1	b1	b2	b3	h1	h5	h6	l1	l2
S33.169.12	Ø 16 – 16x12x24	16	16	42	23	5	12	20	22	13	24
S33.209.16	Ø 20 – 20x16x30	20	20	55	30	7	16/12	25	30	16	30
S33.309.20	Ø 30 – 30x20x40	30	30	70	35	10	20/16	28	38	22	40
S33.409.25	Ø 40 – 40x25x44	40	40	85	42.5	12.5	25/20	32.5	48	22	44
S33.509.32	Ø 50 – 50x32x55	50	50	100	50	16	32/25	35	60	30	55

Portaherramientas VDI – B4 Izquierda

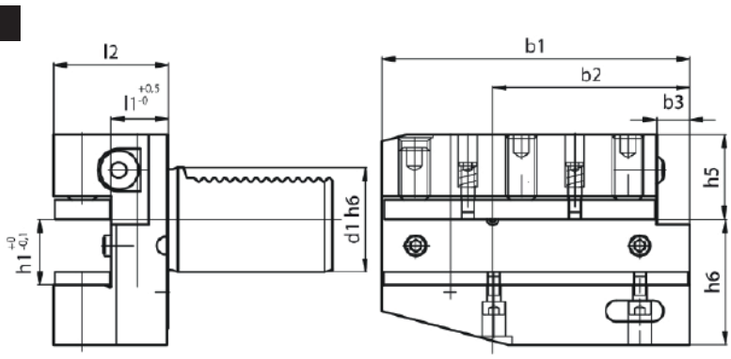




Referencia	Dimensiones	D1	d1	b1	b2	b3	h1	h5	h6	l1	l2
S34.169.12	Ø 16 – 16x12x24	16	16	42	23	5	12	20	22	13	24
S34.209.16	Ø 20 – 20x16x30	20	20	55	30	7	16/12	25	30	16	30
S34.309.20	Ø 30 – 30x20x40	30	30	70	35	10	20/16	28	38	22	40
S34.409.25	Ø 40 – 40x25x44	40	40	85	42.5	12.5	25/20	32.5	48	22	44
S34.509.32	Ø 50 – 50x32x55	50	50	100	50	16	32/25	35	60	30	55

Portaherramientas VDI – B5 Derecha

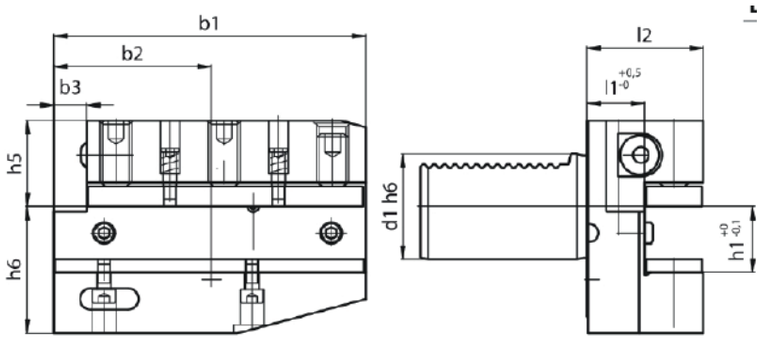




Referencia	Dimensiones	d1	b1	b2	b3	h1	h5	h6	l1	l2
S35.169.12	Ø 16 – 16x12x24	16	58	39	5	12	20	22	23	34
S35.209.16	Ø 20 – 20x16x30	20	75	50	7	16/12	25	30	16	30
S35.309.20	Ø 30 – 30x20x40	30	100	65	10	20/16	28	38	22	40
S35.409.25	Ø 40 – 40x25x44	40	118	75.5	12.5	25/20	32.5	48	22	44
S35.509.32	Ø 50 – 50x32x55	50	130	80	16	32/25	35	60	30	55

Portaherramientas VDI – B6 Izquierda

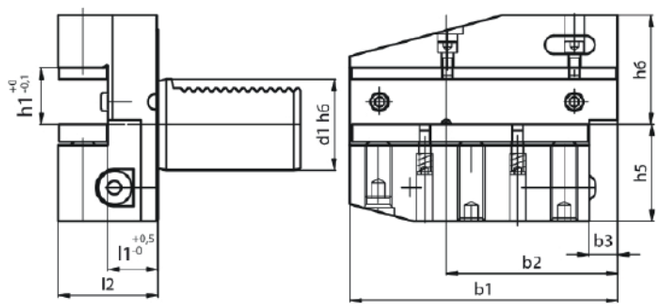




Referencia	Dimensiones	d1	b1	b2	b3	h1	h5	h6	l1	l2
S36.169.12	Ø 16 – 16x12x24	16	58	39	5	12	20	22	23	34
S36.209.16	Ø 20 – 20x16x30	20	75	50	7	16/12	25	30	16	30
S36.309.20	Ø 30 – 30x20x40	30	100	65	10	20/16	28	38	22	40
S36.409.25	Ø 40 – 40x25x44	40	118	75.5	12.5	25/20	32.5	48	22	44
S36.509.32	Ø 50 – 50x32x55	50	130	80	16	32/25	35	60	30	55

Portaherramientas VDI – B7 Derecha

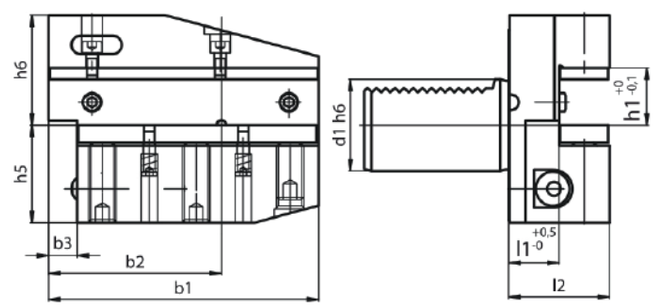




Referencia	Dimensiones	d1	b1	b2	b3	h1	h5	h6	l1	l2
S37.169.12	Ø 16 – 16x12x24	16	58	39	5	12	20	22	23	34
S37.209.16	Ø 20 – 20x16x30	20	75	50	7	16/12	25	30	16	30
S37.309.20	Ø 30 – 30x20x40	30	100	65	10	20/16	28	38	22	40
S37.409.25	Ø 40 – 40x25x44	40	118	75.5	12.5	25/20	32.5	48	22	44
S37.509.32	Ø 50 – 50x32x55	50	130	80	16	32/25	35	60	30	55

Portaherramientas VDI – B8 Izquierda

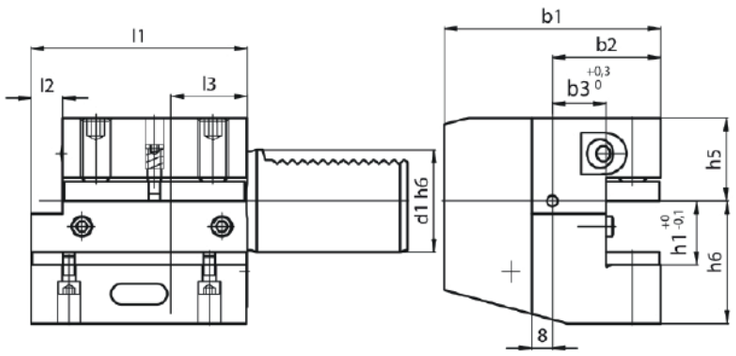




Referencia	Dimensiones	d1	b1	b2	b3	h1	h5	h6	l1	l2
S38.169.12	Ø 16 – 16x12x24	16	58	39	5	12	20	22	23	34
S38.209.16	Ø 20 – 20x16x30	20	75	50	7	16/12	25	30	16	30
S38.309.20	Ø 30 – 30x20x40	30	100	65	10	20/16	28	38	22	40
S38.409.25	Ø 40 – 40x25x44	40	118	75.5	12.5	25/20	32.5	48	22	44
S38.509.32	Ø 50 – 50x32x55	50	130	80	16	32/25	35	60	30	55

Portaherramientas VDI – C1 Derecha

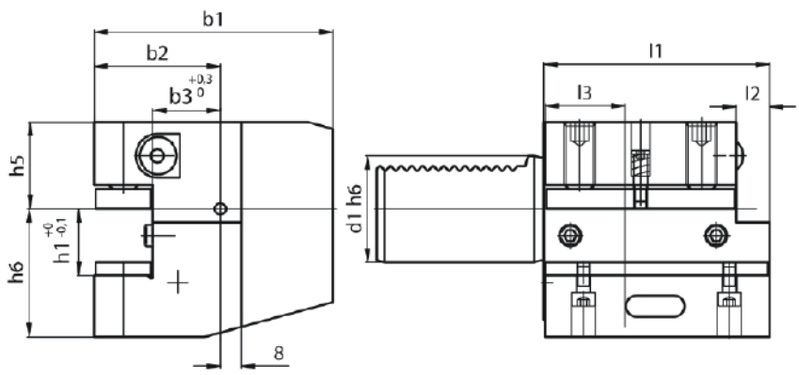




Referencia	Dimensiones	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
S41.169.12	Ø 16 – 16x12	16	43	24	13	12	20	22	44	5	20
S41.209.16	Ø 20 – 20x16	20	65	40	26	16/12	25	30	50	-	30
S41.309.20	Ø 30 – 30x20	30	40	35	17	20/16	28	38	40	10	30
S41.409.25	Ø 40 – 40x25	40	85	42.5	21	25/20	32.5	48	85	12.5	30
S41.509.32	Ø 50 – 50x32	50	100	50	26	32/25	35	60	100	16	40

Portaherramientas VDI – C2 Izquierda

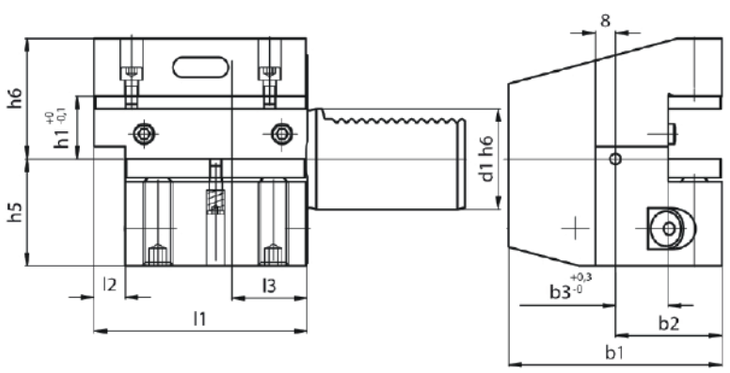




Referencia	Dimensiones	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
S42.169.12	Ø 16 – 16x12	16	43	24	13	12	20	22	44	5	20
S42.209.16	Ø 20 – 20x16	20	65	40	26	16/12	25	30	50	-	30
S42.309.20	Ø 30 – 30x20	30	76	41	23	20/16	28	38	70	10	30
S42.409.25	Ø 40 – 40x25	40	90	47.5	25.5	25/20	32.5	48	85	12.5	30
S42.509.32	Ø 50 – 50x32	50	105	55	30.5	32/25	35	60	100	16	40

Portaherramientas VDI – C3 Derecha

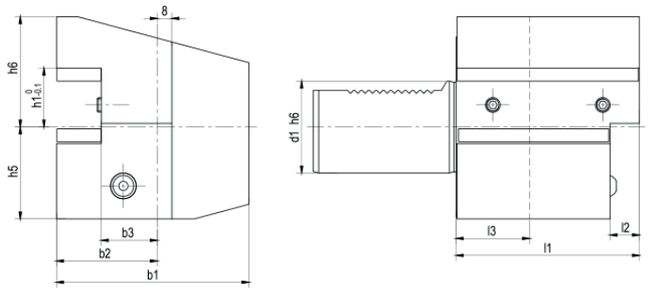




Referencia	Dimensiones	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
S43.169.12	Ø 16 – 16x12	16	43	24	13	12	20	22	44	5	20
S43.209.16	Ø 20 – 20x16	20	65	40	26	16/12	25	30	50	-	30
S43.309.20	Ø 30 – 30x20	30	76	41	23	20/16	28	38	70	10	30
S43.409.25	Ø 40 – 40x25	40	90	47.5	25.5	25/20	32.5	48	85	12.5	30
S43.509.32	Ø 50 – 50x32	50	105	55	30.5	32/25	35	60	100	16	40

Portaherramientas VDI – C4 Izquierda

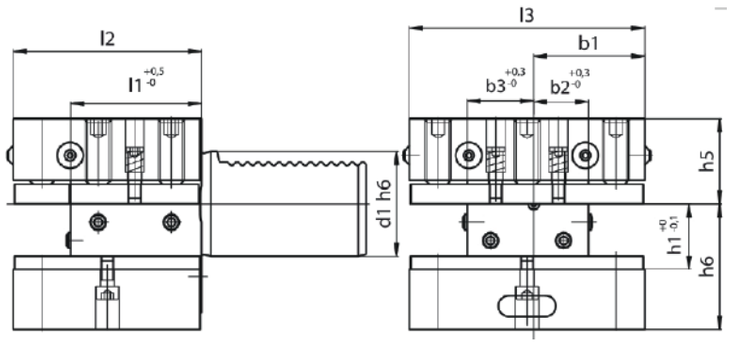




Referencia	Dimensiones	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
S44.169.12	Ø 16 – 16x12x24	16	43	24	13	12	20	22	44	5	20
S44.209.16	Ø 20 – 20x16x30	20	65	40	26	16/12	25	30	50	-	30
S44.309.20	Ø 30 – 30x20x40	30	76	41	23	20/16	28	38	70	10	30
S44.409.25	Ø 40 – 40x25x44	40	90	47.5	25.5	25/20	32.5	48	85	12.5	30
S44.509.32	Ø 50 – 50x32x55	50	105	55	30.5	32/25	35	60	100	16	40

Portaherramientas VDI – D1

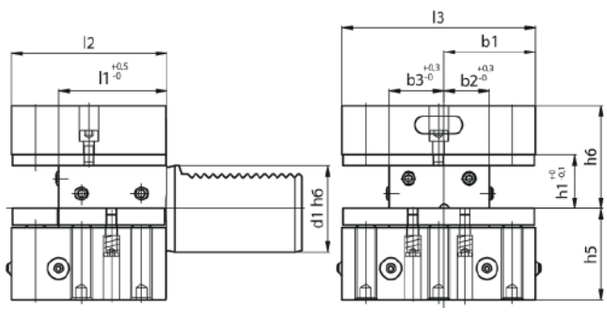




Referencia	Dimensiones	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
S89.309.12	Ø 30 – 30x20x76	30	35	17	23	20/16	28	28	42	60	76
S89.409.16	Ø 40 – 40x25x90	40	42.5	21	25.5	25/20	32.5	48	50	72	90
S89.509.20	Ø 50 – 50x32x105	50	50	26	30.5	32/25	35	60	60	85	105

Portaherramientas VDI – D2



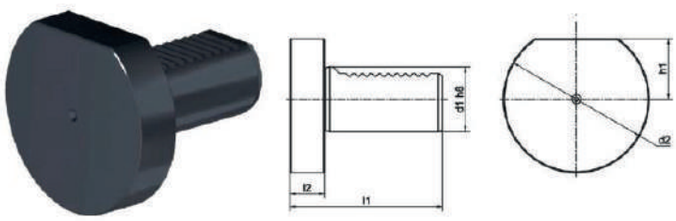


Referencia	Dimensiones	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
S90.309.12	Ø 30 – 30x20x76	30	35	17	23	20/16	28	28	42	60	76
S90.409.16	Ø 40 – 40x25x90	40	42.5	21	25.5	25/20	32.5	48	50	72	90
S90.509.20	Ø 50 – 50x32x105	50	50	26	30.5	32/25	35	60	60	85	105

Tapa Protección VDI – Z2

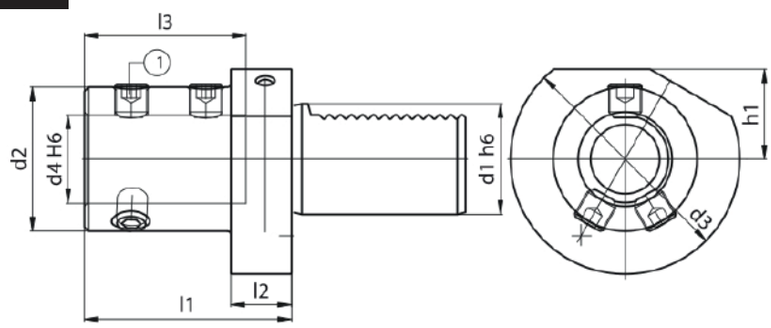
Tapa de Protección para el cierre del portaherramientas cuando no se usa.
Protección de plástico.

Referencia	Dimensiones	d1	d2	h1	l1	l2
S30.169.13	16 X 13	16	40	18	45	13
S30.209.16	20 x 16	20	50	23	56	16
S30.309.20	30 x 16	30	68	28	71	16
S30.409.20	40 x 20	40	83	32.5	83	20
S30.509.20	50 x 30	50	98	35	98	20



Portaherramientas VDI – E1

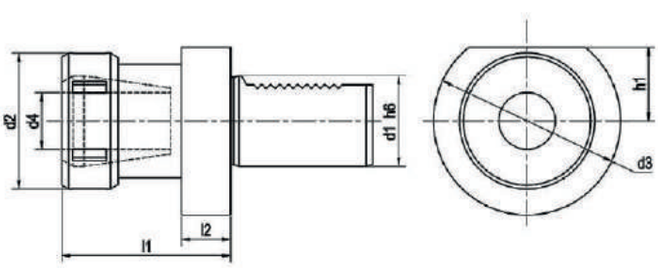




Referencia	Dimensiones	d1	d2	d3	d4	h1	l1	l2	l3
S51.209.16	E1 – 20 X 16	20	36	50	16	-	66	18	54
S51.209.20	E1 – 20 X 20	20	40	50	20	-	67	18	54
S51.209.25	E1 – 20 X 25	20	45	50	25	-	71	18	58
S51.309.16	E1 – 30 X 16	30	36	68	16	28	66	22	54
S51.309.20	E1 – 30 X 20	30	40	68	20	28	67	22	54
S51.309.25	E1 – 30 X 25	30	45	68	25	28	71	22	58
S51.309.32	E1 – 30 X 32	30	52	68	32	28	75	22	61
S51.309.40	E1 – 30 X 40	30	65	68	40	28	90	22	72
S51.409.16	E1 – 40 X 16	40	36	83	16	32.5	66	22	54
S51.409.20	E1 – 40 X 20	40	40	83	20	32.5	67	22	54
S51.409.25	E1 – 40 X 25	40	45	83	25	32.5	75	22	59
S51.409.32	E1 – 40 X 32	40	52	83	32	32.5	75	22	61
S51.409.40	E1 – 40 X 40	40	65	86	40	32.5	90	22	73
S51.509.16	E1 – 50 X 16	50	36	98	16	35	67	30	54
S51.509.20	E1 – 50 X 20	50	40	98	20	35	67	30	54
S51.509.25	E1 – 50 X 25	50	45	98	25	35	80	30	59
S51.509.32	E1 – 50 X 32	50	52	98	32	35	80	30	63
S51.509.40	E1 – 50 X 40	50	65	98	40	35	90	30	73
S51.509.50	E1 – 50 X 50	50	75	98	50	35	100	30	83

Portaherramientas VDI – E3 Pinzas OZ



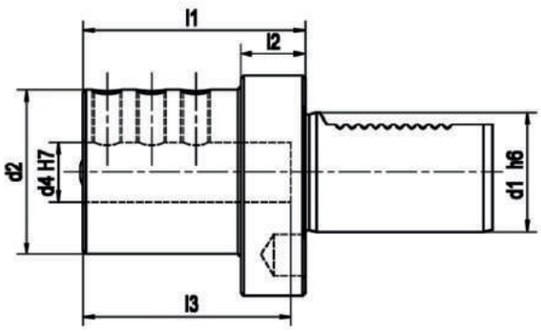


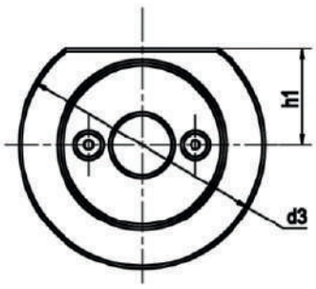
Referencia	Dimensiones	Capacidad (d4)	d1	d2	d3	h1	l1	l2
S01.169.16	E3 – 16 x 2 – 16	OZ16 – 2.16	16	43	40	-	65	13
S01.209.16	E3 – 20 x 2 – 16	OZ16 – 2.16	20	43	50	-	57	18
S01.309.16	E3 – 30 x 2 - 16	OZ16 – 2.16	30	43	68	28	57	22
S01.309.25	E3 – 30 x 2 – 25	OZ25 – 2.25	30	60	68	28	75	22
S01.409.25	E3 – 40 x 2 – 25	OZ25 – 2.25	40	60	83	32.5	75	22
S01.409.32	E3 – 40 x 3 – 32	OZ32 – 3.32	40	72	83	32.5	90	22
S01.509.25	E3 – 50 x 2 – 25	OZ25 – 2.25	50	60	98	35	75	30
S01.509.32	E3 – 50 x 3 – 32	OZ32 – 3.32	50	72	98	35	90	30

- Llave no incluida

Portaherramientas VDI – E2







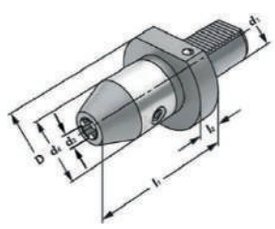
Referencia	Dimensiones	d1	d2	d3	d4	h1	l1	l2	l3
S52.169.06	E2 – 16 X 06	16	32	40	6	18	44	13	34
S52.169.08	E2 – 16 X 08	16	32	40	8	18	44	13	34
S52.169.10	E2 – 16 X 10	16	32	40	10	18	44	13	34
S52.169.12	E2 – 16 X 12	16	40	40	12	18	44	13	34
S52.169.16	E2 – 16 X 16	16	40	40	16	18	44	13	34
S52.209.08	E2 – 20 X 08	20	40	50	8	23	50	18	42
S52.209.10	E2 – 20 X 10	20	40	50	10	23	50	18	42
S52.209.12	E2 – 20 X 12	20	40	50	12	23	50	18	42
S52.209.16	E2 – 20 X 16	20	40	50	16	23	50	18	42
S52.309.08	E2 – 30 X 08	30	55	68	8	32.5	75	22	43
S52.309.10	E2 – 30 X 10	30	55	68	10	32.5	75	22	58
S52.309.12	E2 – 30 X 12	30	55	68	12	32.5	75	22	61
S52.309.16	E2 – 30 X 16	30	55	68	16	32.5	75	22	61
S52.309.20	E2 – 30 X 20	30	55	68	20	32.5	75	22	61
S52.309.25	E2 – 30 X 25	30	55	68	25	32.5	75	22	61
S52.309.32	E2 – 30 X 32	30	67	68	32	32.5	90	22	76
S52.409.08	E2 – 40 X 08	40	55	98	8	32.5	75	22	43
S52.409.10	E2 – 40 X 10	40	55	98	10	32.5	75	22	43
S52.409.12	E2 – 40 X 12	40	55	98	12	32.5	75	22	58
S52.409.16	E2 – 40 X 16	40	55	98	16	32.5	75	22	61
S52.409.20	E2 – 40 X 20	40	55	98	20	32.5	75	22	61
S52.409.25	E2 – 40 X 25	40	55	98	25	32.5	75	22	61
S52.409.32	E2 – 40 X 32	40	82	98	32	32.5	75	22	61
S52.409.40	E2 – 40 X 40	40	82	98	40	32.5	90	22	76
S52.509.12	E2 – 50 X 12	50	68	98	12	35	90	30	71
S52.509.16	E2 – 50 X 16	50	68	98	16	35	90	30	76
S52.509.20	E2 - 50 X 20	50	68	98	20	35	90	30	76
S52.509.25	E2 – 50 X 25	50	68	98	25	35	90	30	76
S52.509.32	E2 – 50 X 32	50	69	98	32	35	90	30	76
S52.509.40	E2 – 50 X 40	50	98	98	40	35	90	-	76
S52.509.50	E2 – 50 X 50	50	98	98	50	35	100	-	86

Portaherramientas VDI – Portabrocas CNC

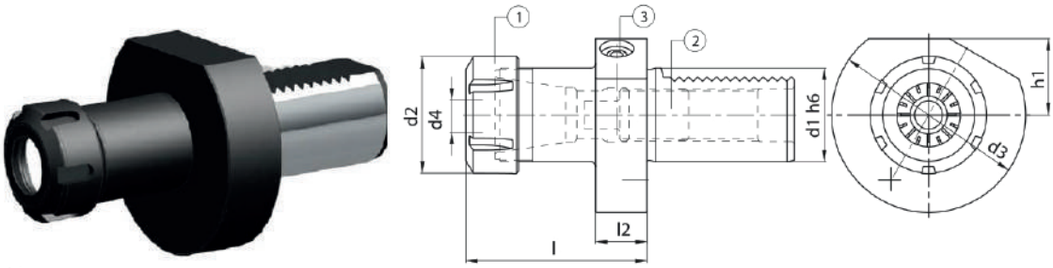
Referencia	d1	d2 - Capacidad	d4	D	l1	l2
S15.209.13	20	1 – 13	50	50	88	18
S15.309.13	30	1 – 13	50	68	93	22
S15.309.16	30	1 – 16	50	68	98	22
S15.409.13	40	1 – 13	50	83	93	22
S15.409.16	40	3 – 16	50	83	98	22
S15.509.13	50	1 – 13	50	98	101	30
S15.509.16	50	3 – 16	50	98	106	30

- Llave incluida





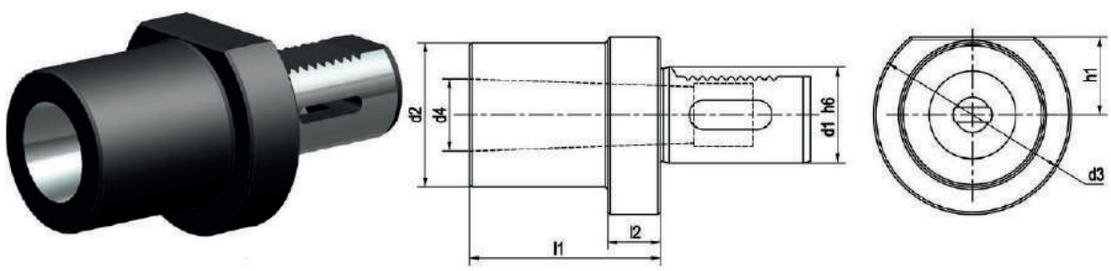
Portaherramientas VDI – E4 Pinzas ER



- Llave no incluida

Referencia	Dimensiones	d1	d4 - Capacidad	d2	d3	h1	l1	l2
S02.169.10	E4 – 16 X 1 – 10	16	ER16 – 1.10	32	40	18	40	13
S02.209.10	E4 – 20 X 1 – 10	20	ER16 – 1.10	32	50	-	40	18
S02.209.16	E4 – 20 X 2 – 16	20	ER25 – 2.16	42	50	-	54	18
S02.309.16	E4 – 30 X 2 – 16	30	ER25 – 2.16	42	68	28	57	22
S02.309.20	E4 – 30 X 2 – 20	30	ER32 – 2.20	50	68	28	62	22
S02.309.26	E4 – 30 X 3 – 26	30	ER40 – 3.26	63	68	28	70	22
S02.409.16	E4 – 40 X 2 – 16	40	ER25 – 2.16	42	83	32.5	70	22
S02.409.20	E4 – 40 X 2 – 20	40	ER32 – 2.20	50	83	32.5	84	22
S02.409.26	E4 – 40 X 3 – 26	40	ER40 – 3.26	63	83	32.5	75	22
S02.509.26	E4 – 50 X 3 – 26	50	ER40 – 3.26	63	98	35	90	30

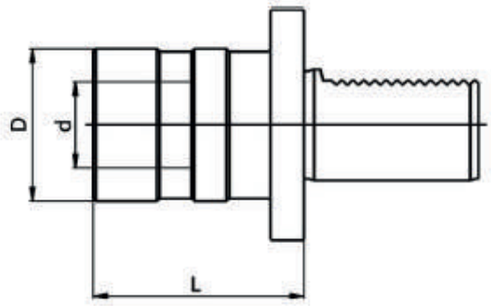
Portaherramientas VDI – F1 – Reductor CM



Referencia	Dimensiones	d1	d2	d3	MK	d4	h1	l1	l2
S07.169.01	F1 – 16 X MK1	16	32	40	1	12.068	18	32	13
S07.209.01	F1 – 20 X MK1	20	40	50	1	12.068	22	23	-
S07.209.02	F1 – 20 X MK2	20	40	50	2	17.78	22	90	-
S07.309.01	F1 – 30 X MK1	30	-	68	1	12.068	28	27	-
S07.309.02	F1 – 30 X MK2	30	55	68	2	17.78	28	36	27
S07.309.03	F1 – 30 X MK3	30	55	68	3	23.825	28	66	41
S07.409.02	F1 – 40 X MK2	40	55	83	2	17.78	32.5	36	22
S07.409.03	F1 – 40 X MK3	40	58	83	3	23.825	32.5	50	22
S07.409.04	F1 – 40 X MK4	40	68	83	4	31.267	32.5	80	22
S07.509.02	F1 - 50 X MK2	50	55	98	2	17.78	42.5	35	30
S07.509.03	F1 – 50 X MK3	50	58	98	3	23.825	42.5	36	30
S07.509.04	F1 – 50 X MK4	50	68	98	4	31.267	42.5	50	30
S07.509.05	F1 – 50 X MK5	50	75	98	5	44.399	42.5	81	30

Portaherramientas VDI – Porta Roscado CNC

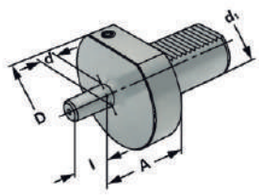




Referencia	ø	Capacidad	Serie	d	D	L	T	C
S16.209.12	20	M3 – M14	1	19	38	70	7.5	7.5
S16.309.12	30	M3 – M14	1	19	38	70	7.5	7.5
S16.309.20	30	M5 – M22	2	31	54	95	12.5	12.5
S16.409.12	40	M3 – M14	1	19	38	65	7.5	7.5
S16.409.20	40	M5 – M22	2	31	53	93	12.5	12.5
S16.509.12	50	M3 – M14	1	19	38	65	7.5	7.5
S16.509.20	50	M5 – M22	2	31	53	93	12.5	12.5

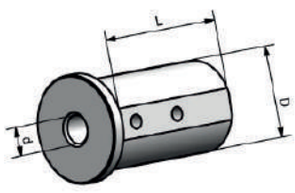
Portaherramientas VDI – DIN 238

Referencia	Dimensiones	d1	D	d	A	L
S14.309.16	Ø30 - B16	30	B16	68	27	24
S14.409.16	Ø40 - B16	40	B16	83	27	24
S14.509.16	Ø50 - B16	50	B16	98	35	24



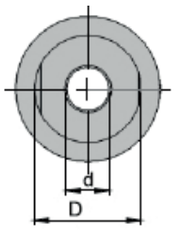
Casquillos Reductores

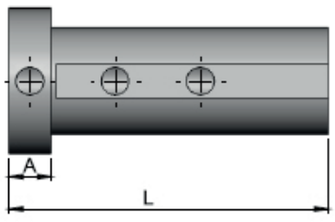
Referencia	Modelo	Diámetro Exterior-ø	Diámetro Interior-ø	L
S25.709.(*)	1 - Prisionero	25	6 - 8 - 10 - 12	46
S25.709.(*)	2 - Ranura	25	16 - 20	46
S32.709.(*)	1 - Prisionero	32	6 - 8 - 10 - 12	56
S32.709.(*)	2 - Ranura	32	16 – 20 - 25	56
S40.709.(*)	1 - Prisionero	40	6 - 8 - 10 - 12	71
S40.709.(*)	2 - Ranura	40	16 – 20 - 25 - 32	71

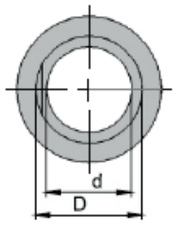


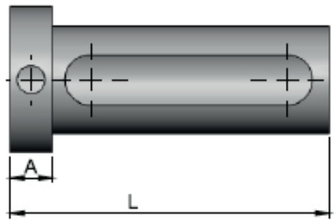


(*) – Cambiar por diámetro disponible







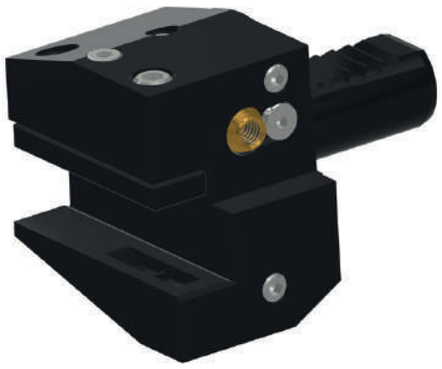


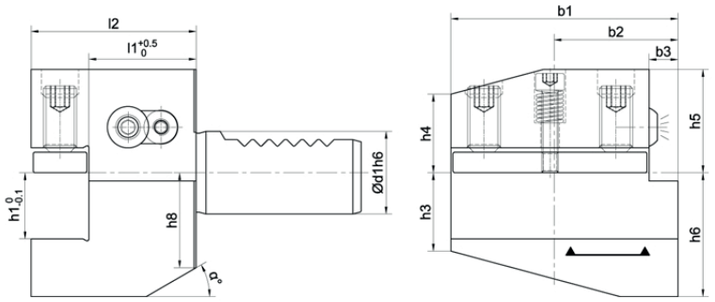
Casquillos Reductores – Grandes Diámetros

Referencia	Modelo	Diámetro Exterior ø	Diámetro Interior ø	L	A
S50.709.(*)	1 - Prisionero	50	8-10-12-16-20-25-32	100	15
S50.709.(*)	2 - Ranura	50	40	100	15
S60.709.(*)	1 - Prisionero	60	12-16-20-25-32-40	110	18
S60.709.(*)	2 - Ranura	60	50	110	18

(*) – Cambiar por diámetro disponible

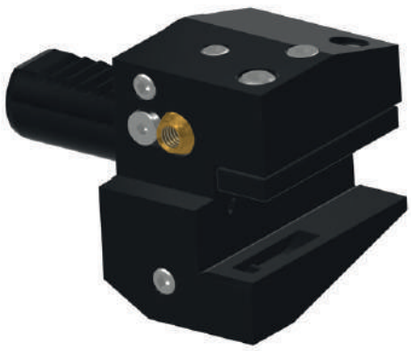
Portaherramientas VDI Refrigerado – B1 Derecha

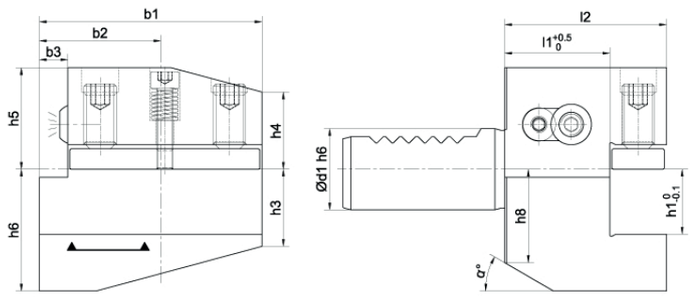




Referencia	Dimensiones	b1	b2	b3	l1	h3	h4	h5	h6	h8	a
S31K.309.20	Ø 30 – 30x20x40	70	35	10	22	26	22	28	38	30	25º
S31K.409.25	Ø 40 – 40x25x44	85	42.5	12.5	22	35	30	32.5	48	-	-
S31K.509.32	Ø 50 – 50x32x55	85	42.5	12.5	22	35	30	32.5	48	-	-

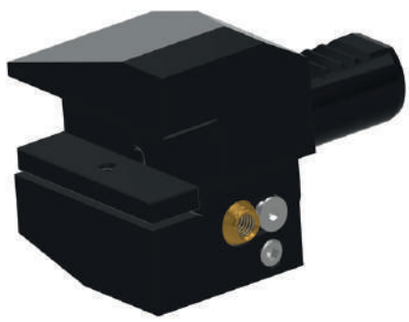
Portaherramientas VDI Refrigerado – B2 Izquierda

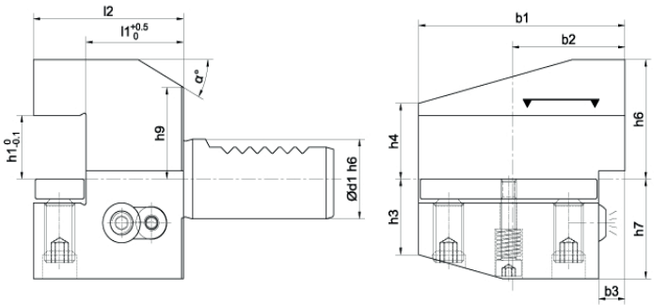




Referencia	Dimensiones	b1	b2	b3	l1	h3	h4	h5	h6	h8	a
S32K.309.20	Ø 30 – 30x20x40	70	35	10	22	26	22	28	38	30	25º
S32K.409.25	Ø 40 – 40x25x44	85	42.5	12.5	22	35	30	32.5	48	-	-
S32K.509.32	Ø 50 – 50x32x55	85	42.5	12.5	22	35	30	32.5	48	-	-

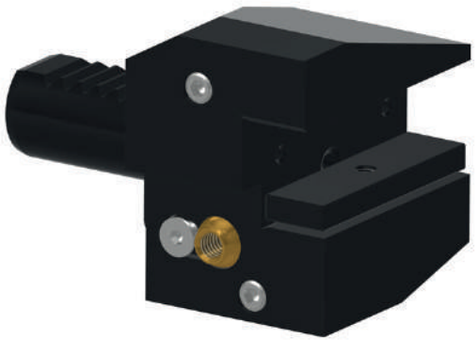
Portaherramientas VDI Refrigerado - B3 Derecha

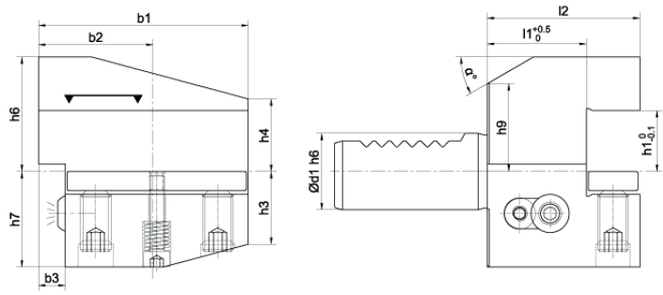




Referencia	Dimensiones	b1	b2	b3	l1	h3	h4	h5	h6	h8	a
S33K.309.20	Ø 30 – 30x20x40	70	35	10	22	26	22	38	35	28	25º
S33K.409.25	Ø 40 – 40x25x44	85	42.5	12.5	22	35	30	48	42.5	-	-
S33K.509.32	Ø 50 – 50x32x55	85	42.5	12.5	22	35	30	48	42.5	-	-

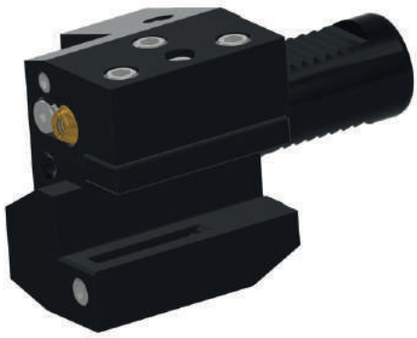
Portaherramientas VDI Refrigerado – B4 Izquierda

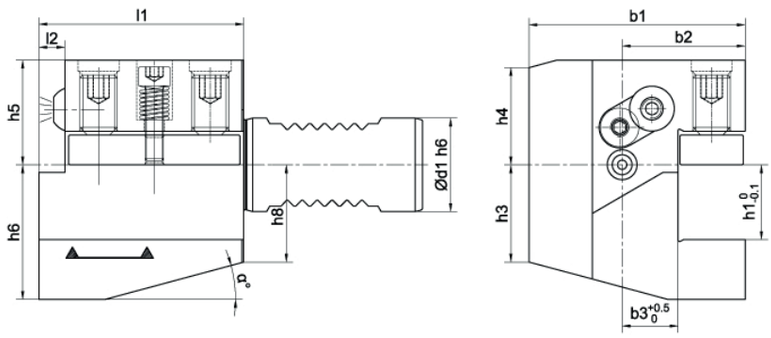




Referencia	Dimensiones	b1	b2	b3	l1	h3	h4	h5	h6	h8	a
S34K.309.20	Ø 30 – 30x20x40	70	35	10	22	26	22	38	35	28	25
S34K.409.25	Ø 40 – 40x25x44	85	42.5	12.5	22	35	30	48	42.5	-	-
S34K.509.32	Ø 50 – 50x32x55	82	42.5	12.5	22	35	30	48	42.5	-	-

Portaherramientas VDI Refrigerado – C1 Derecha

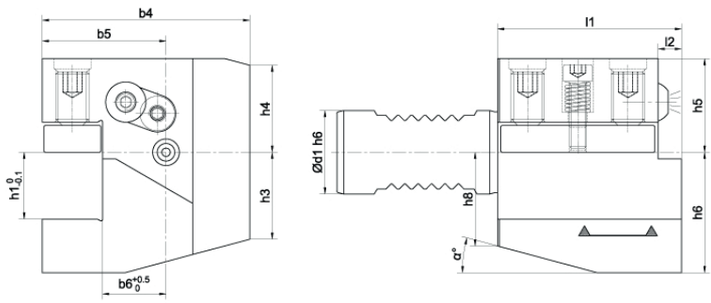




Referencia	Dimensiones	b1	b2	b3	l1	h3	h4	h5	h6	h8	a
S41K.309.20	Ø 30 – 30x20x40	70	35	17	10	26	22	32	38	30	25º
S41K.409.25	Ø 40 – 40x25x44	85	42.5	21	112.5	35	30	38	48	40	15º
S41K.509.32	Ø 50 – 50x32x55	90.5	48	26	12.5	42	35	44	48	-	-

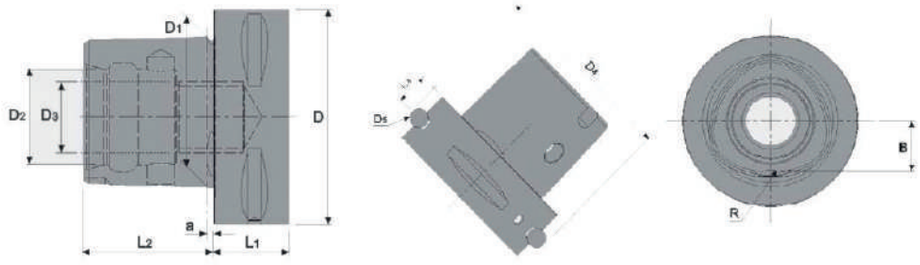
Portaherramientas VDI Refrigerado – C2 Izquierda





Referencia	Dimensiones	b1	b2	b3	l1	h3	h4	h5	h6	h8	a
S42K.309.20	Ø 30 – 30x20x40	70	35	17	10	26	22	32	38	30	25º
S42K.409.25	Ø 40 – 40x25x44	85	42.5	21	12.5	35	30	38	48	40	15º
S42K.509.32	Ø 50 – 50x32x55	90.5	48	26	12.5	42	35	44	48	-	-

POLIGONAL ISO 26623-1 (CAPTO)



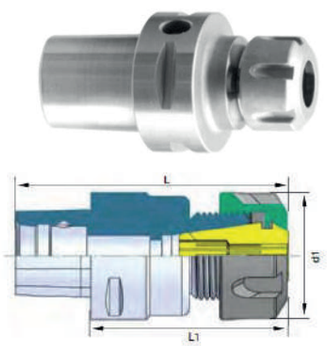
Dimensiones Generales de Amarre

PSC - CAPTO	D3	D	D1	D2	D4	D5	L1	L2	L3	f3	a	B	R
C-63	M20X2	63	44	28	70.7	7	22	38	12	18	3	18	5

Portapinzas DIN 6499 – Pinzas ER - G6.3 - 25.000 Rpm

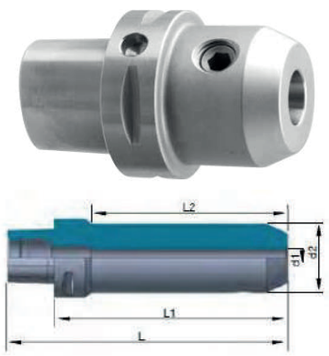
Referencia	Capacidad	L	l1	d1
CPT.ER16	ER16 – 1-10	138	100	28
CPT.ER20	ER20 – 2-13	98	60	34
CPT.ER25	ER25 – 2-16	98	60	42
CPT.ER25.1	ER25 – 2-16	138	100	42
CPT.ER32	ER32 – 3-20	108	70	50
CPT.ER32.1	ER32 – 3-20	138	100	50
CPT.ER40	ER40 – 3-26	103	65	63

- Llave no incluida



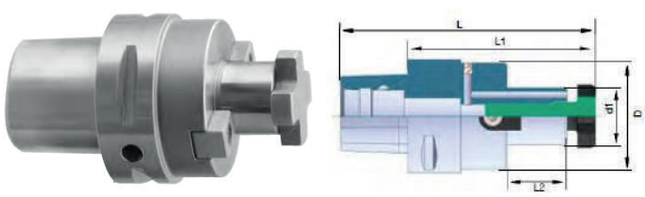
Porta Weldon - G6.3 - 25.000 Rpm

Referencia	d1	L	l1	L2	d2	T
CPT-W6	6	93	55	25	25	M-6
CPT-W8	8	93	55	26	28	M-8
CPT-W10	10	98	60	30	35	M-10
CPT-W12	12	98	60	33	42	M-12
CPT-W14	14	98	60	33.5	44	M-12
CPT-W16	16	103	65	35.5	48	M-14
CPT-W18	18	103	65	39	50	M-14
CPT-W20	20	103	65	37.5	52	M-16
CPT-W25	25	118	80	58	65	M-18
CPT-W32	32	128	90	68	72	M-20
CPT-W40	40	138	100	77	90	M-20



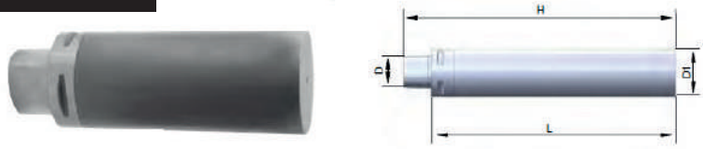
Eje Portafresas - G6.3 - 25.000 Rpm

Referencia	d1	L	l1	l2	D
CTP-D16	16	90	35	17	38
CPT-D22	22	92	40	19	48
CPT-D27	27	99	40	21	60
CPT-D32	32	102	40	24	78
CPT-D40	40	110	45	27	80



Barra de Mandrinado - G6.3 - 25.000 Rpm

Referencia	D	D1	H	L
CPT-BL6363	63	63	240	218
CPT-BL63120	63	120	240	218

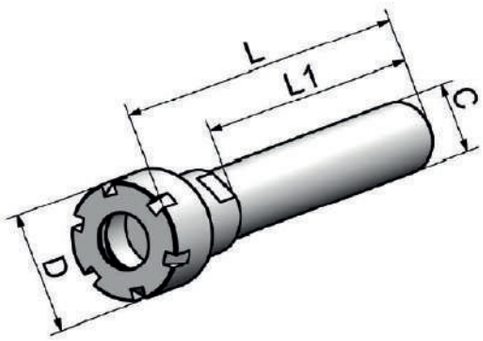


Portapinzas ER - Mango Cilíndrico Tuerca Mini

Referencia	Capacidad	Amarre - ø / C	D	L1	L
S02.120.06.0	1-5 – ER8	8	12	100	124.5
S02.120.06	1-5 – ER8	10	12	100	124.5
S02.120.06.1	1-5 – ER8	10	12	150	174.5
S02.120.07	1-7 - ER11	16	16	100	124.5
S02.120.07.1	1-7 - ER11	16	16	150	174.5
S02.120.07.2	1-7 - ER11	16	16	200	224.5
S02.120.07.4	1-7 - ER11	16	16	300	374.5
S02.120.10	1-10 – ER16	20	22	100	124.5
S02.120.10.1	1-10 – ER16	20	22	150	174.5
S02.120.10.2	1-10 – ER16	20	22	200	224.5
S02.120.10.3	1-10 – ER16	20	22	300	374.5
S02.120.10.6	1-10 - ER16	16	22	100	124.5
S02.120.10.7	1-10 – ER16	16	22	150	174.5
S02.120.13	2-13 – ER20	20	28	100	124.5
S02.120.13.1	2-13 – ER20	20	28	150	174.5
S02.120.13.5	2-13 - ER20	25	28	100	124.5
S02.120.13.6	2-13 - ER20	25	28	150	174.5

- Llave no incluida



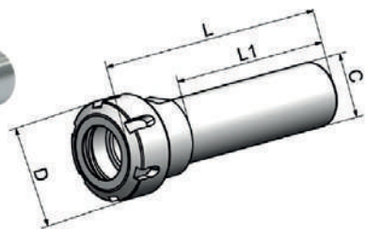


Portapinzas ER - Mango Cilíndrico

Referencia	Capacidad	Ø - C	D	L1	L
S02.120.16	2-16 – ER25	25	42	100	144
S02.120.16.1	2-16 – ER25	25	42	150	194
S02.120.16.2	2-16 – ER25	25	42	200	244
S02.120.20	3-20 – ER32	25	50	100	144
S02.120.20.1	3-20 – ER32	25	50	150	194
S02.120.20.2	3-20 – ER32	32	50	100	148
S02.120.20.3	3-20 – ER32	32	50	150	198
S02.120.20.6	3-20 – ER32	40	50	100	148
S02.120.26	4-30 – ER40	25	63	100	198
S02.120.26.1	4-30 – ER40	32	63	100	151
S02.120.26.2	4-30 – ER40	40	63	150	201

- Llave no incluida



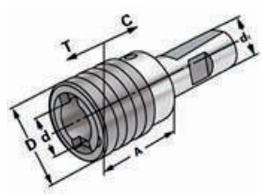


Portapinzas Roscado con Embrague – Mango Cilíndrico

• Porta Mango Cilíndrico para Pinzas de Roscado con Embrague Serie 1 y Serie 2.

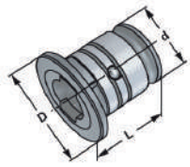
Referencia	Capacidad	A	D	d1	d	T	C
S05.120.S1	M3-M14	44	36	25	19	7	7
S05.120.S2	M5-M22	73	53	25	31	12	12





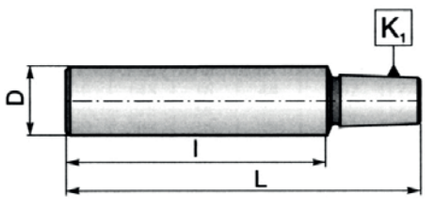
Reductor Cabecillas de Roscado

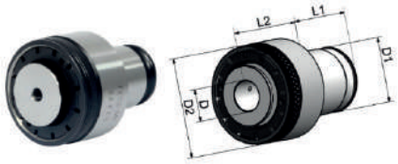
Referencia	Amarre	Salida	D	d	L
S13.00.21	Serie 2	Serie 1	19	31	40.4
S13.00.32	Serie 3	Serie 2	31	48	62.6

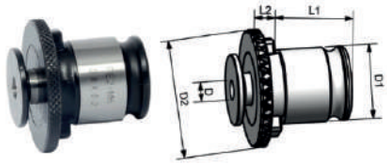


Eje de Amarre Cilíndrico – Tipo B

Referencia	Ø Amarre	Longitud Amarre	Cono Amarre	Longitud Total
S15.160.B16	16	50	B16	81
S15.160.B18	16	70	B18	110
S15.200.B16	20	60	B16	93
S15.200.B18	20	60	B18	100
S15.250.B16	25	75	B16	107
S15.300.B16	30	70	B16	106
S15.300.B18	30	70	B18	112







Pinzas de Roscado – Serie 1

Referencia CON EMBRAGUE	D2	D1	L1	M	DIN	Diámetro	Cuadrado	Referencia SIN EMBRAGUE
S11.16.1.M3	32	19	25	M3	371	3.5	2.7	S01.16.1.M3
S11.16.1.M3.5	32	19	25	M3.5	371	4	3.0	S01.16.1.M3.5
S11.16.1.M4	32	19	25	M4	371	4.5	3.4	S01.16.1.M4
S11.16.1.M5	32	19	25	M5	371	6.0	4.9	S01.16.1.M5
S11.16.1.M6	32	19	25	M6	371	6.0	4.9	S01.16.1.M6
S11.16.1.M8	32	19	25	M8	371	8.0	6.2	S01.16.1.M8
S11.16.1.M10	32	19	25	M10	371	10.0	8.0	S01.16.1.M10
S11.16.1.M102	32	19	25	M10.2	376	7.0	5.5	S01.16.1.M102
S11.16.1.M12	32	19	25	M12	376	9.0	7.0	S01.16.1.M12
S11.16.1.M14	32	19	25	M14	376	11.0	9.0	S01.16.1.M14

Pinzas de Roscado – Serie 2

Referencia CON EMBRAGUE	D2	D1	L1	M	DIN	Diámetro	Cuadrado	Referencia SIN EMBRAGUE
S12.16.2.M5	50	31	31	M5	371	6	4.9	S02.16.2.M5
S12.16.2.M6	50	31	31	M6	371	6	4.9	S02.16.2.M6
S12.16.2.M8	50	31	31	M8	371	8	6.2	S02.16.2.M8
S12.16.2.M102	50	31	31	M10.2	371	10	8.0	S02.16.2.M102
S12.16.2.M10	50	31	31	M10	376	7	5.5	S02.16.2.M10
S12.16.2.M12	50	31	31	M12	376	9	7.0	S02.16.2.M12
S12.16.2.M14	50	31	31	M14	376	11	9.0	S02.16.2.M14
S12.16.2.M16	50	31	31	M16	376	12	9.0	S02.16.2.M16
S12.16.2.M18	50	31	31	M18	376	14	11.0	S02.16.2.M18
S12.16.2.M20	50	31	31	M20	376	16	12.0	S02.16.2.M20
S12.16.2.M22	50	31	31	M22	376	18	14.5	S02.16.2.M22

Pinzas de Roscado – Serie 3

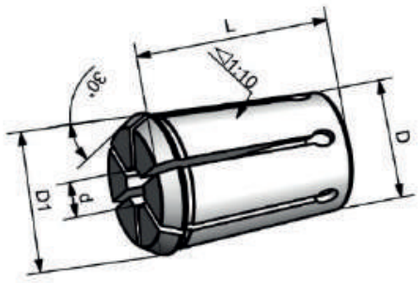
Referencia CON EMBRAGUE	D2	D1	L1	M	DIN	Diámetro	Cuadrado	Referencia SIN EMBRAGUE
S13.16.3.M14	72	48	41	M14	376	11	9.0	S03.16.3.M14
S13.16.3.M16	72	48	41	M16	376	12	9.0	S03.16.3.M16
S13.16.3.M18	72	48	41	M18	376	14	11.0	S03.16.3.M18
S13.16.3.M20	72	48	41	M20	376	16	12.0	S03.16.3.M20
S13.16.3.M22	72	48	41	M22	376	18	14.5	S03.16.3.M22
S13.16.3.M24	72	48	41	M24	376	18	14.5	S03.16.3.M24
S13.16.3.M27	72	48	41	M27	376	20	16.0	S03.16.3.M27
S13.16.3.M30	72	48	41	M30	376	22	18.0	S03.16.3.M30
S13.16.3.M33	72	48	41	M33	376	25	20.0	S03.16.3.M33
S13.16.3.M36	72	48	41	M36	376	28	22.0	S03.16.3.M36

Pinzas de Roscado – Serie 4

Referencia CON EMBRAGUE	D2	D1	L1	M	DIN	Diámetro	Cuadrado	Referencia SIN EMBRAGUE
S14.16.4.M24	95	60	62.8	M24	376	18	14.5	-
S14.16.4.M27	95	60	62.8	M27	376	20	16	-
S14.16.4.M30	95	60	62.8	M30	376	22	18	-
S14.16.4.M33	95	60	62.8	M33	376	25	20	-
S14.16.4.M36	95	60	62.8	M36	376	28	22	-
S14.16.4.M39	95	60	62.8	M39	376	32	24	-
S14.16.4.M42	95	60	62.8	M42	376	32	24	-
S14.16.4.M45	95	60	62.8	M45	376	36	29	-
S14.16.4.M48	95	60	62.8	M45	376	36	29	-

PINZAS OZ – 0.015 – DIN 6388B

- Pinza OZ-16 – 415E > Disponible en Diámetros 2 a 16 mm (cada 1 mm).
- Pinza OZ-20 – 4541E > Disponible en Diámetros 4 a 20 mm (cada 1 mm).
- Pinza OZ-25 – 462E > Disponible en Diámetros 2 a 25 mm (cada 1 mm).
- Pinza OZ-32 – 467E > Disponible en Diámetros 3 a 32 mm (cada 1 mm).



Datos Técnicos Pinzas OZ

Referencia	OZ	D Min./Máx.	Campo Apriete	D1	L
415-E	OZ-16	2 - 16	0.5 mm	25.5	40
4541-E	OZ-20	4 - 20	0.5 mm	29.9	45
462-E	OZ-25	2 - 25	0.5 mm	35.05	52
467-E	OZ-32	4 - 32	0.5 mm	43.7	60

Set de Pinzas OZ

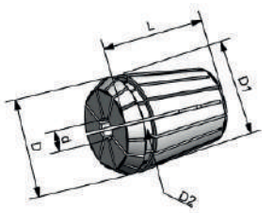
Referencia	OZ	Incluye Pinzas de Diámetros
415E-Set	OZ-16	2.3.4.5.6.7.8.9.10.11.12.13.14.15.16
462E-Set	OZ-25	4.5.6.7.8.9.10.11.12.14.16.18.20.22.25
467E-Set	OZ-32	5.6.7.8.10.112.14.16.18.20.22.24.25.28.30.32



PINZAS ER – 0.015 – DIN 6499B

Referencia	ER	d1 Min/Máx.	Campo Apriete	D	L
4004-E	ER-8	1 - 5	0.5/1 mm	8.5	13.50
4008-E	ER-11	1 - 7	0.5/1 mm	12	18
426-E	ER-16	1 - 10	0.5/1 mm	17	27.50
428-E	ER-20	2 - 13	0.5/1 mm	21	31.50
430-E	ER-25	2 - 16	0.5/1 mm	26	34
470-E	ER-32	2 - 20	0.5/1 mm	33	40
472-E	ER-40	3 - 26	1 mm	41	46
477-E	ER-50	6 - 34	1 mm	52	60





Diámetros de Pinzas ER Disponibles

- Pinza ER8 – 4004E > Disponible de 1 a 5 mm (cada 0.5 mm).
- Pinza ER11 – 4008E > Disponible de 1 a 7 mm (cada 0.5 mm).
- Pinza ER16 – 426E > Disponible de 1 a 10 mm (cada 1 mm).
- Pinza ER20 – 428E > Disponible de 2 a 13 mm (cada 1 mm).
- Pinza ER25 – 430E > Disponible de 2 a 16 mm (cada 1 mm).
- Pinza ER32 – 470E > Disponible de 2 a 20 mm (cada 1 mm).
- Pinza ER40 – 472E > Disponible de 3 a 25 mm (cada 1 mm) y ø26 - ø30 mm.
- Pinza ER50 – 477E > Disponible de 6 a 34 mm (cada 1 mm).

NOTA: Para pedido. Ejemplo: 426-E05 (Pinza ER16 - ø5 mm).



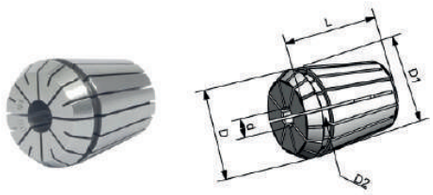
Set de Pinzas ER

Referencia	Pinza	Incluye Pinzas de Diámetros
4007E-Set	ER-8	1-1.5-2-2.5-3-3.5-4-4.5-5
4008E-Set	ER-11	1-1.5-2-2.5-3-3.5-4-4.5-5-5.5-6-6.5-7
426E-Set	ER-16	1.2.3.4.5.6.7.8.9.10
428E-Set	ER-20	2.3.4.5.6.7.8.9.10.11.12.13
430E-Set	ER-25	2.3.4.5.6.7.8.9.10.11.12.13.14.15.16
470E-Set	ER-32	3.4.5.6.7.8.9.10.11.12.13.14.15.16.17.18.19.20
472E-Set	ER-40	3.4.5.6.7.8.9.10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26

PINZAS ER (De Precisión) – 0.005 – DIN 6499B

Referencia	ER	d1 Min/Máx.	Campo Apriete	D	L
4004-EP	ER-8	1 - 5	0.5/1 mm	8.5	13.50
4008-EP	ER-11	1 - 7	0.5/1 mm	12	18
426-EP	ER-16	1 - 10	0.5/1 mm	17	27.50
428-EP	ER-20	2 - 13	0.5/1 mm	21	31.50
430-EP	ER-25	2 - 16	0.5/1 mm	26	34
470-EP	ER-32	2 - 20	0.5/1 mm	33	40
472-EP	ER-40	3 - 26	1 mm	41	46

NOTA: Para pedido. Ejemplo: 470EP-10 – Pinza ER32. De Precisión en ø10 mm.

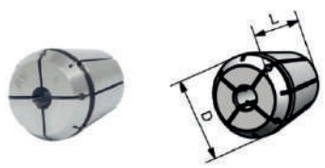


PINZA DIN 6499 - B - Pinza Estanca (ERX)

• Máxima concentricidad (0.008 mm) con un acabado fino Rz2.5 debido a su acabado totalmente pulido y rectificado y con un aguante de presión máxima de hasta 120 bar.

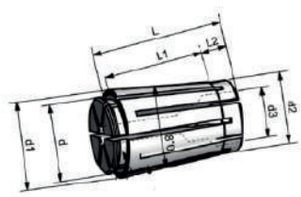
Referencia	Pinza	Diámetros disponibles
426-EX	ER-16	1.2.3.4.5.6.7.8.9.10.12
428-EX	ER-20	3.4.5.6.7.8.9.10.11.12.13
430-EX	ER-25	3.4.5.6.7.8.9.10.11.12.13.14.15.16.18
470-EX	ER-32	3.4.5.6.7.8.9.10.11.12.13.14.15.16.17.18.19.20.21.22
472-EX	ER-40	6.8.10.11.14.16..18.20.25.26.30

NOTA: Para pedido. Ejemplo: 470EX-10 – Pinza ER32. Estanca ø10 mm.



Pinzas SKS

Referencia	Pinza	d1	L	Diámetros disponibles
SKS10	SKS10	15.5	30.5	2 a 10 cada 0.5 mm
SKS16	SKS16	24.6	45	4 a 16 cada 0.5 mm



Pinzas ER – Refrigeración Externa - Orificios Frontales

• Orificios en el frontal de la pinza para ofrecer refrigeracion alrededor de la herramienta

Referencia	Pinza	Diámetros disponibles
ER16-RE	ER-16	3.4.5.6.7
ER20-RE	ER-20	4.5.6.7.8.9.10
ER25-RE	ER-25	3.4.5.6.7.8.9.10.11.12.13.14
ER32-RE	ER-32	3.4.5.6.7.8.9.10.11.12.13.14.15.16.17.18.19.20
ER40-RE	ER-40	4.5.6.7.8.9.10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25

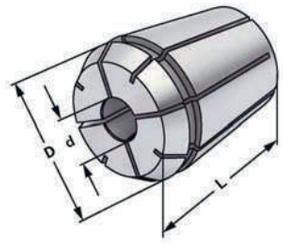


Maletín Vacío para Pinzas

Referencia	Número de huecos	Válido para modelos
SVP-10	10	ER-16
SVP-13	13	ER-20
SVP-16	16	ER-25 - OZ16
SVP-20	20	ER32 - OZ20
SVP-25	25	OZ 25
SVP-30	30	ER40 - OZ32



PINZA DIN 6499.A – Machos de Roscado



Referencia	Para Pinza	ø - □	D	L
426G-3527	ER.16	3.5 x 2.7	17	27.5
426G-43	ER.16	4 x 3	17	27.5
426G-4534	ER.16	4.5 x 3.4	17	27.5
426G-649	ER.16	6 x 4.9	17	27.5
426G-755	ER.16	7 x 5.5	17	27.5
426G-862	ER.16	8 x 6.2	17	27.5
428G-3527	ER.20	3.5 x 2.7	21	31.5
428G-43	ER.20	4 x 3	21	31.5
428G-4534	ER.20	4.5 x 3.4	21	31.5
428G-649	ER.20	6 x 4.9	21	31.5
428G-755	ER.20	7 x 5.5	21	31.5
428G-862	ER.20	8 x 6.2	21	31.5
428G-97	ER.20	9 x 7	21	31.5
428G-108	ER.20	10 x 8	21	31.5
430G-43	ER.25	4 x 3	26	34
430G-4534	ER.25	4.5 x 3.4	26	34
430G-649	ER.25	6 x 4.9	26	34
430G-755	ER.25	7 x 5.5	26	34
430G-862	ER.25	8 x 6.2	26	34
430G-97	ER.25	9 x 7	26	34
430G-108	ER.25	10 x 8	26	34
430G-119	ER.25	11 x 9	26	34
430G-129	ER.25	12 x 9	26	34
470G-4534	ER.32	4.5 x 3.4	33	40
470G-649	ER.32	6 x 4.9	33	40
470G-755	ER.32	7 x 5.5	33	40
470G-862	ER.32	8 x 6.2	33	40
470G-97	ER.32	9 x 7	33	40
470G-108	ER.32	10 x 8	33	40
470G-119	ER.32	11 x 9	33	40
470G-129	ER.32	12 x 9	33	40
470G-1411	ER.32	14 X 11	33	40
470G-1612	ER.32	16 X 12	33	40
472G-649	ER.40	6 x 4.9	41	46
472G-755	ER.40	7 x 5.5	41	46
472G-862	ER.40	8 x 6.2	41	46
472G-97	ER.40	9 x 7	41	46
472G-108	ER.40	10 x 8	41	46
472G-119	ER.40	11 x 9	41	46
472G-129	ER.40	12 x 9	41	46
472G-1411	ER.40	14 X 11	41	46
472G-1612	ER.40	16 X 12	41	46
472G-18145	ER.40	18 X 14.5	41	46
472G-2016	ER.40	20 X 16	41	46
477G-862	ER.50	8 x 6.2	52	60
477G-97	ER.50	9 x 7	52	60
477G-108	ER.50	10 x 8	52	60
477G-119	ER.50	11 x 9	52	60
477G-129	ER.50	12 x 9	52	60
477G-1411	ER.50	14 X 11	52	60
477G-1612	ER.50	16 X 12	52	60
477G-18145	ER.50	18 X 14.5	52	60
477G-2016	ER.50	20 X 16	52	60
477G-2218	ER.50	22 X 18	52	60
477G-520	ER.50	25 X 20	52	60
477G-2832	ER.50	28 x 32	52	60
477G-3224	ER.50	32 X 24	52	60

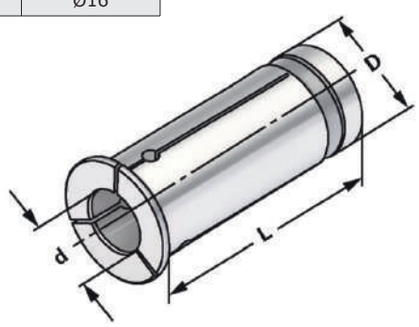
Pinzas Cilíndricas - Gran Apriete

Referencia D - ø32	ø d
HKS32-03	Ø3
HKS32-04	Ø4
HKS32-05	Ø5
HKS32-06	Ø6
HKS32-07	Ø7
HKS32-08	Ø8
HKS32-09	Ø9
HKS32-10	Ø10
HKS32-11	Ø11
HKS32-12	Ø12
HKS32-13	Ø13
HKS32-14	Ø14
HKS32-15	Ø15
HKS32-16	Ø16
HKS32-17	Ø17
HKS32-18	Ø18
HKS32-19	Ø19
HKS32-20	Ø20
HKS32-21	Ø21
HKS32-22	Ø22
HKS32-23	Ø23
HKS32-24	Ø24
HKS32-25	Ø25

Referencia D - ø25	ø d
HKS25-03	Ø3
HKS25-04	Ø4
HKS25-05	Ø5
HKS25-06	Ø6
HKS25-07	Ø7
HKS25-08	Ø8
HKS25-09	Ø9
HKS25-10	Ø10
HKS25-11	Ø11
HKS25-12	Ø12
HKS25-13	Ø13
HKS25-14	Ø14
HKS25-15	Ø15
HKS25-16	Ø16
HKS25-17	Ø17
HKS25-18	Ø18
HKS25-19	Ø19
HKS25-20	Ø20

Referencia D - ø20	ø d
HKS20-03	Ø3
HKS20-04	Ø4
HKS20-05	Ø5
HKS20-06	Ø6
HKS20-07	Ø7
HKS20-08	Ø8
HKS20-09	Ø9
HKS20-10	Ø10
HKS20-11	Ø11
HKS20-12	Ø12
HKS20-13	Ø13
HKS20-14	Ø14
HKS20-15	Ø15
HKS20-16	Ø16





Dimensiones Longitud: HKS32 – L=64 mm / HKS25 – L=60 mm / HKS20 – L=50 mm.

Pinzas Cilíndricas - Portaherramientas hidráulicos

Referencia Standar	Referencia Refrigerado	ø d
HY12-3	HYR12-3	Ø3
HY12-4	HYR12-4	Ø4
HY12-5	HYR12-5	Ø5
HY12-6	HYR12-6	Ø6
HY12-7	HYR12-7	Ø7
HY12-8	HYR12-8	Ø8

Dimensiones: D1: 12 | D2:19 | L:47 | L2:2

Referencia Standar	Referencia Refrigerado	ø d
HY20-3	HYR20-3	Ø3
HY20-4	HYR20-4	Ø4
HY20-5	HYR20-5	Ø5
HY20-6	HYR20-6	Ø6
HY20-7	HYR20-7	Ø7
HY20-8	HYR20-8	Ø8
HY20-9	HYR20-9	Ø9
HY20-10	HYR20-10	Ø10
HY20-11	HYR20-11	Ø11
HY20-12	HYR20-12	Ø12
HY20-13	HYR20-13	Ø13
HY20-14	HYR20-14	Ø14
HY20-15	HYR20-15	Ø15
HY20-16	HYR20-16	Ø16

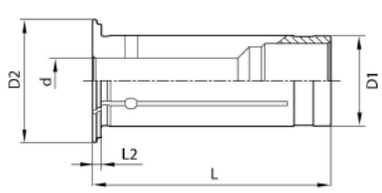
Dimensiones: D1: 20 | D2:27 | L:52.5 | L2:2

Referencia Standar	Referencia Refrigerado	ø d
HY32-6	HYR32-6	Ø6
HY32-8	HYR32-8	Ø8
HY32-10	HYR32-10	Ø10
HY32-12	HYR32-12	Ø12
HY32-14	HYR32-14	Ø14
HY32-16	HYR32-16	Ø16
HY32-18	HYR32-18	Ø18
HY32-20	HYR32-20	Ø20
HY32-25	HYR32-25	Ø25

Dimensiones: D1: 32 | D2:39 | L:63.5 | L2:3

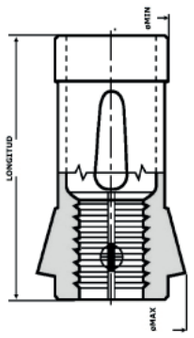






Pinzas Especiales 161E – 163E – 173E – 185E – 193E

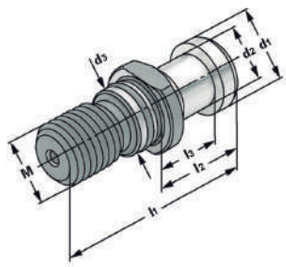
Referencia	DIÁMETROS	FORMA	Longitud	øMax.	øMin.
06-161E-DIÁMETRO	3 A 26 (cada 0.5 mm)	REDONDO	75	45	32
06-163E-DIÁMETRO	2 A 30 (cada 0.5 mm)	REDONDO	80	48	35
06-173E-DIÁMETRO	3 A 42 (cada 0.5mm)	REDONDO	94	60	48
06-173E-CUADRADO	4 A 30 (cada 1 mm)	CUADRADO	94	60	48
06-173E-HEXÁGONO	4 A 36 (cada 1 mm)	HEXÁGONO	94	60	48
06-185E-DIÁMETRO	4 A 60 (cada 1 mm)	REDONDO	110	84	66
06-185E-CUADRADO	10 A 42 (cada 1 mm)	CUADRADO	110	84	66
06-185E-HEXÁGONO	6 A 52 (cada 1 mm)	HEXÁGONO	110	84	66
06-193E-DIÁMETRO	20 A 80 (cada 5 mm)	REDONDO	130	107	90



NOTA: Hasta ø8 mm son modelos lisos, a partir de ese díametro son con ranuras

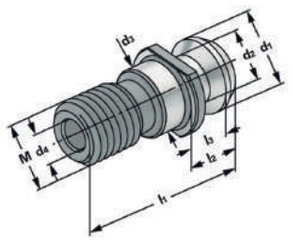
Tirantes DIN 69872

Referencia	Métrica	L1	L2	L3	D1	D2	D3	D4
S20.302.12	M-12	44	24	19	13	9	13	3.0
Con agujero y sin junta.								
S20.402.16.B	M-16	54	26	20	19	14	17	7.0
S20.502.24.B	M-24	74	34	25	28	21	25	11.5
Con agujero y con junta.								



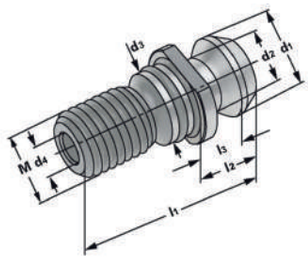
Tirantes DIN ISO 7388

Referencia	Métrica	L1	L2	L3	D1	D2	D3	D4
S20.404.16.B	M-16	44.5	16.4	11.15	18.95	12.95	17	7.0
S20.504.24.B	M-24	64.5	25.55	17.95	29.10	19.60	25	11.5
Con agujero y con junta.								



Tirantes DIN ISO CAT Métrica

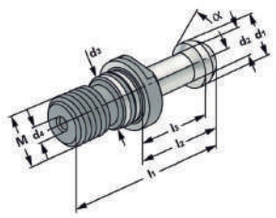
Referencia	Métrica	L1	L2	L3	D1	D2	D3	D4
S20.404.16.21	M-16	41.26	16.26	11.18	18.80	12.45	17.00	7.0
S20.504.24.21	M-24	65.40	25.40	17.80	28.95	20.80	25.00	11.50
Con agujero y con junta.								



Tirantes MAS 403 BT (JIS6339) - Ejecución Corta

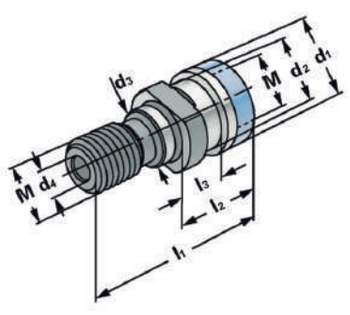
Referencia	Métrica	L1	L2	L3	D1	D2	D3	D4
S20.405.60.21	M-16	57	32	25	15	10	17	7
S20.405.60.21	M-16	57	32	25	15	10	17	7
S20.405.90.21	M-16	57	32	25	15	10	17	7

Con agujero y con junta. **Top Ventas.**



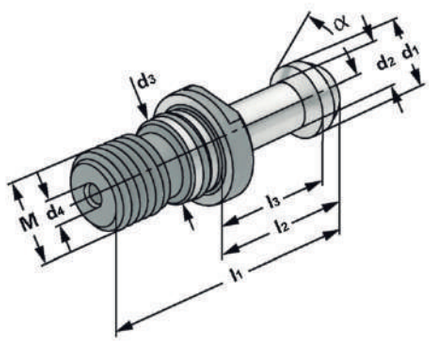
Tirante DIN 2080

Referencia	Métrica	L1	L2	L3	D1	D2	D3	D4
S20.401.16	M-16	53.0	25.1	13.6	25.00	21.1	17	7.0
S20.501.24	M-24	65.1	25.1	13.3	39.6	32.0	25	7.0
Con agujero y protección.								



Tirantes MAS 403 BT (JIS6339) - Sin Agujero y Sin Junta

Referencia	Métrica	L1	L2	L3	D1	D2	D3
S20.305.45	M-12	43	23	18	11	7	12.5
S20.305.60	M-22	43	23	18	11	7	12.5
S20.405.45	M-16	60	35	28	15	10	17
S20.405.60	M-16	60	35	28	15	10	17
S20.405.90	M-16	60	35	28	15	10	17
S20.505.45	M-24	83	45	35	23	17	25
S20.505.60	M-24	83	45	35	23	17	25
S20.505.90	M-24	83	45	35	23	17	25



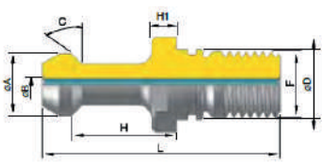
Tirantes MAS 403 BT (JIS6339) - Con Agujero y Con Junta

Referencia	Métrica	L1	L2	L3	D1	D2	D3	D4
S20.306.45	M-12	43	23	18	11	7	12.5	2.5
S20.306.60	M-22	43	23	18	11	7	12.5	2.5
S20.406.45	M-16	60	35	28	15	10	17	4
S20.406.60	M-16	60	35	28	15	10	17	4
S20.406.90	M-16	60	35	28	15	10	17	4
S20.506.45	M-24	83	45	35	23	17	25	6.0
S20.506.60	M-24	83	45	35	23	17	25	6.0
S20.506.90	M-24	83	45	35	23	17	25	6.0

Tirante HURCO

Referencia	F	C	ØD	øA	H	L
S20.401.HURCO.45	M-16	45º	17	15	25.15	57.15
S20.401.HURCO.60	M-16	60º	17	15	25.15	57.15
S20.401.HURCO.90	M-16	90º	17	15	25.15	57.15

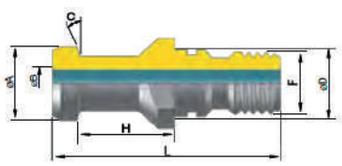
Con agujero y protección anillo.



Tirante KITAMURA

Referencia	F	C	ØD	øA	H	H	Øb
S20.KITAMURA	M-16	15º	17	19	23	54	7

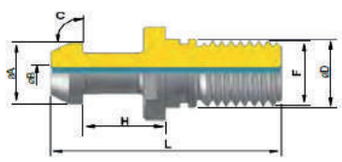
Con agujero y protección anillo.



Tirante MITSUI SEIKI

Referencia	F	C	ØD	øA	H	L	Øb
S20.MITSUI.40	M-16	90º	17	15	18	50	3
S20.MITSUI.50	M-24	90º	25	24	23	71	8

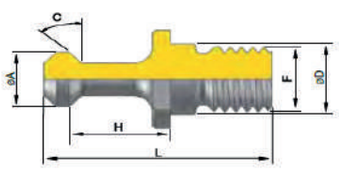
Con agujero y protección anillo.



Tirante CHIRON

Referencia	F	C	ØD	øA	H	L
S20.CHIRON	M-12	45º	13	10	16	36

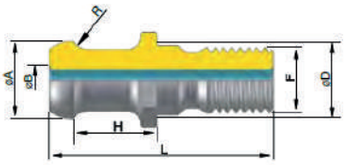
Sin agujero.



Tirante CB FERRARI

Referencia	F	R	ØD	øA	H	L
S20.FERRARI.0185	M-16	3.7	-	16	-	57
S20.FERRARI.1385	M-16	3.4	13	12	19.5	44
S20.FERRARI.1185	M-16	3.7	17	19	20.31	54
S20.FERRARI.M24	M-24	4.3	25	28	25.5	74

Con agujero.



Tuercas OZ / ER / ER Mini / ER Hexagonal

Referencia	Para Tuercas	D	M
S01.112.OZ16	OZ-16	43	M33 X 1.5
S01.112.OZ25	OZ-25	60	M48 X 2
S01.112.OZ32	OZ-32	72	M60 X 2.5
S02.110.ER16	ER-16	32	M22 X 1.5
S02.110.ER20	ER-20	35	M25 X 1.5
S02.110.ER25	ER-25	42	M32 X 1.5
S02.110.ER32	ER-32	50	M40 X 1.5
S02.110.ER40	ER-40	63	M50 X 1.5
S02.110.ER50	ER-50	78	M64 X 2
S02.111.ER8	ER-8	12	M10 x 0.75
S02.111.ER11	ER-11	16	M13 x 0.75
S02.111.ER16	ER-16	22	M19 x 1
S02.111.ER20	ER-20	28	M24 x 2
S02.112.ER16	ER-16	25	M22 X 1.5
S02.112.ER20	ER-20	30	M25 X 1.5



Tornillos en Cruz

Referencia Sin Refrigeracion	Referencia Con Refrigeracion
S10.102.M8	S11.102.M8
S10.102.M10	S11.102.M10
S10.102.M12	S11.102.M12
S10.102.M16	S11.102.M16
S10.102.M20	S11.102.M20
S10.102.M24	S11.102.M24
S10.102.M30	S11.102.M30



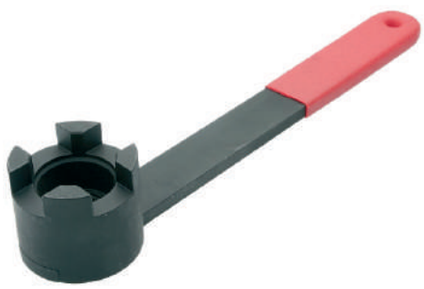
Arandelas Separación Doble Amarre

Referencia	Ø Eje
S10.101.16	16
S10.101.22	22
S10.101.27	27
S10.101.32	32
S10.101.40	40



Llave de Apriete Tuercas Cruz

Referencia	Para Rosca	D - ø
S10.103.M8	M8	16
S10.103.M10	M10	22
S10.103.M12	M12	27
S10.103.M16	M16	32
S10.103.M20	M20	40
S10.103.M24	M24	50
S10.103.M30	M30	60



Limpiaconos para Portaherramientas

Referencia	Para Modelo
S710.OZ16	OZ16
S710.OZ25	OZ25
S710.OZ32	OZ32
S710.ER16	ER16
S710.ER25	ER25
S710.ER32	ER32
S710.ER40	ER40

Referencia	Para Modelo
S710.CM1	CM1
S710.CM2	CM1
S710.CM3	CM1
S710.CM4	CM1
S710.CM5	CM1

Referencia	Para Modelo
S710.SK30	SK30
S710.SK40	SK40
S710.SK50	SK50



Portabrocas Serie Industrial

Referencia	Amarre	Campo Amarre
S5134.B1616	B16	1-16
S5134.B1816	B18	1-16
S5134.UNC16	UNF 1/2X20	1-16
S5134.B1820	B18	5-20
S5134.UNC20	UNF 1/2X 20	5-20



Llave Extractora DIN 228-B

Referencia	CM	Longitud
S03.107.01	1 Y 2	140
S03.107.03	3	190
S03.107.04	4	225



Tornillo para DIN 228

Referencia	Para Modelo	Rosca
S20.107.06	CM1	M-6
S20.107.10	CM2	M-10
S20.107.12	CM3	M-12
S20.107.16	CM4	M-16
S20.107.20	CM5	M-20



Tapón Refrigeración HSK

Referencia	Para Modelo
S05.HKS63	HSK-A63
S05.HKS100	HSK-A100



Llave para Tapón HSK

Referencia	Para Modelo
LL03.HSK63	HSK-A63
LL03.HSK100	HSK-A100



Soporte Básico Herramientas

Referencia	Para Modelo	Altura
S705.30	SK30 / BT30 / ISO30	134
S705.40	SK40 / BT40 / ISO40	132
S705.50	SK50 / BT50 / ISO50	175



Soporte Orientable Herramientas

Referencia	Para Modelo	Base	Altura
S706.30	SK30 – ISO30 – BT-30 – CAT30 HSK-A50 – CAPTO C5	150	160
S706.40	SK40 – ISO40 – BT-40 – CAT40 HSK-A63 – CAPTO C6	150	160
S706.50	SK50 – ISO50 – BT-50 – CAT50 HSK-A100 – CAPTO C10	200	210



Llaves para Pinzas ER/OZ

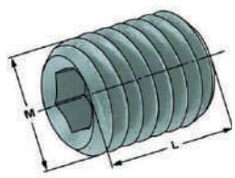






Referencia	Para Tuercas	D - Int
LL.01.OZ16	OZ16	40
LL.01.OZ25	OZ25	58
LL.01.OZ32	OZ32	68
LL.01.HKS20	HKS20	55-62
LL.01.HKS25	HKS25	55-62
LL.01.HKS32	HKS32	68-72
LL.02.ER8	ER8 MINI	7.5
LL.02.ER11	ER11 MINI	11
LL.02.ER16M	ER16 MINI	15
LL.02.ER20M	ER20 MINI	19.5
LL.02.ER16	ER16	26
LL.02.ER20	ER20	30
LL.02.ER25	ER25	37
LL.02.ER32	ER32	46,5
LL.02.ER40	ER40	58
LL.02.ER50	ER50	74

Tornillos Amarre Weldon DIN 1835B



NOTA: (Modelo S04.101.12.1)
No es norma DIN1835B

Referencia	Métrica	Long.	Para Diámetros
S04.101.06	M6	10	6
S04.101.08	M8	10	8
S04.101.10	M10	12	10
S04.101.12	M12	16	12 y 14
S04.101.12.1	M12x1	12	Modelos VDI-E1
S04.101.16	M14x2	16	16 y 18
S04.101.20	M16x2	16	20
S04.101.20.1	M16X1	8	-
S04.101.20.2	M16x1	10	-
S04.101.20.3	M16X1	12	-
S04.101.25	M18x2	20	25
S04.101.32	M20x2	20	32
S04.101.40	M20x2	25	40

Anillos Separadores para ejes portafresas DIN 2084-B

Referencia	AGUJERO EJE	DIÁMETRO EXTERIOR
S12.16 (ESP)	16	27
S12.22 (ESP)	22	34
S12.27 (ESP)	27	41
S12.32 (ESP)	32	47
S12.40 (ESP)	40	55

NOTA: (Esp.) Sustituir por el espesor 2-3-4-5-6-8-10-20-30 mm.
Ejemplo: Código: S12.27.10 - Anillo de 27 de agujero y espesor 10 mm



Tacos de Arrastre para ejes portafresas

- Se suministra un taco y un tornillo para su amarre

Referencia	Para Eje	Rosca	Dimensiones
S10.104.16	ø16	M-3	8x8x10
S10.104.22	Ø22	M-4	10X11X11
S10.104.27	Ø27	M-4	10X12X14.5
S10.104.32	Ø32	M-5	14X14X22
S10.104.40	Ø40	M-5	16X16X22.5
S10.104.60	Ø60	M-12	25.4X25.4X32.7



Referencia DTG-15	Referencia DTG-220	Referencia DTF-201
		
Dimensiones: 775 x 400 x 980 1 puerta doble con llave + 2 cajones con llave	Dimensiones: 500 x 400 x 980 1 cajón + 1 puerta con llave	Dimensiones: 600 x 450 x 880 4 cajones 100 mm y 1 cajón 200 mm

Referencia DTG-201	Referencia DTD40 / DTD50	Referencia DTH40 / DTH50
		
Dimensiones: 600 x 450 x 780 - Cajones: 4x100 y 1x200	Dimensiones: 600 x 600 x 1015 2 cajones + 1 cajón conos + base superior conos. Modelo para Conos 40 (DTD40) y Conos 50 (DTD50)	Dimensiones: 600 x 600 x 915 1 cajón + 1 cajón conos + base superior conos. Modelo para Conos 40 (DTH40) y Conos 50 (DTH50)

Referencia DTL40 / DTL50

Dimensiones: 450 x 600 x 915 4 cajones + base superior conos. Modelo para Conos 40 (DTL40) y para Conos 50 (DTL50)



Tamaño	Descripción	Referencia
Modelo 40	24 Soportes Superiores + 6/6 Inferiores	DTC40
Modelo 50	16 Soportes Superiores + 4/4 Inferiores	DTC50
Modelo A63	16 Soportes Superiores + 4/4 Inferiores	DTC63
Dimensiones: 920 x 475 x 775		

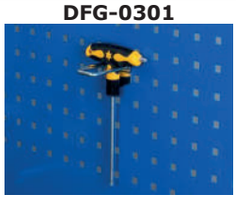
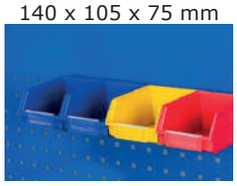
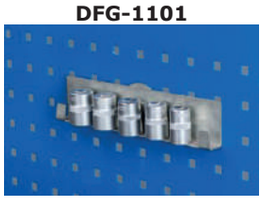
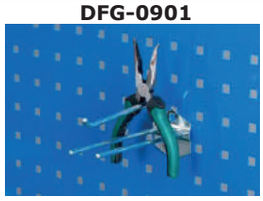


Descripción	Referencia
54 Soportes en 3 Niveles	DTE40
36 Soportes en 3 Niveles	DTE50
36 Soportes en 3 Niveles	DTE63
Dimensiones: 650 x 405 x 1545	



Descripción	Referencia
12 Soportes	S70930
12 Soportes	S70940
8 Soportes	S70950
8 Soportes	S70963
Dimensiones: 495 x 240 x 150	

Mesa de Trabajo DTJ1	Referencia: DTJ1
	• Mesa de Trabajo de gran resistencia. • Dimensiones: 1500 x 600 x 700. • Con tomas de corriente pre-configuradas en los laterales.
Mesa de Trabajo DTJ3	**Referencia: DTJ3**
	• Mesa de Trabajo de gran resistencia. • Dimensiones: 1500 x 600 x 700. • Con tomas de corriente pre-configuradas en los laterales. • Armario de 600 x 450 x 780 incorporado. • Cajones: 4x100 + 1x200.
Mesa de Trabajo DTJ4	**Referencia: DTJ4**
	• Mesa de Trabajo de gran resistencia. • Dimensiones: 1500 x 600 x 700. • Con tomas de corriente pre-configuradas en los laterales. • Panel frontal perforado de 450 mm de altura.
Mesa de Trabajo DTJ7	**Referencia: DTJ7**
	• Mesa de Trabajo de gran resistencia. • Dimensiones: 1500 x 600 x 700. • Con tomas de corriente pre-configuradas en los laterales. • Panel frontal perforado de 450 mm + 450 mm altura con balda superior.
Mesa de Trabajo DTJ9	**Referencia: DTJ9**
	• Mesa de trabajo de gran resistencia. • Dimensiones: 1500 x 600 x 700. • Con tomas de corriente pre-configuradas en los laterales. • Panel frontal perforado de 450 mm + 450 mm altura con balda superior. • Armario de 600 x 450 x 780 incorporado. • Cajones: 4x100 + 1x200.

Referencia	Referencia	Referencia	Referencia
DFG-0101 	**DFG-0201** 	**DFG-0301** 	**DFG-0401** 
DFG-0501 	**DFG-0601** 	**DFG-0701** 	**DFG-0801** 
DFG-1002 - ø6 	**DFG-1021 - ø73 m** 	**DFG-1023** 140 x 105 x 75 mm 	**DFG-1101** 
DFG-1203 25 x 72 mm 	**DFG-1602** (SK40) **DFG-1603** (SK50) 	**DFG-2101** 	**DFG-8101** 
DFG-0901 		Banda magnética para enganche de piezas. Max. 10-12 Kg. Ancho 24 mm.	

Código	Longitud (L)
DTQ-01	230 mm
DTQ-02	370 mm
DTQ-03	480 mm



Consulta Nuestro Catalogo General de Mobiliario

POLAK CZ

Plato Torno 3 /4 Garras Auto-Centrante

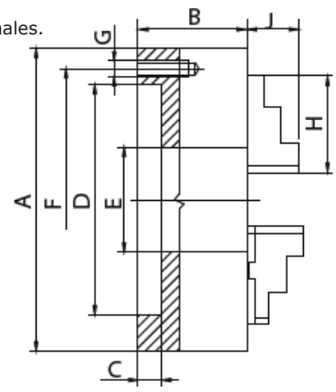
- El plato contiene 1 juego de garras duras int/ext y una llave de apriete. Se disponen juegos de garras blandas opcionales.
- Fabricado en acero. Alta Precisión. Según norma DIN 6350



Plato de 3 Garras



Plato de 4 Garras



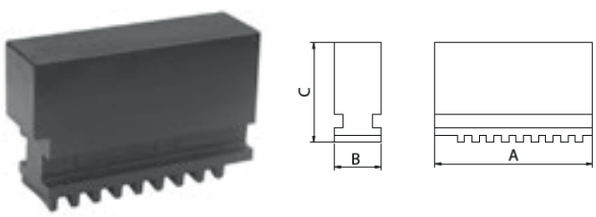
Plato 3 Garras

Referencia	A (ø) mm	B	C	D	E	F	G	H	J	RPM Máx.	Kg
ZNX3-125	125	56	4	95	32	108	3xM8	51	20	4800	5
ZNX3-160	160	64	4	125	42	140	6XM10	70	32	4500	10
ZNX3-200	200	75	4	160	55	176	6XM10	85	29	4000	17.5
ZNX3-250	250	85	5	200	76	224	6XM12	105	34	3500	29
ZNX3-315	315	94	5	260	103	286	6XM16	125	43	2800	50
ZNX3-400	400	105	5	330	136	362	6XM16	145	55	2000	85
ZNX3-500	500	120	5	420	190	458	6XM16	180	60	1200	145
ZNX3-630	630	135	7	545	252	586	6XM16	225	70	1000	250

Plato 4 Garras

Referencia	A (ø) mm	B	C	D	E	F	G	H	J	RPM Máx.	Kg
ZNX4-125	125	59.5	4	95	35.5	108	3xM8	51	20	4800	5
ZNX4-160	160	68	4	125	42	140	6XM10	70	32	4500	10
ZNX4-200	200	78	4	160	55	176	6XM10	85	29	4000	17.5
ZNX4-250	250	89	5	200	76	224	6XM12	105	34	3500	29
ZNX4-315	315	96.2	5	260	103	286	6XM16	125	43	2800	50
ZNX4-400	400	108	5	330	136	362	6XM16	145	55	2000	85
ZNX4-500	500	119	5	420	190	458	6XM16	180	60	1200	145

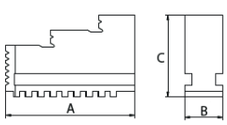
Garras Blandas Enterizas para Plato ZNX



Ref. 3 Garras	Ref. 4 Garras	Para Plato ø	A	B	C
GNXB-D1253	GNXB-D1254	125	51	20	40
GNXB-D1603	GNXB-D1604	160	70	20	53
GNXB-D2003	GNXB-D2004	200	85	25	54
GNXB-D2503	GNXB-D2504	250	105	28	63
GNXB-D3153	GNXB-D3154	315	125	32	73
GNXB-D4003	GNXB-D4004	400	145	36	92
GNXB-D5003	GNXB-D5004	500	180	40	100
GNXB-D6303	GNXB-D6304	630	225	50	110

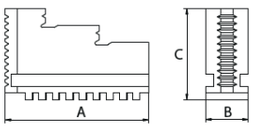
Garras Duras Enterizas para Plato ZNX





Modelo Garras Internas





Modelo Garras Externas

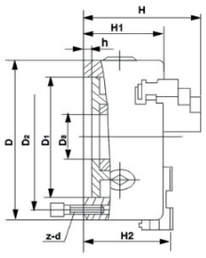
Ref. 3 Garras Internas	Ref. 4 Garras Internas	Para Plato ø	Ref. 3 Garras Externas	Ref. 4 Garras Externas
GNXI-D1253	GNXI-D1254	125	GNXE-D1253	GNXE-D1254
GNXI-D1603	GNXI-D1604	160	GNXE-D1603	GNXE-D1604
GNXI-D2003	GNXI-D2004	200	GNXE-D2003	GNXE-D2004
GNXI-D2503	GNXI-D2504	250	GNXE-D2503	GNXE-D2504
GNXI-D3153	GNXI-D3154	315	GNXE-D3153	GNXE-D3154
GNXI-D4003	GNXI-D4004	400	GNXE-D4003	GNXE-D4004
GNXI-D5003	GNXI-D5004	500	GNXE-D5003	GNXE-D5004

Nota: Garras blandas y duras compatibles con nuestros platos y los de BISON

Plato Torno 3 Garras Auto-Centrante

• Plato de Acero Fundición. El plato contiene 1 juego de garras duras y una llave de apriete. Se disponen juegos de garras blandas opcionales.



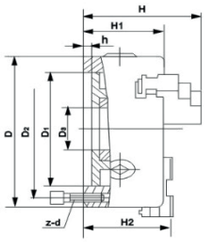


Referencia	D (ø) mm	D1	D2	D3	H	H1	h	z-d	Centrado	RPM Máx.	Kg
WAT-D80-3	80	55	66	16	66,56	50	4	3-M6	0,08	4000	2
WAT-D100-3	100	72	84	22	74,05	55	3	3-M8	0,08	3500	3
WAT-D125-3	125	95	108	30	84,5	58	4	3-M8	0,08	3000	5
WAT-D160-3	160	130	142	45	94	65	5	3-M8	0,08	2500	9
WAT-D200-3	200	165	180	65	109	75	5	3-M10	0,10	2000	16
WAT-D250-3	250	206	226	80	120	80	5	3-M12	0,10	1600	28
WAT-D315-3	315	260	285	100	147,5	90	6	3-M16	0,12	1200	47
WAT-D400-3	400	340	368	130	173,5	100	6	3-M16	0,12	1000	73
WAT-D500-3	500	440	465	210	202	115	6	6-M16	0,16	800	121
WAT-D630-3	630	545	586	252	220,5	135	7	6-M16	0,16	800	200

Plato Torno 4 Garras Auto-Centrante

• Plato de Acero Fundición. El plato contiene 1 juego de garras duras y una llave de apriete. Se disponen juegos de garras blandas opcionales.



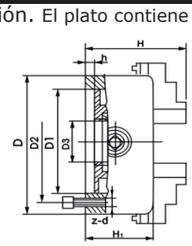


Referencia	D (ø) mm	D1	D2	D3	H	H1	h	z-d	Centrado	RPM Máx.	Kg
WAT-D80-4	80	55	66	16	66,56	50	4	3-M6	0,08	4000	2
WAT-D100-4	100	72	84	22	74,05	53,5	3	3-M8	0,08	3500	3
WAT-D125-4	125	95	108	30	84,5	58	4	3-M8	0,08	3000	5
WAT-D160-4	160	130	142	45	94	65	5	3-M8	0,08	2500	9
WAT-D200-4	200	165	180	65	109	75	5	3-M10	0,10	2000	16
WAT-D250-4	250	206	226	80	120	80	5	3-M12	0,10	1600	28
WAT-D315-4	315	260	285	100	147,5	90	6	3-M16	0,12	1200	47
WAT-D400-4	400	340	368	130	173,5	100	6	3-M16	0,12	1000	85
WAT-D500-4	500	440	465	210	202	115	6	6-M16	0,16	800	119

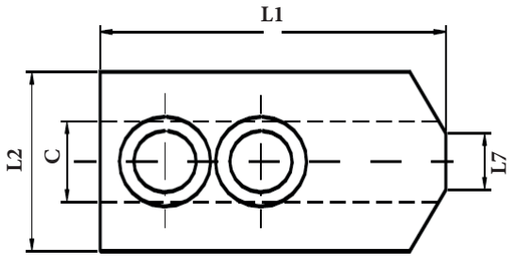
Plato Torno 6 Garras Auto-Centrante

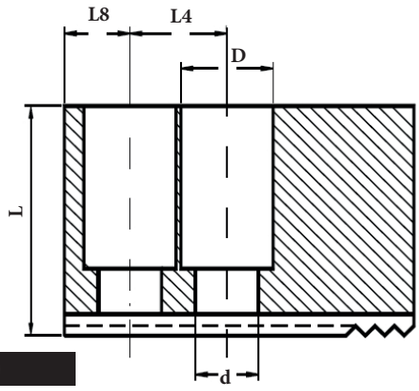
• Plato de Acero Fundición. El plato contiene 1 juego de garras duras y una llave de apriete. Se disponen juegos de garras blandas opcionales.





Referencia	D (ø) mm	D1	D2	D3	H	H1	h	z-d	Centrado	RPM Máx.	Kg
WAT-D100-6	100	72	84	26	74,5	55	3	3-M6	0,08	3500	3
WAT-D130-6	130	100	115	35	86,5	58	5	3-M8	0,08	3000	6
WAT-D165-6	165	130	145	45	94	65	5	3-M8	0,08	2500	9
WAT-D200-6	200	165	180	65	109	75	6	3-M10	0,10	2000	16
WAT-D252-6	252	206	226	80	120	80	6	3-M12	0,10	1600	26





Garras Blandas Torno (1/16 - 1.5" X 60º)

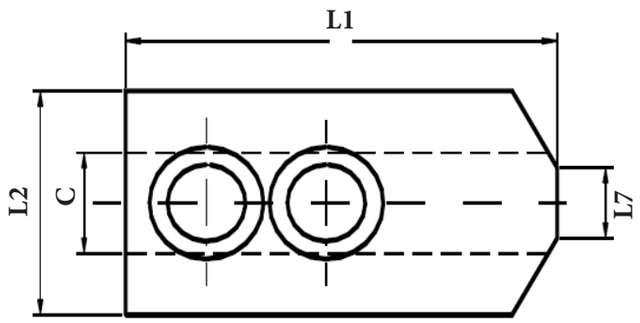
Para Modelo de 3 Garras - AUTOBLOCK

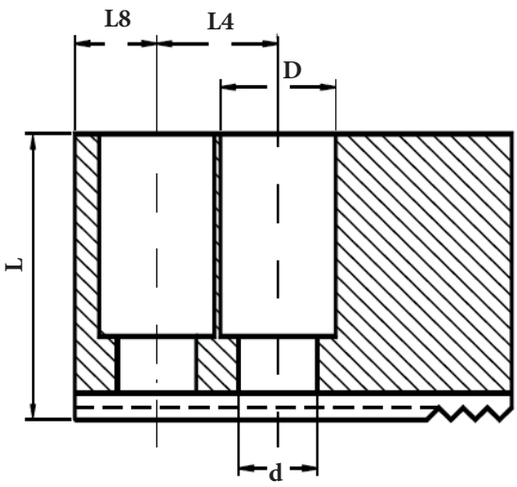
Referencia	ø Modelo	L1	L2	L	L8	L4	D	d	L7
AUT-125-30	ø125-130-140	60	30	30	15	16	13.5	9	5
AUT-125-45		60	30	45	15	16	13.5	9	5
AUT-125-60		60	30	60	15	16	13.5	9	5
AUT-165-37	ø165-170	70	35	37	16	16	17	11	10
AUT-165-55		70	35	55	16	16	17	11	10
AUT-165-68		70	35	68	16	16	17	11	10
AUT-200-40	ø200-210-220	90	40	40	20	23	19	13	12
AUT-200-50		90	40	50	20	23	19	13	12
AUT-200-60		90	40	60	20	23	19	13	12
AUT-200-70		90	40	70	20	23	19	13	12
AUT-200-90		90	40	90	20	23	19	13	12
AUT-250-55	ø250	110	45	55	20	30	25	17	16
AUT-250-75		110	45	75	20	30	25	17	16
AUT-250-95		110	45	95	20	30	25	17	16
AUT-250-110		110	45	110	20	30	25	17	16
AUT-305-50	ø305-315	125	50	50	22	30	25	17	16
AUT-305-60		125	50	60	22	30	25	17	16
AUT-305-70		125	50	70	22	30	25	17	16
AUT-305-90		125	50	90	22	30	25	17	16
AUT-400-60	ø400	140	60	60	25	34	25	17	-
AUT-400-68		140	60	88	25	34	25	17	-
AUT-400-118		140	60	118	25	34	25	17	-

Garras Blandas Torno (1/16" X 60º)

Para Modelo de 3 Garras - GALVEZ - HIDRAM

Referencia	ø Modelo	L1	L2	L	L8	L4	D	d	L7
GAH-130-40	ø130-140	65	30	40	10	15	13.5	8.5	5
GAH-130-65		65	30	65	10	15	13.5	8.5	5
GAH-160-48	ø160-200	75	38	48	14	19.5	19	13	12
GAH-160-62		75	38	62	14	19.5	19	13	12
GAH-16075		75	38	75	14	19.5	19	13	12
GAH-170-45	ø170	75	32	45	13	25	17	11	8
GAH-170-75		75	32	75	13	25	17	11	8
GAH-200-48	ø200	90	38	48	14	19.5	19	13	5
GAH-200-62		90	38	62	14	19.5	19	13	5
GAH-200-75		90	38	75	14	19.5	19	13	5
GAH-240-48	ø200-240	100	38	48	14	39	19	13	10
GAH-240-73		100	38	73	14	39	19	13	10
GAH-240-100		100	38	100	14	39	19	13	10
GAH-250-55	ø250-315	110	45	55	20	26	25	17	16
GAH-250-78		110	45	78	20	26	25	17	16
GAH-250-95		110	45	95	20	26	25	17	16
GAH-250-110		110	45	110	20	26	25	17	16
GAH-300-97	ø300-340-400	130	45	67	25	45	23	15	16
GAH-300-97		130	45	97	25	45	23	15	16
GAH-300-145		130	45	145	25	45	23	15	16

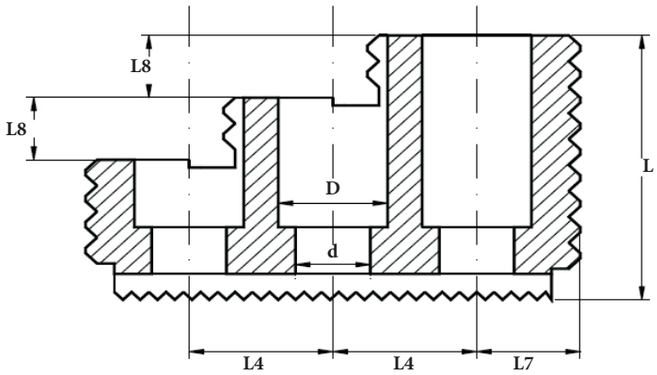


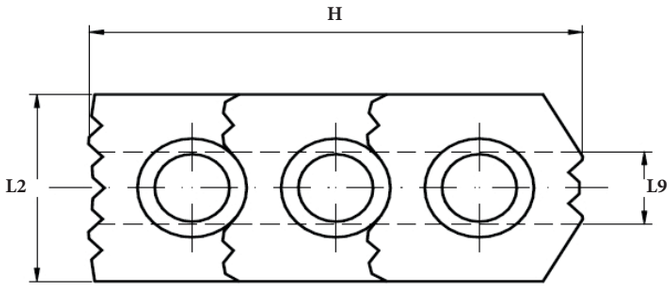


Garras Blandas Torno (1.5 X 60º)

Para Modelo de 3 Garras - KITAWAGA - STRONG

Referencia	ø Modelo	L1	L2	L	L8	L4	D	d	L7
KIS-4-27	4 Y 5" - Ø139	61	23	27	10	14	13.5	8.5	5
KIS-4-37		61	23	37	10	14	13.5	8.5	5
KIS-4-50		61	23	50	10	14	13.5	8.5	5
KIS-4-58		61	23	58	10	14	13.5	8.5	5
KIS-6-30	6" - ø 169	73	31	30	15	20	17	11	12
KIS-6-37		73	31	37	15	20	17	11	12
KIS-6-48		73	31	48	15	20	17	11	12
KIS-6-58		73	31	58	15	20	17	11	12
KIS-6-68		73	31	68	15	20	17	11	12
KIS-6-88		73	31	88	15	20	17	11	12
KIS-8-38	8" - ø 210	95	35	38	24	25	19	13	12
KIS-8-48		95	35	48	24	25	19	13	12
KIS-8-58		95	35	58	24	25	19	13	12
KIS-8-68		95	35	68	24	25	19	13	12
KIS-8-88		95	35	88	24	25	19	13	12
KIS-8-100		95	35	100	24	25	19	13	12
KIS-10-42	10" - ø 254	110	40	42	30	30	19	13	15
KIS-10-50		110	40	50	30	30	19	13	15
KIS-10-60		110	40	60	30	30	19	13	15
KIS-10-70		110	40	70	30	30	19	13	15
KIS-10-90		110	40	90	30	30	19	13	15
KIS-10-100		110	40	100	30	30	19	13	15
KIS-B212-50	12" - ø 305	115	50	50	25	30	25	17	20
KIS-B212-60	Modelo B-212	115	50	60	25	30	25	17	20
KIS-B212-70		115	50	70	25	30	25	17	20
KIS-B212-90		115	50	90	25	30	25	17	20
KIS-B212-120		115	50	120	25	30	25	17	20
KIS-B212-150		115	50	150	25	30	25	17	20
KIS-B12-50	12" - ø 305	130	50	50	40	30	23	15	15
KIS-B12-60	Modelo B-12	130	50	60	40	30	23	15	15
KIS-B12-70		130	50	70	40	30	23	15	15
KIS-B12-90		130	50	90	40	30	23	15	15
KIS-B12-120		130	50	120	40	30	23	15	15
KIS-B12-150		130	50	150	40	30	23	15	15





Garras Duras Torno (1.5" X 60º)

Para Modelo de 3 Garras - KITAGAWA

Referencia	ø Modelo	L1	L2	L	L7	L4	D	d	L9	L8
KI-GD4	KD4 - 4" KD5 - 5"	55	23	31	14	14	13.5	8.5	10	12
KI-GD6	KD-6 - 6"	67	32	36	13.5	20	17	11	12	12
KI-GD8	KD8 - 8"	86	36	51	18	25	19	13	14	12
KI-GD10	KD10 - 10"	100	40	54	17	30	19	13	16	12
KI-GDB121	KD12-B212 - 12"	115	50	72	25	30	25	17	21	17
KI-GDB12	KD12 / B12 - 12"	115	50	72	25	30	23	15	18	17
KI-GD15	KD15 - 15"	150	62	86	35	43	32	21	22	20

Garras Duras Torno (1.5" X 60º - 1/16")

Para Modelo de 3 Garras - AUTOBLOCK

Referencia	ø Modelo	L1	L2	L	L7	L4	D	d	L9	L8
AUT-GD200	Ø200-210	90	40	48	27	23	19	13	17	12
AUT-GD250	Ø250	110	50	58	28	30	25	17	21	12
AUT-GD305	Ø305-315	115	50	72	25	30	25	17	21	17

Garras Duras Torno (1/16")

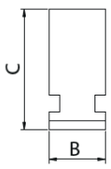
Para Modelo de 3 Garras - GALVEZ - HIDRAM

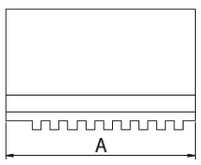
Referencia	ø Modelo	L1	L2	L	L7	L4	D	d	L9	L8
GAH-GD160	160-200	90	40	48	34	19.5	19	13	17	12
GAH-GD250	250-315	101	50	58	31	25	25	17	21	12

Garras Blandas Enterizas para Plato WAT

- Set compuesto por 3/4 garras enterizas para platos modelos WAT.
- Fabricados en material C-45.



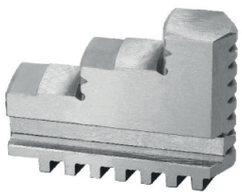


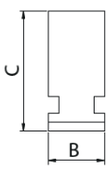


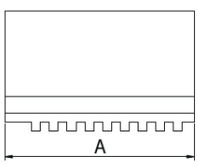
Ref. 3 Garras	Ref. 4 Garras	Para Plato ø	A	B	C
D80-3-MB	D80-4-MB	80	32	12	33
D100-3-MB	D100-4-MB	100	42	15	38
D125-3-MB	D125-4-MB	125	56	16	45
D160-3-MB	D160-4-MB	160	70	18,5	54
D200-3-MB	D200-4-MB	200	85	22	61
D250-3-MB	D250-4-MB	250	105	27	69
D315-3-MB	D315-4-MB	315	130	36	91
D400-3-MB	D400-4-MB	400	138	36	91
D500-3-MB	D500-4-MB	500	180	46	100

Garras Duras Enterizas para Plato WAT

- Set compuesto por 3/4 garras enterizas para platos modelos WAT.
- Disponible el Juego de Interiores o de Exteriores.







Ref. 3 Garras Externas	Ref. 4 Garras Externas	Para Plato ø	Ref. 3 Garras Internas	Ref. 4 Garras Internas
D80-3-BB	D80-4-BB	80	D80-3-DB	D80-4-DB
D100-3-BB	D100-4-BB	100	D100-3-DB	D100-4-DB
D125-3-BB	D125-4-BB	125	D125-3-DB	D125-4-DB
D160-3-BB	D160-4-BB	160	D160-3-DB	D160-4-DB
D200-3-BB	D200-4-BB	200	D200-3-DB	D200-4-DB
D250-3-BB	D250-4-BB	250	D250-3-DB	D250-4-DB
D315-3-BB	D415-4-BB	315	D315-3-DB	D415-4-DB
D400-3-BB	D400-4-BB	400	D400-3-DB	D400-4-DB

Llave Amarre de Plato de Torno

- Consultar previamente el cuadradillo necesario, algunos modelos de platos no tienen la condificacion estándar y el cuadradillo es diferente.

Referencia	Para Plato (Según fabricante)	Cuadradillo
LL-PL80	80	6
LL-PL100125	100-125	9
LL-PL160200	160-200	11
LL-PL250315	250-315	14
LL-PL400	400	17
LL-PL500630	500-630	19
LL-PL800	800	19



Plato Hidráulico - 2 Garras

- El plato contiene: 1 juego de garras blandas - 1 juego de tuercas T y una llave de apriete.

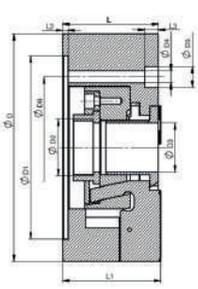
Referencia	D	D1	D2	D3	D4	D5	D6	L	L1	L2	L3	L4
OZ602	169	140	M55X2	45	12	17	10480	81	83	5	12	32
OZ802	210	170	M60X2	52	14	20	13340	91	93	5	18	38
OZ102	254	220	M85X2	75	18	26	17140	100	102	5	18	41
OZ122	305	280	M100X2	85	18	26	17140	110	112	6	18	51



Datos Técnicos

Código	Apriete Garra	Vel. Máx.	Máx.	Máx. Fuerza Amarre	Amarre	Nº Flanco	ø Min-Máx.	Peso
OZ602	5.5	6000	15KN	38KN	13	A5	12-169	10
OZ802	7.3	5000	23KN	57KN	17	A6	12-210	20
OZ102	8.5	4200	25KN	74KN	20	A8	28-254	30
OZ122	8.5	3300	37KN	96KN	20	A8	32-305	46

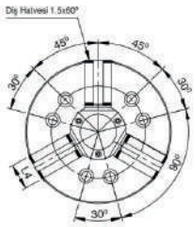


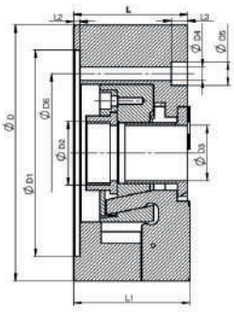


Plato Hidráulico - 3 Garras

• El plato contiene: 1 juego de garras blandas - 1 juego de tuercas T y una llave de apriete. Garras duras opcionales modelos S050 a S0150.







Código	D	Código
OZ503	169	OZ50-3
OZ603	210	OZ60-3
OZ803	254	OZ80-3
OZ103	305	OZ10-3
OZ123	381	OZ12-3

Modelos acabados en -3 contienen:
- Juego de garras blandas
- Juego de garras duras
- Juego de tuercas T
- Llave de apriete

Modelo	D	D1	D2	D3	D4	D5	D6	L	L1	L2	L3	L4
OZ503	135	110	M40X1.5	33	12	17	8260	62	64	4	12	24
OZ603	169	140	M55X2	45	12	17	10480	81	83	5	12	32
OZ803	210	170	M60X2	52	14	20	13340	91	93	5	18	38
OZ103	254	220	M85X2	75	18	26	17140	100	102	5	18	41
OZ123	305	280	M100X2	85	18	26	17140	110	112	6	18	51
OZ153	381	300	M130X2	120	22	32	235	134	138	6	22	62

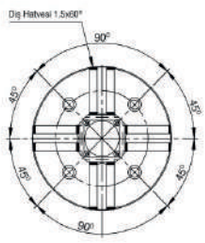
- Datos Técnicos -

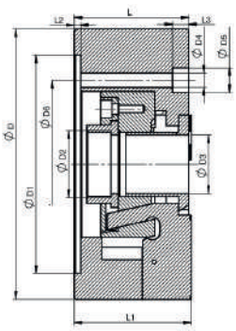
Código	Apriete Garra	Vel. Máx.	Máx.	Máx. Fuerza Amarre	Amarre	Nº Flanco	ø Min-Máx.	Peso
OZ503	5.5	7000	17KV	36KV	10	A4	11-135	7
OZ603	5.5	6000	21KV	56KV	13	A5	12-169	10
OZ803	7.3	5000	35KV	85KV	17	A5-A6	12-210	20
OZ103	8.5	4500	42KV	110KV	20	A6-A8	28-254	30
OZ123	8.5	3500	54KV	143KV	20	A8	32-305	46
OZ153	10.6	2500	71KV	179KV	23	A8-A11	45-381	120

Plato Hidráulico - 4 Garras

• El plato contiene: 1 juego de garras blandas - 1 juego de tuercas T y una llave de apriete. Garras duras opcionales modelos S064 a S0154.







Código	D	Código
OZ604	169	OZ604-4
OZ804	210	OZ804-4
OZ104	254	OZ104-4
OZ124	305	OZ124-4
OZ154	381	OZ154-4

Modelos acabados en -4 contienen:
- Juego de garras blandas
- Juego de garras duras
- Juego de tuercas T
- Llave de apriete

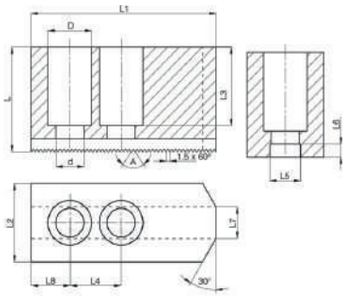
Modelo	D	D1	D2	D3	D4	D5	D6	L	L1	L2	L3	L4
OZ604	169	140	M55X2	45	12	17	10480	62	83	5	12	32
OZ804	210	170	M60X2	52	14	20	13340	81	93	5	18	38
OZ104	254	220	M85X2	75	18	26	17140	91	102	5	18	41
OZ124	305	280	M100X2	85	18	26	17140	100	112	6	18	51
OZ154	381	300	M130X2	120	22	32	235	110	138	6	22	62

- Datos Técnicos -

Código	Apriete Garra	Vel. Máx.	Máx.	Máx. Fuerza Amarre	Amarre	Nº Flanco	ø Min-Máx.	Peso
OZ604	5.5	6000	15KV	38KV	13	A5	12-169	10
OZ804	7.3	5000	23KV	57KV	17	A6	12-210	20
OZ104	8.5	4200	28KV	74KV	20	A8	28-254	30
OZ124	8.5	3300	37KV	96KV	20	A8	32-305	46
OZ154	10.6	2500	43KV	120KV	23	A8-A11	45-381	120

Garras Blandas - Plato hidráulico





Garras Estándar (1.5 x 60º) - Set de 3 Garras

Referencia	ø Modelo	L	L1	L2	L3	L4	L5	L6	L7	L8	D	d
YU-050	5″ - ø 135	30	62	25	21	14	10	4	5	10	14	9
YU-060	6″ - ø 169	32	72	30	20	20	12	5	10	15	17	11
YU-080	8″ - ø 210	37	95	35	22	25	14	5	12	25	19	13
YU-0100	10″ - ø 254	42	110	40	29	30	16	5	14	30	19	13
YU-0120	12″ - ø 305	52	130	50	32	30	18	5	16	30	23	15
YU-01200	12″ - ø 305	52	130	50	32	30	21	5	18	30	25	17
YU-0150	15″ - ø 381	60	165	60	40	43	22	8	20	37	32	21
YU-02100	21″ - ø533	70	180	65	45	60	25	9	-	40	32	21

(*) Excepto Modelo **ø** 21″ - 3.0x60ª

Garras Estándar (1.5 x 60º) - Set de 4 Garras

Referencia	ø Modelo	L	L1	L2	L3	L4	L5	L6	L7	L8	D	d
YU-460	6″ - ø 169	32	72	30	21	20	12	5	10	15	17	11
YU-480	8″ - ø 210	37	95	35	20	25	14	5	12	25	19	13
YU-1004	10″ - ø 254	42	110	40	22	30	16	5	14	30	19	13
YU-124	12″ - ø 305	52	130	50	29	30	18	5	16	30	23	15
YU-1240	12″ - ø 305	52	130	50	32	30	21	5	18	30	25	17
YU-154	15″ - ø 381	60	165	60	32	43	22	8	20	37	32	21

Garras Modelo Largo Longitud (1.5 x 60º) - Set de 3 Garras

Referencia	ø Modelo	L	L1	L2	L3	L4	L5	L6	L7	L8	D	d
EU-060	6″ - ø 169	32	90	30	22	20	12	5	10	15	17	11
EU-080	8″ - ø 210	37	115	35	22	25	14	5	12	25	19	13
EU-0100	10″ - ø 254	42	130	40	29	30	16	5	14	30	19	13
EU-01200	12″ - ø 305	52	150	50	32	30	18	5	16	30	23	15
EY-0150	15″ - ø 381	60	190	60	40	43	22	8	20	37	32	21
EU-02100	21″ - Ø533	70	200	65	45	60	25	9	-	40	32	21

(*) Excepto Modelo ø 21″ - 3.0x60ª

Garras Modelo Alto (1.5 x 60º) - Set de 3 Garras

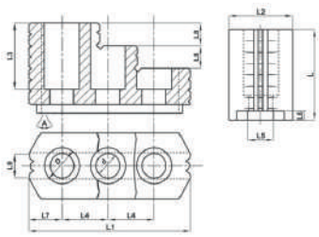
Referencia	ø Modelo	L	L1	L2	L3	L4	L5	L6	L7	L8	D	d
Y-060	6″ - ø 169	57	72	30	47	20	12	5	10	15	17	11
Y-080	8″ - ø 210	67	95	35	50	25	14	5	12	25	19	13
Y-0100	10″ - ø 254	77	110	40	60	30	16	5	14	30	19	13
Y-0120	12″ - ø 305	77	130	50	55	30	18	5	16	30	23	15
Y-01200	12″ - ø 305	77	130	50	55	30	21	5	16	30	25	17
Y-0150	15″ - ø 381	100	165	60	60	43	22	8	20	37	32	21

Referencia	ø Modelo	L	L1	L2	L3	L4	L5	L6	L7	L8	D	d
EY-08100	8″ - ø 210	100	95	35	50	25	14	5	12	25	19	13
EY-08120	8″ - ø 210	120	95	35	50	25	14	5	12	25	19	13
EY-08130	8″ - ø 210	130	95	35	50	25	14	5	12	25	19	13
EY-10100	10″ - ø 254	100	110	40	50	30	16	5	14	30	19	13
EY-10120	10″ - ø 254	120	110	40	50	30	16	5	14	30	19	13
EY-10130	10″ - ø 254	130	110	40	50	30	16	5	14	30	19	13
EY-12100	12″ - ø 305	100	130	50	50	30	21	5	16	30	25	17
EY-12120	12″ - ø 305	120	130	50	50	30	21	5	16	30	25	17
EY-12130	12″ - ø 305	130	130	50	50	30	21	5	16	30	25	17
EY-15130	15″ - ø 381	130	165	60	65	43	22	8	20	37	32	21
EY-15150	15″ - ø 381	150	165	60	65	43	22	8	20	37	32	21

Modelo Pulgadas 1/16 x 90º - Set 3 Garras | Modelo YR Compatible con Ro... | Modelo YA compatible con Aut...

Referencia	ø Modelo	L	L1	L2	L3	L4	L5	L6	L7	L8	D	d
YR-6	6″ - ø 169	40	72	35	30	19	17	5	17	12	19	13
YR-8	8″ - ø 210	45	90	40	30	19	17	5	17	20	19	13
YR-10	10″ - ø 254	55	110	45	40	25	21	5	21	25	25	17
YR-12	12″ - ø 305	55	120	50	40	25	21	5	21	30	25	17
YA-16	6″ - ø 169	35	70	30	25	16	14	5	14	16	17	11
YA-18	8″ - ø 210	40	90	35	30	23	17	5	17	20	19	13
YA-10	10″ - ø 254	45	110	45	33	30	21	6	21	20	25	17
YA-12	12″ - ø 305	50	125	50	38	30	21	6	21	22	25	17





Garras Duras Torno (1.5 X 60º)

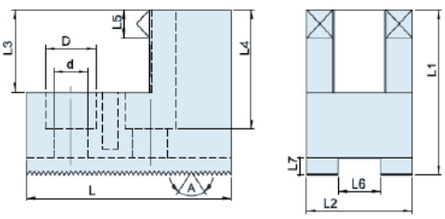
Para Modelo de 3 Garras

Referencia	ø Modelo	L	L1	L2	L3	L4	L5	L6	L7	L8	L9	D	d
S050	5" - ø 135	28	53	23	19	14	10	4	14	10	6	14	9
S060	6" - ø 169	36	72	30	25	20	12	5	17	10	11	17	11
S080	8" - ø 210	47	90	35	35	25	14	5	19	11	13	19	13
S0100	10" - ø 254	58	102	40	42	30	16	5	25	14	16	19	13
S0120	12" - ø 305	63	110	50	48	30	21	5	20	15	19	25	17
S0150	15" - ø 381	87	150	62	63	43	22	8	34	20	21	32	21

Para Modelo de 4 Garras

Referencia	ø Modelo	L	L1	L2	L3	L4	L5	L6	L7	L8	L9	D	d
S064	6" - ø 169	36	72	30	25	20	12	5	22	9	11	17	11
S084	8" - ø 210	48	90	35	35	25	14	5	28	11	13	19	13
S0104	10" - ø 254	58	100	40	42	30	16	5	30	14	15	19	13
S0124	12" - ø 305	63	110	50	45	30	21	5	30	15	20	25	17
S0154	15" - ø 381	82	150	62	58	43	22	8	24	20	21	32	21

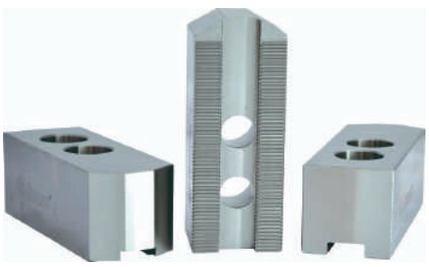


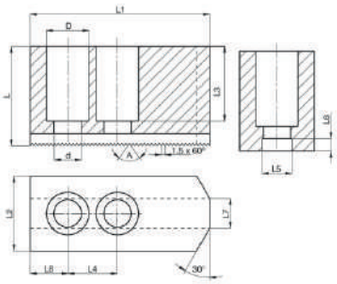


Garras Duras Torno - Con Tope (1.5 X 60º)

Referencia	Rango	ø Modelo	L	L1	L2	L3	L4	L5	L6	L7	D	d
ST080110	80-110	6" - ø 169	58	37	30	14	25	7	12	5	17	11
ST110135	110-135	8" - ø 210	67	48	35	22	33	8.5	14	5	19	13
ST155190	155-190	10" - ø 254	72	58	40	29	42	10	16	6	19	13
ST135195	135-195	12" - ø 305	90	63	50	30	41	12.5	21	6	25	17
ST110140	110-140	6" - ø 169	59	37	30	14	25	7	12	5	17	11
ST135165	135-165	8" - ø 210	76	48	35	22	35	8.5	14	5	19	13
ST185220	185-220	10" - ø 254	77	58	40	29	42	10	16	6	19	13
ST195260	195-260	12" - ø 305	88	63	50	30	48	12.5	21	6	25	17

(*) Garras especiales bajo fabricación

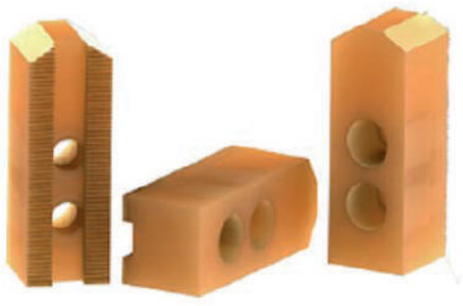


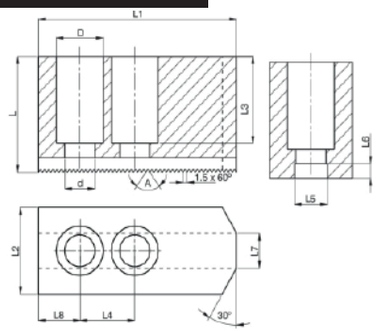


Garras Blandas Aluminio (1.5 X 60º)

Referencia	Plato	L	L1	L2	L3	L4	L5	L6	L7	L8	D	d
AL66006	6" - ø 169	32	72	30	22	20	12	5	10	15	17	11
AL66008	8" - ø 210	37	95	35	22	25	14	5	12	25	19	13
AL66010	10" - ø 254	42	110	40	29	30	16	5	14	30	19	13
AL66012	12" - ø 305	52	130	50	32	30	21	5	16	30	25	17

Garras Blandas Plástico (1.5 X 60º)





Referencia	Plato	L	L1	L2	L3	L4	L5	L6	L7	L8	D	d
KY66006	6” - ø 169	32	72	30	22	20	12	5	10	15	17	11
KY66008	8” - ø 210	37	95	35	22	25	14	5	12	25	19	13
KY66010	10” - ø 254	42	110	40	29	30	16	5	14	30	19	13
KY66012	12” - ø 305	52	130	50	32	30	21	5	16	30	25	17

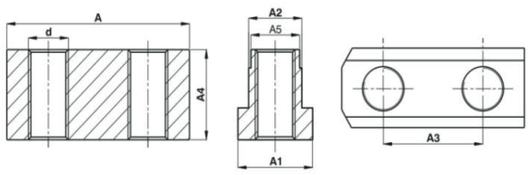
T De de Amarre para Garras Torno - Estándar - 3 Juegos

Referencia	Modelo	A	A1	A2	A3	A4	A5	d
AT100	5” - ø 135	26	15	10	14	15	-	M-8
AT101	6” - ø 169	36	17	12	20	18.5	-	M-10
AT102	8” - ø 210	46.5	20.5	14	25	20.5	-	M-12
AT104	10” - ø 254	51	22.5	16	30	21.5	-	M-12
AT106	12” - ø 305	55.5	26.5	18	30	33.5	-	M-14
AT107	12” - ø 305	55.5	29.5	21	30	27.5	-	M-16
AT108	15” - ø 381	80	33.5	24	43	45.5	22	M-20
AT15	15” - ø 381	80	35	25.5	43	41	22	M-20



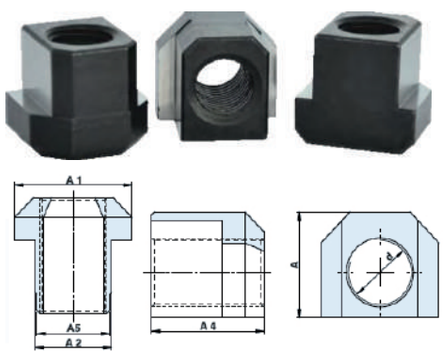
T De de Amarre para Garras Torno - Estándar - 4 Juegos

Referencia	Modelo	A	A1	A2	A3	A4	A5	d
AT114	6” - ø 169	36	17	12	20	18.5	-	M-10
AT115	8” - ø 210	46.5	20.5	14	25	20.5	-	M-12
AT116	10” - ø 254	51	22.5	16	30	21.5	-	M-12
AT117	12” - ø 305	55.5	26.5	18	30	33.5	-	M-14
AT118	12” - ø 305	55.5	29.5	21	30	27.5	-	M-16
AT119	15” - ø 381	80	33.5	24	43	45.5	22	M-20
AT154	15” - ø 381	80	35	24	43	41	22	M-20



Tuercas T Amarre Plato Torno (Cortas)

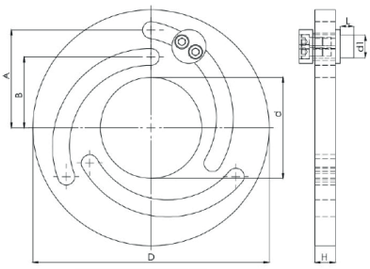
Referencia	Modelo	A	A1	A2	A4	A5	d
AT610	6” - ø 169	17	17	12	18.5	-	M-10
AT810	8” - ø 210	20	20.5	14	20.5	-	M-12
AT110	10” - ø 254	21	22.5	16	21.5	-	M-12
AT120	12” - ø 305	26	26.5	18	33.5	-	M-16
AT122	12” - ø 305	26	29.5	21	27.5	-	M-20
AT123	15” - ø 381	35	33.5	24	45.5	22	M-20
AT210	21” - ø 533	46	37.5	25	45	-	M-20



Soporte Para Torneado de Garras

Referencia	D	d	A	B	H	L	D1
S505	140	60	58	42	12	8	13.5
S605	168	80	72	52	12	8	16.5
S805	218	115	94	72	13	8	18.5
S1005	255	150	112.5	87.5	13	8	18.5
S1205	316	185	137	107	15	8	21.5
S1505	380	230	166	138	20	15	31

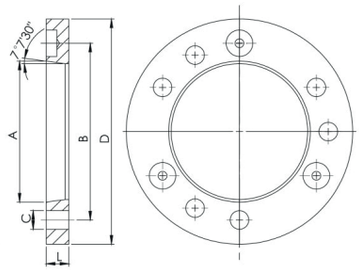




Brida para Platos Hidráulicos

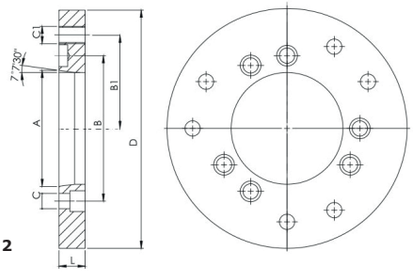


Modelo 1





Modelo 2

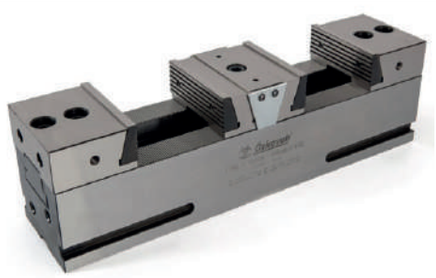


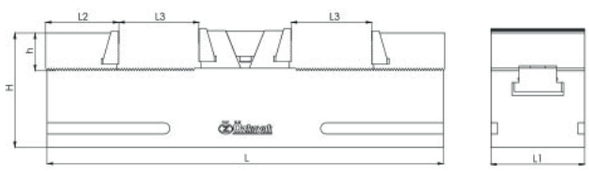
Referencia	No	D	A	B	C	L
AF5005	A4	110	63.513	82.6	12	13
AF6006	A5	140	82.563	104.8	12	17
AF8008	A6	170	106.375	133.4	14	17
AF1010	A8	220	139.719	171.4	18	18
AF1212	A8	280	139.719	171.4	18	21
AF1515	A11	300	196.869	235	22	21

Modelo 2

Referencia	No	D	A	B	C	B1	C1	L
AF5006	A4	140	63.513	82.6	12	104.8	M10	20
AF6008	A5	170	82.563	104.8	12	133.4	M12	24
AF8010	A6	220	106.375	133.4	14	171.4	M16	24
AF1012	A8	280	139.719	171.4	18	235	M16	30
AF1215	A8	300	139.719	171.4	18	235	M20	40

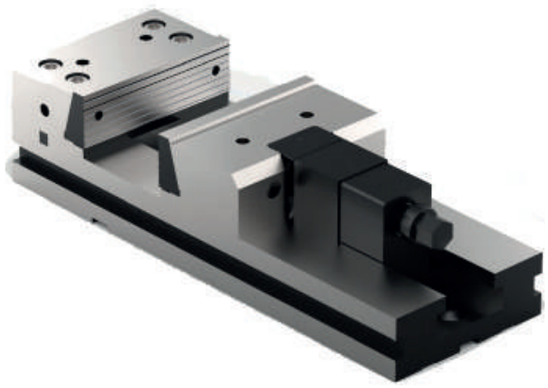
Mordaza Hidráulica Dos Bocas

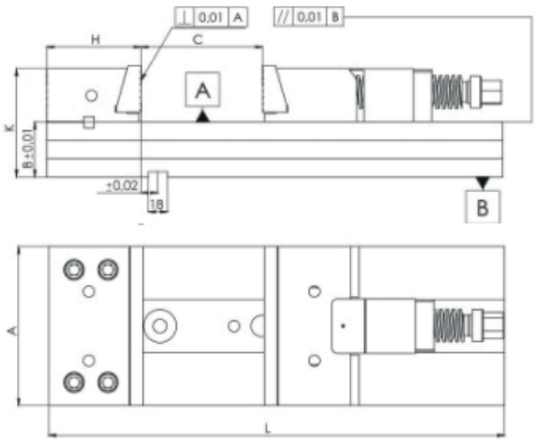




Referencia	L	L1	L2	L3	H	h	Máx. Fuerza	Peso
HM10085	423	100	78	85	123	40	3250KGF/CM2	30

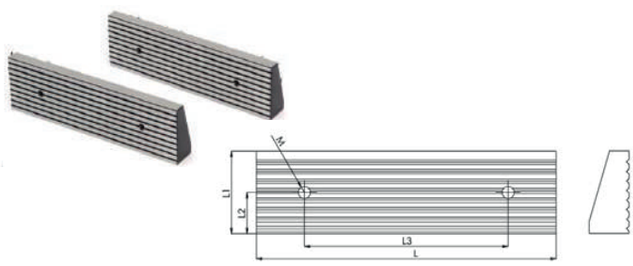
Mordaza de Precisión





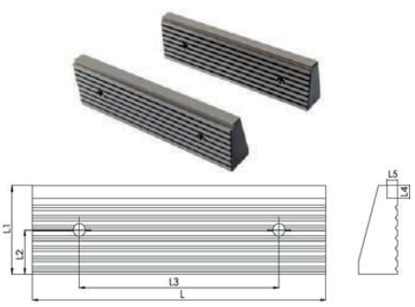
Referencia	A	C	H	B	K	L	KGF	KG
CTM12513	125	130	79	40	80	335	3200	12.8
CTM15020	150	200	89	52	102	430	4300	38.5
CTM15030	150	300	89	52	102	530	4300	43.5
CTM17530	175	300	97	60	120	560	4300	50.8
CTM20030	200	300	110	65	128	575	4500	73.2
CTM20040	200	400	100	65	128	675	4500	81.2

Bocas para Mordaza CTM - Estándar



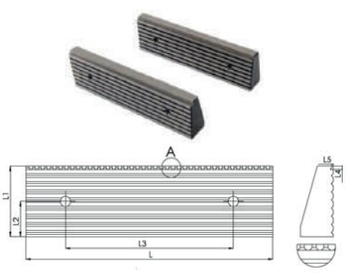
Referencia	L	L1	L2	L3	M
CT0126	125	34.5	17	85	M5
CT0151	150	44	22	95	M5
CT0176	175	50	25	105	M6
CT0201	200	53	26	135	M6

Bocas para Mordaza CTM - Escalonada



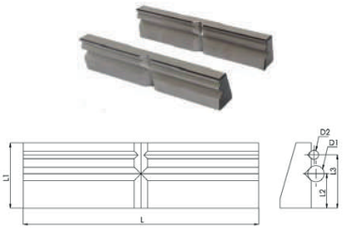
Referencia	L	L1	L2	L3	L4	L5	M
CT0132	125	34.5	17	85	3	3	M5
CT0157	150	44	22	95	3	3	M5
CT0182	175	50	25	105	3	3	M6
CT0207	200	53	26	135	3	3	M6

Bocas para Mordaza CTM - Dentada



Referencia	L	L1	L2	L3	L4	L5	M
CT0130	125	34.5	17	85	3	3	M5
CT0155	150	44	22	95	3	3	M5
CT0180	175	50	25	105	3	3	M6
CT0205	200	53	26	135	3	3	M6

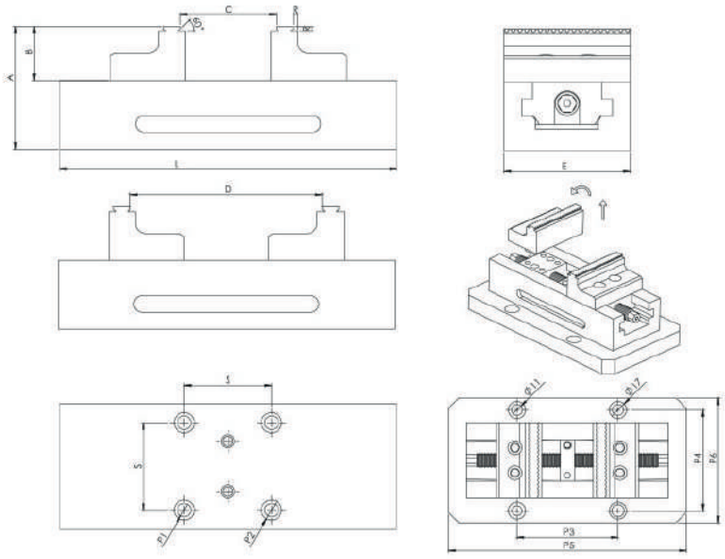
Bocas para Mordaza CTM - Prismática



Referencia	L	L1	L2	L3	D1	D2
CT0131	125	34.5	18	28	7-36	4-50
CT0156	150	44	24	37	11-48	6-65
CT0181	175	50	28	42	8-56	7-75
CT0206	200	53	29	44	10-60	8-80

Mordaza de Precisión 5X

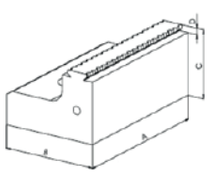




Referencia	CNX75100	CNX75150	CNX75200	CNX100150	CNX100350	CNX125220	CNX125270	CNX125320
L	185	235	285	200	350	250	300	350
A	73	73	73	90	90	100	100	100
B	32	32	32	35	35	40	40	40
C-Min-Máx.	0-100	0-150	0-200	0-100	0-250	0-135	0-185	0-235
C-Min-Máx.	65-150	65-200	65-250	75-150	75-300	95-220	95-275	95-320
E	75	75	75	100	100	125	125	125
R	3	3	3	3	3	3	3	3
S	52	52	52	75	75	100	100	100
P1	M8	M8	M8	M10	M10	M10	M10	M10
P2	12	12	12	16	16	16	16	16
P3	100	100	100	100	100	100	100	100
P4	100	100	100	125	125	150	150	150
P5	180	235	285	200	350	250	300	350
P6	124	124	124	144	144	175	175	175

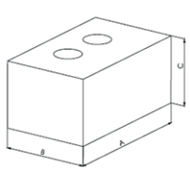
Recambios para Modelo Mordaza 5X

Garras Duras Para 5X



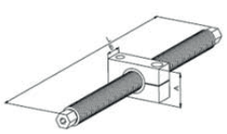
Referencia	75051	10051	12551
A	75	100	125
B	45	55	60
C	32	35	40
D	3	3	3

Garras Blandas Para 5X



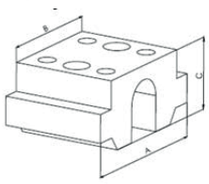
Referencia	75052	10052	12552
A	75	100	125
B	60	70	80
C	32	35	40

Recambio Husillo - 5X



Referencia	75185	75235	75285	100200	10350	125250	125300	125350
L	182	235	285	200	350	250	300	350
A	25	25	25	345	345	39	39	39
B	14	14	14	18	18	19	19	19

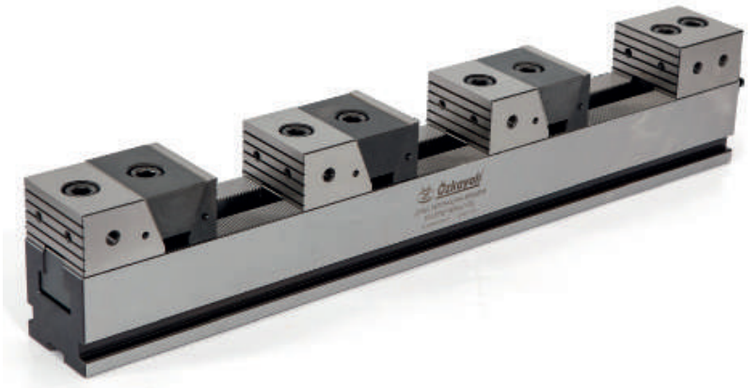
Separador Base - 5X

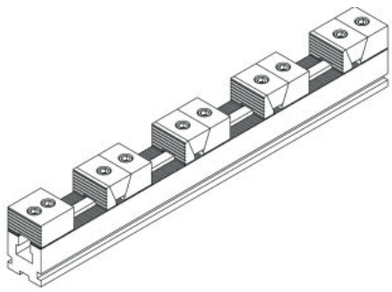


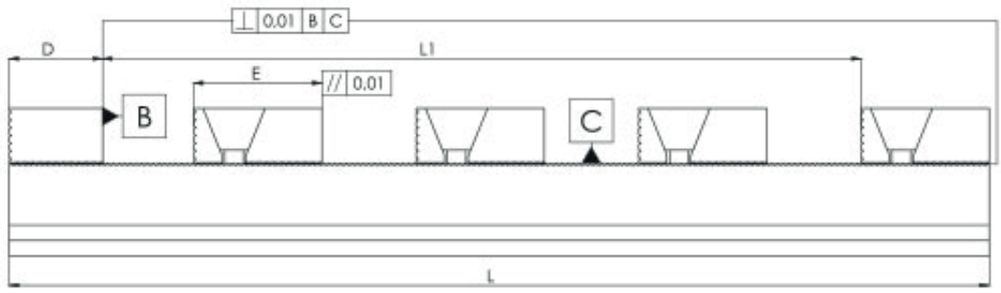
Referencia	7556R	7556L	10056R	10056L	12556R	12556L
A	54	54	72	72	85	85
B	41	41	55	55	67	67
C	25	25	33.5	33.5	37	37
ACC.	Derecha	Izquierda	Derecha	Izquierda	Derecha	Izquierda

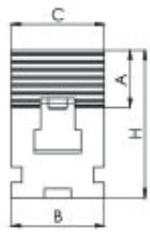
Mordaza Múltiples Amarres

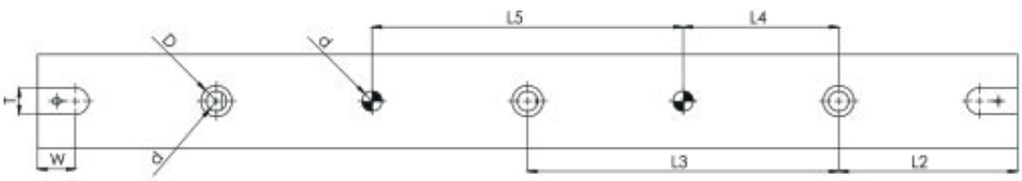
• La mordaza se suministra con el cuerpo principal, 1 juego de garras y 3 bloques de amarre (para poder amarrar 1+1 pieza)











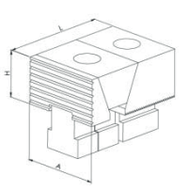
Referencia	L	L1	L2	L3	L4	L5	A	B	C	D	E	H	W	T	PASO	KN	KG
CSM60300	300	160	50	200	100	-	35	60	60	60	83	95	24.5	16	3X60º	20	15
CSM60450	450	560	125	200	100	-	35	60	60	60	83	95	24.5	16	3X60º	20	18
CSN70400	400	260	100	200	100	200	40	70	70	60	83	100	24.5	16	3X60º	20	23
CSM70600	600	560	100	200	100	100	40	70	70	60	83	100	24.5	16	3X60º	20	28

Datos Técnicos

Piezas a Trabajar	CSM60300	CSM60450	CSM70400	CSM70600
1	157 mm	307 mm	257 mm	457 mm
2	37 mm	112 mm	87 mm	187 mm
3	-	20 mm	-	97 mm
4	-	-	-	52 mm
5	-	-	-	25 mm

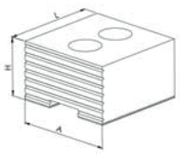
Accesorios para Mordaza - Serie CMS

Garras Duras



Referencia	A	H	L
CSY600	60	35	81
CSY700	70	40	83

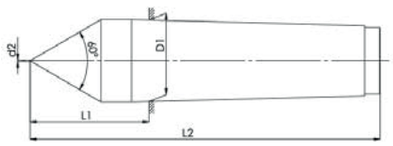
Garras Blandas



Referencia	A	H	L
CSY610	60	60	81
CSY710	70	60	83

Punto Fijo 60º

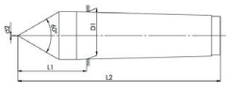




Referencia	Cono Morse	D1	d2	L1	L2
SP100	2	18	0.8	36	100
SP110	3	24.1	0.8	44	125
SP120	4	31.6	1	57	160
SP130	5	44.7	1.5	70	200
SP138	6	63.348	2	88	270

Punto Fijo 60º - MD

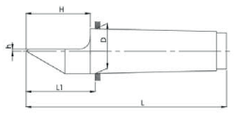




Referencia	Cono Morse	D1	d2	L1	L2
ES200	2	18	7	36	100
ES210	3	24.1	11	44	125
ES220	4	31.6	14	57	160
ES230	5	44.7	18	70	200

Punto Fijo - Punta Parcial

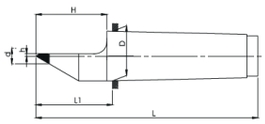




Referencia	Cono Morse	D1	d2	L1	L2
ES200	2	18	7	36	100
ES210	3	24.1	11	44	125
ES220	4	31.6	14	57	160
ES230	5	44.7	18	70	200

Punto Fijo - Punta Parcial Metal Duro

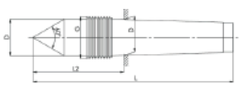




Referencia	Cono Morse	H	L1	h	D	L	d
ESD100	2	40	41	2	18	110	7
ESD110	3	60	64	3	24.1	150	11
ESD120	4	70	71	3	180	180	14

Punto Fijo 60 con Tuerca Hexagonal

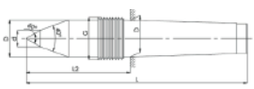




Referencia	CM	D	d	L1	L2	L	G
SP136	3	24.10	8	-	56	149	M27x1.5
SP137	4	31.60	-	-	71	175	M36x1.5
SP150	5	45	-	-	95	217	M48x1.5

Punto Fijo 60/40º con Tuerca Hexagonal

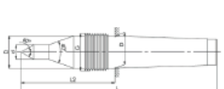




Referencia	CM	D	d	L1	L2	L	G
SP140	3	24.10	8	-	56	149	M27x1.5
SP141	4	31.60	14	-	71	175	M36x1.5
SP155	5	45	16	-	95	217	M48x1.5

Punto Fijo Rebajado 60º con Tuerca Hexagonal



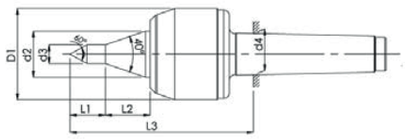


Referencia	CM	D	d	L1	L2	L	G
SP144	3	24.10	8	17	68	150	M27x1.5
SP145	4	31.60	14	25	86	190	M36x1.5
SP160	5	45	16	25	106	236	M48x1.5

Punto Giratorio Punta Rebajada

• Punta 40/60º alargada y rebajada en el extremo para acceder mejor y evitar el roce con las herramientas.



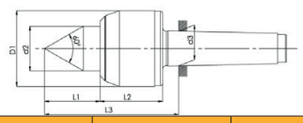


Referencia	CM	D1	d2	d3	L1	L2	L3	Máx.Cen.
C60	3	58	24.5	9	15	28	107	0.005
C70	4	68	34.5	14	25	32	121	0.005
C80	5	78	43.5	14	25	44	148	0.005

Punto Giratorio Estándar

• Punta 60º



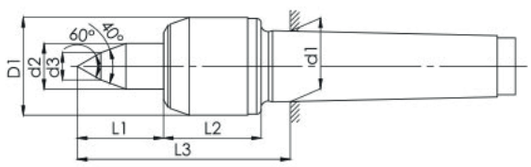


Referencia	CM	D1	d2	d3	L1	L2	L3	Máx.Cen.	Carga Peso
N01	2	50	24.5	17.780	32	50	92	0.005	1.700
N02	3	53	24.5	23.325	33	50	94	0.005	1.900
N03	4	68	40	31.267	50	56	114	0.005	3.000
N04	5	78	44	44.399	58	69	138	0.005	4.900
N05	6	98	53.5	63.348	80	96	191	0.01	10.00

Punto Giratorio Ejecución Ligera

• Punta 40/60º



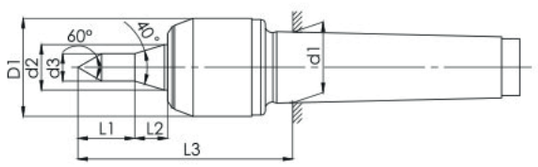


Referencia	CM	D1	d1	d2	d3	L1	L2	L3	Máx.Cen.
C110	4	43	31.267	20	12	30	58	88	0.005
C140	5	60	4.399	30	14	50	62	123	0.005

Punto Giratorio Ejecución Ligera

• Punta 60º ejecución ligera.



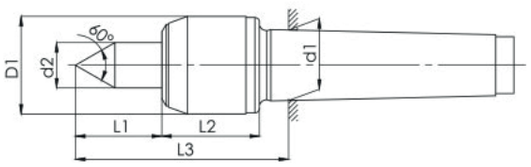


Referencia	CM	D1	d1	d2	d3	L1	L2	L3	Máx.Cen.
C120	4	43	31.267	20	12	25	15	95	0.005
C150	5	60	44.399	30	14	25	27	133	0.005

Punto Giratorio Ejecución Ligera

• Punta 60º ejecución larga ligera



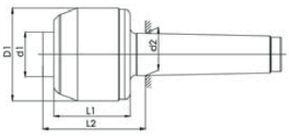


Referencia	CM	D1	d1	d2	d3	L1	L2	L3	Máx.Cen.
C130	4	43	31.267	20	-	27	42	88	0.005
C160	5	60	44.399	30	-	40	60	118	0.005

Punto Giratorio - Puntas Intercambiables

• Con puntas intercambiables para CM4 y CM5. Set incluido con todas las puntas.







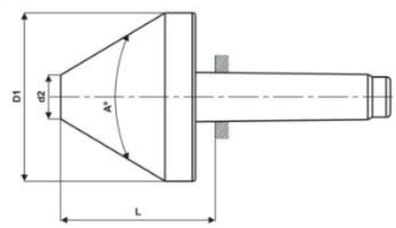
Referencia	CM	D1	d1	L1	L2	L3	Máx.Cen.
C104	4	68	34.5	54	74	88	0.01
C105	5	78	44	69	90	118	0.01

Puntas de Recambio para Modelos C104/C105

Referencia	Tipo de Modelo	MK	D	d	Máx.Carga
C401	C201	4	48	30	250
C402	C202	4	34	-	215
C403	C203	4	22	9	200
C404	C204	4	22	14	170
C405	C205	4	22	8	120
C501	C201	5	58	42	750
C502	C202	5	44	-	700
C503	C203	5	34	14	560
C504	C204	5	34	20	250
C505	C205	5	34	10	194

Punto Giratorio para Tubos

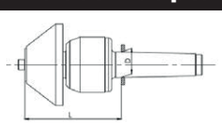




Referencia	CM	D1	A	d2	L	Conc.	Peso
B70	3	80	60º	26	70	0.008	2.5
B80	4	80	60º	26	71	0.008	2.8
B90	3	100	60º	28	84	0.008	3.9
B100	4	100	60º	28	86	0.008	4.2
B110	4	120	60º	38	89	0.008	5.8
B120	5	120	60º	38	97	0.008	6.5
B130	4	140	60º	45	104	0.01	8.0
B140	5	140	60º	45	108	0.01	8.8
B150	5	170	70º	58	121	0.01	13.0
B160	5	200	70º	65	134	0.01	19.0
B170	6	200	70º	65	126	0.01	22.0
B175	5	255	70º	150	114	0.01	36.0
B180	6	255	70º	150	115	0.01	39.0

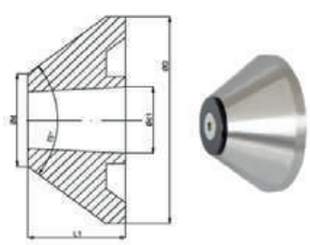
Punto Giratorio para Tubos Adaptable





Referencia	CM	L	D	Máx. Kg
C284	3	116	31.267	750
C285	4	133	44.399	1700

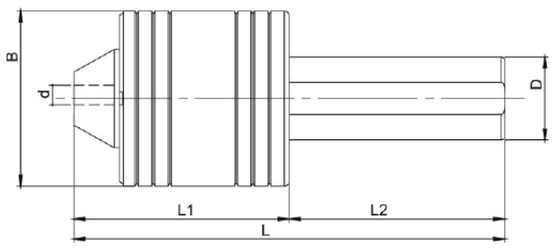
Adaptadores para Punto Giratorio



Referencia	CM	D	d	d1	L1
C410	4	60	30	32	45
C420	4	100	45	32	45
C430	4	150	95	32	45
C440	4	200	145	32	45
C510	5	100	45	40	43
C520	5	150	95	40	43
C530	5	200	145	40	43
C540	5	250	195	40	43

Punto Giratorio - Punta Hexagonal Intercambiable





- Punto giratorio con punta hexagonal intercambiable
- Se suministra punto y punta hexagonal de manera independiente
- Alta precisión de concentricidad.

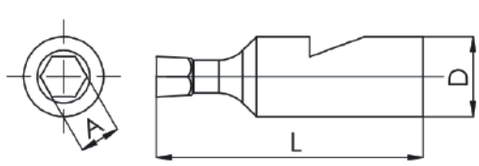
Referencia	L	L1	L2	B	D	d	Peso
AD2553	130	54	65	53	25	12	1
AD3253	130	54	65	53	32	12	1,5
AD4053	130	54	65	53	40	12	1,5
AD2541	123	47	65	41	25	8	1
AD1635	125	48	75	35	16	8	0,5
AD2035	125	48	75	35	20	8	0,5
AD2535	125	48	75	35	25	8	0,6
AD4095	203	103	100	95	40	16	5,6

Punta Hexagonal Intercambiable

- Realizados en acero tratado para una mayor resistencia

Referencia	D	A	L
AK0802	8	2	28
AK0803	8	3	28
AK0804	8	4	28
AK0805	8	5	28
AK0806	8	6	28
AK1203	12	3	40
AK1204	12	4	40
AK1205	12	5	40
AK1206	12	6	40
AK1208	12	8	40
AK1210	12	10	40
AK1212	12	12	40
AK1214	12	14	40
AK1614	16	14	70
AK1615	16	15	70
AK1616	16	16	70
AK1617	16	17	70
AK1618	16	18	70
AK1619	16	19	70
AK1620	16	20	70
AK1621	16	21	70
AK1622	16	22	70
AK1623	16	23	70
AK1624	16	24	70
AK1625	16	25	70





Fresa MD – Z2

Referencia	Diámetro Fresa	Diámetro Amarre	Longitud Corte	Longitud Total	Z
MF114.010	1	3	3	38	2
MF114.015	1.5	3	4	38	2
MF114.020	2	3	6	38	2
MF114.025	2.5	3	8	38	2
MF114.030	3	3	8	38	2
MF114.040	4	4	11	50	2
MF114.050	5	5	13	50	2
MF114.055	5.5	6	13	50	2
MF114.060	6	6	16	50	2
MF114.065	6.5	8	16	50	2
MF114.070	7	8	16	60	2
MF114.080	8	8	19	60	2
MF114.085	8.5	10	19	60	2
MF114.090	9	10	19	75	2
MF114.100	10	10	22	75	2
MF114.105	10.5	12	22	75	2
MF114.110	11	12	22	75	2
MF114.120	12	12	26	75	2
MF114.130	13	14	26	75	2
MF114.140	14	14	30	85	2
MF114.150	15	16	30	85	2
MF114.160	16	16	32	92	2
MF114.180	18	18	38	100	2
MF114.200	20	20	38	100	2
MF114.250	25	25	38	100	2



- Corte Hélice: 30º
- Modelo: Z-2
- Recubrimiento: Tialn
- Uso: General
- Dureza: <56HRC

Fresa MD – Z2 - Serie Larga y Extra larga

Referencia	Diámetro Fresa	Diámetro Amarre	Longitud Corte	Longitud Total	Z
MF115.010	1	3	5	60	2
MF115.020	2	3	10	60	2
MF115.030	3	3	15	60	2
MF115.0301	3	3	25	75	2
MF115.040	4	4	20	80	2
MF115.0401	4	4	25	100	2
MF115.050	5	5	25	80	2
MF115.0501	5	5	25	100	2
MF115.060	6	6	25	80	2
MF115.0601	6	6	25	100	2
MF115.0602	6	6	25	150	2
MF115.0603	6	6	40	100	2
MF115.0604	6	6	40	150	2
MF115.080	8	8	35	90	2
MF115.0801	8	8	45	100	2
MF115.0802	8	8	45	150	2
MF115.0803	8	8	25	150	2
MF115.100	10	10	45	100	2
MF115.1001	10	10	38	150	2
MF115.1002	10	10	50	150	2
MF115.1003	10	10	65	150	2
MF115.120	12	12	50	100	2
MF115.1201	12	12	38	150	2
MF115.1202	12	12	38	200	2
MF115.1203	12	12	50	150	2
MF115.1204	12	12	75	150	2
MF115.140	14	14	65	150	2
MF115.160	16	16	65	150	2
MF115.200	20	20	70	150	2
MF115.250	25	25	75	150	2



- Corte Hélice: 30º
- Modelo: Z-2
- Recubrimiento: Tialn
- Uso: General
- Dureza: <56HRC



- Corte Hélice: 30º
- Modelo: Z-2
- Recubrimiento: Tialn
- Uso: General
- Dureza: <56HRC

Fresa MD – Z3

Referencia	Diámetro Fresa	Diámetro Amarre	Longitud Corte	Longitud Total	Z
MF116.010	1	3	3	38	3
MF116.015	1.5	3	4	38	3
MF116.020	2	3	6	38	3
MF116.025	2.5	3	8	38	3
MF116.030	3	3	8	38	3
MF116.040	4	4	11	50	3
MF116.050	5	5	13	50	3
MF116.060	6	6	16	50	3
MF116.080	8	8	19	60	3
MF116.100	10	10	22	75	3
MF116.120	12	12	26	75	3
MF116.140	14	14	30	85	3
MF116.160	16	16	32	92	3
MF116.180	18	18	38	100	3
MF116.200	20	20	38	100	3
MF116.250	25	25	38	100	3



- Corte Hélice: 45º
- Modelo: Z-3
- Recubrimiento: Tialn
- Uso: General
- Dureza: <56HRC

Fresa MD – Z3 – Serie Larga

Referencia	Diámetro Fresa	Diámetro Amarre	Longitud Corte	Longitud Total	Z
MF117.010	1	3	5	60	3
MF117.020	2	3	10	60	3
MF117.030	3	3	15	60	3
MF117.040	4	4	20	80	3
MF117.050	5	5	25	80	3
MF117.060	6	6	25	80	3
MF117.080	8	8	35	90	3
MF117.100	10	10	45	100	3
MF117.120	12	12	50	100	3
MF117.140	14	14	65	150	3
MF117.160	16	16	65	150	3
MF117.200	20	20	70	150	3
MF117.250	25	25	75	150	3



- Corte Hélice: 45º
- Modelo: Z-3 Recubrimiento: Tialn
- Uso: General
- Dureza: <56HRC

¿ Necesitas otros servicios de Herramienta de Corte ?

- Afilados especiales
- Re-afilados de herramienta
- Recubrimientos PVD
- Herramienta Especial
- Programación de Pedidos
- Servicio de verificación



Fresa MD – Z4

Referencia	Diámetro Fresa	Diámetro Amarre	Longitud Corte	Longitud Total	Z
MF118.010	1	3	3	38	4
MF118.015	1.5	3	4	38	4
MF118.020	2	3	6	38	4
MF118.025	2.5	3	6	38	4
MF118.030	3	3	8	38	4
MF118.035	3.5	4	8	40	4
MF118.040	4	4	11	50	4
MF118.050	5	5	13	50	4
MF118.060	6	6	16	50	4
MF118.070	7	8	16	60	4
MF118.080	8	8	19	60	4
MF118.090	9	10	19	75	4
MF118.100	10	10	22	75	4
MF118.110	11	12	22	75	4
MF118.120	12	12	26	75	4
MF118.130	13	14	26	85	4
MF118.140	14	14	30	85	4
MF118.150	15	16	30	92	4
MF118.160	16	16	32	100	4
MF118.170	17	18	32	100	4
MF118.180	18	18	38	100	4
MF118.190	19	20	38	100	4
MF118.200	20	20	38	100	4
MF118.250	25	25	38	100	4



- Corte Hélice: 30º
- Modelo: Z-4
- Recubrimiento: TiaIn
- Uso: General
- Dureza: <56HRC

Fresa MD – Z4 - Serie Larga

Referencia	Diámetro Fresa	Diámetro Amarre	Longitud Corte	Longitud Total	Z
MF119.010	1	3	5	60	4
MF119.020	2	3	10	60	4
MF119.030	3	3	15	60	4
MF119.040	4	4	20	80	4
MF119.050	5	5	25	80	4
MF119.060	6	6	25	80	4
MF119.080	8	8	35	90	4
MF119.100	10	10	45	100	4
MF119.120	12	12	50	100	4
MF119.140	14	14	65	150	4
MF119.160	16	16	65	150	4
MF119.180	18	18	70	150	4
MF119.200	20	20	70	150	4
MF119.250	25	25	75	150	4



- Corte Hélice: 30º
- Modelo: Z-4
- Recubrimiento: TiaIn
- Uso: General
- Dureza: <56HRC

Fresa MD – Z4 - Serie Extra Larga

Referencia	Diámetro Fresa	Diámetro Amarre	Longitud Corte	Longitud Total	Z
MF120.030	3	3	25	75	4
MF120.050	5	5	25	100	4
MF120.060	6	6	25	100	4
MF120.060	6	6	25	150	4
MF120.080	8	8	25	150	4
MF120.100	10	10	38	150	4
MF120.120	12	12	38	150	4
MF120.120L	12	12	38	200	4



- Corte Hélice: 30º
- Modelo: Z-4
- Recubrimiento: TiaIn
- Uso: General
- Dureza: <56HRC

Fresa MD – Z6

Referencia	Diámetro Fresa	Diámetro Amarre	Longitud Corte	Longitud Total	Z
MF210.030	3	3	8	38	4
MF210.040	4	4	11	50	4
MF210.050	5	5	13	50	4
MF210.060	6	6	16	50	6
MF210.080	8	8	19	60	6
MF210.100	10	10	22	75	6
MF210.120	12	12	26	75	6
MF210.140	14	14	32	90	6
MF210.160	16	16	32	100	6
MF210.180	18	18	38	100	6
MF210.200	20	20	38	100	6
MF210.250	25	25	38	100	6
MF210.320	32	32	50	120	6
Serie Larga Z-6					
MF211.030	3	3	15	60	4
MF211.040	4	4	20	80	4
MF211.050	5	5	25	80	4
MF211.060	6	6	25	80	6
MF211.080	8	8	35	90	6
MF211.100	10	10	45	100	6
MF211.120	12	12	50	100	6
MF211.120L	12	12	70	125	6
MF211.140	14	14	65	150	6
MF211.160	16	16	65	150	6
MF211.160L	16	16	100	150	6
MF211.200	20	20	70	150	6
MF211.200L	20	20	100	150	6
MF211.200LL	20	20	135	200	6
MF211.250	25	25	75	150	6
MF211.250L	25	25	100	150	6
MF211.250LL	25	25	140	200	6
MF211.320	32	32	100	150	6
MF211.320L	32	32	150	210	6



- Corte Hélice: 45º
- Modelo: Z-6
- Diámetros ø2-ø3-ø4 - Z-4
- Recubrimiento: Tialn
- Uso: General
- Dureza: <65HRC



- Corte Hélice: 45º
- Modelo: Z-6
- Diámetros ø2-ø3-ø4 - Z-4
- Recubrimiento: Tialn
- Uso: General
- Dureza: <65HRC

Fresa MD Desbaste – Serie Estándar

Referencia	Diámetro Fresa	Diámetro Amarre	Longitud Corte	Longitud Total	Z
MF220.060	6	6	16	50	3
MF220.080	8	8	19	60	3
MF220.0601	6	6	16	50	4
MF220.0801	8	8	19	60	4
MF220.100	10	10	22	75	4
MF220.120	12	12	26	75	4
MF220.140	14	14	30	90	4
MF220.160	16	16	32	100	4
MF220.200	20	20	38	100	4



- Corte Hélice: 30º Modelo: Z-3 / Z4
- Recubrimiento: Altin
- Material: Sub-Micrograno
- Uso: General
- Dureza: <65HRC

Fresa MD Desbaste – Serie Larga

Referencia	Diámetro Fresa	Diámetro Amarre	Longitud Corte	Longitud Total	Z
MF221.060	6	6	25	80	4
MF221.080	8	8	35	90	4
MF221.100	10	10	45	100	4
MF221.120	12	12	50	100	4
MF221.140	14	14	65	150	4
MF221.160	16	16	70	150	4
MF221.200	20	20	38	100	4



- Corte Hélice: 30º Modelo: Z4
- Recubrimiento: Altin
- Material: Sub-Micrograno
- Uso: General
- Dureza: <65HRC

Fresa MD – Z1

Referencia	Diámetro Fresa	Diámetro Amarre	Longitud Corte	Longitud Total	Z
MF111.030	3	3	8	38	1
MF111.040	4	4	11	50	1
MF111.050	5	5	13	50	1
MF111.060	6	6	16	50	1
MF111.080	8	8	19	60	1
MF111.100	10	10	22	75	1
MF111.120	12	12	26	75	1



- Corte Hélice:30º
- Modelo Z-1
- Uso: Plasticos/Aluminio

Fresa MD – Z1 - Serie Larga

Referencia	Diámetro Fresa	Diámetro Amarre	Longitud Corte	Longitud Total	Z
MF112.060	6	6	25	80	1
MF112.080	8	8	35	90	1
MF112.100	10	10	45	100	1
MF112.120	12	12	50	100	1



- Corte Hélice:30º
- Modelo Z-1
- Uso: Plasticos/Aluminio

Fresa MD – Z2 Aluminio

Referencia	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Total	Z
MF310.030	3	6	8	57	2
MF310.035	3.5	6	10	57	2
MF310.040	4	6	11	57	2
MF310.045	4.5	6	11	57	2
MF310.050	5	6	13	57	2
MF310.060	6	6	13	57	2
MF310.070	7	8	16	63	2
MF310.080	8	8	19	63	2
MF310.090	9	10	19	72	2
MF310.100	10	10	22	72	2
MF310.120	12	12	26	83	2
MF310.140	14	14	26	83	2
MF310.160	16	16	32	92	2
MF310.180	18	18	32	92	2
MF310.200	20	20	38	104	6



- Corte Hélice: 45º
- Modelo: Z-2
- Sin Recubrimiento
- Amarre: Weldon

Fresa MD – Z2 Basic - Aluminio

Referencia	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Total	Z
MF315.030	3	6	8	50	2
MF315.040	4	6	11	50	2
MF315.050	5	6	13	50	2
MF315.060	6	6	16	50	2
MF315.080	8	8	19	60	2
MF315.100	10	10	25	72	2
MF315.120	12	12	30	75	2
MF315.140	14	14	35	84	2
MF315.160	16	16	40	92	2
MF315.200	20	20	45	100	2



- Corte Hélice: 45º
- Modelo: Z-2
- Sin Recubrimiento
- Mango: Cilíndrico

Fresa MD – Z2 Basic - Aluminio - Serie Larga

Referencia	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Total	Z
MF317.060	6	6	25	80	2
MF317.080	8	8	35	90	2
MF317.100	10	10	45	100	2
MF317.120	12	12	50	100	2
MF317.140	14	14	65	165	2
MF317.160	16	16	75	150	2
MF317.200	20	20	80	150	2



- Corte Hélice: 45º
- Modelo: Z-2
- Sin Recubrimiento
- Mango: Cilíndrico

Fresa MD – Z3 Aluminio

Referencia	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Total	Z
MF320.030	3	6	8	57	3
MF320.035	3.5	6	10	57	3
MF320.040	4	6	11	57	3
MF320.045	4.5	6	11	57	3
MF320.050	5	6	13	57	3
MF320.060	6	6	13	57	3
MF320.070	7	8	16	63	3
MF320.080	8	8	19	63	3
MF320.090	9	10	19	72	3
MF320.100	10	10	22	72	3
MF320.120	12	12	26	83	3
MF320.140	14	14	26	83	3
MF320.160	16	16	32	92	3
MF320.180	18	18	32	92	3
MF320.200	20	20	38	104	3



- Corte Hélice: 45º
- Modelo: Z-3
- Sin Recubrimiento
- Amarre: Weldon

FRESA MD – Z3 Basic - Aluminio

Referencia	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Total	Z
MF325.030	3	6	8	50	3
MF325.040	4	6	11	50	3
MF325.050	5	6	13	50	3
MF325.060	6	6	16	50	3
MF325.080	8	8	19	60	3
MF325.100	10	10	25	72	3
MF325.120	12	12	30	75	3
MF325.140	14	14	35	84	3
MF325.160	16	16	40	92	3



- Corte Hélice: 45º
- Modelo: Z-3
- Sin Recubrimiento
- Mango: Cilíndrico

FRESA MD – Z3 Basic - Aluminio - Serie Larga

Referencia	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Total	Z
MF327.060	6	6	25	80	3
MF327.080	8	8	35	90	3
MF327.100	10	10	45	100	3
MF327.120	12	12	50	100	3
MF327.140	14	14	65	165	3
MF327.160	16	16	75	150	3
MF327.200	20	20	80	150	3



- Corte Hélice: 45º
- Modelo: Z-3
- Sin Recubrimiento
- Mango: Cilíndrico

Fresa MD Bola – Z2 - Aluminio

Referencia	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Total
MF330.030	3	6	6	50
MF330.040	4	6	8	50
MF330.050	5	6	10	50
MF330.060	6	6	12	50
MF330.080	8	8	15	60
MF330.100	10	10	20	72
MF330.120	12	12	24	75
MF330.140	14	14	26	83
MF330.160	16	16	30	92
MF330.200	20	20	40	100



- Corte Hélice: 40º
- Modelo: Z-2
- Sin Recubrimiento
- Amarre: Cilíndrico

Fresa MD Bola – Z2 - Aluminio - Serie Larga

- Corte Hélice: 40º
- Modelo: Z-2
- Sin Recubrimiento
- Amarre: Cilíndrico
- Cuello reducido



Referencia	Diámetro Fresa	Diámetro Mango	Diámetro Reducido	Longitud Reducida	Longitud Corte	Longitud Total
MF332.060	6	6	5,5	35	12	80
MF332.080	8	8	7,5	35	15	90
MF332.100	10	10	9,5	45	20	100
MF332.120	12	12	11,5	50	24	100
MF332.160	16	16	15,5	92	30	150
MF332.200	20	20	19,5	92	40	150

Fresa MD Tórica – Z3 - Aluminio

- Corte Hélice: 45º
- Modelo: Z-3
- Sin Recubrimiento
- Amarre: Cilíndrico
- Acabado Tórico



Referencia	Diámetro Fresa z	Diámetro Mango	Radio	Longitud Corte	Longitud Total
MF334.06005	6	6	0,5	25	80
MF334.0601	6	6	1	25	80
MF334.08005	8	8	0,5	35	90
MF334.0801	8	8	1	35	90
MF334.10005	10	10	0,5	45	100
MF334.1001	10	10	1	45	100
MF334.1002	10	10	2	45	100
MF334.1003	10	10	3	45	100
MF334.12005	12	12	0,5	50	110
MF334.1201	12	12	1	50	110
MF334.12025	12	12	2,5	50	110
MF334.1204	12	12	4	50	110
MF334.1601	16	16	1	50	110
MF334.16025	16	16	2,5	50	110
MF334.1604	16	16	4	50	110
MF334.20025	20	20	2,5	50	130
MF334.2004	20	20	4	50	130

Fresa MD – Z3 – Desbaste Aluminio

- Corte Hélice: 25º
- Modelo: Z-3
- Sin Recubrimiento
- Amarre: Weldon



Referencia	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Total	Z
MF340.040	4	6	13	57	4
MF340.050	5	6	19	63	4
MF340.060	6	6	22	72	4
MF340.080	8	8	26	83	4
MF340.100	10	10	26	83	4
MF340.120	12	12	32	92	4
MF340.160	16	16	32	92	4
MF340.200	20	20	38	104	4

Microfresa MD Z-2 - Cuello Rebajado

- Corte Hélice: 30º
- Modelo: Z-2
- Recubrimiento: Altin
- Material: Micrograno
- Uso: General
- Dureza: <56HRC



Referencia	Diámetro Fresa	Diámetro Amarre	Diámetro Reducido	Longitud Reducida	Longitud Corte	Longitud Total
MF222.010	1	6	0.95	5	1.5	55
MF222.010L	1	6	0.95	12	1.5	65
MF222.010L20	1	6	0.95	20	1.5	65
MF222.015	1.5	6	1.44	5	2	55
MF222.015L	1.5	6	1.44	12	2	65
MF222.015L20	1.5	6	1.44	20	2	65
MF222.020	2	6	1.92	10	3	55
MF222.020L	2	6	1.92	16	3	65
MF222.020L30	2	6	1.92	30	3	80
MF222.020L50	2	6	1.92	50	3	100
MF225.025	2,5	6	2,4	10	4	57
MF225.025L	2,5	6	2,4	20	4	65
MF225.025XL	2,5	6	2,4	40	4	80
MF222.030	3	6	2.9	9	5	65
MF222.030L	3	6	2.9	15	5	65
MF222.030L20	3	6	2,9	20	5	65
MF222.030L30	3	6	2,9	30	5	80
MF222.030L40	3	6	2,9	40	5	80
MF222.030L50	3	6	2,9	50	5	100
MF222.040	4	6	3.9	12	6	65
MF222.040L	4	6	3.9	20	6	65
MF222.040L30	4	6	3,9	30	6	80
MF222.040L40	4	6	3,9	40	6	80
MF222.040L50	4	6	3,9	50	6	100
MF222.050	5	6	4,8	12	7	60
MF222.050L	5	6	4,8	20	7	65
MF222.050L30	5	6	4,8	30	7	80
MF222.050L40	5	6	4,8	40	7	80
MF222.050L50	5	6	4,8	50	7	100

Microfresa MD Z-2 - Cuello Cónico - Mango 4mm

Referencia	Diámetro Fresa	Diámetro Amarre	Longitud Corte	Longitud Total
MF223.002	0.20	4	0.4	38
MF223.003	0.30	4	0.6	38
MF223.004	0.40	4	0.8	38
MF223.005	0.50	4	1	38
MF223.006	0.60	4	1.2	38
MF223.007	0.70	4	1.4	38
MF223.008	0.80	4	1.6	38
MF223.009	0.90	4	1.8	38



Microfresa MD Z-2 - Cuello Rebajado - Mango 4mm



Referencia	Diámetro Fresa	Diámetro Amarre	Diámetro Reducido	Longitud Reducida	Longitud Corte	Longitud Total
MF224.005	0,5	4	0,48	4	0,7	50
MF224.0051	0,5	4	0,48	6	0,7	50
MF224.006	0,6	4	0,57	4	0,9	50
MF224.0061	0,6	4	0,57	6	0,9	50
MF224.0062	0,6	4	0,57	8	0,9	50
MF224.008	0,8	4	0,76	6	1,2	50
MF224.0081	0,8	4	0,76	8	1,2	50
MF224.0082	0,8	4	0,76	10	1,2	50
MF224.012	1,2	4	1,15	6	1,8	50
MF224.0121	1,2	4	1,15	8	1,8	50
MF224.0122	1,2	4	1,15	10	1,8	50

Fresa MD Bola Z-2

Referencia	Diámetro Fresa	Diámetro Amarre	Longitud Corte	Longitud Total
MF225.010	1	3	2	38
MF225.015	1.5	3	3	38
MF225.020	2	3	4	38
MF225.025	2.5	3	5	38
MF225.030	3	3	6	38
MF225.040	4	4	8	50
MF225.050	5	5	10	50
MF225.060	6	6	12	50
MF225.080	8	8	15	60
MF225.100	10	10	20	75
MF225.120	12	12	20	75
MF225.140	14	14	25	90
MF225.160	16	16	25	100
MF225.180	18	18	30	100
MF225.200	20	20	30	100



- Corte Hélice: 30º
- Modelo: Z-2
- Recubrimiento: Altin
- Material: Micrograno
- Uso: General
- Dureza: <56HRC

Fresa MD Bola Z-2 - Serie Larga

Referencia	Diámetro Fresa	Diámetro Amarre	Longitud Corte	Longitud Total
MF226.010	1	3	2	60
MF226.015	1.5	3	3	60
MF226.020	2	3	3	60
MF226.025	2.5	3	3	60
MF226.030	3	3	4	60
MF226.040	4	4	5	80
MF226.050	5	5	6	80
MF226.060	6	6	8	80
MF226.080	8	8	12	100
MF226.100	10	10	15	100
MF226.120	12	12	15	100
MF226.140	14	14	20	150
MF226.160	16	16	20	150
MF226.200	20	20	25	150



- Modelo diámetro 1 - 1.5 - 2 - 2.5



- Resto de medidas

- Corte Hélice: 30º
- Modelo: Z-2
- Recubrimiento: Altin
- Material: Micrograno
- Uso: General
- Dureza: <56HRC

Fresa MD Bola Z-2 - Serie Extra Larga

Referencia	Diámetro Fresa	Diámetro Amarre	Longitud Corte	Longitud Total
MF227.030	3	3	6	75
MF227.040	4	4	6	100
MF227.050	5	5	6	100
MF227.060	6	6	15	100
MF227.060L	6	6	15	150
MF227.080	8	8	25	150
MF227.080L	8	8	50	200
MF227.100	10	10	25	150
MF227.100L	10	10	50	200
MF227.120	12	12	25	150
MF227.120L	12	12	25	200
MF227.140	14	14	50	200
MF227.160	16	16	50	200



- Corte Hélice: 30º
- Modelo: Z-2
- Recubrimiento: Altin
- Material: Micrograno
- Uso: General
- Dureza: <56HRC

Fresa MD Bola Z-2 - Cuello Reducido

- Corte Hélice: 30º
- Modelo: Z-2
- Recubrimiento: Altin
- Material: Micrograno
- Uso: General
- Dureza: <56HRC



Referencia	Diámetro Fresa	Diámetro Amarre	Diámetro Reducido	Longitud Reducida	Longitud Corte	Longitud Total
MF228.010	1	6	0,95	5	1,5	55
MF228.010L	1	6	0,95	12	1,5	65
MF228.010L20	1	6	0,95	20	1,5	65
MF228.015L8	1,5	6	1,42	8	2	57
MF228.015L10	1,5	6	1,42	10	2	57
MF228.015L15	1,5	6	1,42	15	2	65
MF228.015L20	1,5	6	1,42	20	2	65
MF228.020	2	6	1,92	10	3	57
MF228.020L	2	6	1,92	14	3	57
MF228.020L16	2	6	1,92	16	3	60
MF228.020L20	2	6	1,92	20	3	60
MF228.020L30	2	6	1,92	30	3	75
MF228.020L40	2	6	1,92	40	3	80
MF228.020L50	2	6	1,92	50	3	100
MF228.025	2,5	6	2,4	20	4	60
MF228.025L30	2,5	6	2,4	30	4	80
MF228.025L40	2,5	6	2,4	40	4	80
MF228.030	3	6	2,9	9	5	60
MF228.030L	3	6	2,9	15	5	60
MF228.030L20	3	6	2,9	20	5	60
MF228.030L30	3	6	2,9	30	5	80
MF228.030L40	3	6	2,9	40	5	80
MF228.030L50	3	6	2,9	50	5	100
MF228.040	4	6	3,9	12	6	60
MF228.040L	4	6	3,9	20	6	60
MF228.040L30	4	6	3,9	30	6	80
MF228.040L40	4	6	3,9	40	6	80
MF228.050	5	6	4,8	20	7	60
MF228.050L30	5	6	4,8	30	7	80
MF228.050L40	5	6	4,8	40	7	80
MF228.050L50	5	6	4,8	50	7	100

Fresa MD Bola Z-2 – Cuello Largo Cónico

- Corte Hélice: 30º
- Modelo: Z-2
- Recubrimiento: Altin
- Material: Sub-Micrograno
- Uso: General
- Dureza: <62HRC



Referencia	Diámetro Fresa	Diámetro Mango	Longitud Cuello	Longitud Corte	Longitud Total
MF229.010	1	6	20	1.5	60
MF229.015	1.5	6	20	2	60
MF229.020	2	6	20	3	60
MF229.020L	2	6	25	6	60
MF229.030	3	6	20	7	60
MF229.040	4	6	25	8	60
MF229.050	5	6	25	9	60

Fresa MD Bola Z-2 – Cuello Largo Cónico - Serie Larga



- Corte Hélice: 30º
- Modelo: Z-2
- Recubrimiento: Altin
- Material: Sub-Micrograno
- Uso: General
- Dureza: <62HRC

Referencia	Diámetro Fresa	Diámetro Amarre	Longitud Cuello	Longitud Corte	Longitud Total
MF230.010	1	6	40	1,5	80
MF230.010L50	1	6	50	1,5	100
MF230.010L60	1	6	60	1,5	108
MF230.010L70	1	6	70	1,5	108
MF230.015	1,5	6	40	2	80
MF230.015L50	1,5	6	50	2	100
MF230.015L60	1,5	6	60	2	108
MF230.015L70	1,5	6	70	2	108
MF230.020	2	6	40	3	80
MF230.020L50	2	6	50	3	100
MF230.020L60	2	6	60	3	108
MF230.050	3	6	50	5	100
MF230.050L60	3	6	60	5	108
MF230.040	4	6	50	6	100
MF230.040L	4	8	50	8	100
MF230.050L	5	6	50	7	100
MF230.050	5	8	41	12	90
MF230.050L60	5	8	60	12	90
MF230.060	6	8	33	14	90
MF230.060L	6	8	50	9	100
MF230.060XL	6	10	50	12	100
MF230.080	8	10	40	15	100
MF230.080L	8	12	50	15	100
MF230.080XL	8	10	70	10	150
MF230.100	10	12	50	20	100
MF230.100L	10	16	60	20	150
MF230.100XL	10	12	65	15	130
MF230.120	12	16	60	20	150

Fresa MD Bola Z-2 – Materiales Duros (70HRC)





- Resto de medidas
- Modelo diámetro 2 - 3 - 4 mm

Referencia	Diámetro Fresa	Diámetro Amarre	Diámetro Reducido	Longitud Reducida	Longitud Cono	Longitud Corte	Longitud Total
MF231.02020	2	6	-	-	20	3	60
MF231.03020	3	6	-	-	20	5	60
MF231.04020	4	6	-	-	20	6	60
MF231.05020	5	6	4,8	20	-	10	60
MF231.06020	6	6	5,8	20	-	12	60
MF231.08020	8	8	7,8	20	-	12	80
MF231.10022	10	10	9,8	22	-	10	75
MF231.12024	12	12	11,8	24	-	12	75
MF231.16040	16	16	15,8	40	-	20	92

- Corte Hélice: 30º
- Modelo: Z-2
- Recubrimiento: Altin-Nano
- Material: Nano-Micrograno
- Uso: General
- Dureza: <70HRC

Fresa MD Bola Z-2 – Materiales Duros (70HRC) - Serie Larga



• Resto de medidas



• Modelo diámetro 2 - 3 - 4 mm

Referencia	Diámetro Fresa	Diámetro Amarre	Diámetro Reducido	Longitud Reducida	Longitud Cono	Longitud Corte	Longitud Total
MF232.02020	2	6			40	3	80
MF232.03020	3	6	-	-	40	5	80
MF232.04020	4	6			40	6	80
MF232.05020	5	6	4,8	20	-	10	80
MF232.06020	6	6	5,8	20		12	80
MF232.08020	8	8	7,8	20	-	12	100
MF232.10022	10	10	9,8	22		10	100
MF232.12024	12	12	11,8	24	-	12	100
MF232.16040	16	16	15,8	40		20	150

• Corte Hélice: 30º
• Modelo: Z-2
• Recubrimiento: Altin-Nano
• Material: Nano-Micrograno
• Uso: General
• Dureza: <70HRC

Fresa MD Bola Z-2 – Mango 4mm

Referencia	Diámetro Fresa	Diámetro Amarre	Longitud Corte	Longitud Total
MF233.020	0,2	4	0,4	50
MF233.030	0,3	4	0,6	50
MF233.040	0,4	4	0,8	50
MF233.050	0,5	4	1	50
MF233.060	0,6	4	1,2	50
MF233.070	0,7	4	1,4	50
MF233.080	0,8	4	1,6	50
MF233.090	0,9	4	1,8	50



• Corte Hélice: 30º
• Modelo: Z-2
• Recubrimiento: Altin-Nano
• Material: Nano-Micrograno
• Uso: General
• Dureza: <62HRC

Fresa MD Bola Z-2 – Mango 4mm - Cuello Rebajado



Referencia	Diámetro Fresa	Diámetro Amarre	Diámetro Reducido	Longitud Reducida	Longitud Corte	Longitud Total
MF234.0504	0.4	4	-	2	0.5	45
MF234.0506	0.4	4	-	4	0.5	45
MF234.0604	0,5	4	0,48	4	0,7	50
MF234.0606	0,5	4	0,48	6	0,7	50
MF234.0608	0,6	4	0,57	4	0,9	50
MF234.0806	0,6	4	0,57	6	0,9	50
MF234.0808	0,6	4	0,57	8	0,9	50
MF234.0810	0,8	4	0,76	6	1,2	50
MF234.1206	0,8	4	0,76	8	1,2	50
MF234.1208	0,8	4	0,76	10	1,2	50
MF234.1210	1,2	4	1,15	6	1,8	50
MF234.1208	1,2	4	1,15	8	1,8	50
MF234.1210	1,2	4	1,15	10	1,8	50

• Corte Hélice: 30º
• Modelo: Z-2
• Cuello Rebajado
• Mango: Cilíndrico
• Recubrimiento: Altin
• Material: Nano-Micrograno
• Uso: General
• Dureza: <62HRC

Fresa MD Tórica Z-2

- Corte Hélice: 30º - Modelo: Z-2
- Recubrimiento: AltiN-Nano - Material: Sub-Micrograno
- Uso: General - Dureza: <62HRC



Referencia	Diámetro Fresa	Diámetro Mango	Radio	Longitud Corte	Longitud Total
MF238.020020	2	6	0,2	6	50
MF238.020050	2	6	0,5	6	50
MF238.030020	3	6	0,2	8	50
MF238.030050	3	6	0,5	8	50
MF238.040020	4	6	0,2	11	50
MF238.040050	4	6	0,5	11	50
MF238.040100	4	6	1	11	50
MF238.050020	5	6	0,2	12	50
MF238.050050	5	6	0,5	12	50
MF238.050100	5	6	1	12	50
MF238.060020	6	6	0,2	12	50
MF238.060050	6	6	0,5	13	50
MF238.060100	6	6	1	13	50
MF238.060150	6	6	1,5	13	50
MF238.060200	6	6	2	13	50
MF238.080020	8	8	0,2	15	60
MF238.080050	8	8	0,5	15	60
MF238.080100	8	8	1	15	60
MF238.080150	8	8	1,5	15	60
MF238.080200	8	8	2	15	60
MF238.100050	10	10	0,5	20	72
MF238.100100	10	10	1	20	72
MF238.100150	10	10	1,5	20	72
MF238.100200	10	10	2	20	72
MF238.100300	10	10	3	20	72
MF238.120050	12	12	0,5	24	75
MF238.120100	12	12	1	24	75
MF238.120150	12	12	1,5	24	75
MF238.120200	12	12	2	24	75
MF238.120300	12	12	3	24	75
MF238.160050	16	16	0,5	30	92
MF238.160100	16	16	1	30	92
MF238.160200	16	16	2	30	92
MF238.160300	16	16	3	30	92
MF238.160400	16	16	4	30	92

Fresa MD Tórica Z-4

- Corte Hélice: 30º - Modelo: Z-4
- Recubrimiento: AltiN-Nano - Material: Sub-Micrograno
- Uso: General - Dureza: <62HRC



Referencia	Diámetro Fresa	Diámetro Mango	Radio	Longitud Corte	Longitud Total
MF239.020020	2	6	0,2	6	50
MF239.020050	2	6	0,5	6	50
MF239.030020	3	6	0,2	8	50
MF239.030050	3	6	0,5	8	50
MF239.040020	4	6	0,2	11	50
MF239.040050	4	6	0,5	11	50
MF239.040100	4	6	1	11	50
MF239.050020	5	6	0,2	12	50
MF239.050050	5	6	0,5	12	50
MF239.050100	5	6	1	12	50

Fresa MD Tórica Z-4

- Corte Hélice: 30º - Modelo: Z-4
- Recubrimiento: AltiN-Nano - Material: Sub-Micrograno
- Uso: General - Dureza: <62HRC



Referencia	Diámetro Fresa	Diámetro Mango	Radio	Longitud Corte	Longitud Total
MF239.060020	6	6	0,2	12	50
MF239.060050	6	6	0,5	13	50
MF239.060100	6	6	1	13	50
MF239.060150	6	6	1,5	13	50
MF239.060200	6	6	2	13	50
MF239.060200	8	8	0,2	15	60
MF239.080050	8	8	0,5	15	60
MF239.080100	8	8	1	15	60
MF239.080150	8	8	1,5	15	60
MF239.080200	8	8	2	15	60
MF239.100050	10	10	0,5	20	72
MF239.100100	10	10	1	20	72
MF239.100150	10	10	1,5	20	72
MF239.100200	10	10	2	20	72
MF239.100300	10	10	3	20	72
MF239.120050	12	12	0,5	24	75
MF239.120100	12	12	1	24	75
MF239.120150	12	12	1,5	24	75
MF239.120200	12	12	2	24	75
MF239.120300	12	12	3	24	75
MF239.160050	16	16	0,5	30	92
MF239.160100	16	16	1	30	92
MF239.160200	16	16	2	30	92
MF239.160300	16	16	3	30	92
MF239.160400	16	16	4	30	92

Fresa MD Tórica Z-2

- Corte Hélice: 30º - Modelo: Z-2
- Recubrimiento: AltiN-Nano - Material: Sub-Micrograno
- Uso: General - Dureza: <62HRC



Referencia	Diámetro Fresa	Diámetro Mango	Radio	Longitud Corte	Longitud Total
MF240.060020	6	6	0,2	13	80
MF240.060050	6	6	0,5	13	80
MF240.060100	6	6	1	13	80
MF240.060150	6	6	1,5	13	80
MF240.060200	6	6	2	13	80
MF240.080050	8	8	0,5	19	90
MF240.080100	8	8	1	19	90
MF240.080150	8	8	1,5	19	90
MF240.080200	8	8	2	19	90
MF240.100050	10	10	0,5	22	100
MF240.100100	10	10	1	22	100
MF240.100150	10	10	1,5	22	100
MF240.100200	10	10	2	22	100
MF240.100300	10	10	3	22	100
MF240.120050	12	12	0,5	26	100
MF240.120100	12	12	1	26	100
MF240.120150	12	12	1,5	26	100
MF240.120200	12	12	2	26	100
MF240.120300	12	12	3	26	100

Fresa MD Tórica Z-2 - Serie Larga

- Corte Hélice: 30º - Modelo: Z-2
- Recubrimiento: AltiN-Nano - Material: Sub-Micrograno
- Uso: General - Dureza: <62HRC

Referencia	Diámetro Fresa	Diámetro Mango	Radio	Longitud Corte	Longitud Total
MF240.020020L	2	6	0,2	10	80
MF240.020050L	2	6	0,5	10	80
MF240.030020L	3	6	0,2	15	80
MF240.030050L	3	6	0,5	15	80
MF240.040020L	4	6	0,2	20	80
MF240.040050L	4	6	0,5	20	80
MF240.040100L	4	6	1	20	80
MF240.050020L	5	6	0,2	25	80
MF240.050050L	5	6	0,5	25	80
MF240.050100L	5	6	1	25	80
MF240.060020L	6	6	0,2	25	80
MF240.060050L	6	6	0,5	25	80
MF240.060100L	6	6	1	25	80
MF240.060200L	6	6	2	25	80
MF240.080050L	8	8	0,5	35	90
MF240.080100L	8	8	1	35	90
MF240.080200L	8	8	2	35	90
MF240.100050L	10	10	0,5	45	100
MF240.100100L	10	10	1	45	100
MF240.100200L	10	10	2	45	100
MF240.100300L	10	10	3	45	100
MF240.120050L	12	12	0,5	50	100
MF240.120100L	12	12	1	50	100
MF240.120200L	12	12	2	50	100
MF240.120300L	12	12	3	50	100



Fresa MD Tórica Z-2 - Con Cuello - Mango 6mm

- Corte Hélice: 30º - Modelo: Z-2
- Recubrimiento: AltiN-Nano - Material: Sub-Micrograno
- Uso: General - Dureza: <62HRC

Referencia	Diámetro Fresa	Radio	Longitud Corte	Longitud ø Reducido	Longitud Total
MF240.010010	1	0,1	1,5	5	57
MF240.010010L	1	0,1	1,5	12	65
MF240.010010L20	1	0,1	1,5	20	65
MF240.010025	1	0,25	1,5	5	57
MF240.010025L	1	0,25	1,5	12	65
MF240.010025L20	1	0,25	1,5	20	65
MF240.015010	1,5	0,1	2	5	57
MF240.015010L	1,5	0,1	2	12	65
MF240.015010L20	1,5	0,1	2	20	65
MF240.015010L25	1,5	0,1	2	25	65
MF240.015030	1,5	0,3	2	5	57
MF240.015030L	1,5	0,3	2	12	65
MF240.015030L20	1,5	0,3	2	20	65
MF240.015030L25	1,5	0,3	2	25	65
MF240.020020	2	0,2	3	10	80
MF240.020020L	2	0,2	3	15	80
MF240.020020L20	2	0,2	3	20	80
MF240.020020L25	2	0,2	3	25	80
MF240.020020L30	2	0,2	3	30	80
MF240.020020L40	2	0,2	3	40	80
MF240.020050	2	0,5	3	10	80
MF240.020050L	2	0,5	3	15	80
MF240.020050L20	2	0,5	3	20	80
MF240.020050L25	2	0,5	3	25	80
MF240.020050L30	2	0,5	3	30	80
MF240.020050L40	2	0,5	3	40	80



Fresa MD Tórica Z-2 - Con Cuello - Mango 6mm

- Corte Hélice: 30º - Modelo: Z-2
- Recubrimiento: AltiN-Nano - Material: Sub-Micrograno
- Uso: General - Dureza: <62HRC



Referencia	Diámetro Fresa	Radio	Longitud Corte	Longitud ø Reducido	Longitud Total
MF240.030020	3	0,2	5	15	80
MF240.030020L	3	0,2	5	20	80
MF240.030020L25	3	0,2	5	25	80
MF240.030020L30	3	0,2	5	30	80
MF240.030020L40	3	0,2	5	40	80
MF240.030050	3	0,5	5	15	80
MF240.030050L	3	0,5	5	20	80
MF240.030050L25	3	0,5	5	25	80
MF240.030050L30	3	0,5	5	30	80
MF240.030050L40	3	0,5	5	40	80
MF240.040020	4	0,2	6	20	80
MF240.040020L	4	0,2	6	30	80
MF240.040020L40	4	0,2	6	40	80
MF240.040050	4	0,5	6	20	80
MF240.040050L	4	0,5	6	30	80
MF240.040050L40	4	0,5	6	40	80
MF240.040100	4	1	6	20	80
MF240.040100L	4	1	6	30	80
MF240.040100L40	4	1	6	40	80
MF240.050020	5	0,2	7	25	80
MF240.050020L	5	0,2	7	30	80
MF240.050020L40	5	0,2	7	40	80
MF240.050050	5	0,5	7	25	80
MF240.050050L	5	0,5	7	30	80
MF240.050050L30	5	0,5	7	40	80
MF240.050100	5	1	7	25	80
MF240.050100L	5	1	7	30	80
MF240.050100L40	5	1	7	40	80

Fresa MD Tórica Z-2 - Cónica

- Corte Hélice: 30º - Modelo: Z-2
- Recubrimiento: AltiN-Nano - Material: Sub-Micrograno
- Uso: General - Dureza: <62HRC
- Conicidad 1º



Referencia	Diámetro Fresa	Diámetro Mango	Radio	Longitud Corte	Longitud Mango Reducido	Longitud Total
MF241.015030	1,5	6	0,3	2	43	109
MF241.015030L53	1,5	6	0,3	2	53	109
MF241.015030L63	1,5	6	0,3	2	63	109
MF241.020050	2	6	0,5	3	43	109
MF241.020050L53	2	6	0,5	3	53	109
MF241.020050L63	2	6	0,5	3	63	109
MF241.030050	3	6	0,5	5	44	109
MF241.030050L55	3	6	0,5	5	55	109
MF241.030050L65	3	6	0,5	5	65	109
MF241.040050	4	6	0,5	6	45	109
MF241.040050L55	4	6	0,5	6	55	109
MF241.040050L65	4	6	0,5	6	65	109
MF241.040100	4	6	1	6	45	109
MF241.040100L55	4	6	1	6	55	109
MF241.040100L65	4	6	1	6	65	109

Fresa MD Tórica Z-2 - Cónica

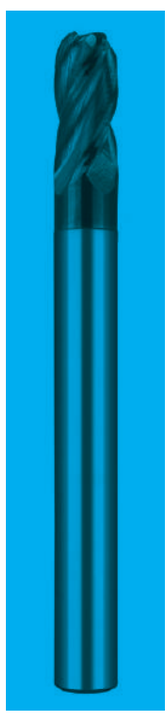
- Corte Hélice: 30º - Modelo: Z-2
- Recubrimiento: AltiN-Nano - Material: Sub-Micrograno
- Uso: General - Dureza: <62HRC
- Conicidad 1º



Referencia	Diámetro Fresa	Diámetro Mango	Radio	Longitud Corte	Longitud Mango Reducido	Longitud Total
MF241.050050	5	8	0,5	7	45	109
MF241.050050L55	5	8	0,5	7	55	109
MF241.050050L70	5	8	0,5	7	70	109
MF241.050100	5	8	1	7	45	109
MF241.050100L55	5	8	1	7	55	109
MF241.050100L70	5	8	1	7	70	109
MF241.060050	6	8	0,5	9	48	109
MF241.060050L55	6	8	0,5	9	55	109
MF241.060050L70	6	8	0,5	9	70	109
MF241.060100	6	8	1	9	48	109
MF241.060100L55	6	8	1	9	55	109
MF241.060100L70	6	8	1	9	70	109
MF241.060150	6	8	1,5	9	48	109
MF241.060150L55	6	8	1,5	9	55	109
MF241.060150L70	6	8	1,5	9	70	109
MF241.080050	8	10	0,5	10	48	109
MF241.080050L55	8	10	0,5	10	55	109
MF241.080050L70	8	10	0,5	10	70	109
MF241.080100	8	10	1	10	48	109
MF241.080100L55	8	10	1	10	55	109
MF241.080100L70	8	10	1	10	70	109
MF241.080150	8	10	1,5	10	48	109
MF241.080150L55	8	10	1,5	10	55	109
MF241.080150L70	8	10	1,5	10	70	109
MF241.080200	8	10	2	10	48	109
MF241.080200L55	8	10	2	10	55	109
MF241.080200L70	8	10	2	10	70	109

Fresa MD Tórica Z-4

- Corte Hélice: 30º - Modelo: Z-4
- Recubrimiento: AltiN-Nano - Material: Sub-Micrograno
- Uso: General - Dureza: <62HRC



Referencia	Diámetro Fresa	Diámetro Mango	Radio	Longitud Corte	Longitud Total
MF242.060020	6	6	0,2	13	80
MF242.060050	6	6	0,5	13	80
MF242.060100	6	6	1	13	80
MF242.060150	6	6	1,5	13	80
MF242.060200	6	6	2	13	80
MF242.080050	8	8	0,5	19	90
MF242.080100	8	8	1	19	90
MF242.080150	8	8	1,5	19	90
MF242.080200	8	8	2	19	90
MF242.100050	10	10	0,5	22	100
MF242.100100	10	10	1	22	100
MF242.100150	10	10	1,5	22	100
MF242.100200	10	10	2	22	100
MF242.100300	10	10	3	22	100
MF242.120050	12	12	0,5	26	100
MF242.120100	12	12	1	26	100
MF242.120150	12	12	1,5	26	100
MF242.120200	12	12	2	26	100
MF242.120300	12	12	3	26	100

Fresa MD Tórica Z-4 - Serie Larga

- Corte Hélice: 30º - Modelo: Z-4
- Recubrimiento: AltiN-Nano - Material: Sub-Micrograno
- Uso: General - Dureza: <62HRC



Referencia	Diámetro Fresa	Diámetro Mango	Radio	Longitud Corte	Longitud Total
MF242.020020L	2	6	0,2	10	80
MF242.020050L	2	6	0,5	10	80
MF242.030050L	3	6	0,5	15	80
MF242.040020L	4	6	0,2	20	80
MF242.040050L	4	6	0,5	20	80
MF242.040100L	4	6	1	20	80
MF242.050020L	5	6	0,2	25	80
MF242.050050L	5	6	0,5	25	80
MF242.050100L	5	6	1	25	80
MF242.060020L	6	6	0,2	25	80
MF242.060050L	6	6	0,5	25	80
MF242.060100L	6	6	1	25	80
MF242.060200L	6	6	2	25	80
MF242.080050L	8	8	0,5	35	90
MF242.080100L	8	8	1	35	90
MF242.080200L	8	8	2	35	90
MF242.100050L	10	10	0,5	45	100
MF242.100100L	10	10	1	45	100
MF242.100200L	10	10	2	45	100
MF242.100300L	10	10	3	45	100
MF242.120050L	12	12	0,5	50	100
MF242.120100L	12	12	1	50	100
MF242.120200L	12	12	2	50	100
MF242.120300L	12	12	3	50	100

Fresa MD Tórica Z-4 - Con Cuello - Mango 6mm

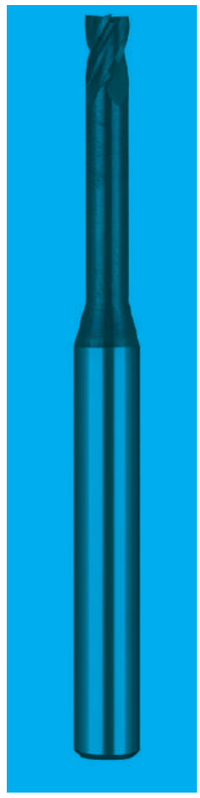
- Corte Hélice: 30º - Modelo: Z-4
- Recubrimiento: AltiN-Nano - Material: Sub-Micrograno
- Uso: General - Dureza: <62HRC



Referencia	Diámetro Fresa	Radio	Longitud Corte	Longitud ø Reducido	Longitud Total
MF242.020020	2	0,2	3	10	80
MF242.020020L15	2	0,2	3	15	80
MF242.020020L20	2	0,2	3	20	80
MF242.020020L25	2	0,2	3	25	80
MF242.020020L30	2	0,2	3	30	80
MF242.020020L40	2	0,2	3	40	80
MF242.020050	2	0,5	3	10	80
MF242.020050L15	2	0,5	3	15	80
MF242.020050L20	2	0,5	3	20	80
MF242.020050L25	2	0,5	3	25	80
MF242.020050L30	2	0,5	3	30	80
MF242.020050L40	2	0,5	3	40	80
MF242.030020	3	0,2	5	15	80
MF242.030020L20	3	0,2	5	20	80
MF242.030020L25	3	0,2	5	25	80
MF242.030020L30	3	0,2	5	30	80
MF242.030020L40	3	0,2	5	40	80
MF242.030050	3	0,5	5	15	80
MF242.030050L20	3	0,5	5	20	80
MF242.030050L25	3	0,5	5	25	80
MF242.030050L30	3	0,5	5	30	80
MF242.030050L40	3	0,5	5	40	80

Fresa MD Tórica Z-4 - Con Cuello - Mango 6mm

- Corte Hélice: 30º - Modelo: Z-4
- Recubrimiento: AltiN-Nano - Material: Sub-Micrograno
- Uso: General - Dureza: <62HRC



Referencia	Diámetro Fresa	Radio	Longitud Corte	Longitud ø Reducido	Longitud Total
MF242.040020	4	0,2	6	20	80
MF242.040020L30	4	0,2	6	30	80
MF242.040020L40	4	0,2	6	40	80
MF242.040050	4	0,5	6	20	80
MF242.040050L30	4	0,5	6	30	80
MF242.040050L40	4	0,5	6	40	80
MF242.040100	4	1	6	20	80
MF242.040100L30	4	1	6	30	80
MF242.040100L40	4	1	6	40	80
MF242.050020	5	0,2	7	25	80
MF242.050020L30	5	0,2	7	30	80
MF242.050020L40	5	0,2	7	40	80
MF242.050050	5	0,5	7	25	80
MF242.050050L30	5	0,5	7	30	80
MF242.050050L40	5	0,5	7	40	80
MF242.050100	5	1	7	25	80
MF242.050100L30	5	1	7	30	80
MF242.050100L40	5	1	7	40	80

Fresa MD Tórica Z-4 - Cónica

- Corte Hélice: 30º - Modelo: Z-4
- Recubrimiento: AltiN-Nano - Material: Sub-Micrograno
- Uso: General - Dureza: <62HRC
- Conicidad 1º



Referencia	Diámetro Fresa	Diámetro Mango	Radio	Longitud Corte	Longitud Mango Reducido	Longitud Total
MF243.020050	2	6	0,5	3	43	109
MF243.020050L53	2	6	0,5	3	53	109
MF243.020050L63	2	6	0,5	3	63	109
MF243.030050	3	6	0,5	5	44	109
MF243.030050L55	3	6	0,5	5	55	109
MF243.030050L65	3	6	0,5	5	65	109
MF243.040050	4	6	0,5	6	45	109
MF243.040050L55	4	6	0,5	6	55	109
MF243.040050L65	4	6	0,5	6	65	109
MF243.040100	4	6	1	6	45	109
MF243.040100L55	4	6	1	6	55	109
MF243.040100L65	4	6	1	6	65	109
MF243.050050	5	8	0,5	7	45	109
MF243.050050L55	5	8	0,5	7	55	109
MF243.050050L70	5	8	0,5	7	70	109
MF243.050100	5	8	1	7	45	109
MF243.050100L55	5	8	1	7	55	109
MF243.050100L70	5	8	1	7	70	109
MF243.060050	6	8	0,5	9	48	109
MF243.060050L55	6	8	0,5	9	55	109
MF243.060050L70	6	8	0,5	9	70	109
MF243.060100	6	8	1	9	48	109
MF243.060100L55	6	8	1	9	55	109
MF243.060100L70	6	8	1	9	70	109
MF243.060150	6	8	1,5	9	48	109
MF243.060150L55	6	8	1,5	9	55	109
MF243.060150L70	6	8	1,5	9	70	109

Fresa MD Tórica Z-4 - Cónica

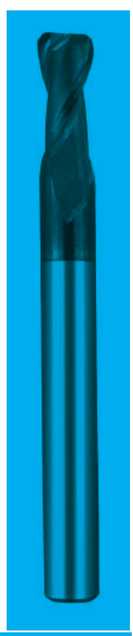
• Corte Hélice: 30º - Modelo: Z-4
• Recubrimiento: AltiN-Nano - Material: Sub-Micrograno
• Uso: General - Dureza: <62HRC
• Conicidad 1º



Referencia	Diámetro Fresa	Diámetro Mango	Radio	Longitud Corte	Longitud Mango Reducido	Longitud Total
MF243.080050	8	10	0,5	10	48	109
MF243.080050L55	8	10	0,5	10	55	109
MF243.080050L70	8	10	0,5	10	70	109
MF243.080100	8	10	1	10	48	109
MF243.080100L55	8	10	1	10	55	109
MF243.080100L70	8	10	1	10	70	109
MF243.080150	8	10	1,5	10	48	109
MF243.080150L55	8	10	1,5	10	55	109
MF243.080150L70	8	10	1,5	10	70	109
MF243.080200	8	10	2	10	48	109
MF243.080200L55	8	10	2	10	55	109
MF243.080200L70	8	10	2	10	70	109

Fresa MD Tórica Z-2 - Serie Extra Larga

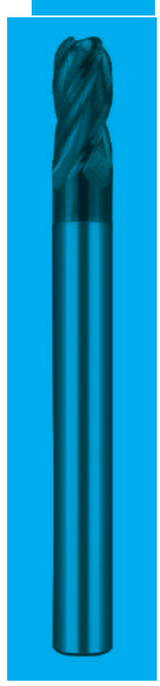
• Corte Hélice: 30º - Modelo: Z-2
• Recubrimiento: AltiN-Nano - Material: Sub-Micrograno
• Uso: General - Dureza: <62HRC



Referencia	Diámetro Fresa	Diámetro Amarre	Radio	Longitud Corte	Longitud Total
MF244.060050XL	6	6	0,5	13	150
MF244.060100XL	6	6	1	13	150
MF244.060150XL	6	6	1,5	13	150
MF244.060200XL	6	6	2	13	150
MF244.080050XL	8	8	0,5	19	150
MF244.080100XL	8	8	1	19	150
MF244.080150XL	8	8	1,5	19	150
MF244.080200XL	8	8	2	19	150
MF244.100050XL	10	10	0,5	22	150
MF244.100100XL	10	10	1	22	150
MF244.100200XL	10	10	2	22	150
MF244.100300XL	10	10	3	22	150
MF244.120050XL	12	12	0,5	26	150
MF244.120100XL	12	12	1	26	150
MF244.120200XL	12	12	2	26	150
MF244.120300XL	12	12	3	26	150

Fresa MD Tórica Z-4 - Serie Extra Larga

• Corte Hélice: 30º - Modelo: Z-4
• Recubrimiento: AltiN-Nano - Material: Sub-Micrograno
• Uso: General - Dureza: <62HRC



Referencia	Diámetro Fresa	Diámetro Amarre	Radio	Longitud Corte	Longitud Total
MF245.060050XL	6	6	0,5	13	150
MF245.060100XL	6	6	1	13	150
MF245.060150XL	6	6	1,5	13	150
MF245.060200XL	6	6	2	13	150
MF245.080050XL	8	8	0,5	19	150
MF245.080100XL	8	8	1	19	150
MF245.080150XL	8	8	1,5	19	150
MF245.080200XL	8	8	2	19	150
MF245.100050XL	10	10	0,5	22	150
MF245.100100XL	10	10	1	22	150
MF245.100200XL	10	10	2	22	150
MF245.100300XL	10	10	3	22	150
MF245.120050XL	12	12	0,5	26	150
MF245.120100XL	12	12	1	26	150
MF245.120200XL	12	12	2	26	150
MF245.120300XL	12	12	3	26	150

Fresa MD Tórica - Z4 Cuello Rebajado

- Corte Hélice: 30º - Modelo: Z-4
- Recubrimiento: AltiN-Nano - Material: Sub-Micrograno
- Uso: General - Dureza: <62HRC



Referencia	Diámetro Fresa	Diámetro Mango	Radio	Longitud Corte	Longitud Mango Reducido	Longitud Total
MF246.020020	2	6	0,2	3	21	57
MF246.020050	2	6	0,5	3	21	57
MF246.030020	3	6	0,2	5	21	57
MF246.030050	3	6	0,5	5	21	57
MF246.040050	4	6	0,5	6	21	57
MF246.040100	4	6	1	6	21	57
MF246.050050	5	6	0,5	7	21	57
MF246.050100	5	6	1	7	21	57
MF246.060050	6	6	0,5	7	21	57
MF246.060100	6	6	1	7	21	57
MF246.060150	6	6	1,5	7	21	57
MF246.060200	6	6	2	7	21	57
MF246.080050	8	8	0,5	9	27	63
MF246.080100	8	8	1	9	27	63
MF246.080150	8	8	1,5	9	27	63
MF246.080200	8	8	2	9	27	63
MF246.100050	10	10	0,5	11	32	72
MF246.100100	10	10	1	11	32	72
MF246.100150	10	10	1,5	11	32	72
MF246.100200	10	10	2	11	32	72
MF246.120050	12	12	0,5	13	38	83
MF246.120100	12	12	1	13	38	83
MF246.120150	12	12	1,5	13	38	83
MF246.120200	12	12	2	13	38	83
MF246.120300	12	12	3	13	38	83
MF246.160050	16	16	0,5	17	44	92
MF246.160100	16	16	1	17	44	92
MF246.160200	16	16	2	17	44	92
MF246.160300	16	16	3	17	44	92
MF246.160400	16	16	4	17	44	92

Fresa MD Tórica - Z4 Cuello Rebajado - Serie Larga

- Corte Hélice: 30º - Modelo: Z-4
- Recubrimiento: AltiN-Nano - Material: Sub-Micrograno
- Uso: General - Dureza: <62HRC



Referencia	Diámetro Fresa	Diámetro Mango	Radio	Longitud Corte	Longitud Mango Reducido	Longitud Total
MF247.060020L20	6	6	0,2	7	20	80
MF247.060020L30	6	6	0,2	7	30	80
MF247.060020L45	6	6	0,2	7	45	80
MF247.060050L20	6	6	0,5	7	20	80
MF247.060050L30	6	6	0,5	7	30	80
MF247.060050L45	6	6	0,5	7	45	80
MF247.060100L20	6	6	1	7	20	80
MF247.060100L30	6	6	1	7	30	80
MF247.060100L45	6	6	1	7	45	80
MF247.060150L20	6	6	1,5	7	20	80
MF247.060150L30	6	6	1,5	7	30	80
MF247.060150L45	6	6	1,5	7	45	80
MF247.060200L20	6	6	2	7	20	80
MF247.060200L30	6	6	2	7	30	80
MF247.060200L45	6	6	2	7	45	80

Fresa MD Tórica - Z4 Cuello Rebajado - Serie Larga

- Corte Hélice: 30º - Modelo: Z-4
- Recubrimiento: AltiN-Nano - Material: Sub-Micrograno
- Uso: General - Dureza: <62HRC



Referencia	Diámetro Fresa	Diámetro Mango	Radio	Longitud Corte	Longitud Mango Reducido	Longitud Total
MF247.080050L25	8	8	0,5	9	25	90
MF247.080050L40	8	8	0,5	9	40	90
MF247.080050L55	8	8	0,5	9	55	90
MF247.080100L25	8	8	1	9	25	90
MF247.080100L40	8	8	1	9	40	90
MF247.080100L55	8	8	1	9	55	90
MF247.080150L25	8	8	1,5	9	25	90
MF247.080150L40	8	8	1,5	9	40	90
MF247.080150L55	8	8	1,5	9	55	90
MF247.080200L25	8	8	2	9	25	90
MF247.080200L40	8	8	2	9	40	90
MF247.080200L55	8	8	2	9	55	90
MF247.100050L30	10	10	0,5	11	30	100
MF247.100050L45	10	10	0,5	11	45	100
MF247.100050L60	10	10	0,5	11	60	100
MF247.100100L30	10	10	1	11	30	100
MF247.100100L45	10	10	1	11	45	100
MF247.100100L60	10	10	1	11	60	100
MF247.100200L30	10	10	2	11	30	100
MF247.100200L45	10	10	2	11	45	100
MF247.100200L60	10	10	2	11	60	100
MF247.100300L30	10	10	3	11	30	100
MF247.100300L45	10	10	3	11	45	100
MF247.100300L60	10	10	3	11	60	100
MF247.120050L30	12	12	0,5	13	30	100
MF247.120050L45	12	12	0,5	13	45	100
MF247.120050L60	12	12	0,5	13	60	100
MF247.120100L30	12	12	1	13	30	100
MF247.120100L45	12	12	1	13	45	100
MF247.120100L60	12	12	1	13	60	100
MF247.120200L30	12	12	2	13	30	100
MF247.120200L45	12	12	2	13	45	100
MF247.120200L60	12	12	2	13	60	100
MF247.120300L30	12	12	3	13	30	100
MF247.120300L45	12	12	3	13	45	100
MF247.120300L60	12	12	3	13	60	100
MF247.160050L75	16	16	0,5	20	75	150
MF247.160100L75	16	16	1	20	75	150
MF247.160200L75	16	16	2	20	75	150
MF247.160300L75	16	16	3	20	75	150
MF247.160400L75	16	16	4	20	75	150

Fresa MD Hélice Variable – Z4

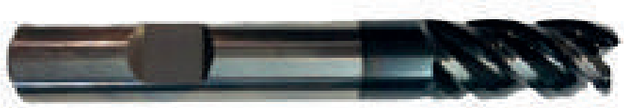
- Corte Hélice: 35/38º - Modelo: Z-4
- Recubrimiento: ALTIN-TITAN - Material: Micrograno 0.6um
- Uso: General - Dureza: <56HRC - Mango: Cilíndrico / Weldon
- Claflán en esquina 45º



Referencia Mango Cilíndrico	Referencia Mango Weldon	Diámetro Fresa	Diámetro Mango	Longitud Corte	C-45º	Longitud Total
MF252.0300	MF253.0300	3	6	8	0.05	50
MF252.0400	MF253.0400	4	6	11	0.05	50
MF252.0500	MF253.0500	5	6	13	0.07	50
MF252.0600	MF253.0600	6	6	16	0.10	50
MF252.0800	MF253.0800	8	8	19	0.15	60
MF252.1000	MF253.1000	10	10	22	0.15	73
MF252.1200	MF253.1200	12	12	26	0.25	75
MF252.1201		12	12	35	0.25	83
MF252.1400	MF253.1400	14	14	30	0.30	85
MF252.1600	MF253.1600	16	16	32	0.35	85
MF252.1601		16	16	45	0.35	100
MF252.1602		16	16	52	0.35	100
MF252.1603		16	16	65	0.35	150
MF252.2000	MF253.2000	20	20	38	0.35	100
MF252.2001		20	20	55	0.35	104
MF252.2002		20	20	70	0.35	150

Fresa MD Hélice Variable Plus – Z4

- Corte Hélice: 35/38º
- Modelo: Z-4
- Recubrimiento: AltinNano
- Material: Micrograno 0.6um
- Uso: General - Dureza: <56HRC
- Mango: Cilíndrico o Weldon
- Clafán en esquina 45º



Referencia Mango Cilíndrico	Referencia Mango Weldon	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Cuello Rebajado	C-45º	Longitud Total
MF255.030	MF256.030	3	6	8	20	0.05	57
MF255.040	MF256.040	4	6	11	20	0.05	57
MF255.050	MF256.050	5	6	13	21	0.07	57
MF255.060	MF256.060	6	6	13	21	0.10	57
MF255.080	MF256.080	8	8	19	27	0.15	63
MF255.100	MF256.100	10	10	22	32	0.15	73
MF255.120	MF256.120	12	12	26	38	0.20	83
MF255.140	MF256.140	14	14	30	40	0.20	84
MF255.160	MF256.160	16	16	32	44	0.30	92
MF255.200	MF256.200	20	20	38	55	0.30	104

Fresa MD Hélice Variable TOP – Z4

- Corte Hélice: 43/45º
- Modelo: Z-4
- Recubrimiento: AlcrN
- Material: Micrograno 0.6um
- Uso: General - Dureza: <56HRC
- Mango: Cilíndrico o Weldon
- Claflán en esquina



Referencia Mango Cilíndrico	Referencia Mango Weldon	Diámetro Fresa	Diámetro Mango	Longitud Corte	C-45º	Longitud Total
MF260.060	MF261.060	6	6	13	0.20	57
MF260.080	MF261.080	8	8	19	0.25	63
MF260.100	MF261.100	10	10	22	0.35	73
MF260.120	MF261.120	12	12	26	0.35	83
MF260.140	MF261.140	14	14	30	0.40	84
MF260.160	MF261.160	16	16	32	0.40	92
MF260.200	MF261.200	20	20	38	0.40	104

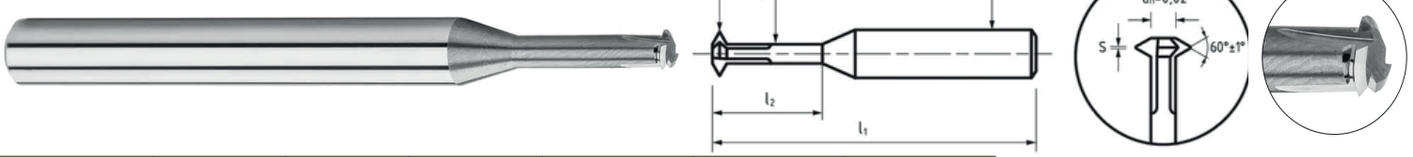
Fresa MD Hélice Variable TOP – Z4 - Cuello Reducido

- Corte Hélice: 43/45º
- Modelo: Z-4
- Recubrimiento: AlcrN
- Material: Micrograno 0.6um
- Uso: General - Dureza: <56HRC
- Cuello Reducido
- Mango: Cilíndrico o Weldon
- Claflán en esquina



Referencia Mango Cilíndrico	Referencia Mango Weldon	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Cuello Rebajado	C-45º	Longitud Total
MF262.030	MF263.030	3	6	8	11	0.07	57
MF262.030L	MF263.030L	3	6	8	20	0.07	57
MF262.040	MF263.040	4	6	11	14	0.09	57
MF262.040L	MF263.040L	4	6	11	20	0.09	57
MF262.050	MF263.050	5	6	13	16	0.12	57
MF262.050L	MF263.050L	5	6	13	20	0.12	57
MF262.060	MF263.060	6	6	13	21	0.20	57
MF262.080	MF263.080	8	8	19	27	0.25	63
MF262.100	MF263.100	10	10	22	32	0.35	73
MF262.120	MF263.120	12	12	26	38	0.35	83
MF262.140	MF263.140	14	14	30	40	0.40	84
MF262.160	MF263.160	16	16	32	44	0.40	92
MF262.200	MF263.200	20	20	38	55	0.40	104

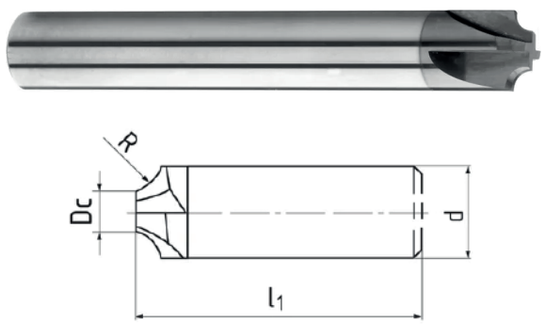
Fresa MD - Para Roscado



Referencia	Métrica	D	S	d | ± 0,05	l1	l2
MF264.008	M0,8	0,57	0,01	3	39	2,4
MF264.009	M0,9	0,64	0,01	3	39	2,7
MF264.010	M1	0,71	0,015	3	39	3
MF264.012	M1,2	0,91	0,015	3	39	3,6
MF264.014	M1,4	1,06	0,2	3	39	4,2
MF264.016	M1,6	1,2	0,2	3	39	4,8
MF264.018	M1,8	1,35	0,2	3	39	5,5
MF264.020	M2	1,5	0,2	3	39	6
MF264.025	M2,5	1,9	0,025	3	39	7
MF264.030	M3	2,3	0,03	6	66	9
MF264.040	M4	3,1	0,04	6	66	12
MF264.050	M5	4	0,05	6	66	15
MF264.060	M6	4,8	0,07	6	75	18
MF264.080	M8	6,5	0,08	6	80	22
MF264.100	M10	7,9	0,09	6	80	26

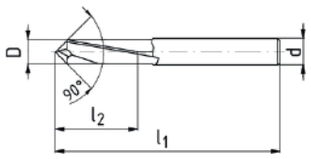
Fresa Concava MD

Referencia	R	Dc	d - h6	l1	Z
MF266.005	0,5	5	6	57	4
MF266.010	1	4	6	57	4
MF266.015	1,5	5	8	63	4
MF266.020	2	4	8	63	4
MF266.025	2,5	5	10	72	4
MF266.030	3	4	12	72	4
MF266.035	3,5	5	12	83	4
MF266.040	4	4	12	83	4
MF266.050	5	4	14	83	4

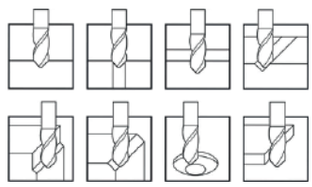


Fresa Multifunción 90º - Z2





Referencia	α | K12	D | h6	d	l1	l2	Z
MF268.030	90°	3	4	50	6	2
MF268.040	90°	4	5	50	8	2
MF268.050	90°	5	6	50	10	2
MF268.060	90°	6	8	60	12	2
MF268.080	90°	8	10	60	16	2
MF268.100	90°	10	12	70	18	2
MF268.120	90°	12	12	70	20	2



Fresa MD Achlaflanar 60º

Referencia 60º	Diámetro	Diámetro Mango	Longitud Total
MF350.040	4	4	50
MF350.060	6	6	50
MF350.080	8	8	60
MF350.100	10	10	72
MF350.120	12	12	75



- Modelo: Z-4
- Recubrimiento: Altin
- Uso: General
- Modelo 60º

Fresa MD Achlaflanar 90º



- Modelo: Z-4 / Z-6
- Recubrimiento: Altin
- Uso: General
- Modelo 90º

Referencia 90º	Diámetro	Diámetro Mango	Longitud Total	Z
MF352.040	4	4	50	4
MF352.060	6	6	50	4
MF352.080	8	8	60	4
MF352.086	8	8	60	6
MF352.100	10	10	72	4
MF352.1006	10	10	72	6
MF352.120	12	12	75	4
MF352.1206	12	12	75	6
MF352.160	16	16	92	4
MF352.1606	16	16	92	6

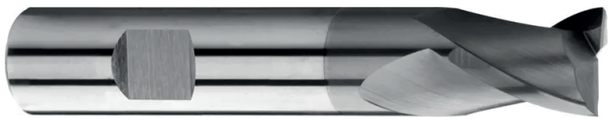
¿ Necesitas otros servicios de Herramienta de Corte?

- Afilados especiales
- Re-afilados de herramienta
- Recubrimientos PVD
- Herramienta Especial
- Programación de Pedidos
- Servicio de verificación



Fresa MD – NXPro - Weldon Z-2

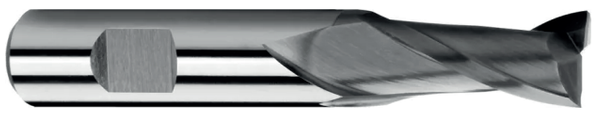
Referencia	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Total	Z
MF414.030	3	6	4	50	2
MF414.035	3.5	6	4	50	2
MF414.040	4	6	5	5v4	2
MF414.045	4.5	6	5	54	2
MF414.050	5	6	6	54	2
MF414.060	6	6	7	54	2
MF414.070	7	8	8	58	2
MF414.080	8	8	9	58	2
MF414.090	9	10	10	66	2
MF414.100	10	10	11	66	2
MF414.120	12	12	12	73	2
MF414.140	14	14	14	75	2
MF414.160	16	16	16	82	2
MF414.180	18	18	18	84	2
MF414.200	20	20	20	92	2



- Corte Hélice: 30º
- Modelo: Z-2
- Recubrimiento: AlTin
- Amarre: Weldon

Fresa MD – NXPro - Serie Larga - Weldon Z-2

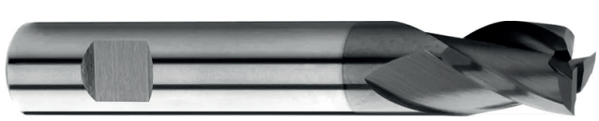
Referencia	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Total	Z
MF415.030	3	6	7	57	2
MF415.035	3.5	6	7	57	2
MF415.040	4	6	8	57	2
MF415.045	4.5	6	8	57	2
MF415.050	5	6	10	57	2
MF415.060	6	6	10	57	2
MF415.070	7	8	13	63	2
MF415.080	8	8	16	63	2
MF415.090	9	10	16	72	2
MF415.100	10	10	19	72	2
MF415.120	12	12	22	83	2
MF415.140	14	14	22	83	2
MF415.160	16	16	26	92	2
MF415.180	18	18	26	92	2
MF415.200	20	20	32	104	2



- Corte Hélice: 30º
- Modelo: Z-2
- Recubrimiento: AlTin
- Amarre: Weldon
- Serie Larga

Fresa MD – NXPro - Weldon Z-3

Referencia	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Total	Z
MF416.030	3	6	4	50	3
MF416.035	3.5	6	4	50	3
MF416.040	4	6	5	54	3
MF416.045	4.5	6	5	54	3
MF416.050	5	6	6	54	3
MF416.060	6	6	7	54	3
MF416.070	7	8	8	58	3
MF416.080	8	8	9	58	3
MF416.090	9	10	10	66	3
MF416.100	10	10	11	66	3
MF416.120	12	12	12	73	3
MF416.140	14	14	14	75	3
MF416.160	16	16	16	82	3
MF416.180	18	18	18	84	3
MF416.200	20	20	20	92	3



- Corte Hélice: 30º
- Modelo: Z-3
- Recubrimiento: AlTin
- Amarre: Weldon

Fresa MD – NXPro - Serie Larga - Weldon Z-3

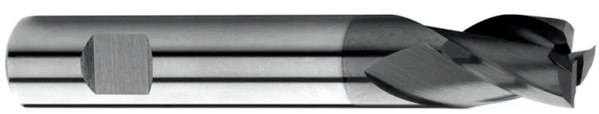
Referencia	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Total	Z
MF417.030	3	6	7	57	3
MF417.035	3.5	6	7	57	3
MF417.040	4	6	8	57	3
MF417.045	4.5	6	8	57	3
MF417.050	5	6	10	57	3
MF417.060	6	6	10	57	3
MF417.070	7	8	13	63	3
MF417.080	8	8	16	63	3
MF417.090	9	10	16	72	3
MF417.100	10	10	19	72	3
MF417.120	12	12	22	83	3
MF417.140	14	14	22	83	3
MF417.160	16	16	26	92	3
MF417.180	18	18	26	92	3
MF417.200	20	20	32	104	3



- Corte Hélice: 30º
- Modelo: Z-3
- Recubrimiento: AlTin
- Amarre: Weldon
- Serie Larga

Fresa MD – NXPro - Weldon Z-3

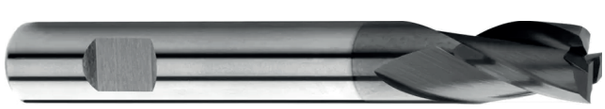
Referencia	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Total	Z
MF418.030	3	6	4	50	3
MF418.035	3.5	6	4	50	3
MF418.040	4	6	5	54	3
MF418.045	4.5	6	5	54	3
MF418.050	5	6	6	54	3
MF418.060	6	6	7	54	3
MF418.070	7	8	8	58	3
MF418.080	8	8	9	58	3
MF418.090	9	10	10	66	3
MF418.100	10	10	11	66	3
MF418.120	12	12	12	73	3
MF418.140	14	14	14	75	3
MF418.160	16	16	16	82	3
MF418.180	18	18	18	84	3
MF418.200	20	20	20	92	3



- Corte Hélice: 45º
- Modelo: Z-3
- Recubrimiento: AlTin
- Amarre: Weldon

Fresa MD – NXPro - Serie Larga - Weldon Z-3

Referencia	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Total	Z
MF419.030	3	6	7	57	3
MF419.035	3.5	6	7	57	3
MF419.040	4	6	8	57	3
MF419.045	4.5	6	8	57	3
MF419.050	5	6	10	57	3
MF419.060	6	6	10	57	3
MF419.070	7	8	13	63	3
MF419.080	8	8	16	63	3
MF419.090	9	10	16	72	3
MF419.100	10	10	19	72	3
MF419.120	12	12	22	83	3
MF419.140	14	14	22	83	3
MF419.160	16	16	26	92	3
MF419.180	18	18	26	92	3
MF419.200	20	20	32	104	3



- Corte Hélice: 45º
- Modelo: Z-3
- Recubrimiento: AlTin
- Amarre: Weldon
- Serie Larga

Fresa MD – NXPro - Weldon Z-4

Referencia	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Total	Z
MF420.030	3	6	4	50	4
MF420.035	3.5	6	4	50	4
MF420.040	4	6	5	54	4
MF420.045	4.5	6	5	54	4
MF420.050	5	6	6	54	4
MF420.060	6	6	7	54	4
MF420.070	7	8	8	58	4
MF420.080	8	8	9	58	4
MF420.090	9	10	10	66	4
MF420.100	10	10	11	66	4
MF420.120	12	12	12	73	4
MF420.140	14	14	14	75	4
MF420.160	16	16	16	82	4
MF420.180	18	18	18	84	4
MF420.200	20	20	20	92	4



- Corte Hélice: 30º
- Modelo: Z-4
- Recubrimiento: AlTin
- Amarre: Weldon

Fresa MD – NXPro - Serie Larga - Weldon Z-4

Referencia	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Total	Z
MF421.030	3	6	7	57	4
MF421.035	3.5	6	7	57	4
MF421.040	4	6	8	57	4
MF421.045	4.5	6	8	57	4
MF421.050	5	6	10	57	4
MF421.060	6	6	10	57	4
MF421.070	7	8	13	63	4
MF421.080	8	8	16	63	4
MF421.090	9	10	16	72	4
MF421.100	10	10	19	72	4
MF421.120	12	12	22	83	4
MF421.140	14	14	22	83	4
MF421.160	16	16	26	92	4
MF421.180	18	18	26	92	4
MF421.200	20	20	32	104	4



- Corte Hélice: 30º
- Modelo: Z-4
- Recubrimiento: AlTin
- Amarre: Weldon
- Serie Larga

Fresa MD – NXPro - Weldon Z-6

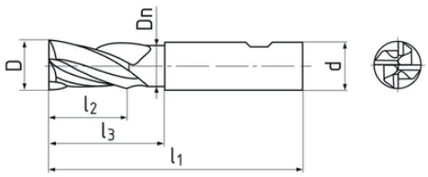
Referencia	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Total	Z
MF422.060	6	6	18	62	6
MF422.080	8	8	24	68	6
MF422.100	10	10	30	80	6
MF422.120	12	12	36	93	6
MF422.140	14	14	45	100	6
MF422.160	16	16	48	108	6
MF422.180	18	18	55	115	6
MF422.200	20	20	60	126	8
Serie Extra Larga Z-6					
MF423.060	6	6	36	80	6
MF423.080	8	8	46	90	6
MF423.100	10	10	50	100	6
MF423.120	12	12	65	120	6
MF423.160	16	16	80	140	6
MF423.200	20	20	94	160	8



- Corte Hélice: 45º
- Modelo: Z-6
- Recubrimiento: AlTin
- Amarre: Weldon
- Serie Larga Y Extra Larga

Fresa MD Variable – NXPro - Weldon Z-4

- Corte Hélice: 40/42º
- Modelo: Z-4
- Recubrimiento: Alcr
- Amarre: Weldon

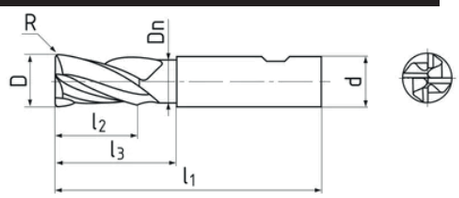


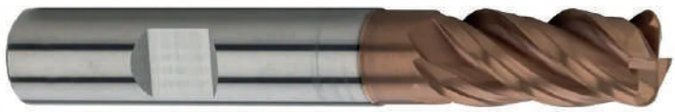


Referencia	Diámetro Fresa	Diámetro Mango	Dn Reducido	l3 - Longitud Reducida	Longitud Corte	Longitud Total	Z
MF424.030	3	6	8.8	14	8	57	4
MF424.035	3.5	6	3.3	16	10	57	4
MF424.040	4	6	3.8	16	11	57	4
MF424.045	4.5	6	4.3	18	11	57	4
MF424.050	5	6	4.8	18	13	57	4
MF424.060	6	6	5.7	19	13	57	4
MF424.080	8	8	7.6	25	19	63	4
MF424.100	10	10	9.5	30	22	72	4
MF424.120	12	12	11.5	36	26	83	4
MF424.140	14	14	13.5	36	26	83	4
MF424.160	16	16	15.5	42	32	92	4
MF424.180	18	18	17.5	42	32	92	4
MF424.200	20	20	19.5	52	38	104	4

Fresa MD Variable Tórica – NXPro - Weldon Z-4

- Corte Hélice: 40/42º
- Modelo: Z-4
- Recubrimiento: Alcr
- Amarre: Weldon

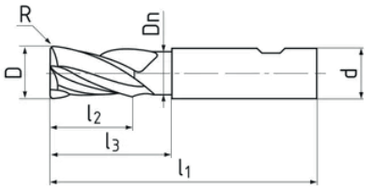




Referencia	Diámetro Fresa	Diámetro Mango	Dn Reducido	l3 - Longitud Reducida	Radio	Longitud Corte	Longitud Total	Z
MF425.06005	6	6	5.7	19	0.5	13	57	4
MF425.06010	6	6	5.7	19	1	13	57	4
MF425.08005	8	8	7.6	25	0.5	19	63	4
MF425.08010	8	8	7.6	25	1	19	63	4
MF425.10005	10	10	9.5	30	0.5	22	72	4
MF425.10010	10	10	9.5	30	1	22	72	4
MF425.10020	10	10	9.5	30	2	22	72	4
MF425.12005	12	12	11.5	36	0.5	26	83	4
MF425.12010	12	12	11.5	36	1	26	83	4
MF425.12020	12	12	11.5	36	2	26	83	4
MF425.16005	16	16	15.5	42	0.5	32	92	4
MF425.16010	16	16	15.5	42	1	32	92	4
MF425.16020	16	16	15.5	42	2	32	92	4

Fresa MD Variable Tórica – NXPro - Weldon Z-5

- Corte Hélice: 37/38º
- Modelo: Z-5
- Recubrimiento: AlcrN
- Amarre: Weldon
- Cuello Rebajado
- Uso Fresado Trocoidal

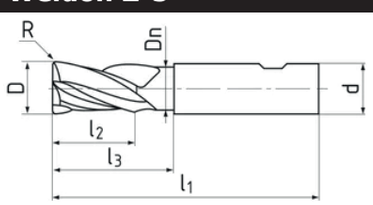


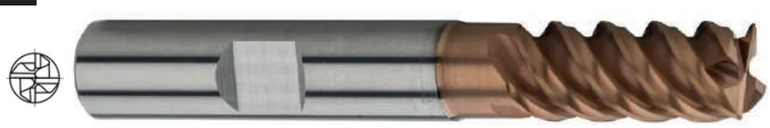


Referencia	Diámetro Fresa	Diámetro Mango	Dn Reducido	l3 - Longitud Reducida	Longitud Corte	Longitud Total	Radio (R)	Z
MF427.060	6	6	5.7	24	18	62	-	5
MF427.06005	6	6	5.7	24	18	62	0.5	5
MF427.060010	6	6	5.7	24	18	62	1	5
MF427.080	8	8	7.6	30	24	68	-	5
MF427.08005	8	8	7.6	30	24	68	0.5	5
MF427.08010	8	8	7.6	30	24	68	1	5
MF427.100	10	10	9.5	38	30	80	-	5
MF427.10005	10	10	9.5	38	30	80	0.5	5
MF427.10010	10	10	9.5	38	30	80	1	5
MF427.10020	10	10	9.5	38	30	80	2	5
MF427.120	12	12	11.5	46	36	93	-	5
MF427.12005	12	12	11.5	46	36	93	0.5	5
MF427.12010	12	12	11.5	46	36	93	1	5
MF427.12020	12	12	11.5	46	36	93	2	5
MF427.160	16	16	15.5	58	48	108	-	5
MF427.16005	16	16	15.5	58	48	108	0.5	5
MF427.16010	16	16	15.5	58	48	108	1	5
MF427.16020	16	16	15.5	58	48	108	2	5
MF427.200	20	20	19.5	74	60	126	-	5
MF427.20010	20	20	19.5	74	60	126	1	5
MF427.20020	20	20	19.5	74	60	126	2	5
MF427.20030	20	20	19.5	74	60	126	3	5
MF427.250	25	25	24	92	75	150	-	5

Fresa MD – NXSP - Weldon Z-5

- Corte Hélice: 55º
- Modelo: Z-4
- Recubrimiento: Alcr
- Amarre: Weldon
- Uso materiales especiales

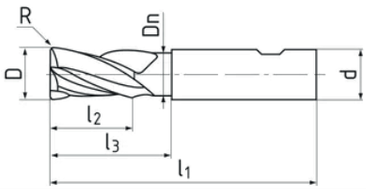




Referencia	Diámetro Fresa	Diámetro Mango	Dn Reducido	l3 - Longitud Reducida	Longitud Corte	Longitud Total	Z
MF428.060	6	6	5.7	19	13	57	5
MF428.080	8	8	7.6	25	19	63	5
MF428.100	10	10	9.5	30	22	2	5
MF428.120	12	12	11.5	36	26	83	5
MF428.140	14	14	13.5	36	26	83	5
MF428.160	16	16	15.5	42	32	92	5
MF428.180	18	18	17.5	42	32	92	5
MF428.200	20	20	19.5	52	38	104	5

Fresa MD Variable Tórica – NXPro - Weldon Z-5

- Corte Hélice: 41/42
- Modelo: Z-5
- Recubrimiento: Alcr
- Amarre: Weldon
- Cuello Rebajado
- Uso Fresado Trocoidal

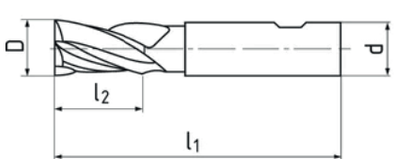




Referencia	Diámetro Fresa	Diámetro Mango	Dn Reducido	l3 - Longitud Reducida	Longitud Corte	Longitud Total	Radio (R)	Z
MF429.060	6	6	5.7	24	18	62	-	5
MF429.06005	6	6	5.7	24	18	62	0.5	5
MF429.060010	6	6	5.7	24	18	62	1	5
MF429.080	8	8	7.6	30	24	68	-	5
MF429.08005	8	8	7.6	30	24	68	0.5	5
MF429.08010	8	8	7.6	30	24	68	1	5
MF429.100	10	10	9.5	38	30	80	-	5
MF429.10005	10	10	9.5	38	30	80	0.5	5
MF429.10010	10	10	9.5	38	30	80	1	5
MF429.10020	10	10	9.5	38	30	80	2	5
MF429.120	12	12	11.5	46	36	93	-	5
MF429.12005	12	12	11.5	46	36	93	0.5	5
MF429.12010	12	12	11.5	46	36	93	1	5
MF429.12020	12	12	11.5	46	36	93	2	5
MF429.160	16	16	15.5	58	48	108	-	5
MF429.16005	16	16	15.5	58	48	108	0.5	5
MF429.16010	16	16	15.5	58	48	108	1	5
MF429.16020	16	16	15.5	58	48	108	2	5
MF429.200	20	20	19.5	74	60	126	-	5
MF429.20010	20	20	19.5	74	60	126	1	5
MF429.20020	20	20	19.5	74	60	126	2	5
MF429.20030	20	20	19.5	74	60	126	3	5
MF429.250	25	25	24	92	75	150	-	5

Fresa MD Desbaste – NXPro - Weldon Z-4

- Corte Hélice: 45º
- Modelo: Z-4
- Recubrimiento: AlTin
- Amarre: Weldon
- Desbaste con rompeviruta

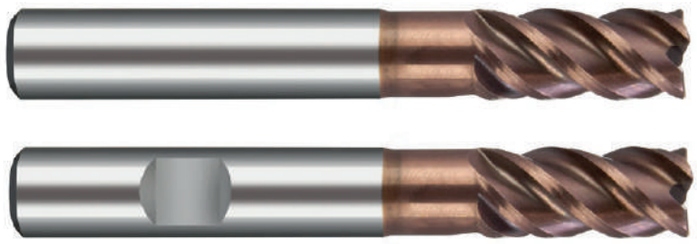




Referencia	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Total	Z
MF430.040	4	6	11	57	4
MF430.050	5	6	13	57	4
MF430.060	6	6	13	57	4
MF430.080	8	8	19	63	4
MF430.100	10	10	22	72	4
MF430.120	12	12	26	83	4
MF430.140	14	14	26	83	4
MF430.160	16	16	32	92	4
MF430.180	18	18	32	92	4
MF430.200	20	20	38	104	4

Fresa MD Variable NXTita – Z4

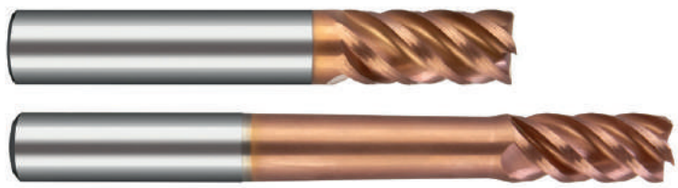
- Corte Hélice Variable : 43/45º
- Modelo: Z-4
- Recubrimiento: ALTIN TITAN
- Amarre: Cilíndrico / Weldon
- Para uso en materiales: Acero Inoxidable, Titanio, Aleaciones Titanio y Aleaciones Resistentes al Calor.



Referencia	Referencia Mango Weldon	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Mango Rebajado	Chaflán 45º	Longitud Total
MF431.030	MF432.030	3	6	8	11	0,07	57
MF431.0301	MF432.0301	3	6	8	20	0,07	57
MF431.040	MF432.040	4	6	11	14	0,09	57
MF431.0401	MF432.0401	4	6	11	20	0,09	57
MF431.050	MF432.050	5	6	13	16	0,12	57
MF431.0501	MF432.0501	5	6	13	21	0,12	57
MF431.060	MF432.060	6	6	13	21	0,2	57
MF431.080	MF432.080	8	8	19	27	0,25	63
MF431.100	MF432.100	10	10	22	32	0,35	73
MF431.120	MF432.120	12	12	26	38	0,35	83
MF431.140	MF432.140	14	14	30	40	0,4	84
MF431.160	MF432.160	16	16	32	44	0,5	92
MF431.180	MF432.180	20	20	38	55	0,5	104

Fresa MD Hélice Variable - Z5 Refrigerada

- Corte Hélice Variable : 43/45º
- Modelo: Z-5
- Mango reducido cónico a 1º
- Hasta 56HRC
- Refrigeración Central
- Recubrimiento: ALTIN TITAN
- Amarre: Cilíndrico
- Uso General de alto rendimiento



Referencia	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Rebajado	Chaflán 45º	Longitud Total
MF433.0600	6	6	14	-	0,1	53
MF433.0601	6	6	14	32	0,1	65
MF433.0602	6	6	14	42	0,1	75
MF433.0603	6	6	14	51	0,1	81
MF433.0800	8	8	18	-	0,1	60
MF433.0801	8	8	18	42	0,1	75
MF433.0802	8	8	18	58	0,1	90
MF433.0803	8	8	18	71	0,1	109
MF433.1000	10	10	22	-	0,15	65
MF433.1001	10	10	22	51	0,15	81
MF433.1002	10	10	22	71	0,15	109
MF433.1003	10	10	22	82	0,15	109
MF433.1200	12	12	26	-	0,2	81
MF433.1201	12	12	26	51	0,2	81
MF433.1202	12	12	26	71	0,2	109
MF433.1203	12	12	26	86	0,2	117
MF433.1600	16	16	38	-	0,2	81
MF433.1601	16	16	38	61	0,2	109
MF433.1602	16	16	38	76	0,2	109
MF433.1603	16	16	38	101	0,2	150
MF433.2000	20	20	45	-	0,2	100
MF433.2001	20	20	45	71	0,2	109
MF433.2002	20	20	45	86	0,2	130
MF433.2003	20	20	45	101	0,2	150

Fresa MD Hélice Variable - Z5 Refrigerada Radio

- Corte Hélice Variable : 43/45º
- Modelo: Z-5 - Con Radio
- Mango reducido cónico a 1º
- Hasta 56HRC
- Refrigeración Central
- Recubrimiento: ALTIN TITAN
- Amarre: Cilíndrico
- Uso General de alto rendimiento



Referencia	Diámetro Fresa	Diámetro Mango	Longitud Corte	Radio	Longitud Rebajada	Chaflán 45º	Longitud Total
MF434.0605	6	6	14	0,5	-	0,5	53
MF434.0601	6	6	14	0,5	32	0,5	65
MF434.0602	6	6	14	0,5	42	0,5	75
MF434.0603	6	6	14	0,5	51	0,5	81
MF434.0801	8	8	18	0,5	-	0,5	60
MF434.0802	8	8	18	0,5	42	0,5	75
MF434.0803	8	8	18	0,5	58	0.5	90
MF434.0804	8	8	18	0,5	71	0,5	109
MF434.1000	10	10	22	0,5	-	0,5	65
MF434.1001	10	10	22	0,5	51	0,5	81
MF434.1002	10	10	22	0,5	71	0,5	109
MF434.1003	10	10	22	0,5	82	0,5	109
MF434.1200	12	12	26	1	-	1	81
MF434.1201	12	12	26	1	51	1	81
MF434.1202	12	12	26	1	71	1	109
MF434.1203	12	12	26	1	86	1	117
MF434.1600	16	16	38	2	-	2	81
MF434.1601	16	16	38	2	61	2	109
MF434.1602	16	16	38	2	76	2	109
MF434.1603	16	16	38	2	101	2	150
MF434.2000	20	20	45	2	-	2	100
MF434.2001	20	20	45	2	71	2	109
MF434.2002	20	20	45	2	86	2	130
MF434.2003	20	20	45	2	101	2	150

Fresa MD Bola Hélice Variable

- Corte Hélice Variable : 38º
- Modelo: Z-4
- Hasta 65HRC
- Recubrimiento: ALTISIN
- Amarre: Cilíndrico
- Uso General de alto rendimiento



Referencia	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Total
MF435.0600	6	6	8	50
MF435.0601	6	6	8	80
MF435.0602	6	6	8	100
MF435.0603	6	6	8	150
MF435.0800	8	8	10	60
MF435.0801	8	8	10	100
MF435.0802	8	8	10	150
MF435.1000	10	10	13	72
MF435.1001	10	10	13	100
MF435.1002	10	10	13	150
MF435.1003	10	10	13	200
MF435.1200	12	12	15	75
MF435.1201	12	12	15	100
MF435.1202	12	12	15	150
MF435.1203	12	12	15	200

Fresa MD Alto Avance

- Corte Hélice: 0º
- Modelo: Z-4
- Hasta 65HRC
- Recubrimiento: ALTISIN
- Amarre: Cilíndrico
- Uso General de alto rendimiento



Referencia	Diámetro Fresa	Diámetro Mango	Radio	Longitud Corte	Longitud Rebajada	LongitudTotal
MF450.030	3	6	0,5	1,5	12	60
MF450.040	4	6	0,5	2	12	60
MF450.041	4	6	1	2	12	60
MF450.060	6	6	1	3	14	60
MF450.061	6	6	1.5	3	15	60
MF450.080	8	8	2	4	20	60
MF450.081	8	8	0.5	4	20	60
MF450.082	8	8	1	4	20	60
MF450.100	10	10	2	5	20	72
MF450.101	10	10	0.5	5	25	75
MF450.102	10	10	1	5	25	75
MF450.120	12	12	2	6	22	83
MF450.121	12	12	1	6	30	75

Fresa MD Alto Avance - Serie Larga

- Corte Hélice: 0º
- Modelo: Z-4
- Hasta 65HRC
- Recubrimiento: ALTISIN
- Amarre: Cilíndrico
- Uso General de alto rendimiento



Referencia	Diámetro Fresa	Diámetro Mango	Radio	Longitud Corte	Longitud Rebajada	Longitud Total
MF451.030	3	6	0,5	1,5	20	80
MF451.040	4	6	0,5	2	20	80
MF451.060	6	6	1	3	30	80
MF451.080	8	8	2	4	40	80
MF451.100	10	10	2	5	50	100
MF451.120	12	12	2	6	50	110

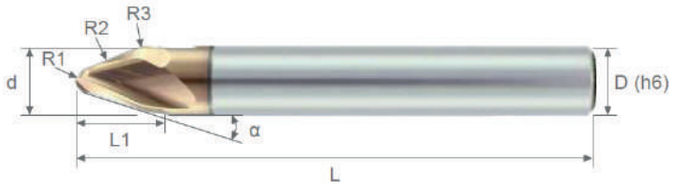
Fresa MD Z5 - Trocoidal

- Corte Hélice: 40º
- Modelo: Z-5
- Hasta 56HRC
- Recubrimiento: ALTIN-Nano
- Amarre: Cilíndrico
- Uso General de alto rendimiento



Referencia	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Rebajada	Chaflán 45º	Longitud Total
MF455.060	6	6	18	25	0,1	62
MF455.080	8	8	24	30	0,15	70
MF455.100	10	10	30	35	0,2	80
MF455.120	12	12	36	45	0,2	94
MF455.160	16	16	48	55	0,4	110
MF455.200	20	20	60	70	0,4	126

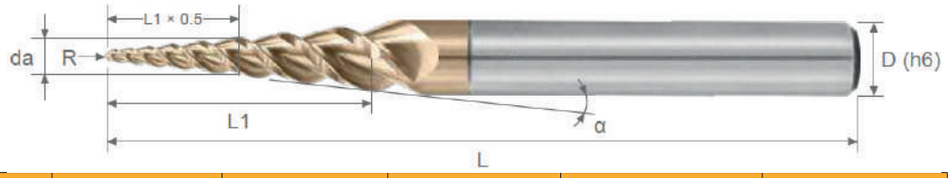
Fresa MD Forma A - Para 5X





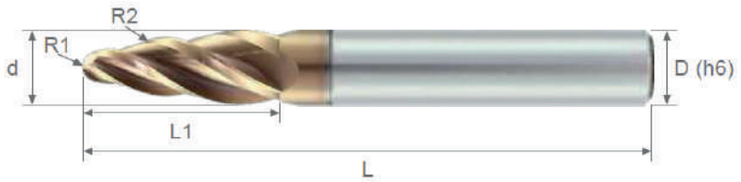
Referencia	aº	d	R1	R2	R3	L1	L	D	Z
MF510.0820	20	8	1.5	250	4.0	10.5	75	8	3
MF510.1020	20	10	2.0	250	5.0	12.5	75	10	3
MF510.1060	60	10	1.0	200	1.5	6.0	75	10	2

Fresa MD Forma B - Para 5X



Referencia	R	aº	L1	L	da	D	Z
MF511.0300	0.5	6	20	60	3.00	6	3
MF511.0380	1.0	6	19	60	3.80	6	3
MF511.0340	0.5	8	18	60	3.40	6	3
MF511.0385	1.0	8	15	60	3.85	6	3

Fresa MD Forma C - Para 5X

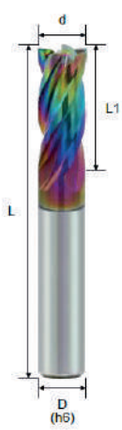


Referencia	d	R1	R2	L1	L	D	Z
MF512.080	8	1	90	25	75	8	3
MF512.100	10	2	85	26	75	10	4

Fresa MD para Grafito - Z4

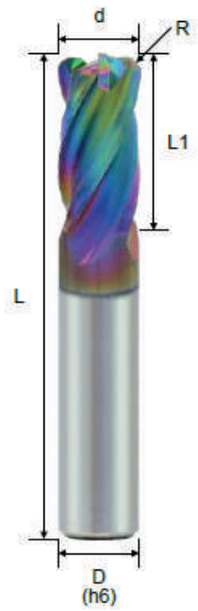
- Corte Hélice: 30º
- Modelo: Z-4
- Recubrimiento: DLC
- Amarre: Cilíndrico
- Para uso en materiales de Grafito o especiales

Referencia	d	L1	L	D	Z
MF520.030	3	8	50	4	4
MF520.0404	4	10	50	4	4
MF520.0406	4	10	50	6	4
MF520.050	5	13	50	6	4
MF520.060	6	15	50	6	4
MF520.080	8	20	60	8	4
MF520.100	10	25	75	10	4
MF520.120	12	30	75	12	4



Fresa MD para Grafito - Tórica Z-4

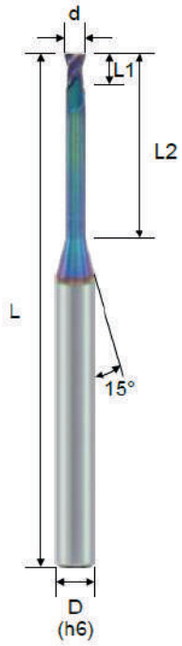
- Corte Hélice: 30º / Modelo: Z-4
- Radio Tórico / Amarre: Cilíndrico
- Recubrimiento: DLC
- Para uso en materiales de Grafito o Especiales



Referencia	d	R	L1	L	D	Z
MF525.03034	3	0.3	6	50	4	4
MF525.03054	3	0.5	6	50	4	4
MF525.03104	3	1.0	6	50	4	4
MF525.03036	3	0.3	6	50	6	4
MF525.03056	3	0.5	6	50	6	4
MF525.03106	3	1.0	6	50	6	4
MF525.04034	4	0.3	8	50	4	4
MF525.04054	4	0.5	8	50	4	4
MF525.04104	4	1.0	8	50	4	4
MF525.04036	4	0.3	8	50	6	4
MF525.04056	4	0.5	8	50	6	4
MF525.04106	4	1.0	8	50	6	4
MF525.05056	5	0.5	10	50	6	4
MF525.05106	5	1.0	10	50	6	4
MF525.06036	6	0.3	12	50	6	4
MF525.06056	6	0.5	12	50	6	4
MF525.06106	6	1.0	12	50	6	4
MF525.08058	8	0.5	16	60	8	4
MF525.08108	8	1.0	16	60	8	4
MF525.08158	8	1.5	16	60	8	4
MF525.100510	10	0.5	20	75	10	4
MF525.101010	10	1.0	20	75	10	4
MF525.101510	10	1.5	20	75	10	4
MF525.102010	10	2.0	20	75	10	4
MF525.120512	12	0.5	24	75	12	4
MF525.121012	12	1.0	24	75	12	4
MF525.121512	12	1.5	24	75	12	4
MF525.122012	12	2.0	24	75	12	4
MF525.123012	12	3.0	24	75	12	4

Fresa MD para Grafito - Z-2 - Mango 4mm

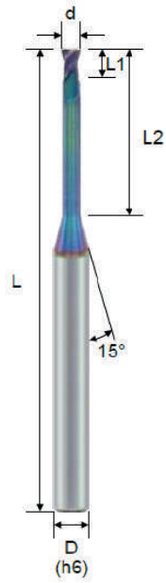
- Corte Hélice: 30º / Modelo: Z-4
- Radio Tórico / Amarre: Cilíndrico
- Recubrimiento: DLC
- Para uso en materiales de Grafito o Especiales



Referencia	d	L1	L2	L	D	Z
MF530.05061	0,5	0,6	4	50	4	2
MF530.05062	0,5	0,6	6	50	4	2
MF530.05063	0,5	0,6	8	50	4	2
MF530.10121	1,0	1,2	6	50	4	2
MF530.10122	1,0	1,2	8	50	4	2
MF530.10123	1,0	1,2	12	50	4	2
MF530.10124	1,0	1,2	16	50	4	2
MF530.10125	1,0	1,2	20	50	4	2
MF530.15181	1,5	1,8	8	50	4	2
MF530.15182	1,5	1,8	12	50	4	2
MF530.15183	1,5	1,8	16	50	4	2
MF530.15184	1,5	1,8	20	50	4	2
MF530.20251	2,0	2,5	10	50	4	2
MF530.20252	2,0	2,5	16	50	4	2
MF530.20253	2,0	2,5	20	50	4	2
MF530.20254	2,0	2,5	25	60	4	2

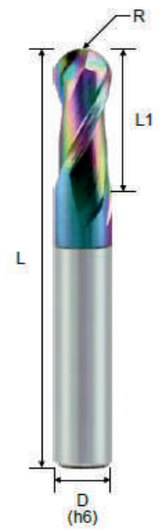
Fresa MD para Grafito - Z-2 - Mango 6mm

Referencia	d	L1	L2	L	D	Z
MF535.30351	3,0	3,5	12	50	6	2
MF535.30352	3,0	3,5	20	60	6	2
MF535.30353	3,0	3,5	25	60	6	2
MF535.30354	3,0	3,5	30	75	6	2
MF535.40451	4,0	4,5	16	50	6	2
MF535.40452	4,0	4,5	20	60	6	2
MF535.40453	4,0	4,5	25	60	6	2
MF535.40454	4,0	4,5	30	75	6	2
MF535.40455	4,0	4,5	35	75	6	2
MF535.50701	5,0	7,0	20	60	6	2
MF535.50702	5,0	7,0	25	60	6	2
MF535.50703	5,0	7,0	30	75	6	2
MF535.50704	5,0	7,0	35	75	6	2
MF535.601001	6,0	10,0	20	60	6	2
MF535.601002	6,0	10,0	30	75	6	2



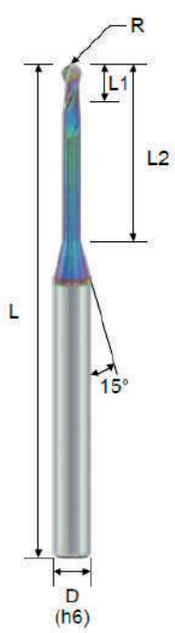
Fresa MD para Grafito - Bola Z-2

Referencia	R	d	L1	L	D	Z
MF540.010020	0.10	0,2	0,4	50	4	2
MF540.015030	0.15	0,3	0,6	50	4	2
MF540.020040	0.20	0,4	0,8	50	4	2
MF540.025050	0.25	0,5	1,0	50	4	2
MF540.030060	0.30	0,6	1,2	50	4	2
MF540.035070	0.35	0,7	1,4	50	4	2
MF540.040080	0.40	0,8	1,6	50	4	2
MF540.045090	0.45	0,9	1,8	50	4	2
MF540.05010	0.50	1,0	2,0	50	4	2
MF540.07515	0.75	1,5	3,0	50	4	2
MF540.1020	1.00	2,0	4,0	50	4	2
MF540.1530	1.50	3,0	6,0	50	4	2
MF540.20404	2.00	4,0	8,0	50	4	2
MF540.20406	2.00	4,0	8,0	50	6	2
MF540.2550	2.50	5,0	10,0	50	6	2
MF540.3060	3.00	6,0	12,0	50	6	2
MF540.4080	4.00	8,0	16,0	60	8	2
MF540.50100	5.00	10,0	20,0	75	10	2
MF540.60120	6.00	12,0	24,0	75	12	2



Fresa MD para Grafito - Bola Z-2 - Cuello Reducido - Mango 4mm

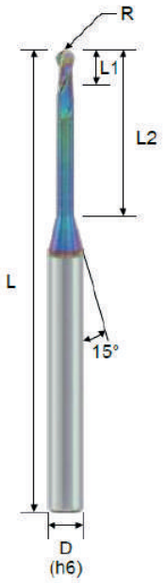
Referencia	R	d	L1	L2	L	D	Z
MF545.025051	0.25	0,5	0,5	4	50	4	2
MF545.025052	0.25	0,5	0,5	6	50	4	2
MF545.025053	0.25	0,5	0,5	8	50	4	2
MF545.050101	0.50	1,0	1,0	6	50	4	2
MF545.050102	0.50	1,0	1,0	8	50	4	2
MF545.050103	0.50	1,0	1,0	12	50	4	2
MF545.050104	0.50	1,0	1,0	16	50	4	2
MF545.050105	0.50	1,0	1,0	20	50	4	2
MF545.075151	0.75	1,5	1,5	8	50	4	2
MF545.075152	0.75	1,5	1,5	12	50	4	2
MF545.075153	0.75	1,5	1,5	16	50	4	2
MF545.075154	0.75	1,5	1,5	20	50	4	2
MF545.100201	1.00	2,0	2,0	10	50	4	2
MF545.100202	1.00	2,0	2,0	16	50	4	2
MF545.100203	1.00	2,0	2,0	20	50	4	2
MF545.100204	1.00	2,0	2,0	25	60	4	2



Fresa MD para Grafito - Bola Z-2 - Cuello Reducido - Mango 6mm

- Corte Hélice: 30º / Modelo: Z-2
- Radio Tórico / Amarre: Cilíndrico Cuello Reducido
- Recubrimiento: DLC
- Para uso en materiales de Grafito o Especiales

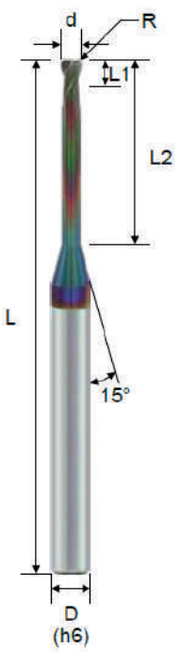
Referencia	R	d	L1	L2	L	D	Z
MF550.15301	1.50	3,0	3,0	12	50	6	2
MF550.15302	1.50	3,0	3,0	16	60	6	2
MF550.15303	1.50	3,0	3,0	20	60	6	2
MF550.15304	1.50	3,0	3,0	25	60	6	2
MF550.15305	1.50	3,0	3,0	30	75	6	2
MF550.20401	2.00	4,0	4,0	16	60	6	2
MF550.20402	2.00	4,0	4,0	20	60	6	2
MF550.20403	2.00	4,0	4,0	25	60	6	2
MF550.20404	2.00	4,0	4,0	30	75	6	2
MF550.25501	2.50	5,0	5,0	20	60	6	2
MF550.25502	2.50	5,0	5,0	25	60	6	2
MF550.25503	2.50	5,0	5,0	30	75	6	2
MF550.30601	3.00	6,0	10,0	20	60	6	2
MF550.30602	3.00	6,0	10,0	30	75	6	2



Fresa MD para Grafito - Tórica Z-2 - Mango 4/6mm

- Corte Hélice: 30º / Modelo: Z-2
- Radio Tórico / Amarre: Cilíndrico
- Recubrimiento: DLC
- Para uso en materiales de Grafito o Especiales

Referencia	d	Radio (R)	L1	L2	L	D	Z
MF555.01011	1	0.1	1	6	50	4	2
MF555.01012	1	0.1	1	8	50	4	2
MF555.01013	1	0.1	1	10	50	4	2
MF555.01014	1	0.1	1	12	50	4	2
MF555.02021	2	0.2	2	10	50	4	2
MF555.02022	2	0.2	2	16	50	4	2
MF555.02023	2	0.2	2	20	50	4	2
MF555.02024	2	0.2	2	25	60	4	2
MF555.02051	2	0.5	2	10	50	4	2
MF555.02052	2	0.5	2	16	50	4	2
MF555.02053	2	0.5	2	20	50	4	2
MF555.02054	2	0.5	2	25	60	4	2
MF555.03021	3	0.2	3	10	50	6	2
MF555.03022	3	0.2	3	20	60	6	2
MF555.03023	3	0.2	3	30	75	6	2
MF555.03051	3	0.5	3	10	50	6	2
MF555.03052	3	0.5	3	20	60	6	2
MF555.03053	3	0.5	3	30	75	6	2
MF555.04051	4	0.5	4	16	60	6	2
MF555.04052	4	0.5	4	25	60	6	2
MF555.04053	4	0.5	4	35	75	6	2
MF555.04101	4	1.0	4	16	60	6	2
MF555.04102	4	1.0	4	25	60	6	2
MF555.04103	4	1.0	4	35	75	6	2
MF555.05051	5	0.5	5	20	60	6	2
MF555.05052	5	0.5	5	30	75	6	2
MF555.06051	6	0.5	7	20	60	6	2
MF555.06052	6	0.5	7	30	75	6	2
MF555.06101	6	1.0	7	20	60	6	2
MF555.06102	6	1.0	7	30	75	6	2



Cabeza Modular de Fresado - Z4

Referencia	d	L1	d	M	Z
MF600.100	10	10	5.5	M5	4
MF600.120	12	12	6.5	M6	4
MF600.160	16	16	8.5	M8	4
MF600.200	20	20	10.5	M10	4



Cabeza Modular de Fresado - Z2 Bola

Referencia	d	D	L1	d	M	Z
MF601.050	5	10	10	5.5	M5	2
MF601.060	6	12	12	6.5	M6	2
MF601.080	8	16	16	8.5	M8	2
MF601.100	10	20	20	10.5	M10	2



Cabeza Modular de Fresado - Z4 Tórica

Referencia	d	R	L1	d	M	Z
MF602.1005	10	0.5	10	5.5	M-5	4
MF602.1010	10	1.0	10	5.5	M-5	4
MF602.1205	12	0.5	12	6.5	M-6	4
MF602.1210	12	1.0	12	6.5	M-6	4
MF602.1220	12	2.0	12	6.5	M-6	4
MF602.1230	12	3.0	12	6.5	M-6	4
MF602.1610	16	1.0	16	8.5	M-8	4
MF602.1620	16	2.0	16	8.5	M-8	4
MF602.1630	16	3.0	16	8.5	M-8	4
MF602.2010	20	1.0	20	10.5	M-10	4
MF602.2020	20	2.0	20	10.5	M-10	4
MF602.2030	20	3.0	20	10.5	M-10	4



Cabeza Modular de Fresado - Z4/Z6 Avellanado

Referencia	d	L1	aº	D	M	Z
MF603.1004	10	5	45	6.5	M-6	4
MF603.1204	12	6	45	6.5	M-6	4
MF603.1006	10	5	45	6.5	M-6	6
MF603.1206	12	6	45	6.5	M-6	6
MF603.1606	16	8	45	8.5	M-8	6



Escariadores de Metal Duro

Referencia	Diámetro	øAmarre	LT	LC
ME100.0298	2.98	3	61	36
ME100.0299	2.99	3	61	36
ME100.0300	3	3	61	36
ME100.0301	3.01	3	61	36
ME100.0302	3.02	3	61	36
ME100.0350	3.5	3,5	70	40
ME100.0398	3.98	4	75	45
ME100.0399	3.99	4	75	45
ME100.0400	4	4	75	45
ME100.0400L	4	4	105	80
ME100.0401	4.01	4	75	45
ME100.0402	4.02	4	75	45
ME100.0450	4.5	4.5	80	52
ME100.0498	4.98	5	86	56
ME100.0499	4.99	5	86	56
ME100.0500	5	5	86	56
ME100.0500L	5	5	115	90
ME100.0501	5.01	5	86	56
ME100.0502	5.02	5	86	56
ME100.0510	5.10	5	86	56
ME100.0520	5.20	5	86	56
ME100.0530	5.30	5	86	56
ME100.0550	5.50	5	86	56
ME100.0598	5.98	6	86	56
ME100.0599	5.99	6	86	56
ME100.0600	6	6	86	56
ME100.0600L	6	6	130	100
ME100.0601	6.01	6	86	56
ME100.0602	6.02	6	86	56
ME100.0610	6.10	6	86	56
ME100.0620	6.20	6	86	56
ME100.0630	6.30	6	86	56
ME100.0640	6.40	6	86	56
ME100.0650	6.50	6	86	56
ME100.0700	7	7	86	56
ME100.0700L	7	7	140	110
ME100.0750	7.5	7	86	56
ME100.0798	7.98	8	86	56
ME100.0799	7.99	8	86	56
ME100.0800	8	8	86	56
ME100.0800L	8	8	117	84
ME100.0800XL	8	8	160	130
ME100.0801	8.01	8	86	56
ME100.0801L	8.01	8	117	84
ME100.0802	8.02	8	86	56
ME100.0802L	8.02	8	117	84
ME100.0810	8.10	8	117	84
ME100.0820	8.20	8	117	84
ME100.0830	8.30	8	117	84
ME100.0850	8.50	8	90	60
ME100.0850L	8.50	8	117	84
ME100.0898	8.98	9	90	60
ME100.0899	8.99	9	90	60
ME100.0900	9	9	90	60
ME100.0900L	9	9	125	88
ME100.0900XL	9	9	160	130

- LC = Longitud Corte
- LT = Longitud Total

- Corte Hélice: 10º Izquierda
- Modelo: Z-4 hasta ø6.3 | Z-6 desde ø6.4
- Uso: General - Amarre h7
- Tolerancia: 0/+0.004



Referencia	Diámetro	øAmarre	LT	LC
ME100.0950	9.5	9	90	60
ME100.0950L	9.5	9	125	88
ME100.0998	9.98	10	90	60
ME100.0999	9.99	10	90	60
ME100.1000	10	10	90	60
ME100.1000L	10	10	133	97
ME100.1000XL	10	10	190	150
ME100.1001	10.01	10	90	60
ME100.1001L	10.01	10	133	97
ME100.1002	10.02	10	90	60
ME100.1002L	10.02	10	133	97
ME100.1010	10.1	10	133	97
ME100.1020	10.2	10	133	97
ME100.1030	10.3	10	133	97
ME100.1050	10.5	10	90	60
ME100.1050L	10.5	10	133	97
ME100.1100	11	11	90	60
ME100.1100L	11	11	133	97
ME100.1100XL	11	11	190	150
ME100.1150	11.5	11	90	60
ME100.1150L	11.5	12	151	110
ME100.1198	11.98	11	90	60
ME100.1199	11.99	11	90	60
ME100.1200	12	11	90	60
ME100.1200L	12	12	151	110
ME100.1200XL	12	12	220	170
ME100.1201	12.01	11	90	60
ME100.1201L	12.01	12	151	110
ME100.1202	12.02	11	90	60
ME100.1202L	12.02	12	151	110
ME100.1205	12.5	12	151	110
ME100.1300	13	12	151	110
ME100.1300L	13	13	220	170
ME100.1301	13.01	12	151	110
ME100.1302	13.02	12	151	110
ME100.1400	14	14	160	110
ME100.1400L	14	14	220	170
ME100.1401	14.01	14	160	110
ME100.1402	14.02	14	160	110
ME100.1500	15	14	162	112
ME100.1500L	15	16	220	170
ME100.1501	15.01	14	162	112
ME100.1502	15.02	14	162	112
ME100.1600	16	16	170	117
ME100.1600L	16	16	230	180
ME100.1601	16.01	16	170	117
ME100.1602	16.02	16	170	117
ME100.1800	18	16	182	129
ME100.1800L	18	18	230	180
ME100.2000	20	16	195	142
ME100.2000L	20	20	230	180

Broca MD Sin Refrigeración - 3xD



- Corte Angulo: 140º
- Tolerancia corte: h8 - Según DIN-6537K
- Recubrimiento: AlTiN
- Uso: General

Referencia	Diámetro	øAmarre	LR	LC	LT
MB110.030	3	6	20	14	62
MB110.031	3.1	6	20	14	62
MB110.032	3.2	6	20	14	62
MB110.033	3.3	6	20	14	62
MB110.034	3.4	6	20	14	62
MB110.035	3.5	6	20	14	62
MB110.036	3.6	6	20	14	62
MB110.037	3.7	6	20	14	62
MB110.038	3.8	6	24	17	62
MB110.039	3.9	6	24	17	66
MB110.040	4	6	24	17	66
MB110.041	4.1	6	24	17	66
MB110.042	4.2	6	24	17	66
MB110.043	4.3	6	24	17	66
MB110.044	4.4	6	24	17	66
MB110.045	4.5	6	24	17	66
MB110.046	4.6	6	24	17	66
MB110.047	4.7	6	24	17	66
MB110.048	4.8	6	28	20	66
MB110.049	4.9	6	28	20	66
MB110.050	5	6	28	20	66
MB110.051	5.1	6	28	20	66
MB110.052	5.2	6	28	20	66
MB110.053	5.3	6	28	20	66
MB110.054	5.4	6	28	20	66
MB110.055	5.5	6	28	20	66
MB110.056	5.6	6	28	20	66
MB110.057	5.7	6	28	20	66
MB110.058	5.8	6	28	20	66
MB110.059	5.9	6	28	20	66
MB110.060	6	6	28	20	66
MB110.061	6.1	8	28	20	79
MB110.062	6.2	8	34	24	79
MB110.063	6.3	8	34	24	79
MB110.064	6.4	8	34	24	79
MB110.065	6.5	8	34	24	79
MB110.066	6.6	8	34	24	79
MB110.067	6.7	8	34	24	79
MB110.068	6.8	8	34	24	79
MB110.069	6.9	8	34	24	79
MB110.070	7	8	34	24	79
MB110.071	7.1	8	41	29	79
MB110.072	7.2	8	41	29	79
MB110.073	7.3	8	41	29	79
MB110.074	7.4	8	41	29	79
MB110.075	7.5	8	41	29	79
MB110.076	7.6	8	41	29	79
MB110.077	7.7	8	41	29	79
MB110.078	7.8	8	41	29	79
MB110.079	7.9	8	41	29	79
MB110.080	8	8	47	35	79
MB110.081	8.1	8	47	35	89
MB110.082	8.2	10	47	35	89
MB110.083	8.3	10	47	35	89
MB110.084	8.4	10	47	35	89
MB110.085	8.5	10	47	35	89
MB110.086	8.6	10	47	35	89
MB110.087	8.7	10	47	35	89
MB110.088	8.8	10	47	35	89
MB110.089	8.9	10	47	35	89
MB110.090	9.0	10	47	35	89
MB110.091	9.1	10	47	35	89
MB110.092	9.2	10	47	35	89
MB110.093	9.3	10	47	35	89
MB110.094	9.4	10	47	35	89
MB110.095	9.5	10	47	35	89
MB110.096	9.6	10	47	35	89
MB110.097	9.7	10	47	35	89
MB110.098	9.8	10	47	35	89
MB110.099	9.9	10	47	35	89
MB110.100	10.0	10	47	35	89
MB110.101	10.1	12	55	40	102
MB110.102	10.2	12	55	40	102
MB110.103	10.3	12	55	40	102
MB110.104	10.4	12	55	40	102
MB110.105	10.5	12	55	40	102
MB110.106	10.6	12	55	40	102
MB110.107	10.7	12	55	40	102
MB110.108	10.8	12	55	40	102
MB110.109	10.9	12	55	40	102
MB110.110	11.0	12	55	40	102
MB110.111	11.1	12	55	40	102
MB110.112	11.2	12	55	40	102
MB110.113	11.3	12	55	40	102
MB110.114	11.4	12	55	40	102
MB110.115	11.5	12	55	40	102
MB110.116	11.6	12	55	40	102
MB110.117	11.7	12	55	40	102
MB110.118	11.8	12	55	40	102
MB110.119	11.9	12	55	40	102
MB110.120	12.0	12	55	40	102
MB110.122	12.2	14	60	43	107
MB110.125	12.5	14	60	43	107
MB110.127	12.7	14	60	43	107
MB110.128	12.8	14	60	43	107
MB110.130	13.0	14	60	43	107
MB110.131	13.1	14	60	43	107
MB110.135	13.5	14	60	43	107
MB110.138	13.8	14	60	43	107
MB110.140	14.0	14	60	43	115
MB110.145	14.5	16	65	45	115
MB110.148	14.8	16	65	45	115
MB110.150	15.0	16	65	45	115
MB110.155	15.5	16	65	45	115
MB110.160	16.0	16	65	45	115
MB110.165	16.5	18	73	51	123
MB110.170	17.0	18	73	51	123
MB110.175	17.5	18	73	51	123
MB110.180	18.0	18	73	51	123
MB110.185	18.5	20	79	55	131
MB110.190	19.0	20	79	55	131
MB110.195	19.5	20	79	55	131
MB110.200	20.0	20	79	55	131

Broca MD Con Refrigeración - 3xD



- Corte Angulo: 140º
- Tolerancia corte: h8 - Según DIN-6537K
- Recubrimiento: AlTiN
- Uso: General

Referencia	Diámetro	øAmarre	LR	LC	LT
MB115.030	3	6	20	14	62
MB115.031	3.1	6	20	14	62
MB115.032	3.2	6	20	14	62
MB115.033	3.3	6	20	14	62
MB115.034	3.4	6	20	14	62
MB115.035	3.5	6	20	14	62
MB115.036	3.6	6	20	14	62
MB115.037	3.7	6	20	14	62
MB115.038	3.8	6	24	17	62
MB115.039	3.9	6	24	17	66
MB115.040	4	6	24	17	66
MB115.041	4.1	6	24	17	66
MB115.042	4.2	6	24	17	66
MB115.043	4.3	6	24	17	66
MB115.044	4.4	6	24	17	66
MB115.045	4.5	6	24	17	66
MB115.046	4.6	6	24	17	66
MB115.047	4.7	6	24	17	66
MB115.048	4.8	6	28	20	66
MB115.049	4.9	6	28	20	66
MB115.050	5	6	28	20	66
MB115.051	5.1	6	28	20	66
MB115.052	5.2	6	28	20	66
MB115.053	5.3	6	28	20	66
MB115.054	5.4	6	28	20	66
MB115.055	5.5	6	28	20	66
MB115.056	5.6	6	28	20	66
MB115.057	5.7	6	28	20	66
MB115.058	5.8	6	28	20	66
MB115.059	5.9	6	28	20	66
MB115.060	6	6	28	20	66
MB115.061	6.1	8	28	20	79
MB115.062	6.2	8	34	24	79
MB115.063	6.3	8	34	24	79
MB115.064	6.4	8	34	24	79
MB115.065	6.5	8	34	24	79
MB115.066	6.6	8	34	24	79
MB115.067	6.7	8	34	24	79
MB115.068	6.8	8	34	24	79
MB115.069	6.9	8	34	24	79
MB115.070	7	8	34	24	79
MB115.071	7.1	8	41	29	79
MB115.072	7.2	8	41	29	79
MB115.073	7.3	8	41	29	79
MB115.074	7.4	8	41	29	79
MB115.075	7.5	8	41	29	79
MB115.076	7.6	8	41	29	79
MB115.077	7.7	8	41	29	79
MB115.078	7.8	8	41	29	79
MB115.079	7.9	8	41	29	79
MB115.080	8	8	47	35	79
MB115.081	8.1	8	47	35	89
MB115.082	8.2	10	47	35	89
MB115.083	8.3	10	47	35	89
MB115.084	8.4	10	47	35	89
MB115.085	8.5	10	47	35	89

Referencia	Diámetro	øAmarre	LR	LC	LT
MB115.086	8.6	10	47	35	89
MB115.087	8.7	10	47	35	89
MB115.088	8.8	10	47	35	89
MB115.089	8.9	10	47	35	89
MB115.090	9.0	10	47	35	89
MB115.091	9.1	10	47	35	89
MB115.092	9.2	10	47	35	89
MB115.093	9.3	10	47	35	89
MB115.094	9.4	10	47	35	89
MB115.095	9.5	10	47	35	89
MB115.096	9.6	10	47	35	89
MB115.097	9.7	10	47	35	89
MB115.098	9.8	10	47	35	89
MB115.099	9.9	10	47	35	89
MB115.100	10.0	10	47	35	89
MB115.101	10.1	12	55	40	102
MB115.102	10.2	12	55	40	102
MB115.103	10.3	12	55	40	102
MB115.104	10.4	12	55	40	102
MB115.105	10.5	12	55	40	102
MB115.106	10.6	12	55	40	102
MB115.107	10.7	12	55	40	102
MB115.108	10.8	12	55	40	102
MB115.109	10.9	12	55	40	102
MB115.110	11.0	12	55	40	102
MB115.111	11.1	12	55	40	102
MB115.112	11.2	12	55	40	102
MB115.113	11.3	12	55	40	102
MB115.114	11.4	12	55	40	102
MB115.115	11.5	12	55	40	102
MB115.116	11.6	12	55	40	102
MB115.117	11.7	12	55	40	102
MB115.118	11.8	12	55	40	102
MB115.119	11.9	12	55	40	102
MB115.120	12.0	12	55	40	102
MB115.122	12.2	14	60	43	107
MB115.125	12.5	14	60	43	107
MB115.127	12.7	14	60	43	107
MB115.128	12.8	14	60	43	107
MB115.130	13.0	14	60	43	107
MB115.132	13.2	14	60	43	107
MB115.135	13.5	14	60	43	107
MB115.138	13.8	14	60	43	107
MB115.140	14.0	14	60	43	115
MB115.145	14.5	16	65	45	115
MB115.148	14.8	16	65	45	115
MB115.150	15.0	16	65	45	115
MB115.155	15.5	16	65	45	115
MB115.160	16.0	16	65	45	115
MB115.165	16.5	18	73	51	123
MB115.170	17.0	18	73	51	123
MB115.175	17.5	18	73	51	123
MB115.180	18.0	18	73	51	123
MB115.185	18.5	20	79	55	131
MB115.190	19.0	20	79	55	131
MB115.195	19.5	20	79	55	131
MB115.200	20.0	20	79	55	131

Broca MD Sin Refrigeración - 5xD



- Corte Angulo: 140º
- Tolerancia corte: h8 - Según DIN-6537K
- Recubrimiento: AlTiN
- Uso: General

Referencia	Diámetro	øAmarre	LR	LC	LT
MB120.030	3.0	6	28	23	66
MB120.031	3.1	6	28	23	66
MB120.032	3.2	6	28	23	66
MB120.033	3.3	6	28	23	66
MB120.034	3.4	6	28	23	66
MB120.035	3.5	6	28	23	66
MB120.036	3.6	6	28	23	66
MB120.037	3.7	6	28	23	66
MB120.038	3.8	6	36	29	74
MB120.039	3.9	6	36	29	74
MB120.040	4.0	6	36	29	74
MB120.041	4.1	6	36	29	74
MB120.042	4.2	6	36	29	74
MB120.043	4.3	6	36	29	74
MB120.044	4.4	6	44	35	82
MB120.045	4.5	6	44	35	82
MB120.046	4.6	6	44	35	82
MB120.047	4.7	6	44	35	82
MB120.048	4.8	6	44	35	82
MB120.049	4.9	6	44	35	82
MB120.050	5.0	6	44	35	82
MB120.051	5.1	6	44	35	82
MB120.052	5.2	6	44	35	82
MB120.053	5.3	6	44	35	82
MB120.054	5.4	6	44	35	82
MB120.055	5.5	6	44	35	82
MB120.056	5.6	6	44	35	82
MB120.057	5.7	6	44	35	82
MB120.058	5.8	6	44	35	82
MB120.059	5.9	6	44	35	82
MB120.060	6.0	6	44	35	82
MB120.061	6.1	8	53	43	91
MB120.062	6.2	8	53	43	91
MB120.063	6.3	8	53	43	91
MB120.064	6.4	8	53	43	91
MB120.065	6.5	8	53	43	91
MB120.066	6.6	8	53	43	91
MB120.067	6.7	8	53	43	91
MB120.068	6.8	8	53	43	91
MB120.069	6.9	8	53	43	91
MB120.070	7.0	8	53	43	91
MB120.071	7.1	8	53	43	91
MB120.072	7.2	8	53	43	91
MB120.073	7.3	8	53	43	91
MB120.074	7.4	8	53	43	91
MB120.075	7.5	8	53	43	91
MB120.076	7.6	8	53	43	91
MB120.077	7.7	8	53	43	91
MB120.078	7.8	8	53	43	91
MB120.079	7.9	8	53	43	91
MB120.080	8.0	10	61	49	103
MB120.081	8.1	10	61	49	103
MB120.082	8.2	10	61	49	103
MB120.083	8.3	10	61	49	103
MB120.084	8.4	10	61	49	103
MB120.085	8.5	10	61	49	103
MB120.086	8.6	10	61	49	103

Referencia	Diámetro	øAmarre	LR	LC	LT
MB120.087	8.7	10	61	49	103
MB120.088	8.8	10	61	49	103
MB120.089	8.9	10	61	49	103
MB120.090	9.0	10	61	49	103
MB120.091	9.1	10	61	49	103
MB120.092	9.2	10	61	49	103
MB120.093	9.3	10	61	49	103
MB120.094	9.4	10	61	49	103
MB120.095	9.5	10	61	49	103
MB120.096	9.6	10	61	49	103
MB120.097	9.7	10	61	49	103
MB120.098	9.8	10	61	49	103
MB120.099	9.9	10	61	49	103
MB120.100	10.0	10	61	49	103
MB120.101	10.1	12	71	56	118
MB120.102	10.2	12	71	56	118
MB120.103	10.3	12	71	56	118
MB120.104	10.4	12	71	56	118
MB120.105	10.5	12	71	56	118
MB120.106	10.6	12	71	56	118
MB120.107	10.7	12	71	56	118
MB120.108	10.8	12	71	56	118
MB120.109	10.9	12	71	56	118
MB120.110	11.0	12	71	56	118
MB120.111	11.1	12	71	56	118
MB120.112	11.2	12	71	56	118
MB120.113	11.3	12	71	56	118
MB120.114	11.4	12	71	56	118
MB120.115	11.5	12	71	56	118
MB120.116	11.6	12	71	56	118
MB120.117	11.7	12	71	56	118
MB120.118	11.8	12	71	56	118
MB120.119	11.9	12	71	56	118
MB120.120	12.0	12	71	56	118
MB120.122	12.2	14	77	60	124
MB120.125	12.5	14	77	60	124
MB120.127	12.7	14	77	60	124
MB120.128	12.8	14	77	60	124
MB120.130	13.0	14	77	60	124
MB120.131	13.1	14	77	60	124
MB120.135	13.5	14	77	60	124
MB120.138	13.8	14	77	60	124
MB120.140	14.0	14	77	60	124
MB120.145	14.5	16	83	63	133
MB120.148	14.8	16	83	63	133
MB120.150	15.0	16	83	63	133
MB120.155	15.5	16	83	63	133
MB120.160	16.0	16	83	63	133
MB120.165	16.5	18	93	71	143
MB120.170	17.0	18	93	71	143
MB120.175	17.5	18	93	71	143
MB120.180	18.0	18	93	71	143
MB120.185	18.5	20	101	77	153
MB120.190	19.0	20	101	77	153
MB120.195	19.5	20	101	77	153
MB120.200	20.0	20	101	77	153

Broca MD Con Refrigeración Interior - 5xD



- Corte Angulo: 140º
- Tolerancia corte: h8 - Según DIN-6537K
- Recubrimiento: AlTiN
- Uso: General

Referencia	Diámetro	øAmarre	LR	LC	LT
MB125.030	3.0	6	28	23	66
MB125.031	3.1	6	28	23	66
MB125.032	3.2	6	28	23	66
MB125.033	3.3	6	28	23	66
MB125.034	3.4	6	28	23	66
MB125.035	3.5	6	28	23	66
MB125.036	3.6	6	28	23	66
MB125.037	3.7	6	28	23	66
MB125.038	3.8	6	36	29	74
MB125.039	3.9	6	36	29	74
MB125.040	4.0	6	36	29	74
MB125.041	4.1	6	36	29	74
MB125.042	4.2	6	36	29	74
MB125.043	4.3	6	36	29	74
MB125.044	4.4	6	44	35	82
MB125.045	4.5	6	44	35	82
MB125.046	4.6	6	44	35	82
MB125.047	4.7	6	44	35	82
MB125.048	4.8	6	44	35	82
MB125.049	4.9	6	44	35	82
MB125.050	5.0	6	44	35	82
MB125.051	5.1	6	44	35	82
MB125.052	5.2	6	44	35	82
MB125.053	5.3	6	44	35	82
MB125.054	5.4	6	44	35	82
MB125.055	5.5	6	44	35	82
MB125.056	5.6	6	44	35	82
MB125.057	5.7	6	44	35	82
MB125.058	5.8	6	44	35	82
MB125.059	5.9	6	44	35	82
MB125.060	6.0	6	44	35	82
MB125.061	6.1	8	53	43	91
MB125.062	6.2	8	53	43	91
MB125.063	6.3	8	53	43	91
MB125.064	6.4	8	53	43	91
MB125.065	6.5	8	53	43	91
MB125.066	6.6	8	53	43	91
MB125.067	6.7	8	53	43	91
MB125.068	6.8	8	53	43	91
MB125.069	6.9	8	53	43	91
MB125.070	7.0	8	53	43	91
MB125.071	7.1	8	53	43	91
MB125.072	7.2	8	53	43	91
MB125.073	7.3	8	53	43	91
MB125.074	7.4	8	53	43	91
MB125.075	7.5	8	53	43	91
MB125.076	7.6	8	53	43	91
MB125.077	7.7	8	53	43	91
MB125.078	7.8	8	53	43	91
MB125.079	7.9	8	53	43	91
MB125.080	8.0	10	61	49	103
MB125.081	8.1	10	61	49	103
MB125.082	8.2	10	61	49	103
MB125.083	8.3	10	61	49	103
MB125.084	8.4	10	61	49	103
MB125.085	8.5	10	61	49	103

Referencia	Diámetro	øAmarre	LR	LC	LT
MB125.086	8.6	10	61	49	103
MB125.087	8.7	10	61	49	103
MB125.088	8.8	10	61	49	103
MB125.089	8.9	10	61	49	103
MB125.090	9.0	10	61	49	103
MB125.091	9.1	10	61	49	103
MB125.092	9.2	10	61	49	103
MB125.093	9.3	10	61	49	103
MB125.094	9.4	10	61	49	103
MB125.095	9.5	10	61	49	103
MB125.096	9.6	10	61	49	103
MB125.097	9.7	10	61	49	103
MB125.098	9.8	10	61	49	103
MB125.099	9.9	10	61	49	103
MB125.100	10.0	10	61	49	103
MB125.101	10.1	12	71	56	118
MB125.102	10.2	12	71	56	118
MB125.103	10.3	12	71	56	118
MB125.104	10.4	12	71	56	118
MB125.105	10.5	12	71	56	118
MB125.106	10.6	12	71	56	118
MB125.107	10.7	12	71	56	118
MB125.108	10.8	12	71	56	118
MB125.109	10.9	12	71	56	118
MB125.110	11.0	12	71	56	118
MB125.111	11.1	12	71	56	118
MB125.112	11.2	12	71	56	118
MB125.113	11.3	12	71	56	118
MB125.114	11.4	12	71	56	118
MB125.115	11.5	12	71	56	118
MB125.116	11.6	12	71	56	118
MB125.117	11.7	12	71	56	118
MB125.118	11.8	12	71	56	118
MB125.119	11.9	12	71	56	118
MB125.120	12.0	12	71	56	118
MB125.122	12.2	14	77	60	124
MB125.125	12.5	14	77	60	124
MB125.127	12.7	14	77	60	124
MB125.128	12.8	14	77	60	124
MB125.130	13.0	14	77	60	124
MB125.131	13.1	14	77	60	124
MB125.135	13.5	14	77	60	124
MB125.138	13.8	14	77	60	124
MB125.140	14.0	14	77	60	124
MB125.145	14.5	16	83	63	133
MB125.148	14.8	16	83	63	133
MB125.150	15.0	16	83	63	133
MB125.155	15.5	16	83	63	133
MB125.160	16.0	16	83	63	133
MB125.165	16.5	18	93	71	143
MB125.170	17.0	18	93	71	143
MB125.175	17.5	18	93	71	143
MB125.180	18.0	18	93	71	143
MB125.185	18.5	20	101	77	153
MB125.190	19.0	20	101	77	153
MB125.195	19.5	20	101	77	153
MB125.200	20.0	20	101	77	153

Broca MD Con Refrigeración Interior - 8xD



- Corte Angulo: 140º
- Tolerancia corte: h8
- Recubrimiento: AlTiN
- Uso: General
- Según DIN-6537L

Referencia	Diámetro	øAmarre	LR	LC	LT
MB135.030	3.0	6	34	29	72
MB135.031	3.1	6	34	29	72
MB135.032	3.2	6	34	29	72
MB135.033	3.3	6	34	29	72
MB135.034	3.4	6	34	29	72
MB135.035	3.5	6	34	29	72
MB135.036	3.6	6	34	29	72
MB135.037	3.7	6	34	29	72
MB135.038	3.8	6	34	29	81
MB135.039	3.9	6	43	36	81
MB135.040	4.0	6	43	36	81
MB135.041	4.1	6	43	36	81
MB135.042	4.2	6	43	36	81
MB135.043	4.3	6	43	36	81
MB135.044	4.4	6	43	36	81
MB135.045	4.5	6	43	36	81
MB135.046	4.6	6	43	36	81
MB135.047	4.7	6	43	36	81
MB135.048	4.8	6	57	48	95
MB135.049	4.9	6	57	48	95
MB135.050	5.0	6	57	48	95
MB135.051	5.1	6	57	48	95
MB135.052	5.2	6	57	48	95
MB135.053	5.3	6	57	48	95
MB135.054	5.4	6	57	48	95
MB135.055	5.5	6	57	48	95
MB135.056	5.6	6	57	48	95
MB135.057	5.7	6	57	48	95
MB135.058	5.8	6	57	48	95
MB135.059	5.9	6	57	48	95
MB135.060	6.0	6	57	48	95
MB135.061	6.1	8	76	66	114
MB135.062	6.2	8	76	66	114
MB135.063	6.3	8	76	66	114
MB135.064	6.4	8	76	66	114
MB135.065	6.5	8	76	66	114
MB135.066	6.6	8	76	66	114
MB135.067	6.7	8	76	66	114
MB135.068	6.8	8	76	66	114
MB135.069	6.9	8	76	66	114
MB135.070	7.0	8	76	66	114
MB135.071	7.1	8	76	66	114
MB135.072	7.2	8	76	66	114
MB135.073	7.3	8	76	66	114
MB135.074	7.4	8	76	66	114
MB135.075	7.5	8	76	66	114
MB135.076	7.6	8	76	66	114
MB135.077	7.7	8	76	66	114
MB135.078	7.8	8	76	66	114

Referencia	Diámetro	øAmarre	LR	LC	LT
MB135.079	7.9	8	76	66	114
MB135.080	8.0	8	76	66	114
MB135.081	8.1	10	95	83	142
MB135.082	8.2	10	95	83	142
MB135.083	8.3	10	95	83	142
MB135.084	8.4	10	95	83	142
MB135.085	8.5	10	95	83	142
MB135.086	8.6	10	95	83	142
MB135.087	8.7	10	95	83	142
MB135.088	8.8	10	95	83	142
MB135.089	8.9	10	95	83	142
MB135.090	9.0	10	95	83	142
MB135.091	9.1	10	95	83	142
MB135.092	9.2	10	95	83	142
MB135.093	9.3	10	95	83	142
MB135.094	9.4	10	95	83	142
MB135.095	9.5	10	95	83	142
MB135.096	9.6	10	95	83	142
MB135.097	9.7	10	95	83	142
MB135.098	9.8	10	95	83	142
MB135.099	9.9	10	95	83	142
MB135.100	10.0	10	114	99	142
MB135.102	10.2	12	114	99	162
MB135.104	10.4	12	114	99	162
MB135.105	10.5	12	114	99	162
MB135.108	10.8	12	114	99	162
MB135.110	11.0	12	114	99	162
MB135.115	11.5	12	114	99	162
MB135.118	11.8	12	114	99	162
MB135.120	12.0	12	114	99	162
MB135.125	12.5	14	133	116	178
MB135.130	13.0	14	133	116	178
MB135.135	13.5	14	133	116	178
MB135.138	13.8	14	133	116	178
MB135.140	14.0	14	133	116	178
MB135.145	14.5	16	152	132	203
MB135.150	15.0	16	152	132	203
MB135.155	15.5	16	152	132	203
MB135.160	16.0	16	152	132	203
MB135.165	16.5	16	171	149	222
MB135.170	17.0	18	171	149	222
MB135.175	17.5	18	171	149	222
MB135.180	18.0	18	171	149	222
MB135.185	18.5	20	190	170	243
MB135.190	19.0	20	190	170	243
MB135.195	19.5	20	190	170	243
MB135.200	20.0	20	190	170	243

Broca MD Con Refrigeración Interior - 12xD



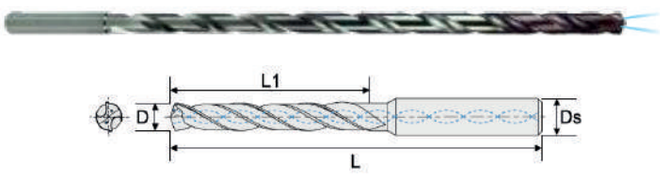
- Corte Angulo: 140º
- Tolerancia corte: h8 - Según DIN-6537K
- Recubrimiento: AlTiN
- Uso: General

Referencia	Diámetro	øAmarre	LC	LT
MB140.030	3	6	54	92
MB140.035	3.5	6	54	92
MB140.040	4	6	64	102
MB140.045	4.5	6	64	102
MB140.050	5	6	78	118
MB140.055	5.5	6	78	118
MB140.060	6	6	78	118
MB140.065	6.5	8	108	146
MB140.070	7	8	108	146
MB140.075	7.5	8	108	146
MB140.080	8	8	108	146
MB140.085	8.5	10	120	162

Referencia	Diámetro	øAmarre	LC	LT
MB140.090	9	10	120	162
MB140.095	9.5	10	120	162
MB140.100	10	10	120	162
MB140.105	10.5	12	156	204
MB140.110	11	12	156	204
MB140.115	11.5	12	156	204
MB140.120	12	12	156	204
MB140.130	13	14	182	230
MB140.140	14	14	182	230
MB140.150	15	16	208	260
MB140.160	16	16	208	260

Broca MD Con Refrigeración Interior - 20xD

- Corte Angulo: 135º
- Tolerancia corte: h8
- Recubrimiento: Altinx
- Uso: General - Necesario broca piloto para inicio



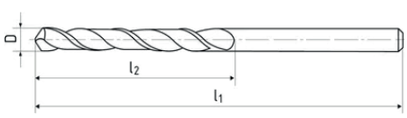
Referencia	Diámetro	øAmarre	L1	L
MB145.030	3	4	70	110
MB145.035	3.5	4	82	123
MB145.040	4	4	96	136
MB145.045	4.5	6	118	158
MB145.050	5	6	118	158
MB145.055	5.5	6	140	180
MB145.060	6	6	140	180
MB145.065	6.5	8	162	202

Referencia	Diámetro	øAmarre	LC	LT
MB145.070	7	8	162	202
MB145.075	7.5	8	183	223
MB145.080	8	8	183	223
MB145.085	8.5	10	205	249
MB145.090	9	10	205	249
MB145.095	9.5	10	227	271
MB145.100	10	10	227	271

Broca MD MINI



- Corte Angulo: 140º
- Tolerancia corte: h8 - Según DIN-6537K
- Recubrimiento: Altin
- Uso: General



Referencia	Diámetro	øAmarre	LC	LT
MB205.003	0.3	1	2,2	25
MB205.004	0.4	1	3,6	25
MB205.005	0.5	1	4	25
MB205.006	0.6	1	4,5	25
MB205.007	0.7	1	5,6	25
MB205.008	0.8	1,5	6,3	25
MB205.009	0.9	1,5	7,1	25
MB205.010	1	1,5	8	25
MB205.011	1.1	1,5	9	25
MB205.012	1.2	1,5	10	25
MB205.013	1.3	1,5	10	25
MB205.014	1.4	1,5	11,2	25

Broca MD Mini 3xD - Sin Refrigeración



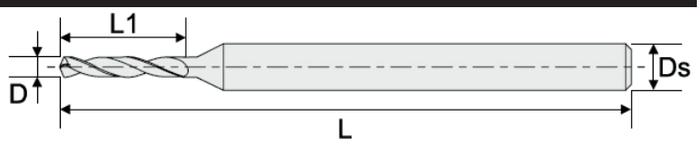
Referencia	Diámetro	øAmarre	LC	LT	Modelo
MB206.010	1	3	8	38	3xD
MB206.015	1.5	3	8	38	3xD
MB206.016	1.6	3	8	38	3xD
MB206.020	2	3	16	50	3xD
MB206.025	2.5	3	20	50	3xD

- Corte Angulo: 140º
- Tolerancia corte: h8 - Según DIN-6537K
- Recubrimiento: AlTiN
- Sin refrigeración interior
- Uso: General

Broca MD MINI de 2xD / 3xD / 7xD / 10xD / 15xD

- Corte Angulo: 130º
- Tolerancia corte: h8
- Recubrimiento: Altinx
- Uso: General - Mango Reforzado





Broca MD MINI 2xD

Referencia	D	L1	L	Ds
MB210.030	0,30	2	38	3
MB210.050	0,50	3	38	3
MB210.060	0,60	3	38	3
MB210.070	0,70	3	38	3
MB210.080	0,80	4	38	3
MB210.090	0,90	4	38	3
MB210.100	1,00	4	38	3
MB210.110	1,10	6	38	3
MB210.120	1,20	6	38	3
MB210.130	1,30	6	38	3
MB210.140	1,40	6	38	3
MB210.150	1,50	6	38	3
MB210.160	1,60	8	38	3
MB210.170	1,70	8	38	3
MB210.180	1,80	8	38	3
MB210.190	1,90	8	38	3
MB210.200	2,00	8	38	3
MB210.210	2,10	8	38	3
MB210.220	2,20	8	38	3
MB210.230	2,30	8	38	3
MB210.240	2,40	8	38	3
MB210.250	2,50	8	38	3
MB210.260	2,60	8	38	3
MB210.270	2,70	8	38	3
MB210.280	2,80	8	38	3
MB210.290	2,90	8	38	3
MB210.300	3,00	8	38	3

Broca MD MINI 3xD

Referencia	D	L1	L	Ds
MB211.210	2,10	12	50	3
MB211.220	2,2	12	50	3
MB211.230	2,3	12	50	3
MB211.240	2,4	12	50	3
MB211.250	2,5	16	50	3
MB211.260	2,6	16	50	3
MB211.270	2,7	16	50	3
MB211.280	2,8	16	50	3
MB211.290	2,9	16	50	3
MB211.300	3	16	50	3

Broca MD MINI 7xD

Referencia	D	L1	L	Ds
MB213.070	0,70	8	38	3
MB213.075	0,75	8	38	3
MB213.080	0,80	8	38	3
MB213.090	0,90	8	38	3
MB213.100	1,00	10	50	3
MB213.110	1,10	10	50	3

Broca MD MIN 5xD

Referencia	D	L1	L	Ds
MB212.020	0,20	1,5	38	3
MB212.120	1,20	10	50	3
MB212.130	1,30	10	50	3
MB212.140	1,40	10	50	3
MB212.150	1,50	12	50	3
MB212.160	1,60	12	50	3
MB212.170	1,70	12	50	3
MB212.180	1,80	14	50	3
MB212.190	1,90	14	50	3
MB212.200	2,00	14	50	3
MB212.210	2,10	14	50	3
MB212.220	2,20	16	50	3
MB212.230	2,30	16	50	3
MB212.240	2,40	16	50	3
MB212.250	2,50	20	50	3
MB212.260	2,60	20	50	3
MB212.270	2,70	20	50	3
MB212.280	2,80	20	50	3
MB212.290	2,90	20	50	3
MB212.300	3,00	22	60	3

Broca MD MINI 10xD

Referencia	D	L1	L	Ds
MB214.045	0,45	6	38	3
MB214.050	0,50	6	38	3
MB214.060	0,60	8	38	3
MB214.061	0,61	8	38	3
MB214.062	0,62	8	38	3
MB214.065	0,65	8	38	3

Broca MD MINI 12xD

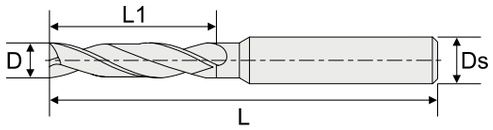
Referencia	D	L1	L	Ds
MB215.018	0,18	3	38	3
MB215.025	0,25	3	38	3
MB215.030	0,30	4,5	38	3
MB215.033	0,33	5,5	38	3
MB215.035	0,35	5,5	38	3
MB215.036	0,36	5,5	38	3
MB215.040	0,40	6	38	3
MB215.055	0,55	8	38	3

Broca MD MINI 15xD

Referencia	D	L1	L	Ds
MB216.020	0,20	4	38	3

Broca MD - Acabado Plano



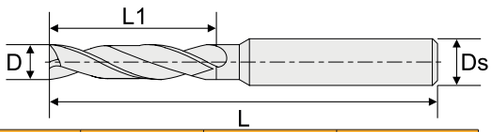


Referencia	D	L1	L	Ds
MB220.022	2,20	13	60	4
MB220.026	2,60	15	60	4
MB220.027	2,70	15	60	4
MB220.030	3,00	20	60	4
MB220.031	3,10	20	60	4
MB220.0316	3,10	20	62	6
MB220.032	3,20	20	60	4
MB220.0326	3,20	20	62	6
MB220.033	3,30	20	60	4
MB220.0336	3,30	20	62	6
MB220.034	3,40	20	60	4
MB220.0346	3,40	20	62	6
MB220.035	3,50	20	60	4
MB220.0356	3,50	20	62	6
MB220.036	3,60	20	60	4
MB220.0366	3,60	20	62	6
MB220.037	3,70	20	60	4
MB220.0376	3,70	20	62	6
MB220.038	3,80	24	60	4
MB220.0386	3,80	24	66	6
MB220.039	3,90	24	60	4
MB220.0396	3,90	24	66	6
MB220.040	4,00	24	66	6
MB220.041	4,10	24	66	6
MB220.042	4,20	24	66	6
MB220.043	4,30	24	66	6
MB220.044	4,40	24	66	6
MB220.045	4,50	24	66	6
MB220.046	4,60	24	66	6
MB220.047	4,70	24	66	6
MB220.048	4,80	28	66	6
MB220.049	4,90	28	66	6
MB220.050	5,00	28	66	6
MB220.051	5,10	28	66	6
MB220.052	5,20	28	66	6
MB220.053	5,30	28	66	6
MB220.054	5,40	28	66	6
MB220.055	5,50	28	66	6
MB220.056	5,60	28	66	6
MB220.057	5,70	28	66	6
MB220.058	5,80	28	66	6
MB220.059	5,90	28	66	6
MB220.060	6,00	28	66	6
MB220.061	6,10	34	79	8
MB220.062	6,20	34	79	8
MB220.063	6,30	34	79	8
MB220.0635	6,35	34	79	8
MB220.064	6,40	34	79	8
MB220.065	6,50	34	79	8
MB220.066	6,60	34	79	8
MB220.067	6,70	34	79	8
MB220.068	6,80	34	79	8
MB220.069	6,90	34	79	8
MB220.070	7,00	34	79	8

Referencia	D	L1	L	Ds
MB220.071	7,10	41	79	8
MB220.072	7,20	41	79	8
MB220.073	7,30	41	79	8
MB220.074	7,40	41	79	8
MB220.075	7,50	41	79	8
MB220.076	7,60	41	79	8
MB220.077	7,70	41	79	8
MB220.078	7,80	41	79	8
MB220.079	7,90	41	79	8
MB220.080	8,00	41	79	8
MB220.081	8,10	47	89	10
MB220.082	8,20	47	89	10
MB220.083	8,30	47	89	10
MB220.084	8,40	47	89	10
MB220.085	8,50	47	89	10
MB220.086	8,60	47	89	10
MB220.087	8,70	47	89	10
MB220.088	8,80	47	89	10
MB220.089	8,90	47	89	10
MB220.090	9,00	47	89	10
MB220.091	9,10	47	89	10
MB220.092	9,20	47	89	10
MB220.093	9,30	47	89	10
MB220.094	9,40	47	89	10
MB220.095	9,50	47	89	10
MB220.096	9,60	47	89	10
MB220.097	9,70	47	89	10
MB220.098	9,80	47	89	10
MB220.099	9,90	47	89	10
MB220.100	10,00	47	89	10
MB220.101	10,10	55	102	12
MB220.102	10,20	55	102	12
MB220.103	10,30	55	102	12
MB220.104	10,40	55	102	12
MB220.105	10,50	55	102	12
MB220.106	10,60	55	102	12
MB220.107	10,70	55	102	12
MB220.108	10,80	55	102	12
MB220.109	10,90	55	102	12
MB220.110	11,00	55	102	12
MB220.111	11,10	55	102	12
MB220.112	11,20	55	102	12
MB220.113	11,30	55	102	12
MB220.114	11,40	55	102	12
MB220.115	11,50	55	102	12
MB220.116	11,60	55	102	12
MB220.117	11,70	55	102	12
MB220.118	11,80	55	102	12
MB220.119	11,90	55	102	12
MB220.120	12,00	55	102	12
MB220.121	12,10	60	107	14
MB220.122	12,20	60	107	14
MB220.123	12,30	60	107	14
MB220.124	12,40	60	107	14
MB220.125	12,50	60	107	14

Broca MD - Acabado Plano





Referencia	D	L1	L	Ds
MB220.126	12,6	60	107	14
MB220.127	12,7	60	107	14
MB220.128	12,8	60	107	14
MB220.129	12,9	60	107	14
MB220.130	13	60	107	14
MB220.132	13,2	60	107	14
MB220.133	13,3	60	107	14
MB220.135	13,5	60	107	14
MB220.137	13,7	60	107	14
MB220.138	13,8	60	107	14
MB220.140	14	60	107	14
MB220.142	14,2	65	115	16
MB220.143	14,3	65	115	16
MB220.144	14,4	65	115	16
MB220.145	14,5	65	115	16
MB220.147	14,7	65	115	16

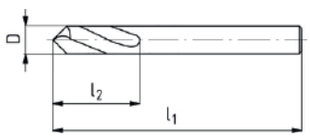
Referencia	D	L1	L	Ds
MB220.150	15,00	65	115	16
MB220.152	15,20	65	115	16
MB220.155	15,50	65	115	16
MB220.156	15,60	65	115	16
MB220.157	15,70	65	115	16
MB220.158	15,80	65	115	16
MB220.160	16,00	65	115	16
MB220.165	16,50	73	123	18
MB220.170	17,00	73	123	18
MB220.175	17,50	73	123	18
MB220.180	18,00	73	123	18
MB220.185	18,50	79	131	20
MB220.190	19,00	79	131	20
MB220.195	19,50	79	131	20
MB220.200	20,00	79	131	20

Broca Punteado MD 90º / 120º

- Corte Angulo: 90/120º
- Recubrimiento: AlTiN
- Uso: General

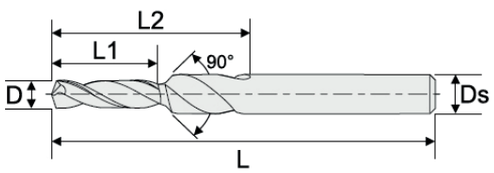


Referencia 90º	Referencia120º	Diámetro	Diámetro Mango	Longitud Corte	Longitud Total
MB100.040	MB102.040	4	4	12	50
MB100.060	MB102.060	6	6	18	50
MB100.080	MB102.080	8	8	23	60
MB100.100	MB102.100	10	10	24	70
MB100.120	MB102.120	12	12	24	70



Broca con Avellanado 90º MD

- Ángulo Avellanado: 90º
- Recubrimiento: AlTiN
- Uso: General



Referencia SIN Ref. Interior	Referencia CON Ref. Interior	D	L1	L2	L	Ds
MB104.033	MB106.033	3.30	12	26	62	6
MB104.042	MB106.042	4.20	15	28	66	6
MB104.080	MB106.080	5.00	18	36	79	8
MB104.100	MB106.100	6.80	24	48	90	10
MB104.120	MB106.120	8.50	30	55	102	12



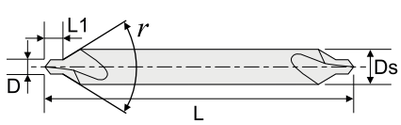


Broca Punteado MD 60º

- Corte Angulo: 60º
- Recubrimiento: AlTiN
- Uso: General



Referencia	D	L1	L	Ds
MB108.010	1	1.6	38	3
MB108.0125	1.25	1.9	38	3
MB108.016	1.6	2.4	42	4
MB108.020	2	2.9	50	5
MB108.025	2.5	3.6	50	6
MB108.030	3	3.9	60	8
MB108.0315	3.15	3.9	60	8
MB108.040	4	5.0	75	10
MB108.050	5	6.3	75	12

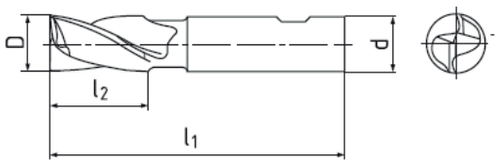


Fresa HSS – Z2 – Serie Estándar

• Características: HSS-CO8 – DIN 327 – Tipo N – Corte 25/12º

Referencia	Referencia TIALN	D	d	L1	L2	Z
HF112.010	HF113.010	1	6	47	2.5	2
HF112.015	HF113.015	1.5	6	47	3	2
HF112.020	HF113.020	2	6	48	4	2
HF112.025	HF113.025	2.5	6	49	5	2
HF112.028	HF113.028	2.8	6	49	5	2
HF112.030	HF113.030	3	6	49	5	2
HF112.035	HF113.035	3.5	6	50	6	2
HF112.038	HF113.038	3.8	6	51	7	2
HF112.040	HF113.040	4	6	51	7	2
HF112.045	HF113.045	4.5	6	51	7	2
HF112.048	HF113.048	4.8	6	52	8	2
HF112.050	HF113.050	5	6	52	8	2
HF112.055	HF113.055	5.5	6	52	8	2
HF112.0575	HF113.0575	5.75	6	52	8	2
HF112.060	HF113.060	6	6	52	8	2
HF112.065	HF113.065	6.5	10	60	10	2
HF112.070	HF113.070	7	10	60	10	2
HF112.075	HF113.075	7.5	10	60	10	2
HF112.0775	HF113.0775	7.75	10	61	11	2
HF112.080	HF113.080	8	10	61	11	2
HF112.085	HF113.085	8.5	10	61	11	2
HF112.090	HF113.090	9	10	61	11	2
HF112.095	HF113.095	9.5	10	61	11	2
HF112.097	HF113.097	9.7	10	63	13	2
HF112.100	HF113.100	10	10	63	13	2
HF112.105	HF113.105	10.5	12	70	13	2
HF112.110	HF113.110	11	12	70	13	2
HF112.115	HF113.115	11.5	12	70	13	2
HF112.117	HF113.117	11.7	12	70	13	2
HF112.120	HF113.120	12	12	73	16	2
HF112.125	HF113.125	12.5	12	73	16	2
HF112.130	HF113.130	13	12	73	16	2
HF112.135	HF113.135	13.5	12	73	16	2
HF112.137	HF113.137	13.7	12	73	16	2
HF112.140	HF113.140	14	12	73	16	2
HF112.150	HF113.150	15	15	73	16	2
HF112.160	HF113.160	16	16	79	19	2
HF112.170	HF113.170	17	16	79	19	2
HF112.177	HF113.177	17.7	16	79	19	2
HF112.180	HF113.180	18	16	79	19	2
HF112.190	HF113.190	19	16	79	19	2
HF112.200	HF113.200	20	20	88	22	2
HF112.210	HF113.210	21	20	88	22	2
HF112.220	HF113.220	22	20	88	22	2
HF112.240	HF113.240	24	25	102	26	2
HF112.27020	HF113.27020	24,7*	20	96	26	2
HF112.250	HF113.250	25	25	102	26	2
HF112.25020	HF113.25020	25*	20	96	26	2
HF112.260	HF113.260	26	25	102	26	2
HF112.280	HF113.280	28	25	102	26	2
HF112.28020	HF113.28020	28*	20	96	26	2
HF112.300	HF113.300	30	25	102	26	2
HF112.320	HF113.320	32	32	112	32	2
HF112.360	HF113.360	36	32	112	32	2
HF112.400	HF113.400	40	40	130	38	2
HF112.40032	HF113.40032	40*	32	118	38	2



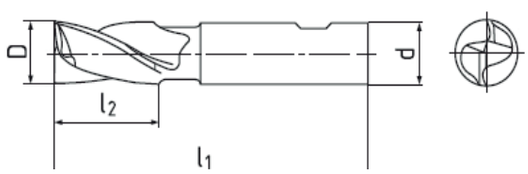


Fresa - Z2 – Serie Larga

• Características: HSS-CO8 – ISO 1641 – Tipo N – Corte 25/12º

Referencia	Referencia TIALN	D	d	L1	L2	Z
HF114.020	HF115.020	2	6	54	7	2
HF114.030	HF115.030	3	6	56	8	2
HF114.035	HF115.035	3.5	6	59	10	2
HF114.040	HF115.040	4	6	63	11	2
HF114.045	HF115.045	4.5	6	63	11	2
HF114.050	HF115.050	5	6	68	13	2
HF114.055	HF115.055	5.5	6	68	13	2
HF114.060	HF115.060	6	6	68	13	2
HF114.065	HF115.065	6.5	10	80	16	2
HF114.070	HF115.070	7	10	80	16	2
HF114.080	HF115.080	8	10	88	19	2
HF114.085	HF115.085	8.5	10	88	19	2
HF114.090	HF115.090	9	10	88	19	2
HF114.100	HF115.100	10	10	95	22	2
HF114.110	HF115.110	11	12	102	22	2
HF114.120	HF115.120	12	12	110	26	2
HF114.130	HF115.130	13	12	110	26	2
HF114.140	HF115.140	14	12	110	26	2
HF114.150	HF115.150	15	12	110	26	2
HF114.160	HF115.160	16	16	123	32	2
HF114.180	HF115.180	18	16	123	32	2
HF114.190	HF115.190	19	16	123	32	2
HF114.200	HF115.200	20	20	141	38	2
HF114.220	HF115.220	22	20	141	38	2
HF114.240	HF115.240	24	25	166	45	2
HF114.250	HF115.250	25	25	166	45	2
HF114.260	HF115.260	26	25	166	45	2
HF114.280	HF115.280	28	25	166	45	2
HF114.300	HF115.300	30	25	166	45	2
HF114.320	HF115.320	32	32	186	53	2
HF114.350	HF115.350	35	32	186	53	2
HF114.360	HF115.360	36	32	186	53	2
HF114.40032	HF115.40032	40*	32	196	63	2



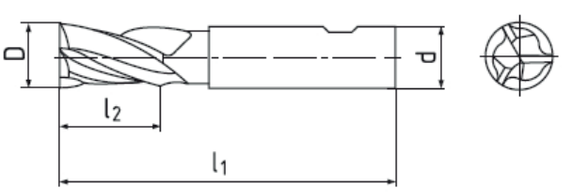


Fresa HSS – Z3 – Serie Corta

• Características: HSS-CO8 – DIN 327 – Tipo N – Corte 30/12º

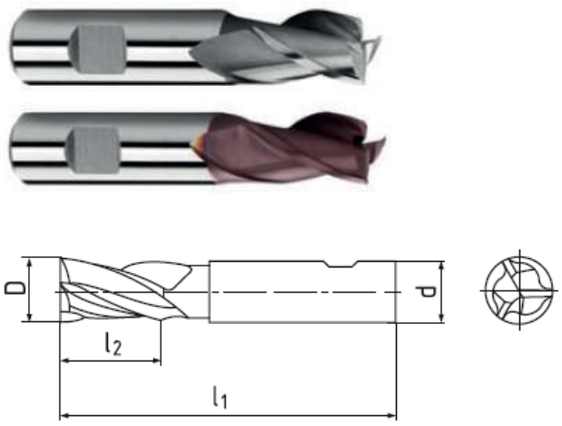
Referencia	Referencia TIALN	D	d	L1	L2	Z
HF116.020	HF117.020	2	6	48	4	3
HF116.030	HF117.030	3	6	49	5	3
HF116.035	HF117.035	3.5	6	50	6	3
HF116.040	HF117.040	4	6	51	7	3
HF116.045	HF117.045	4.5	6	51	7	3
HF116.050	HF117.050	5	6	52	8	3
HF116.055	HF117.055	5.5	6	52	8	3
HF116.060	HF117.060	6	6	52	8	3
HF116.065	HF117.065	6.5	10	60	10	3
HF116.070	HF117.070	7	10	60	10	3
HF116.070	HF117.070	7.5	10	60	10	3
HF116.080	HF117.080	8	10	61	11	3
HF116.090	HF117.090	9	10	61	11	3
HF116.095	HF117.095	9.5	10	61	11	3
HF116.100	HF117.100	10	10	63	13	3
HF116.110	HF117.110	11	12	70	13	3
HF116.120	HF117.120	12	12	73	16	3
HF116.130	HF117.130	13	12	73	16	3





FRESA HSS – Z3 – Serie Corta (Continuación)

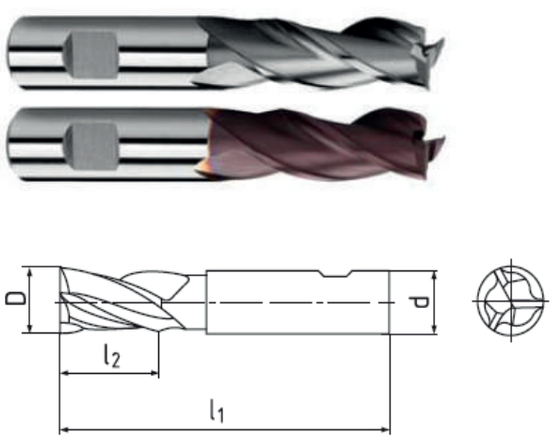
Referencia	Referencia TIALN	D	d	L1	L2	Z
HF116.140	HF117.140	14	12	73	16	3
HF116.150	HF117.150	15	12	73	16	3
HF116.160	HF117.160	16	16	79	19	3
HF116.180	HF117.180	18	16	79	19	3
HF116.197	HF117.197	19.7	16	88	22	3
HF116.200	HF117.200	20	20	88	22	3
HF116.217	HF117.217	21.7	20	88	22	3
HF116.220	HF117.220	22	20	88	22	3
HF116.247	HF117.247	24,7	25	102	26	3
HF116.250	HF117.250	25	25	102	26	3
HF116.280	HF117.280	28	25	102	26	3
HF116.300	HF117.300	30	25	102	26	3
HF116.320	HF117.320	32	32	112	32	3



Fresa HSS – Z3 – Serie Larga

• Características: HSS-CO8 – DIN 327 – Tipo N – Corte 30/12º

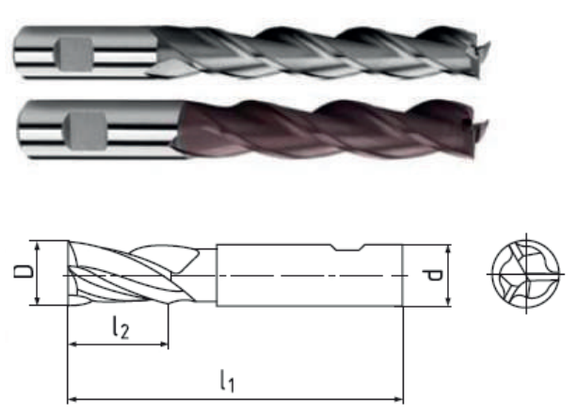
Referencia	Referencia TIALN	D	d	L1	L2	Z
HF118.028	HF119.028	2.8	6	52	8	3
HF118.030	HF119.030	3	6	52	8	3
HF118.038	HF119.038	3.8	6	55	11	3
HF118.040	HF119.040	4	6	55	11	3
HF118.055	HF119.055	5	6	57	13	3
HF118.060	HF119.060	6	6	57	13	3
HF118.070	HF119.070	7	10	66	16	3
HF118.080	HF119.080	8	10	69	19	3
HF118.090	HF119.090	9	10	69	19	3
HF118.100	HF119.100	10	10	72	22	3
HF118.110	HF119.110	11	12	79	22	3
HF118.120	HF119.120	12	12	83	26	3
HF118.130	HF119.130	13	12	83	26	3
HF118.140	HF119.140	14	12	83	26	3
HF118.150	HF119.150	15	12	83	26	3
HF118.160	HF119.160	16	16	92	32	3
HF118.180	HF119.180	18	16	92	32	3
HF118.200	HF119.200	20	20	104	38	3
HF118.220	HF119.220	22	20	104	38	3
HF118.240	HF119.240	24	25	121	45	3
HF118.250	HF119.250	25	25	121	45	3



Fresa HSS – Z3 – Serie Larga

• Características: HSS-CO8 – DIN 327 – Tipo N – Corte 30/12º

Referencia	Referencia TIALN	D	d	L1	L2	Z
HF120.020	HF121.020	2	6	54	10	3
HF120.030	HF121.030	3	6	56	12	3
HF120.040	HF121.040	4	6	63	19	3
HF120.050	HF121.050	5	6	68	24	3
HF120.060	HF121.060	6	6	68	24	3
HF120.080	HF121.080	8	10	88	38	3
HF120.090	HF121.090	9	10	88	38	3
HF120.100	HF121.100	10	10	95	45	3
HF120.120	HF121.120	12	12	110	53	3
HF120.140	HF121.140	14	12	110	53	3
HF120.160	HF121.160	16	16	123	63	3
HF120.180	HF121.180	18	16	123	63	3
HF120.200	HF121.200	20	20	141	75	3
HF120.220	HF121.220	22	20	141	75	3
HF120.250	HF121.250	25	25	166	90	3

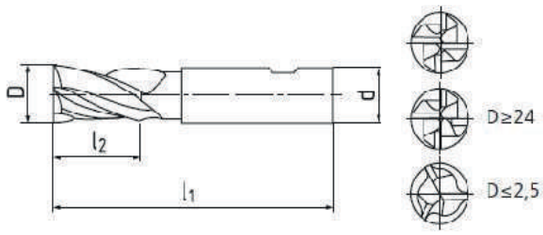


Fresa HSS Z4 / Z5 – Serie Estándar

• Características: HSS-CO8 – DIN 844 Tipo N – Corte 40/12º

Referencia	Referencia TIALN	D	d	L1	L2	Z
HF124.020	HF125.020	2	6	51	7	3
HF124.025	HF125.025	2.5	6	52	8	3
HF124.030	HF125.030	3	6	52	8	4
HF124.035	HF125.035	3.5	6	54	10	4
HF124.040	HF125.040	4	6	55	11	4
HF124.045	HF125.045	4.5	6	55	11	4
HF124.050	HF125.050	5	6	57	13	4
HF124.055	HF125.055	5.5	6	57	13	4
HF124.060	HF125.060	6	6	57	13	4
HF124.065	HF125.065	6.5	10	66	16	4
HF124.070	HF125.070	7	10	66	16	4
HF124.075	HF125.075	7.5	10	66	16	4
HF124.080	HF125.080	8	10	69	19	4
HF124.085	HF125.085	8.5	10	69	19	4
HF124.090	HF125.090	9	10	69	19	4
HF124.095	HF125.095	9.5	10	69	19	4
HF124.100	HF125.100	10	10	72	22	4
HF124.110	HF125.110	11	12	79	22	4
HF124.120	HF125.120	12	12	83	26	4
HF124.130	HF125.130	13	12	83	26	4
HF124.140	HF125.140	14	12	83	26	4
HF124.150	HF125.150	15	12	83	26	4
HF124.160	HF125.160	16	16	92	32	4
HF124.170	HF125.170	17	16	92	32	4
HF124.180	HF125.180	18	16	92	32	4
HF124.190	HF125.190	19	16	92	32	4
HF124.200	HF125.200	20	20	104	38	4
HF124.220	HF125.220	21	20	104	38	4
HF124.240	HF125.240	22	25	121	45	5
HF124.250	HF125.250	24	25	121	45	5
HF124.280	HF125.280	25	25	121	45	5
HF124.300	HF125.300	28	25	121	45	5
HF124.320	HF125.320	30	32	133	53	6



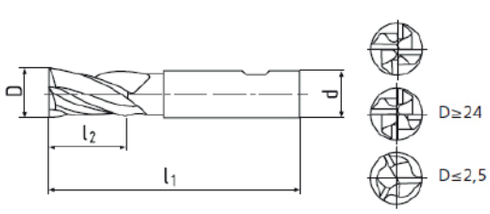


Fresa HSS Serie Larga

• Características: HSS-CO8 – DIN 844 - Tipo N – Corte 40/12º

Referencia	Referencia TIALN	D	d	L1	L2	Z
HF126.020	HF127.020	2	6	54	10	3
HF126.025	HF127.025	2.5	6	56	12	3
HF126.030	HF127.030	3	6	56	12	4
HF126.035	HF127.035	3.5	6	59	15	4
HF126.040	HF127.040	4	6	63	19	4
HF126.045	HF127.045	4.5	6	63	19	4
HF126.050	HF127.050	5	6	68	24	4
HF126.055	HF127.055	5.5	6	68	24	4
HF126.060	HF127.060	6	6	68	24	4
HF126.065	HF127.065	6.5	10	80	30	4
HF126.070	HF127.070	7	10	80	30	4
HF126.075	HF127.075	7.5	10	80	30	4
HF126.080	HF127.080	8	10	88	38	4
HF126.085	HF127.085	8.5	10	88	38	4
HF126.090	HF127.090	9	10	88	38	4
HF126.095	HF127.095	9.5	10	88	38	4
HF126.100	HF127.100	10	10	95	45	4
HF126.110	HF127.110	11	12	102	45	4
HF126.120	HF127.120	12	12	110	53	4
HF126.130	HF127.130	13	12	110	53	4
HF126.140	HF127.140	14	12	110	53	4
HF126.150	HF127.150	15	12	110	53	4

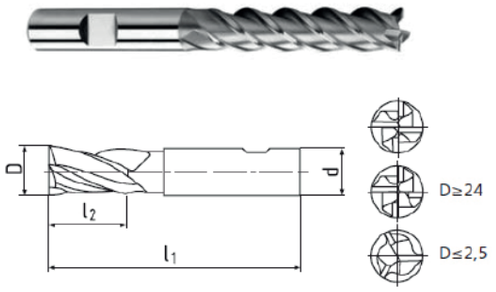




Fresa HSS Serie Larga - Continuación

Referencia	Referencia TIALN	D	d	L1	L2	Z
HF126.160	HF127.160	16	16	123	63	4
HF126.170	HF127.170	17	16	123	63	4
HF126.180	HF127.180	18	16	123	63	4
HF126.190	HF127.190	19	16	123	63	4
HF126.200	HF127.200	20	20	141	75	4
HF126.220	HF127.220	22	20	141	75	4
HF126.240	HF127.240	24	25	166	90	5
HF126.250	HF127.250	25	25	166	90	5
HF126.280	HF127.280	28	25	166	90	5
HF126.300	HF127.300	30	25	166	90	5
HF126.320	HF127.320	32	32	186	106	6

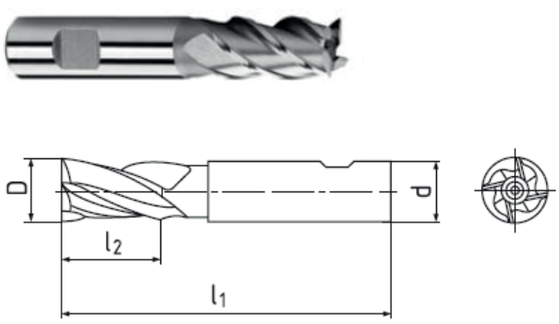
• Características: HSS-CO8 – DIN 844- Tipo N – Corte 40/12º



Fresa Z4/5/6 – Serie Estándar

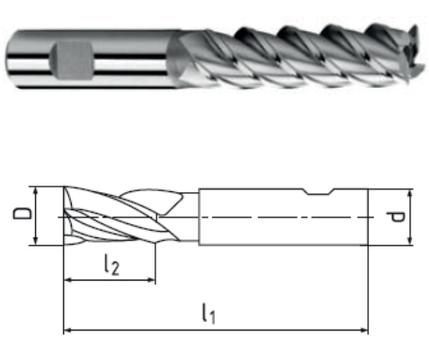
• Características: HSS-CO8 – DIN 844 - Tipo N – Corte 40/12º / 35/12º

Referencia	Referencia TIALN	D	d	L1	L2	Z
HF128.060	HF129.060	6	6	57	13	4
HF128.070	HF129.070	7	10	66	16	4
HF128.080	HF129.080	8	10	69	19	4
HF128.090	HF129.090	9	10	69	19	4
HF128.100	HF129.100	10	10	72	22	4
HF128.110	HF129.110	11	12	79	22	4
HF128.120	HF129.120	12	12	83	26	4
HF128.130	HF129.130	13	12	83	26	4
HF128.140	HF129.140	14	12	83	26	4
HF128.150	HF129.150	15	12	83	26	4
HF128.160	HF129.160	16	16	92	32	4
HF128.170	HF129.170	17	16	92	32	4
HF128.180	HF129.180	18	16	92	32	4
HF128.190	HF129.190	19	16	92	32	4
HF128.200	HF129.200	20	20	104	38	4
HF128.210	HF129.210	21	20	104	38	5
HF128.220	HF129.220	22	20	104	38	5
HF128.240	HF129.240	24	25	121	45	5
HF128.250	HF129.250	25	25	121	45	5
HF128.280	HF129.280	28	25	121	45	5
HF128.300	HF129.300	30	25	121	45	6
HF128.320	HF129.320	32	32	133	53	6
HF128.360	HF129.360	36	32	133	53	6
HF128.400	HF129.400	40*	32	143	63	6



Fresa HSS Z4/5/6 – Serie Larga

• Características: HSS-CO8 – DIN 844
• Tipo N – Corte 40/12º



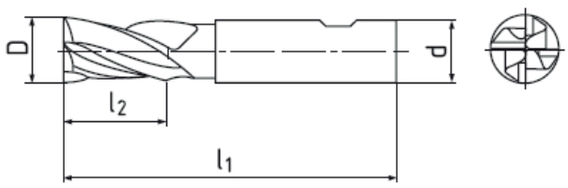
Referencia	Referencia TIALN	D	d	L1	L2	Z
HF130.060	HF131.060	6	6	68	24	4
HF130.070	HF131.070	7	10	80	30	4
HF130.080	HF131.080	8	10	88	38	4
HF130.090	HF131.090	9	10	88	38	4
HF130.100	HF131.100	10	10	95	45	4
HF130.110	HF131.110	11	12	102	45	4
HF130.120	HF131.120	12	12	110	53	4
HF130.130	HF131.130	13	12	110	53	4
HF130.140	HF131.140	14	12	110	53	4
HF130.150	HF131.150	15	12	110	53	4
HF130.160	HF131.160	16	16	123	63	4
HF130.170	HF131.170	17	16	123	63	4
HF130.180	HF131.180	18	16	123	63	4
HF130.200	HF131.200	20	20	141	75	4
HF130.220	HF131.220	22	20	141	75	4
HF130.250	HF131.250	25	25	166	90	5
HF130.280	HF131.280	28	25	166	90	5
HF130.300	HF131.300	30	25	166	90	5
HF130.320	HF131.320	32	32	186	106	5
HF130.360	HF131.360	36	32	186	106	5

Referencia	Referencia TIALN	D	d	L1	L2	Z
HF132.020	HF133.020	2	6	51	7	3
HF132.025	HF133.025	2.5	6	52	8	3
HF132.030	HF133.030	3	6	52	8	4
HF132.035	HF133.035	3.5	6	54	10	4
HF132.040	HF133.040	4	6	55	11	4
HF132.045	HF133.045	4.5	6	55	11	4
HF132.050	HF133.050	5	6	57	13	4
HF132.055	HF133.055	5.5	6	57	13	4
HF132.060	HF133.060	6	6	57	13	4
HF132.065	HF133.065	6.5	10	66	16	4
HF132.070	HF133.070	7	10	66	16	4
HF132.075	HF133.075	7.5	10	66	16	4
HF132.080	HF133.080	8	10	69	19	4
HF132.085	HF133.085	8.5	10	69	19	4
HF132.090	HF133.090	9	10	69	19	4
HF132.095	HF133.095	9.5	10	69	19	4
HF132.100	HF133.100	10	10	72	22	4
HF132.105	HF133.105	10.5	12	79	22	4
HF132.110	HF133.110	11	12	79	22	4
HF132.120	HF133.120	12	12	83	26	4
HF132.130	HF133.130	13	12	83	26	4
HF132.140	HF133.140	14	12	83	26	4
HF132.150	HF133.150	15	12	83	26	4
HF132.160	HF133.160	16	16	92	32	4
HF132.170	HF133.170	17	16	92	32	4
HF132.180	HF133.180	18	16	92	32	4
HF132.200	HF133.200	20	20	104	38	4
HF132.210	HF133.210	21	20	104	38	5
HF132.220	HF133.220	22	20	104	38	5
HF132.240	HF133.240	24	25	121	45	5
HF132.250	HF133.250	25	25	121	45	5
HF132.260	HF133.260	26	25	121	45	5
HF132.270	HF133.270	27	25	121	45	5
HF132.280	HF133.280	28	25	121	45	5
HF132.300	HF133.300	30	25	121	45	5
HF132.320	HF133.320	32	32	133	53	6
HF132.340	HF133.340	34	32	133	53	6
HF132.350	HF133.350	35	32	133	53	6
HF132.360	HF133.360	36	32	133	53	6
HF132.400	HF133.400	40	32	143	63	6

Fresa HSS Z3/4/5/6 – Serie Estándar

- Características: HSS-CO8 – DIN 844
- Tipo N – Corte 30/8º



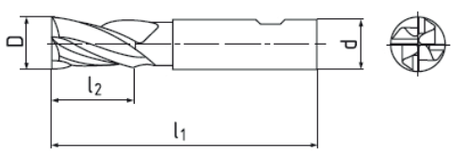


Referencia	Referencia TIALN	D	d	L1	L2	Z
HF134.020	HF135.020	2	6	54	10	3
HF134.030	HF135.030	3	6	56	12	4
HF134.035	HF135.035	3.5	6	59	15	4
HF134.040	HF135.040	4	6	63	19	4
HF134.045	HF135.045	4.5	6	63	19	4
HF134.050	HF135.050	5	6	68	24	4
HF134.055	HF135.055	5.5	6	68	24	4
HF134.060	HF135.060	6	6	68	24	4
HF134.070	HF135.070	7	10	80	30	4
HF134.080	HF135.080	8	10	88	38	4
HF134.090	HF135.090	9	10	88	38	4
HF134.100	HF135.100	10	10	95	45	4
HF134.110	HF135.110	11	12	102	45	4
HF134.120	HF135.120	12	12	110	53	4
HF134.130	HF135.130	13	12	110	53	4
HF134.140	HF135.140	14	12	110	53	4
HF134.150	HF135.150	15	12	110	53	4
HF134.160	HF135.160	16	16	123	63	4
HF134.180	HF135.180	18	16	123	63	4

Fresa HSS Z3/4/5/6 – Serie Larga

- Características: HSS-CO8 – DIN 844
- Tipo N – Corte 30/8º

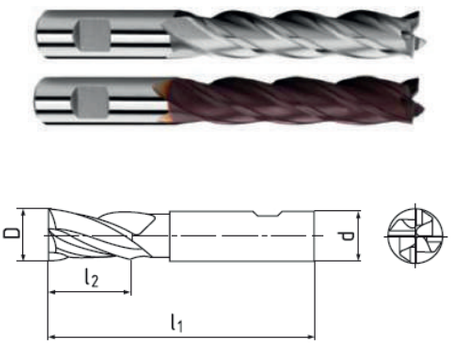




Fresa HSS Z3/4/5/6 – Serie Larga - Continuación

• Características: HSS-CO8 – DIN 844 - Tipo N – Corte 30/8º

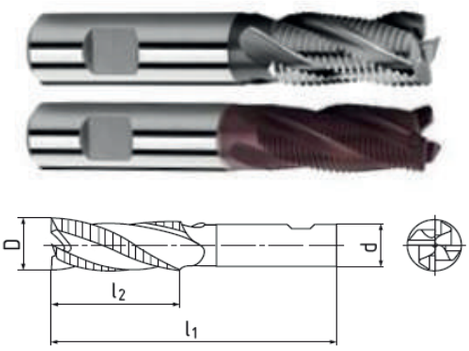
Referencia	Referencia TIALN	D	d	L1	L2	Z
HF134.200	HF135.200	20	20	141	75	4
HF134.220	HF135.220	22	25	141	75	5
HF134.240	HF135.240	24	25	166	90	5
HF134.250	HF135.250	25	25	166	90	5
HF134.280	HF135.280	28	25	166	90	5
HF134.300	HF135.300	30	25	166	90	5
HF134.320	HF135.320	32	32	186	106	6
HF134.360	HF135.360	36	32	186	106	6
HF134.40032	HF135.40032	40	32	205	125	6
HF134.400	HF135.400	40	40	217	125	6



Fresa HSS Desbaste Medio Z4/Z5 – Serie Estándar

• Características: HSS-CO8 – DIN 844 – Tipo HR – Corte 30/10º - Acabado Tipo RA6.3

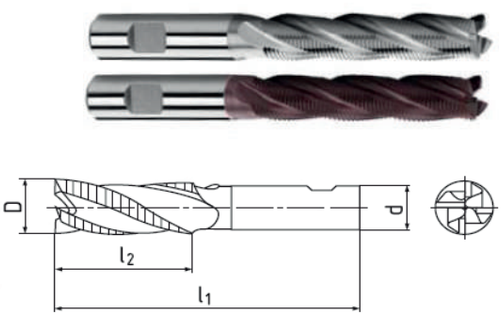
Referencia	Referencia TIALN	D	d	L1	L2	Z
HF140.060	HF141.060	6	6	57	13	4
HF140.070	HF141.070	7	10	66	16	4
HF140.080	HF141.080	8	10	69	19	4
HF140.090	HF141.090	9	10	69	19	4
HF140.100	HF141.100	10	10	72	22	4
HF140.110	HF141.110	11	12	79	22	4
HF140.120	HF141.120	12	12	83	26	4
HF140.130	HF141.130	13	12	83	26	4
HF140.140	HF141.140	14	12	83	26	4
HF140.150	HF141.150	15	12	83	26	4
HF140.160	HF141.160	16	16	92	32	4
HF140.170	HF141.170	17	16	92	32	4
HF140.180	HF141.180	18	16	92	32	4
HF140.200	HF141.200	20	20	104	38	5
HF140.220	HF141.220	22	20	104	38	5
HF140.240	HF141.240	24	25	121	45	5
HF140.250	HF141.250	25	25	121	45	5
HF140.260	HF141.260	26	25	121	45	5
HF140.280	HF141.280	28	25	121	45	5
HF140.300	HF141.300	30	25	121	45	5
HF140.320	HF141.300	32	32	133	53	6



Fresa HSS Desbaste Medio Z4/Z5 – Serie Larga

• Características: HSS-CO8 – DIN 844 – Tipo HR – Corte 30/10º - Acabado Tipo RA6.3

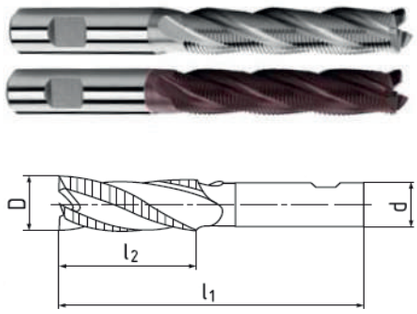
Referencia	Referencia TIALN	D	d	L1	L2	Z
HF142.060	HF143.060	6	6	68	24	4
HF142.080	HF143.080	7	10	88	38	4
HF142.100	HF143.100	10	10	95	45	4
HF142.110	HF143.110	11	12	102	45	4
HF142.120	HF143.120	12	12	110	53	4
HF142.130	HF143.130	13	12	110	53	4
HF142.140	HF143.140	14	12	110	53	4
HF142.160	HF143.160	16	16	123	63	4
HF142.180	HF143.180	18	16	123	63	4
HF142.200	HF143.200	20	20	141	75	5
HF142.220	HF143.220	22	20	141	75	5
HF142.240	HF143.240	24	25	166	90	5
HF142.250	HF143.250	25	25	166	90	5
HF142.260	HF143.260	26	25	166	90	5
HF142.280	HF143.280	28	25	166	90	5
HF142.300	HF143.300	30	25	166	90	5
HF142.320	HF143.320	32	32	186	106	6



Fresa HSS Desbaste Fuerte - Z4/Z5 – Serie Extra Larga

• Características: HSS-CO8 – DIN 844 – Tipo NR – Corte 30/12º - Acabado Tipo RA 12.5

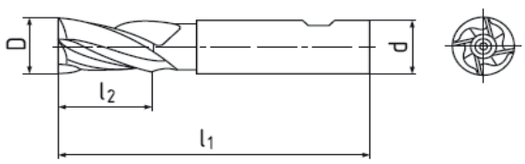
Referencia	Referencia TIALN	D	d	L1	L2	Z
HF146.100	HF147.100	10	10	110	60	4
HF146.120	HF147.120	12	12	137	80	4
HF146.140	HF147.140	14	12	137	80	4
HF146.160	HF147.160	16	16	160	100	4
HF146.180	HF147.180	18	16	160	100	4
HF146.200	HF147.200	20	20	191	125	4
HF146.220	HF147.220	22	20	191	125	5
HF146.250	HF147.250	25	25	216	140	5
HF146.280	HF147.280	28	25	216	140	5
HF146.300	HF147.300	30	25	216	140	5
HF146.320	HF147.320	32	32	260	180	6



Fresa HSS Acabado - Z4/Z5 – Serie extra Larga

• Características: HSS-CO8 – DIN 844 – Corte 30/12º

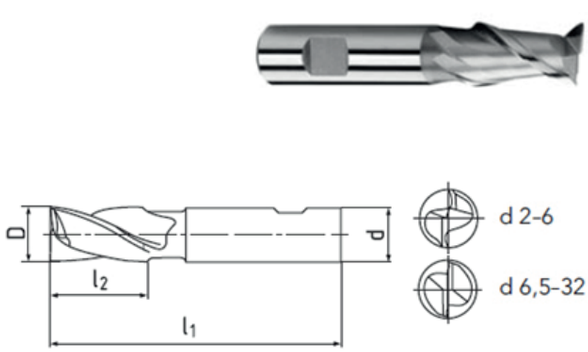
Referencia	Referencia TIALN	D	d	L1	L2	Z
HF148.100	HF149.100	10	10	110	60	4
HF148.120	HF149.120	12	12	137	80	4
HF148.140	HF149.140	14	12	137	80	4
HF148.160	HF149.160	16	16	160	100	5
HF148.180	HF149.180	18	16	160	100	5
HF148.200	HF149.200	20	20	191	125	5
HF148.220	HF149.220	22	20	191	125	5
HF148.250	HF149.250	25	25	216	140	6
HF148.280	HF149.280	28	25	216	140	6
HF148.300	HF149.300	30	25	216	140	6
HF148.320	HF149.320	32	32	260	180	6



Fresa Z2 – ALU – Serie Estándar

• Características: HSS-CO8 – DIN 844 – Tipo W – Corte 40/20º - Uso Aluminios y materiales no férricos

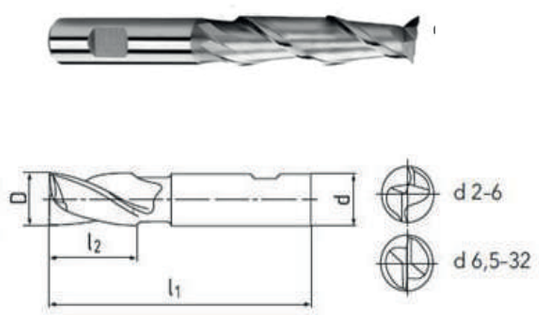
Referencia	D	d	L1	L2	Z
HF160.020	2	6	51	7	2
HF160.030	3	6	52	8	2
HF160.040	4	6	55	11	2
HF160.050	5	6	57	13	2
HF160.055	5.5	6	57	13	2
HF160.060	6	10	57	13	2
HF160.070	7	10	66	16	2
HF160.080	8	10	69	19	2
HF160.090	9	10	69	19	2
HF160.100	10	10	72	22	2
HF160.110	11	12	79	22	2
HF160.120	12	12	83	26	2
HF160.130	13	12	83	26	2
HF160.140	14	12	83	26	2
HF160.150	15	12	83	26	2
HF160.160	16	16	92	32	2
HF160.170	17	16	92	32	2
HF160.180	18	16	92	32	2
HF160.190	19	16	92	32	2
HF160.200	20	20	104	38	2
HF160.210	21	20	104	38	2
HF160.220	22	20	104	38	2
HF160.230	23	20	104	38	2
HF160.240	24	25	121	45	2
HF160.250	25	25	121	45	2
HF160.260	26	25	121	45	2
HF160.280	28	25	121	45	2
HF160.300	30	25	121	45	2
HF160.320	32	32	133	53	2



Fresa Z2 – ALU – Serie Larga

• Características: HSS-CO8 – DIN 844 – Tipo W – Corte 40/20º - Uso Aluminios y materiales no férricos

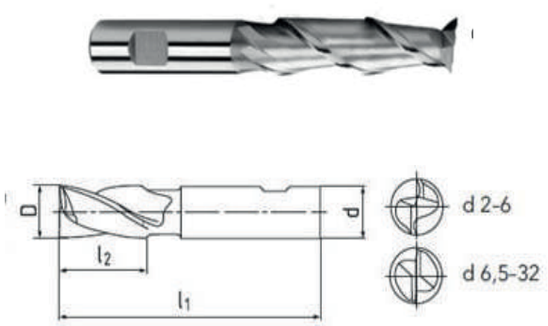
Referencia	D	d	L1	L2	Z
HF162.020	2	6	54	10	2
HF162.030	3	6	56	12	2
HF162.040	4	6	63	19	2
HF162.050	5	6	68	24	2
HF162.060	6	6	68	24	2
HF162.070	7	10	80	30	2
HF162.080	8	10	88	38	2
HF162.100	10	10	95	45	2
HF162.110	11	12	102	45	2
HF162.120	12	12	110	53	2
HF162.130	13	12	110	53	2
HF162.140	14	12	110	53	2
HF162.150	15	12	110	53	2
HF162.160	16	16	123	63	2
HF162.180	18	16	123	63	2
HF162.200	20	20	141	75	2
HF162.220	22	20	141	75	2
HF162.250	25	25	166	90	2



Fresa Z3 – ALU – Serie Estándar

• Características: HSS-CO8 – DIN 844 – Tipo W – Corte 40/25º - Uso Aluminios y materiales no férricos

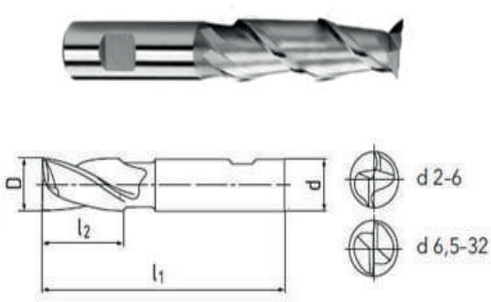
Referencia	D	d	L1	L2	Z
HF164.020	2	6	51	7	3
HF164.030	3	6	52	8	3
HF164.040	4	6	55	11	3
HF164.045	4.5	6	55	11	3
HF164.050	5	6	57	13	3
HF164.060	6	6	57	13	3
HF164.070	7	10	66	16	3
HF164.080	8	10	69	19	3
HF164.090	9	10	69	19	3
HF164.100	10	10	72	22	3
HF164.110	12	12	83	26	3
HF164.120	14	12	83	26	3
HF164.130	15	12	83	26	3
HF164.140	16	16	92	32	3
HF164.180	18	16	92	32	3
HF164.200	20	20	104	38	3



Fresa Z3 – ALU – Serie Larga

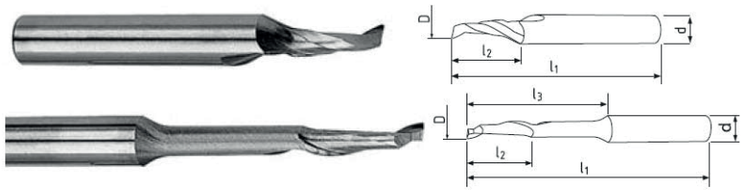
• Características: HSS-CO8 – DIN 844 – Tipo W – Corte 40/25º - Uso Aluminios y materiales no férricos

Referencia	Referencia TIALN	D	d	L1	L2	Z
HF166.060	HF167.060	6	6	68	24	3
HF166.070	HF167.070	7	10	80	30	3
HF166.080	HF167.080	8	10	88	38	3
HF166.090	HF167.090	9	10	88	38	3
HF166.100	HF167.100	10	10	95	45	3
HF166.120	HF167.120	12	12	110	53	3
HF166.140	HF167.140	14	12	110	53	3
HF166.150	HF167.150	15	12	110	53	3
HF166.160	HF167.160	16	16	123	63	3
HF166.180	HF167.180	18	16	123	63	3
HF166.200	HF167.200	20	20	141	75	3



Fresa HSS – Z1 – ALU

- Características: HSS-CO5 – DIN 844 - Tipo W – Corte 30/20º
- Serie HF110 - Estándar
- Serie HF111 - Larga



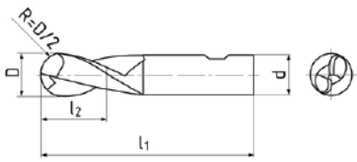
Referencia	D	Ø Amarre	Longitud Total	Longitud Corte
HF110.030	3	8	60	12
HF110.040	4	8	60	12
HF110.050	5	8	60	14
HF110.060	6	8	60	14
HF110.070	7	8	60	14
HF110.080	8	8	80	14
HF110.090	9	8	80	14
HF110.100	10	8	80	14
HF110.120	12	8	80	14

Referencia	D	Ø Amarre	Longitud Total	Longitud Corte	Longitud Rebajado
HF111.040	3	8	80	16	45
HF111.050	4	8	80	16	45
HF111.050L	5	8	120	16	84
HF111.060	6	8	90	16	45
HF111.080	8	8	100	30	70
HF111.080L	8	8	120	16	90

Fresa HSS Bola - Z2

- Características: HSS-CO8 - DIN 1889 - Weldon Din 1835B - Corte 25/10º





Referencia	D	Ø Amarre	Longitud Total	Longitud Corte
HF150.020	2	6	48	4
HF150.030	3	6	49	5
HF150.040	4	6	51	7
HF150.045	4.5	6	51	7
HF150.050	5	6	52	8
HF150.060	6	6	60	8
HF150.070	7	10	61	10
HF150.080	8	10	61	11
HF150.090	9	10	63	11
HF150.100	10	10	70	13
HF150.110	11	12	73	13
HF150.120	12	12	73	16
HF150.130	13	12	73	16

Referencia	D	Ø Amarre	Longitud Total	Longitud Corte
HF150.140	14	12	73	16
HF150.150	15	12	73	16
HF150.160	16	16	79	19
HF150.180	18	16	79	19
HF150.200	20	20	88	22
HF150.220	22	20	88	22
HF150.240	24	25	102	26
HF150.250	25	25	102	26
HF150.280	28	25	102	26
HF150.300	30	25	102	26
HF150.320	32	32	102	32

Fresa HSS Bola - Z2 Serie Larga

- Características: HSS-CO8 - DIN 1889 - Weldon Din 1835B - Corte 25/10º



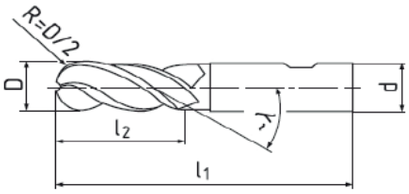
Referencia	D	Ø Amarre	Longitud Corte	Longitud Total
HF152.020	2	6	7	54
HF152.030	3	6	8	56
HF152.040	4	6	11	63
HF152.050	5	6	13	68
HF152.060	6	6	13	68
HF152.070	7	10	16	80
HF152.080	8	10	19	88
HF152.090	9	10	19	88
HF152.100	10	10	22	95
HF152.110	11	12	22	102
HF152.120	12	12	26	110
HF152.130	13	12	26	110

Referencia	D	Ø Amarre	Longitud Corte	Longitud Total
HF152.140	14	12	26	110
HF152.150	15	12	26	110
HF152.160	16	16	32	123
HF152.180	18	16	32	123
HF152.200	20	20	38	141
HF152.220	22	20	38	141
HF152.240	24	25	45	166
HF152.250	25	25	45	166
HF152.280	28	25	45	166
HF152.300	30	25	45	166
HF152.320	32	32	53	186

Fresa HSS Bola – Z4

• Características: HSS-CO8 – DIN 1889 – Weldon Din 1835B – Corte 12º





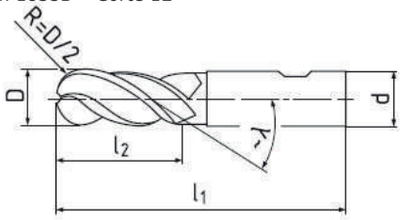
Referencia	D	Ø Amarre	Longitud Corte	Longitud Total
HF154.040	4	6	11	55
HF154.050	5	6	13	57
HF154.060	6	6	13	57
HF154.080	8	10	19	69

Referencia	D	Ø Amarre	Longitud Corte	Longitud Total
HF154.100	10	10	22	72
HF154.120	12	12	26	83
HF154.160	16	16	32	92
HF154.200	20	20	38	104

Fresa HSS Bola – Z4 – Serie Larga

• Características: HSS-CO8 – DIN 1889 – Weldon Din 1835B – Corte 12º





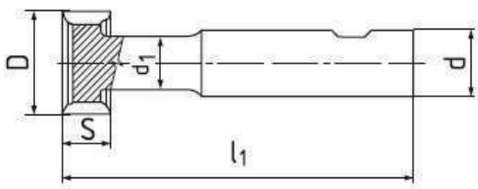
Referencia	D	Ø Amarre	Longitud Corte	Longitud Total
HF156.040	4	6	19	63
HF156.050	5	6	24	68
HF156.060	6	6	24	68
HF156.080	8	10	38	88

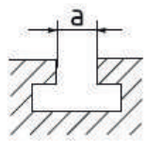
Referencia	D	Ø Amarre	Longitud Corte	Longitud Total
HF156.100	10	10	45	95
HF156.120	12	12	53	110
HF156.160	16	16	63	123
HF156.200	20	20	75	141

Fresa en T - Mango Cilíndrico

• Características: Fresa HSS-CO5 - DIN 851 - Tipo N – Corte 10/10º - HSS-CO5



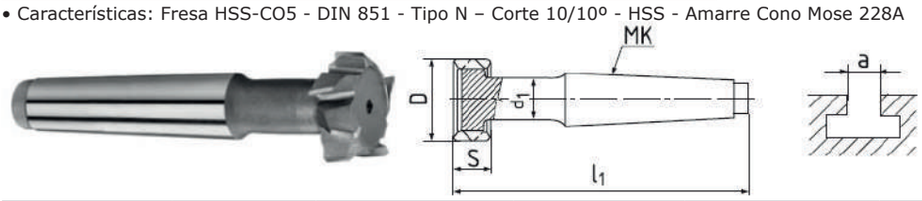




Referencia	Diametro D	Amarre d	Altura S	Mango Reducido d1	Longitud Total L1	Dientes Z	Ancho Ranura a
HF214.110	11	10	4	4	53.5	6	5
HF214.125	12.5	10	6	5	57	6	6
HF214.160	16	10	8	7	62	6	8
HF214.180	18	12	8	8	70	6	10
HF214.190	19	12	9	8	71	6	8
HF214.210	21	12	9	10	74	6	12
HF214.220	22	12	10	10	75	6	10
HF214.250	25	16	11	12	82	8	14
HF214.280	28	16	12	13	85	8	13
HF214.320	32	16	14	15	90	8	18
HF214.360	36	25	16	17	103	8	17
HF214.400	40	25	18	19	108	10	22
HF214.450	45	25	20	21	113	10	21
HF214.500	50	32	22	25	124	10	28
HF214.600	60	32	28	30	139	10	36

Fresa en T - Mango Cono Morse

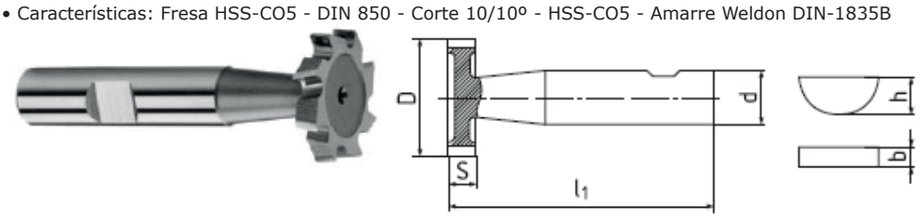
• Características: Fresa HSS-CO5 - DIN 851 - Tipo N – Corte 10/10º - HSS - Amarre Cono Mose 228A



Referencia	Diametro	Cono Morse	Anchura	Diametro Min	Longitud Total	Dientes	Ancho
HF216.180	18	1	8	8	82	8	10
HF216.210	21	2	9	10	102	8	12
HF216.250	25	2	11	12	104	8	14
HF216.320	32	2	14	16	111	8	18
HF216.400	40	3	18	20	138	8	22
HF216.500	50	4	22	25	173	8	28
HF216.600	60	4	28	31	188	10	36
HF216.720	72	5	35	36	229	10	42

Fresa en T – Woodruff

• Características: Fresa HSS-CO5 - DIN 850 - Corte 10/10º - HSS-CO5 - Amarre Weldon DIN-1835B



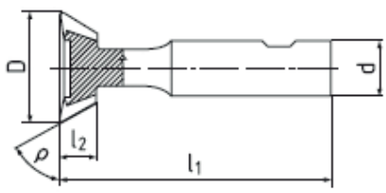
Referencia	Diametro	Amarre	Altura	Longitud Total	Diente	B	H
HF218.045	4.5	6	1	50	6	1	1.4
HF218.075	7.5	6	1.5	50	6	1.5	2.6
HF218.0752	7.5	6	2	50	6	2	2.6
HF218.105	10.5	6	2	50	6	2	3.7
HF218.1052	10.5	6	2.5	50	6	2.5	3.7
HF218.1053	10.5	6	3	50	6	3	3.7
HF218.135	13.5	10	2	56	6	-	-
HF218.1352	13.5	10	3	56	6	3	5
HF218.1353	13.5	10	4	56	6	4	5
HF218.165	16.5	10	3	56	6	3	6.5
HF218.1652	16.5	10	4	56	6	4	6.5
HF218.1653	16.5	10	5	56	6	5	6.5
HF218.195	19.5	10	3	63	8	-	-
HF218.1952	19.5	10	4	63	8	4	7.5
HF218.1953	19.5	10	5	63	8	5	7.5
HF218.1954	19.5	10	6	63	8	6	7.5
HF218.225	22.5	10	4	63	8	-	-
HF218.2252	22.5	10	5	63	10	5	9
HF218.2253	22.5	10	6	63	10	6	9
HF218.2254	22.5	10	8	63	10	8	9
HF218.255	25.5	10	5	63	10	-	-
HF218.2552	25.5	10	6	63	10	6	10
HF218.285	28.5	10	6	63	10	6	11
HF218.2852	28.5	10	8	63	10	8	11
HF218.2853	28.5	12	10	71	10	10	11
HF218.325	32.5	12	6	71	10	-	-
HF218.3252	32.5	12	7	71	10	-	-
HF218.3253	32.5	12	8	71	10	8	13
HF218.3254	32.5	12	10	71	10	10	13
HF218.385	38.5	12	8	71	10	-	-
HF218.455	45.5	12	8	71	12	-	-
HF218.4552	45.5	12	10	71	12	10	16

Fresa Cònica Angular

• Características: Fresa HSS-CO5 - DIN 1833A - Corte 0/0º - HSS-CO5 - Amarre Weldon DIN-1835B

Referencia	Ángulo	Diametro	Amarre	Longitud Total	Altura	Diente
HF220.04516	45	16	12	60	4	10
HF220.04520	45	20	12	63	5	10
HF220.04525	45	25	12	67	6.3	10
HF220.04532	45	32	16	71	8	12
HF220.04540	45	40	16	80	10	12
HF220.05016	50	16	12	80	5	10
HF220.05020	50	20	12	60	6.3	10
HF220.05025	50	25	12	63	8	10
HF220.05516	55	16	12	67	5.6	10
HF220.05520	55	20	12	60	7.1	10
HF220.05525	55	25	12	63	9	10
HF220.06016	60	16	12	67	6.3	10
HF220.06020	60	20	12	60	8	10
HF220.06025	60	25	12	63	10	10
HF220.06032	60	32	12	67	12.5	12
HF220.06040	60	40	12	71	16	12
HF220.06516	65	16	12	80	6.3	10
HF220.06525	65	25	12	60	10	12
HF220.07016	70	16	12	67	7	10
HF220.07020	70	20	12	60	9	10
HF220.07025	70	25	16	63	11	10
HF220.07516	75	16	12	67	8	10
HF220.07525	75	25	12	60	10	12
HF220.08016	80	16	12	67	8	10
HF220.08025	80	25	12	60	10	12
HF220.08516	85	16	12	67	8	10
HF220.08525	85	25	12	60	10	12



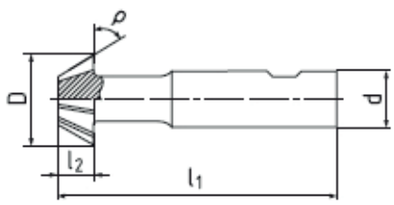


Fresa Cònica Angular

• Características: Fresa HSS-CO5 - DIN 1833A - Corte 0/0º - HSS-CO5 - Amarre Weldon DIN-1835B

Referencia	Ángulo	Diametro	Amarre	Longitud Total	Altura	Diente
HF222.04516	45	16	12	60	4	10
HF222.04520	45	20	12	63	5	10
HF222.04525	45	25	12	67	6.3	10
HF222.04532	45	32	16	71	8	12
HF222.04540	45	40	16	80	10	12
HF222.05016	50	16	12	60	5	12
HF222.05020	50	20	12	63	6.3	12
HF222.05025	50	25	12	67	8	12
HF222.05516	55	16	12	60	5.6	10
HF222.05520	55	20	12	63	7.1	10
HF222.05525	55	25	12	67	9	12
HF222.06016	60	16	12	60	6.3	10
HF222.06020	60	20	12	63	8	10
HF222.06025	60	25	12	67	10	10
HF222.06516	65	16	16	60	6.3	10
HF222.06525	65	25	16	67	10	12
HF222.07016	70	16	12	60	7	10
HF222.07020	70	20	12	63	9	10
HF222.07516	75	16	12	60	8	10
HF222.07525	75	25	12	67	10	12

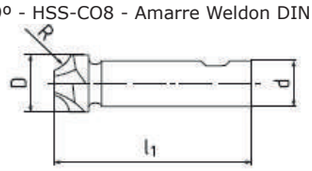




Fresa Radio

• Características: DIN 6518 - Corte 0/9º - HSS-CO8 - Amarre Weldon DIN 1835B





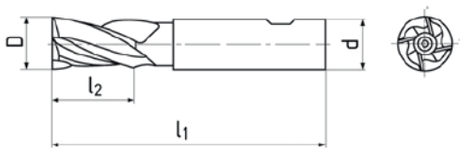
Referencia	Radio	Diametro	Amarre	Long. Total	Dientes
HF224.010	1	8	10	60	4
HF224.0125	1.25	9	10	60	4
HF224.015	1.5	9	10	60	4
HF224.016	1.6	9.2	10	60	4
HF224.020	2	10	10	60	4
HF224.025	2.5	11	10	60	4
HF224.030	3	12	12	60	4
HF224.035	3.5	13	12	60	4
HF224.040	4	14	12	60	4
HF224.045	4.5	15	12	60	4
HF224.050	5	16	12	60	4
HF224.055	5.5	19	16	67	4
HF224.060	6	20	16	67	4
HF224.063	6.3	20.6	16	71	4
HF224.065	6.5	21	16	71	4
HF224.070	7.0	22	16	71	4
HF224.075	7.5	23	16	71	4

Referencia	Radio	Diametro	Amarre	Long.Total	Dientes
HF224.080	8	24	16	71	4
HF224.085	8.5	25	25	85	4
HF224.090	9	26	25	85	4
HF224.095	9.5	27	25	85	4
HF224.100	10	28	25	85	4
HF224.105	10.5	31	25	90	4
HF224.110	11	32	25	90	4
HF224.120	12	34	25	90	4
HF224.125	12.5	41	25	100	6
HF224.130	13	42	25	100	6
HF224.140	14	44	25	100	6
HF224.150	15	46	25	100	6
HF224.160	16	48	25	100	6
HF224.170	17	50	32	112	6
HF224.180	18	52	32	112	6
HF224.190	19	56	32	112	6
HF224.200	20	56	32	112	6

Fresa Acabado Mango Cilíndrico

• Características: Modelo: Z6/Z8 - HSS-CO8 - Tipo: N - Helice 30º/12º





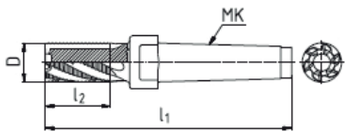
Referencia	Referencia TIALN	D	d	L1	L2	Z
HF212.300	HF213.300	30	20	90	30	6
HF212.350	HF213.350	35	20	90	30	6
HF212.400	HF213.400	40	25	90	32	8
HF212.500	HF213.500	50	32	100	36	8

Fresa Desbaste Cono Morse

• Características: DIN 845B/C - Tipo NR – Corte 30/12º - HSS-CO8

Referencia	D	MK	Long. Total	Long. Corte	Z
HF226.100	10	1	92	22	4
HF226.120	12	1	96	26	4
HF226.140	14	2	111	26	4
HF226.160	16	2	117	32	4
HF226.180	18	2	117	32	4
HF226.200	20	2	123	38	4
HF226.220	22	2	123	38	5
HF226.240	24	3	147	45	5
HF226.250	25	3	147	45	5
HF226.260	26	3	147	45	5
HF226.280	28	3	147	45	5
HF226.300	30	3	147	45	6
HF226.320	32	4	201	53	6
HF226.350	35	4	201	53	6
HF226.360	36	4	201	53	6
HF226.400	40	4	211	63	6
HF226.410	41	4	211	63	6
HF226.450	45	4	211	63	6
HF226.500	50	5	261	75	6
HF226.630	63	5	276	90	6





• Serie HF226 - Estándar
• Serie HF228 - Larga

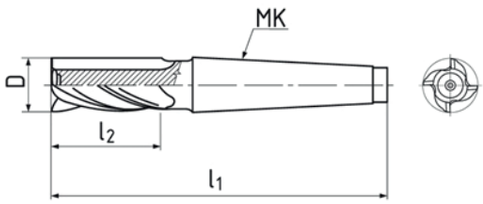
Referencia	D	MK	Long. Total	Long. Corte	Z
H228.160	16	2	148	63	4
H228.200	20	2	160	75	4
H228.220	22	3	160	75	5
H228.240	24	3	192	90	5
H228.250	25	3	192	90	5
H228.260	26	3	192	90	5
H228.280	28	3	192	90	5
H228.300	30	3	192	90	5
H228.320	32	4	254	106	6
H228.360	36	4	254	106	6
H228.400	40	4	273	125	6
H228.450	45	4	273	125	6
H228.500	50	5	336	150	8
H228.630	63	5	366	180	8

Fresa Z-2 Cono Morse

• Características: DIN 326 - Tipo N – Corte 25/12º - HSS-CO5



Referencia	D	MK	Long. Total	Long. Corte	Z
HF230.120	12	1	85	14	2
HF230.140	14	2	100	16	2
HF230.160	16	2	105	8	2
HF230.180	18	2	110	20	2
HF230.200	20	2	115	20	2
HF230.220	22	2	120	22	2
HF230.240	24	3	140	25	2
HF230.250	25	3	140	25	2



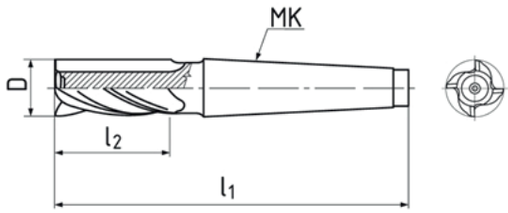
Referencia	D	MK	Long. Total	Long. Corte	Z
HF230.280	28	3	145	28	2
HF230.300	30	3	150	30	2
HF230.320	32	4	175	32	2
HF230.360	36	4	175	34	2
HF230.400	40	4	180	38	2
HF230.450	45	4	185	42	2
HF230.500	50	5	220	45	2

Fresa Cono Morse

• Características: DIN 845B/C - Tipo W - Corte 45/22º - HSS-CO5

Referencia	D	MK	Long. Total	Long. Corte	Z
HF232.100	10	1	92	22	3
HF232.120	12	2	111	26	3
HF232.160	16	2	117	32	3
HF232.200	20	2	123	38	3
HF232.220	22	2	123	38	3
HF232.240	24	3	147	45	4
HF232.250	25	3	147	45	4
HF232.260	26	3	147	45	4
HF232.280	28	3	147	45	4
HF232.300	30	3	147	45	4
HF232.320	32	4	178	53	4
HF232.360	36	4	178	53	4
HF232.400	40	4	188	63	4
HF232.450	45	4	188	63	4
HF232.500	50	5	233	75	5
HF232.630	63	5	248	90	6





Serie Larga

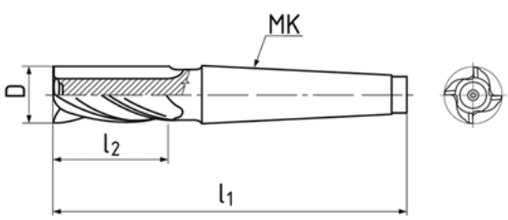
Referencia	D	MK	Long. Total	Long. Corte	Z
HF234.250	25	3	192	90	4
HF234.320	32	4	231	106	4
HF234.400	40	4	250	125	4
HF234.500	50	5	308	150	5
HF234.630	63	5	338	180	6

Fresa Acabado Cono Morse

• Características: DIN 845B/C - Tipo W Corte 45/22º - HSS-CO5

Referencia	D	MK	Long. Total	Long. Corte	Z
HF244.100	10	1	92	22	4
HF244.120	12	1	96	26	4
HF244.140	14	2	111	26	4
HF244.160	16	2	117	32	4
HF244.180	18	2	117	32	4
HF244.200	20	2	123	38	4
HF244.220	22	2	123	38	5
HF244.250	25	3	147	45	5
HF244.280	28	3	147	45	5
HF244.300	30	3	147	45	6
HF244.320	32	4	178	53	6
HF244.360	36	4	178	53	6
HF244.400	40	4	188	63	6
HF244.450	45	4	188	63	6
HF244.500	50	5	233	75	6





Fresas Disco HSS-CO5 - Diente Cruzado

- Características: Diente Cruzado y Uso Universal
- DIN 885A – DIN 138 – Tipo N – Corte 10/12º - HSS-CO5



Referencia	Diametro	Espesor	Agujero	Dientes
HF258.05003	50	3	16	12
HF258.05004	50	4	16	12
HF258.05005	50	5	16	12
HF258.05006	50	6	16	12
HF258.05008	50	8	16	12
HF258.05010	50	10	16	12
HF258.06303	63	3	22	12
HF258.06304	63	4	22	12
HF258.06305	63	5	22	12
HF258.06306	63	6	22	12
HF258.06308	63	8	22	12
HF258.06310	63	10	22	12
HF258.06312	63	12	22	12
HF258.06314	63	14	22	12
HF258.06316	63	16	22	12
HF258.06318	63	18	22	12
HF258.08003	80	3	27	14
HF258.08004	80	4	27	14
HF258.08005	80	5	27	14
HF258.08006	80	6	27	14
HF258.08008	80	8	27	14
HF258.08010	80	10	27	14
HF258.08012	80	12	27	14
HF258.08014	80	14	27	14
HF258.08016	80	16	27	14
HF258.08018	80	18	27	14
HF258.08020	80	20	27	14
HF258.10003	100	3	32	14
HF258.10004	100	4	32	14
HF258.10005	100	5	32	14
HF258.10006	100	6	32	14
HF258.10008	100	8	32	14
HF258.10010	100	10	32	14
HF258.10012	100	12	32	14
HF258.10014	100	14	32	14
HF258.10016	100	16	32	14
HF258.10018	100	18	32	14
HF258.10020	100	20	32	14
HF258.10022	100	22	32	14
HF258.10025	100	25	32	14
HF258.12504	125	4	32	16
HF258.12505	125	5	32	16
HF258.12506	125	6	32	16
HF258.12508	125	8	32	16
HF258.12510	125	10	32	16
HF258.12512	125	12	32	16
HF258.12514	125	14	32	16
HF258.12516	125	16	32	16
HF258.12518	125	18	32	16
HF258.12520	125	20	32	16
HF258.12522	125	22	32	16
HF258.12525	125	25	32	16
HF258.12528	125	28	32	16

Fresas Disco HSS-CO5 - Diente Cruzado

- Características: Diente Cruzado y Materiales Duros
- DIN 885A – DIN 138 – Tipo H – Corte 10/8º - HSS-CO5



Referencia	Diametro	Agujero	Espesor	Dientes
HF260.05003	50	3	16	16
HF260.05004	50	4	16	16
HF260.05005	50	5	16	16
HF260.05006	50	6	16	16
HF260.05008	50	8	16	16
HF260.05010	50	10	16	18
HF260.06303	63	3	22	18
HF260.06304	63	4	22	18
HF260.06305	63	5	22	18
HF260.06306	63	6	22	18
HF260.06308	63	8	22	18
HF260.06310	63	10	22	18
HF260.06312	63	12	22	18
HF260.06314	63	14	22	18
HF260.06316	63	16	22	18
HF260.08004	80	4	27	20
HF260.08005	80	5	27	20
HF260.08006	80	6	27	20
HF260.08008	80	8	27	20
HF260.08010	80	10	27	18
HF260.08012	80	12	27	18
HF260.08014	80	14	27	18
HF260.08016	80	16	27	18
HF260.08018	80	18	27	18
HF260.08020	80	20	27	18
HF260.10003	100	3	32	20
HF260.10004	100	4	32	20
HF260.10005	100	5	32	20
HF260.10006	100	6	32	20
HF260.10008	100	8	32	20
HF260.10010	100	10	32	20
HF260.10012	100	12	32	20
HF260.10014	100	14	32	20
HF260.10016	100	16	32	20
HF260.10018	100	18	32	20
HF260.10020	100	20	32	20
HF260.10025	100	25	32	20
HF260.12505	125	5	32	24
HF260.12506	125	6	32	24
HF260.12508	125	8	32	24
HF260.12510	125	10	32	22
HF260.12512	125	12	32	22
HF260.12514	125	14	32	22
HF260.12516	125	16	32	22
HF260.12518	125	18	32	22
HF260.12520	125	20	32	22
HF260.12525	125	25	32	22
HF260.12528	125	28	32	22

Fresas Disco HSS-CO5 - Diente Cruzado - Continuación

Referencia	Diametro	Espesor	Agujero	Dientes
HF258.16006	160	6	40	18
HF258.16008	160	8	40	18
HF258.16010	160	10	40	18
HF258.16012	160	12	40	18
HF258.16014	160	14	40	18
HF258.16016	160	16	40	18
HF258.16018	160	18	40	18
HF258.16020	160	20	40	18
HF258.16025	160	25	40	18
HF258.16032	160	32	40	18
HF258.20008	200	8	40	24
HF258.20010	200	10	40	18
HF258.20012	200	12	40	18
HF258.20014	200	14	40	18
HF258.20016	200	16	40	18
HF258.20018	200	18	40	18
HF258.20020	200	20	40	18
HF258.20025	200	25	40	18
HF258.20032	200	32	40	18

Referencia	Diametro	Agujero	Espesor	Dientes
HF260.16006	160	6	40	26
HF260.16008	160	8	40	26
HF260.16010	160	10	40	26
HF260.16012	160	12	40	26
HF260.16014	160	14	40	26
HF260.16016	160	16	40	26
HF260.16018	160	18	40	26
HF260.16020	160	20	40	26
HF260.16025	160	25	40	26
HF260.16032	160	32	40	26
HF260.20008	200	8	40	32
HF260.20010	200	10	40	32
HF260.20012	200	12	40	32
HF260.20014	200	14	40	32
HF260.20016	200	16	40	32
HF260.20018	200	18	40	32
HF260.20020	200	20	40	32
HF260.20025	200	25	40	32
HF260.20032	200	32	40	32
HF260.25008	250	8	40	38
HF260.25010	250	10	40	38
HF260.25012	250	12	40	38

Fresas Disco HSS-CO8 - Recto

- Características: Diente Recto - Uso Universal
- DIN 885B – DIN 138 - Tipo H – Corte 0/8º - HSS-CO8



Referencia	Diametro	Espesor	Agujero	Dientes
HF261.05004	50	4	16	16
HF261.05005	50	5	16	16
HF261.05006	50	6	16	16
HF261.05008	50	8	16	16
HF261.05010	50	10	16	16
HF261.06304	63	4	22	18
HF261.06305	63	5	22	18
HF261.06306	63	6	22	18
HF261.06308	63	8	22	18
HF261.06310	63	10	22	18
HF261.06312	63	12	22	18
HF261.06314	63	14	22	18
HF261.06316	63	16	22	18
HF261.06318	63	18	22	18
HF261.08004	80	4	27	20
HF261.08005	80	5	27	20
HF261.08006	80	6	27	20
HF261.08008	80	8	27	20
HF261.08010	80	10	27	20
HF261.08012	80	12	27	20
HF261.08014	80	14	27	20
HF261.08016	80	16	27	20
HF261.08018	80	18	27	20
HF261.08020	80	20	27	20
HF261.10006	100	6	32	24
HF261.10008	100	8	32	24
HF261.10010	100	10	32	24

Referencia	Diametro	Espesor	Agujero	Dientes
HF261.10012	100	12	32	24
HF261.10014	100	14	32	24
HF261.10016	100	16	32	24
HF261.10018	100	18	32	24
HF261.10020	100	20	32	24
HF261.10022	100	22	32	24
HF261.10025	100	25	32	24
HF261.12506	125	6	32	24
HF261.12508	125	8	32	24
HF261.12510	125	10	32	24
HF261.12512	125	12	32	24
HF261.12514	125	14	32	24
HF261.12516	125	16	32	24
HF261.12518	125	18	32	24
HF261.12520	125	20	32	24
HF261.12525	125	25	32	24
HF261.16010	160	10	40	24
HF261.16012	160	12	40	24
HF261.16014	160	14	40	24
HF261.16016	160	16	40	24
HF261.16018	160	18	40	24
HF261.16020	160	20	40	24
HF261.20010	200	10	40	32
HF261.20012	200	12	40	32
HF261.20014	200	14	40	32
HF261.20016	200	16	40	32
HF261.20018	200	18	40	32
HF261.20020	200	20	40	32

Fresas Disco HSS-CO5 - Diente Cruzado

- Características: Diente Cruzado - DIN 885A DIN 138 – Tipo N – Corte 10/12º - HSS-CO5
- Serie HF262 - Uso Universal Serie HF264: Uso Materiales Duros



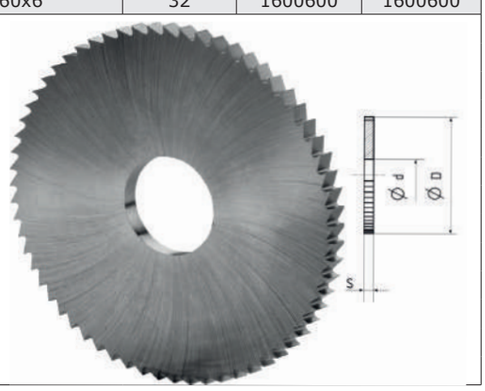
Referencia	Diametro	Espesor	Agujero	Dientes
≠HF262.063016	63	1.6	22	28
HF262.063020	63	2	22	28
HF262.063025	63	2.5	22	28
HF262.063030	63	3	22	28
HF262.063040	63	4	22	28
HF262.063050	63	5	22	28
HF262.063060	63	6	22	28
HF262.080016	80	1.6	27	32
HF262.080020	80	2	27	32
HF262.080025	80	2.5	27	32
HF262.080030	80	3	27	32
HF262.080040	80	4	27	32
HF262.080050	80	5	27	32
HF262.080060	80	6	27	32
HF262.100016	100	1.6	32	24
HF262.100020	100	2	32	24
HF262.100025	100	2.5	32	24
HF262.100030	100	3	32	24
HF262.100040	100	4	32	24
HF262.100050	100	5	32	24
HF262.100060	100	6	32	24
HF262.100080	100	8	32	24
HF262.125016	125	1.6	32	26
HF262.125020	125	2	32	26
HF262.125025	125	2.5	32	26
HF262.125030	125	3	32	26
HF262.125040	125	4	32	26
HF262.125050	125	5	32	26
HF262.125060	125	6	32	26
HF262.125080	125	8	32	26
HF262.125100	125	10	32	26
HF262.160020	160	2	40	30
HF262.160025	160	2.5	40	30
HF262.160030	160	3	40	30
HF262.160040	160	4	40	30
HF262.160050	160	5	40	30
HF262.160060	160	6	40	30
HF262.160080	160	8	40	30
HF262.160100	160	10	40	30
HF262.160120	160	12	40	30
HF262.200030	200	3	40	36

Referencia	Diametro	Espesor	Agujero	Dientes
HF264.050016	50	1.6	16	24
HF264.050020	50	2	16	24
HF264.050025	50	2.5	16	24
HF264.050030	50	3	16	24
HF264.050035	50	3.5	16	24
HF264.050040	50	4	16	24
HF264.050050	50	5	16	22
HF264.063016	63	1.6	22	28
HF264.063020	63	2	22	28
HF264.063025	63	2.5	22	28
HF264.063030	63	3	22	28
HF264.063035	63	3.5	22	28
HF264.063040	63	4	22	28
HF264.063050	63	5	22	28
HF264.063060	63	6	22	28
HF264.080016	80	1.6	27	32
HF264.080020	80	2	27	32
HF264.080025	80	2.5	27	32
HF264.080030	80	3	27	32
HF264.080035	80	3.5	27	32
HF264.080040	80	4	27	32
HF264.080050	80	5	27	32
HF264.080060	80	6	27	32
HF264.100016	100	1.6	32	36
HF264.100020	100	2	32	36
HF264.100025	100	2.5	32	36
HF264.100030	100	3	32	36
HF264.100035	100	3.5	32	36
HF264.100040	100	4	32	36
HF264.100050	100	5	32	36
HF264.100060	100	6	32	36
HF264.100080	100	8	32	28
HF264.125016	125	1.6	32	40
HF264.125020	125	2	32	40
HF264.125025	125	2.5	32	40
HF264.125030	125	3	32	40
HF264.125035	125	3.5	32	40
HF264.125040	125	4	32	40
HF264.125050	125	5	32	40
HF264.125060	125	6	32	40
HF264.125070	125	7	32	32
HF264.125080	125	8	32	32
HF264.125100	125	10	32	32
HF264.160020	160	2	40	48
HF264.160025	160	2.5	40	48
HF264.160030	160	3	40	48
HF264.160035	160	3.5	40	48
HF264.160040	160	4	40	48
HF264.160050	160	5	40	48
HF264.160060	160	6	40	48
HF264.160080	160	8	40	36
HF264.160100	160	10	40	36
HF264.160120	160	12	40	36
HF264.200020	200	2	40	52
HF264.200025	200	2.5	40	52
HF264.200030	200	3	40	52
HF264.200040	200	4	40	52
HF264.200050	200	5	40	52
HF264.200060	200	6	40	52
HF264.200080	200	8	40	40
HF264.200100	200	10	40	40
HF264.200120	200	12	40	40
HF264.200140	200	14	40	40

Disco Corte HSS-CO5

• Características: HSS – DIN 1837 – Tipo H - Corte Recto Fino (HF280) -- HSS – DIN 1838 Tipo W - Corte Recto Grueso (HF282)

Diámetro Espesor	Ø Agujero	HF280	HF282	Diámetro Espesor	Ø Agujero	HF280	HF282	Diámetro Espesor	Ø Agujero	HF280.	HF282.
20x0,20	5	200020	–	40x1	10	400100	–	80x5	22	800500	800500
20x0,25	5	200025	–	40x1,2	10	400120	–	80x6	22	800600	800600
20x0,30	5	200030	–	40x1,5	10	400150	–	100x0,4	22	1000040	1000040
20x0,40	5	200040	–	40x1,6	10	400160	–	100x0,5	22	1000050	1000050
20x0,50	5	200050	–	40x2	10	400200	–	100x0,6	22	1000060	1000060
20x0,60	5	200060	–	40x2,5	10	400250	–	100x0,7	22	1000070	1000070
20x0,70	5	200070	–	40x3	10	400300	–	100x0,8	22	1000080	1000080
20x0,80	5	200080	–	50x0,2	13	500020	500020	100x0,9	22	1000090	1000090
20x0,90	5	200090	–	50x0,25	13	500025	500025	100x1	22	1000100	1000100
20x1,00	5	200100	–	50x0,3	13	500030	500030	100x1,2	22	1000120	1000120
20x1,20	5	200120	–	50x0,4	13	500040	500040	100x1,5	22	1000150	1000150
20x1,50	5	200150	–	50x0,5	13	500050	500050	100x1,6	22	1000160	1000160
20x1,60	5	200160	–	50x0,6	13	500060	500060	100x2	22	1000200	1000200
20x2,00	5	200200	–	50x0,7	13	500070	500070	100x2,5	22	1000250	1000250
20x2,50	5	200250	–	50x0,8	13	500080	500080	100x3	22	1000300	1000300
20x3,00	5	200300	–	50x0,9	13	500090	500090	100x3,5	22	1000350	1000350
25x0,15	8	250015	–	50x1	13	500100	500100	100x4	22	1000400	1000400
25x0,20	8	250020	–	50x1,2	13	500120	500120	100x5	22	1000500	1000500
25x0,25	8	250025	–	50X1.5	13	500150	500150	100x6	22	1000600	1000600
25x0,30	8	250030	–	50x1,6	13	500160	500160	125x0,5	22	1250050	1250050
25x0,40	8	250040	–	50x2	13	500200	500200	125x0,6	22	1250060	1250060
25x0,50	8	250050	–	50x2,5	13	500250	500250	125x0,7	22	1250070	1250070
25x0,60	8	250060	–	50x3	13	500300	500300	125x0,8	22	1250080	1250080
25x0,70	8	250070	–	50x4	13	500400	500400	125x0,9	22	1250090	1250090
25x0,80	8	250080	–	50x5	13	500500	500500	125x1	22	1250100	1250100
25x0,90	8	250090	–	63x0,25	16	630025	630025	125x1,2	22	1250120	1250120
25x1,00	8	250100	–	63x0,3	16	630030	630030	125x1,5	22	1250150	1250150
25x1,20	8	250120	–	63x0,4	16	630040	630040	125x1,6	22	1250160	1250160
25x1,50	8	250150	–	63x0,5	16	630050	630050	125x2	22	1250200	1250200
25x1,60	8	250160	–	63x0,6	16	630060	630060	125x2,5	22	1250250	1250250
25x2,00	8	250200	–	63x0,7	16	630070	630070	125x3	22	1250300	1250300
25x2,50	8	250250	–	63x0,8	16	630080	630080	125x3,2	22	1250320	1250320
25x3	8	250300	–	63x0,9	16	630090	630090	125x3,5	22	1250350	1250350
32x0,15	8	320015	–	63x1	16	630100	630100	125x4	22	1250400	1250400
32x0,2	8	320020	–	63x1,2	16	630120	630120	125x5	22	1250500	1250500
32x0,25	8	320025	–	63x1,5	16	630150	630150	125x6	22	1250600	1250600
32x0,3	8	320030	–	63x1,6	16	630160	630160	160x1	32	1600100	1600100
32x0,4	8	320040	–	63x2	16	630200	630200	160X1,2	32	1600120	1600120
32x0,5	8	320050	–	63x2,5	16	630250	630250	160x1,5	32	1600150	1600150
32x0,6	8	320060	–	63x3	16	630300	630300	160x1,6	32	1600160	1600160
32x0,7	8	320070	–	63x3,5	16	630350	630350	160x2	32	1600200	1600200
32x0,8	8	320080	–	63x4	16	630400	630400	160x2,5	32	1600250	1600250
32x0,9	8	320090	–	63x5	16	630500	630500	160x3	32	1600300	1600300
32x1	8	320100	–	63x6	16	630600	630600	160x3,5	32	1600350	1600350
32x1,2	8	320120	–	80x0,3	22	800030	800030	160x4	32	1600400	1600400
32x1,5	8	320150	–	80x0,4	22	800040	800040	160x4,5	32	1600450	1600450
32x1,6	8	320160	–	80x0,5	22	800050	800050	160x5	32	1600500	1600500
32x2	8	320200	–	80x0,6	22	800060	800060	160x6	32	1600600	1600600
32x2,5	8	320250	–	80x0,7	22	800070	800070				
32x3	8	320300	–	80x0,8	22	800080	800080				
32x4	8	320400	–	80x0,9	22	800090	800090				
40x0,2	10	400020	–	80x1	22	800100	800100				
40x0,25	10	400025	–	80x1,2	22	800120	800120				
40x0,3	10	400030	–	80x1,5	22	800150	800150				
40x0,4	10	400040	–	80x1,6	22	800160	800160				
40x0,5	10	400050	–	80x2	22	800200	800200				
40x0,6	10	400060	–	80x2,5	22	800250	800250				
40x0,7	10	400070	–	80x3	22	800300	800300				
40x0,8	10	400080	–	80x3,5	22	800350	800350				
40x0,9	10	400090	–	80x4	22	800400	800400				



Disco Corte HSS-CO5 - Continuación -

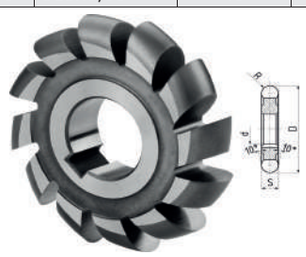
• Características: HSS – DIN 1837 – Tipo H - Corte Recto Fino (HF280) -- HSS – DIN 1838 Tipo W - Corte Recto Grueso (HF282)

Diámetro Espesor	Ø Agujero	HF280	HF282	Diámetro Espesor	Ø Agujero	HF280	HF282	Diámetro Espesor	Ø Agujero	HF280	HF282
200x1	32	2000100	2000100	225x1,5	32	2250150	2250150	250x6,00	32	2500600	2500600
200x1,2	32	2000120	2000120	225x1,6	32	2250160	2250160	275x1,75	32	2750175	2750175
200x1,5	32	2000150	2000150	225x1,8	32	2250180	2250180	275x2,00	32	2750200	2750200
200x1,6	32	2000160	2000160	225x2,00	32	2250200	2250200	275x2,50	32	2750250	2750250
200x1,8	32	2000180	2000180	225x2,50	32	2250250	2250250	275x3,00	32	2750300	2750300
200x2	32	2000200	2000200	225x3,00	32	2250300	2250300	275x3,50	32	2750350	2750350
200x2,5	32	2000250	2000250	225x3,50	32	2250350	2250350	285x2,00	32	2850200	2850200
200x3	32	2000300	2000300	225x4,00	32	2250400	2250400	300x2,00	32	3000200	3000200
200x3,5	32	2000350	2000350	250x1,50	32	2500150	2500150	300x2,50	32	3000250	3000250
200x4	32	2000400	2000400	250x1,60	32	2500160	2500160	300x3,00	32	3000300	3000300
200x4,5	32	2000450	2000450	250x2,00	32	2500200	2500200	300x3,50	40	3000350	3000350
200x5	32	2000500	2000500	250x2,50	32	2500250	2500250	315x2,00	40	3150200	3150200
200x5,5	32	2000550	2000550	250x3,00	32	2500300	2500300	315x2,50	40	3150250	3150250
200x6	32	2000600	2000600	250x3,50	32	2500350	2500350	315x3,00	40	3150300	3150300
				250x4,00	32	2500400	2500400	315x4,00	40	3150400	3150400
				250x4,50	32	2500450	2500450	315x4,50	40	3150450	3150450
				250x5,00	32	2500500	2500500	315x5,00	40	3150500	3150500
				250x5,50	32	2500550	2500550	315x6,00	40	3150600	3150600

Fresa Disco HSS Convexo

• Características: DIN 856 – DIN 138 – Tipo N - Corte 0/10º - HSS-CO

Referencia	Diametro	Radio	Agujero	Espesor	Z
HF266.0500100	50	1	16	2	14
HF266.0500125	50	1.25	16	2.5	14
HF266.0500150	50	1.5	16	3	14
HF266.0500160	50	1.6	16	3.2	14
HF266.0500200	50	2	16	4	14
HF266.0630250	63	2.5	22	5	12
HF266.0630300	63	3	22	6	12
HF266.0630315	63	3.15	22	6.3	12
HF266.0630350	63	3.5	22	7	12
HF266.0630400	63	4	22	8	12
HF266.0630450	63	4.5	22	9	12
HF266.0630500	63	5	22	10	12
HF266.0800550	80	5.5	27	11	12
HF266.0800600	80	6	27	12	12
HF266.0800630	80	6.3	27	12.6	12
HF266.0800650	80	6.5	27	13	12
HF266.0800700	80	7	27	14	12
HF266.0800750	80	7.5	27	15	12
HF266.0800800	80	8	27	16	12



Referencia	Diametro	Radio	Agujero	Espesor	Z
HF266.1000850	100	8.5	32	17	12
HF266.1000900	100	9	32	18	12
HF266.1000950	100	9.5	32	19	12
HF266.1001000	100	10	32	20	12
HF266.1001100	100	11	32	22	12
HF266.1001200	100	12	32	24	12
HF266.1001250	100	12.5	32	25	12
HF266.1251400	125	14	40	28	12
HF266.1251500	125	15	32	30	12
HF266.1251600	125	16	32	32	12
HF266.1251750	125	17.5	40	35	12
HF266.1251800	125	18	40	36	12
HF266.1252000	125	20	32	40	12
HF266.1602500	160	25	40	50	12

Fresa Disco Angular

• Características: DIN 1824A – DIN 138 - Tipo N – Corte 0/0º - HSS

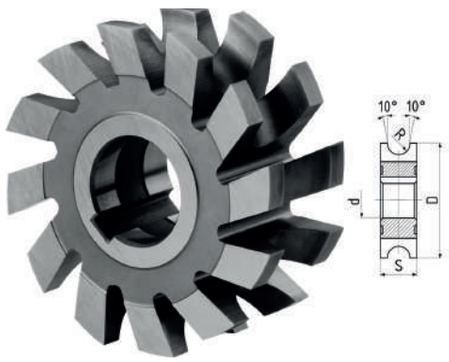
Referencia	Angulo	Diametro	Espesor	Agujero	Radio	Dientes
HF268.20063	20	63	6	16	1	14
HF268.20100	20	100	10	27	1.5	18
HF268.25063	25	63	6	22	1	14
HF268.25080	25	80	10	22	1	16
HF268.25100	25	100	14	27	1.5	18
HF268.25125	25	125	18	27	2	20
HF268.25160	25	160	22	32	2.5	22
HF268.30063	30	63	8	22	1	14
HF268.30100	30	100	14	27	1.5	18



Fresa Disco Concava

• Características: DIN 885A – DIN 138 – Tipo N – Corte 0/10º - HSS-CO5

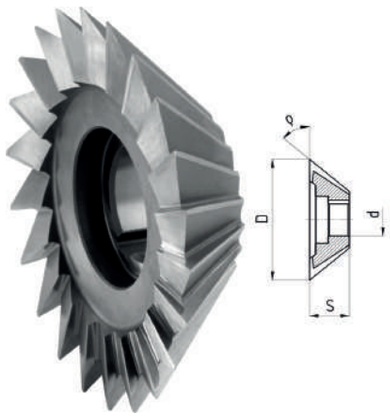
Referencia	Diametro	Radio	Agujero	Espesor	Dientes
HF270.0500100	50	1	16	6	14
HF270.0500125	50	1.25	16	6	14
HF270.0500150	50	1.5	16	8	14
HF270.0500200	50	2	16	9	14
HF270.0630250	63	2.5	22	10	14
HF270.0630300	63	3	22	12	12
HF270.0630400	63	4	22	16	12
HF270.0630500	63	5	22	20	10
HF270.0800600	80	6	27	24	10
HF270.0800800	80	8	27	32	10
HF270.1000900	100	9	32	32	10
HF270.1000100	100	10	32	36	10
HF270.1000120	100	12	32	40	10
HF270.1250200	125	20	32	60	10



Fresa Ángulo Cónica

• Características: DIN 842 – DIN 138 – Tipo N – Corte 0/2º - HSS-CO5

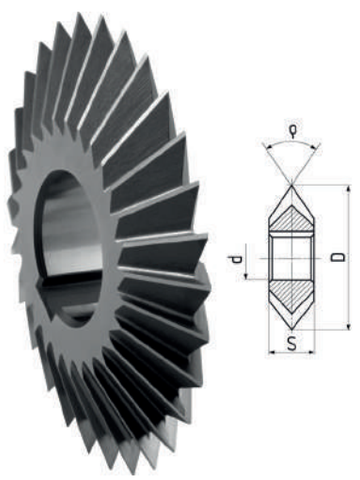
Referencia	Angulo	Diametro	Espesor	Agujero	Dientes
HF272.045040	45	40	10	14	14
HF272.045050	45	50	13	13	16
HF272.045063	45	63	18	16	16
HF272.045080	45	80	22	22	18
HF272.045100	45	100	28	27	20
HF272.050040	50	40	13	10	14
HF272.050050	50	50	16	13	16
HF272.050063	50	63	20	16	16
HF272.050080	50	80	25	20	18
HF272.050100	50	100	32	27	20
HF272.060040	60	40	13	10	14
HF272.060050	60	50	16	13	16
HF272.060063	60	63	20	16	16
HF272.060080	60	80	25	22	18
HF272.060100	60	100	32	27	20



Fresa Angular 45/60/80-90º

• Características: DIN 842 – DIN 138 – Tipo N – Corte 0/2º - HSS-CO5

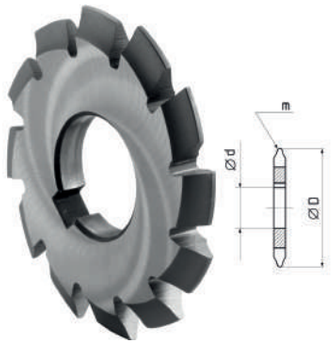
Referencia	Angulo	Diametro	Espesor	Agujero	Dientes
HF274.045050	45	50	8	16	16
HF274.045063	45	63	10	22	16
HF274.045080	45	80	12	27	20
HF274.045100	45	100	18	32	20
HF274.060050	60	50	10	16	16
HF274.060063	60	63	14	22	16
HF274.060080	60	80	18	22	18
HF274.060100	60	100	25	32	20
HF274.080063	80	63	16	22	16
HF274.090050	90	50	14	16	16
HF274.090063	90	63	20	22	16
HF274.090080	90	80	22	27	18
HF274.090100	90	100	32	32	20



Fresa Disco Modular

• Características: DIN 3972 – DIN 138 – Tipo N – Corte 0/0º - HSS-CO5

Referencia	Mm	Diametro	Agujero
HF276.050	0.5	40	16
HF276.075	0.75	40	16
HF276.100	1	50	16
HF276.125	1.25	50	16
HF276.150	1.50	63	22
HF276.175	1.75	63	22
HF276.200	2	63	22
HF276.225	2.25	63	22
HF276.250	2.5	63	22
HF276.275	2.75	70	27
HF276.300	3	70	27
HF276.325	3.25	70	27
HF276.350	3.5	80	27
HF276.375	3.75	80	27



Referencia	Mm	Diametro	Agujero
HF276.400	4	80	27
HF276.425	4.25	80	27
HF276.450	4.5	90	27
HF276.475	4.75	90	27
HF276.500	5	90	32
HF276.550	5.5	90	32
HF276.600	6	100	32

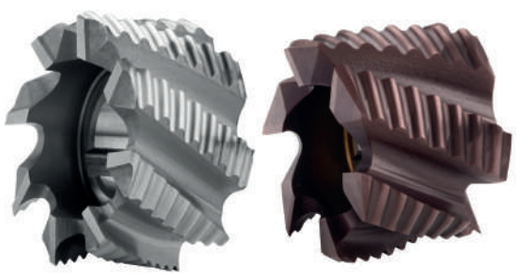
1	2	3	4	5	6	7	8
12-13	14-16	17-20	21-25	26-34	35-54	55-134	135-00

Fresa Frontal Desbaste

• Características: Fresa HSS-CO5 - DIN 1880 - DIN 138 – Tipo NR – Corte 30/12º - HSS-CO5

Referencia	Referencia Tialn	Diametro	Agujero	Altura	Dientes
HF250.040	HF251.040	40	16	32	6
HF250.050	HF251.050	50	22	36	6
HF250.063	HF251.063	63	27	40	8
HF250.080	HF251.080	80	27	45	8
HF250.100	HF251.100	100	32	50	10
HF250.125*	-	125	40	56	12
HF250.160*	-	160	50	63	14

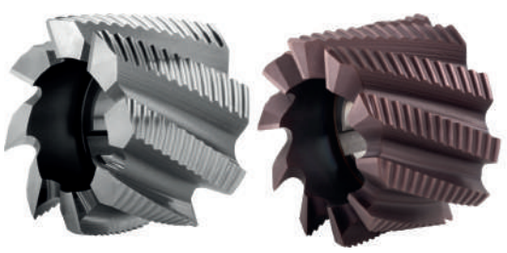
(*) Modelo con HSS-CO8%



Fresa Frontal Desbaste Fino

• Características: DIN 1880 – DIN 138 – Tipo HR – Corte 30/10º - HSS-CO5

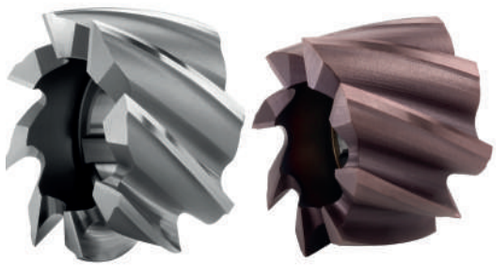
Referencia	Referencia Tialn	Diametro	Agujero	Altura	Dientes
HF252.040	HF253.040	40	16	32	8
HF252.050	HF253.050	50	22	36	8
HF252.063	HF253.063	63	27	40	10
HF252.080	HF253.080	80	27	45	10
HF252.100	HF253.100	100	32	50	12



Fresa Frontal Gruesa Tipo N

• Características: Fresa HSS-CO5 - DIN 1880 – DIN 138 – Tipo N – Corte 30/12º - HSS-CO5

Referencia	Referencia Tialn	Diametro	Agujero	Altura	Dientes
HF254.040	HF255.040	40	16	32	6
HF254.050	HF255.050	50	22	36	8
HF254.063	HF255.063	63	27	40	8
HF254.080	HF255.080	80	27	45	10
HF254.100	HF255.100	100	32	50	10
HF254.125(*)	HF255.125	125	40	56	14
HF254.160(*)	-	160	50	63	16



Fresa Frontal Fina Tipo N

• Características: DIN 138 - Tipo N – Corte 30/12º - HSS-CO5

Referencia	Diametro	Agujero	Altura	Dientes
HF256.05040	50	22	40	8
HF256.05063	50	22	63	8
HF256.05080	50	22	80	8
HF256.06350	63	27	50	8
HF256.06370	63	27	70	8
HF256.08063	80	32	63	8
HF256.080100	80	32	100	8
HF256.10070	100	40	70	10



Fresa Frontal Din 841

• Características: DIN 841 - Tipo N – Corte 30/12º - HSS-CO5

Referencia	Diametro	Agujero	Altura	Dientes
HF278.030	30	13	30	6
HF278.040	40	16	20	8
HF278.050	50	22	25	8
HF278.0505	50	22	50	8
HF278.060	60	27	30	8
HF278.0606	60	27	60	8
HF278.075	75	27	35	10
HF278.0757	75	27	75	10
HF278.080	80	27	35	10
HF278.110	110	32	35	12



Broca de Centrado Tipo H



- Características: HSS-CO5 - RH
- Recubrimiento: Altin

Referencia 90º	Diametro	Longitud Total	Longitud Corte
HB110.030	3	46	12
HB110.040	4	55	12
HB110.050	5	62	14
HB110.060	6	66	16
HB110.080	8	79	21
HB110.100	10	89	25
HB110.120	12	102	30
HB110.140	14	107	34
HB110.160	16	115	38
HB110.200	20	131	45
HB110.250	25	151	53

Referencia 128º	Diametro	Longitud Total	Longitud Corte
HB112.030	3	46	12
HB112.040	4	55	12
HB112.050	5	62	14
HB112.060	6	66	16
HB112.080	8	79	21
HB112.100	10	89	25
HB112.120	12	102	30
HB112.140	14	107	34
HB112.160	16	115	38
HB112.200	20	131	45
HB112.250	25	151	53

Broca de Puntear 60º - Forma A

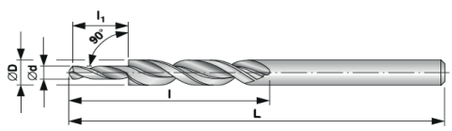


- Características: HSS-CO5 – 60º - DIN 333A

Referencia HSS	Referencia HSS-CO5	Ø Amarre	Ø Punta	Longitud Total	Longitud Corte
HB114.010	HB116.010	3.15	1	31	1.3-1.7
HB114.0125	HB116.0125	3.15	1.25	31	1.6-2
HB114.016	HB116.016	4	1.6	35	2-2.6
HB114.020	HB116.020	5	2	40	2.5-3.1
HB114.025	HB116.025	6.3	2.5	45	3.1-3.8
HB114.0315	HB116.0315	8	3.15	50	3.9-4.6
HB114.040	HB116.040	10	4	55	5-5.9
HB114.050	HB116.050	12.5	5	63	6.3-7.2
HB114.063		16	6.3	71	8-8.9
HB114.080		20	8	80	10.1-11.1
HB114.100		25	10	100	12.8-13.8
Serie Larga Broca Puntear 60º - A					
HB115.010		4	1	100	1.3-1.7
HB115.015		5	1.5	100	2-2.6
HB115.020		6	2	100	2.5-3.1
HB115.025		8	2.5	100	3.1-3.8
HB115.0308		8	3	100	3.9-4.6
HB115.03010		10	3	100	3.9-4.6
HB115.04010		10	4	100	5-5.9
HB115.04012		12	4	100	5-5.9
HB115.050		12	5	100	6.3-7.2

Broca Bidiametral 180º - Mango Cilindrico

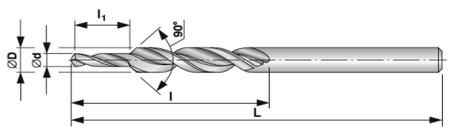
- Características: DIN 8376 – HSS



Referencia	Ø D	Ø d	L	I	I1	Metrica
HB170.M3	6	3.4	93	57	9	M-3
HB170.M4	8	4.5	117	75	11	M-4
HB170.M5	10	5.5	133	87	13	M-5
HB170.M6	11	6.6	142	94	15	M-6
HB170.M8	15	9	169	114	19	M-8
HB170.M10	18	11	191	130	23	M-10

Broca Bidiametral 90º - Mango Cilindrico

- Características: DIN 8374 – HSS



Referencia	Ø D	Ø d	L	I	I1	Metrica
HB172.M3	6.6	3.4	101	63	9	M-3
HB172.M4	9	4.5	125	81	11	M-4
HB172.M5	11	5.5	142	94	13	M-5
HB172.M6	13	6.6	151	101	15	M-6
HB172.M8	17.2	9	191	130	19	M-8

Escariador - HSS - Mano



- Hélice a 8º
- Tolerancia H7
- Según DIN206B

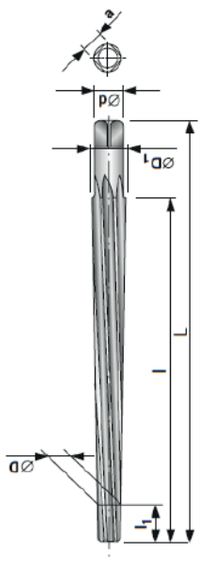
Referencia	øD	Amarre	Longitud Corte	Longitud Total
HE300.0300	3	3	31	62
HE300.0350	3,5	3,5	35	71
HE300.0400	4	4	38	76
HE300.0450	4,5	4,5	41	81
HE300.0500	5	5	44	87
HE300.0550	5,5	5,5	47	93
HE300.0600	6	6	47	93
HE300.0650	6,5	6,5	50	100
HE300.0700	7	7	54	107
HE300.0750	7,5	7,5	54	107
HE300.0800	8	8	58	115
HE300.0850	8,5	8,5	58	115
HE300.0900	9	9	62	124
HE300.0950	9,5	9,5	62	124
HE300.1000	10	10	66	133
HE300.1050	10,5	10,5	66	133
HE300.1100	11	11	71	142
HE300.1150	11,5	11,5	71	142
HE300.1200	12	12	76	152
HE300.1250	12.5	12.5	76	152

Referencia	øD	Amarre	Longitud Corte	Longitud Total
HE300.1300	13	13	76	152
HE300.1350	13.5	13.5	81	163
HE300.1400	14	14	81	163
HE300.1450	14.5	14.5	81	163
HE300.1500	15	15	81	163
HE300.1550	15.5	15.5	87	175
HE300.1600	16	16	87	175
HE300.1650	16.5	16.5	87	175
HE300.1700	17	17	87	175
HE300.1750	17.5	17.5	93	188
HE300.1800	18	18	93	188
HE300.1850	18.5	18.5	93	188
HE300.1900	19	19	93	188
HE300.1950	19.5	19.5	100	201
HE300.2000	20	20	100	201
HE300.2100	21	21	100	201
HE300.2200	22	22	107	215
HE300.2300	23	23	107	215
HE300.2400	24	24	115	231
HE300.2500	25	25	115	231
HE300.2600	26	26	115	231

Escariador - HSS - Cónico 1:10



- Características: HSS - Forma A
- Dientes hélice - Corte derecha

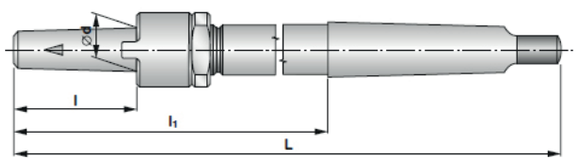


Referencia	ø - D	L	l1	l	ød	a	øD1	Z
HE310.030	3	80	5	58	4	3.15	4.06	4
HE310.040	4	93	5	68	5	4	5.26	4
HE310.050	5	100	5	73	6.3	5	6.36	5
HE310.060	6	135	5	105	8	6.3	8	6
HE310.080	8	180	5	145	10	8	10.80	6
HE310.100	10	215	5	175	12.5	10	13.40	6
HE310.120	12	255	10	210	14	11.2	16	8
HE310.140	14	255	10	210	14	11.2	18	8
HE310.160	16	280	10	230	18	14	20.40	8
HE310.200	20	310	10	250	22.4	18	24.80	8
HE310.250	25	370	15	300	28	22.4	30.70	10
HE310.300	30	400	15	320	31.5	25	36.10	10
HE310.320	32	400	15	320	31.5	25	38.10	10
HE310.400	40	430	15	340	40	31.5	46.50	12
HE310.500	50	460	15	360	50	40	56.90	12

Mango para Escariadores Huecos de Máquina

- Características: DIN217
- Para escariadores Serie HE330 / HE332

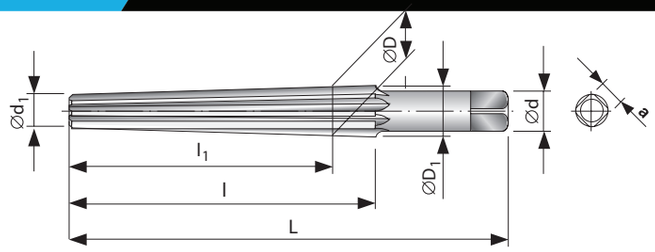
Referencia	ød - h6	l - h16	l1	L - js16	CM
HE335.130	13	45	151	250	3
HE335.160	16	50	162	261	3
HE335.190	19	56	174	296	4
HE335.220	22	63	188	312	4
HE335.270	27	71	203	359	5
HE335.320	32	80	220	376	5
HE335.400	40	90	240	396	5
HE335.500	50	100	260	416	5



Escariador - HSS - Cónico 1:10

• Características: HSS - Forma A - Dientes rectos - Corte derecha



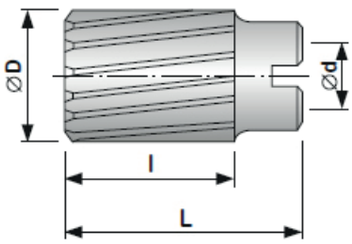


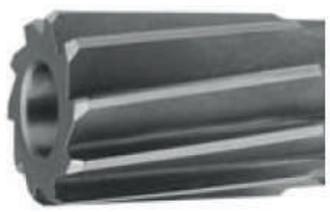
Referencia	ø - D	L	l1	l	ød	a	øD1	ød1	Z
HE314.100	10	100	60	70	10	8	11	4	4
HE314.160	16	120	70	80	12.5	10	17	9	6
HE314.240	24	160	100	110	20	16	25	14	6
HE314.320	32	200	120	140	25	20	34	20	8

Escariador - HSS-Co - Huecos de Máquina

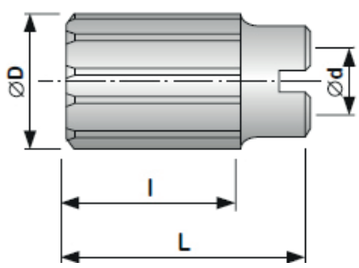
• Características: HSS-CO - DIN 219B / DIN 219C - H7

Referencia Diente Hélice	Referencia Diente Recto	øD	L	l	ød	Z
HE330.250	HE332.250	25	45	32	13	10
HE330.260	HE332.260	26	45	32	13	10
HE330.270	HE332.270	27	45	32	13	10
HE330.280	HE332.280	28	45	32	13	10
HE330.290	HE332.290	29	45	32	13	10
HE330.300	HE332.300	30	45	32	13	10
HE330.310	HE332.310	31	50	36	16	10
HE330.320	HE332.320	32	50	36	16	10
HE330.340	HE332.340	34	50	36	16	10
HE330.350	HE332.350	35	50	36	16	10
HE330.360	HE332.360	36	56	40	19	12
HE330.380	HE332.380	38	56	40	19	12
HE330.400	HE332.400	40	56	40	19	12
HE330.420	HE332.420	42	56	40	19	12
HE330.440	HE332.440	44	63	45	22	12
HE330.450	HE332.450	45	63	45	22	12
HE330.460	HE332.460	46	63	45	22	12
HE330.480	HE332.480	48	63	45	22	12
HE330.500	HE332.500	50	63	45	22	12
HE330.520	HE332.520	52	71	50	27	12
HE330.550	HE332.550	55	71	50	27	12
HE330.580	HE332.580	58	71	50	27	12
HE330.600	HE332.600	60	71	50	27	14
HE330.620	HE332.620	62	80	56	32	14
HE330.630	HE332.630	63	80	56	32	14
HE330.650	HE332.650	65	80	56	32	14
HE330.680	HE332.680	68	80	56	32	14
HE330.700	HE332.700	70	80	56	32	14
HE330.720	HE332.720	72	90	63	40	14
HE330.750	HE332.750	75	90	63	40	14
HE330.780	HE332.780	78	90	63	40	14
HE330.800	HE332.800	80	90	63	40	14
HE330.820	HE332.820	82	90	63	40	14
HE330.850	HE332.850	85	90	63	40	14
HE330.880	HE332.880	88	100	71	50	16
HE330.900	HE332.900	90	100	71	50	16
HE330.920	HE332.920	92	100	71	50	16
HE330.950	HE332.950	95	100	71	50	16
HE330.980	HE332.980	98	100	71	50	16
HE330.1000	HE332.1000	100	100	71	50	16





Serie HE330 - Hélice





Serie HE332 - Recto

Avellanador Cabeza Tornillo Allen - DIN 373 90º - Ajuste Fino





Referencia	Para M	d1	d3	l1	d2	Z	Referencia Recubierta
K201791020	M-2	4.3	2.2	56	4.3	3	K201891020
K201791025	M-2.5	5	2.7	56	5	3	K201891025
K201791030	M-3	6	3.2	71	5	3	K201891030
K201791040	M-4	8	4.3	71	5	3	K201891040
K201791050	M-5	10	5.3	80	8	3	K201891050
K201791060	M-6	11	6.4	80	8	3	K201891060
K201791080	M-8	15	8.4	100	12.5	3	K201891080
K201791100	M-10	18	10.5	100	12.5	3	K201891100
K201791120	M-12	20	13	100	12.5	3	K201891120

Avellanador Cabeza Tornillo Allen - DIN 373 90º - Ajuste Medio





Referencia	Para M	d1	d3	l1	d2	Z	Referencia Recubierta
K201792030	M-3	6	3.4	71	5	3	K201892030
K201792040	M-4	8	4.5	71	5	3	K201892040
K201792050	M-5	10	5.5	80	8	3	K201892050
K201792060	M-6	11	6.6	80	8	3	K201892060
K201792080	M-8	15	9	100	12.5	3	K201892080
K201792100	M-10	18	11	100	12.5	3	K201892100
K201792120	M-12	20	13.5	100	12.5	3	K201892120

Avellanador Cabeza Tornillo Allen - DIN 373 90º - Agujero Roscado





Referencia	Para M	d1	d3	l1	d2	Z	Referencia Recubierta
K201793030	M-3	6	2.5	71	5	3	K201893030
K201793040	M-4	8	3.3	71	5	3	K201893040
K201793050	M-5	10	4.2	80	8	3	K201893050
K201793060	M-6	11	5.0	80	8	3	K201893060
K201793080	M-8	15	6.8	100	12.5	3	K201893080
K201793100	M-10	18	8.5	100	12.5	3	K201893100
K201793120	M-12	20	10.2	100	12.5	3	K201893120

Set de Avellanadores Cabeza Tornillo Allen





Sin Recubrimiento

Referencia	MEDIDAS M	AJUSTE
K401794	M3 – M4 – M5 - M6 – M8 – M10	FINO
K401797	M3 – M4 – M5 - M6 – M8 – M10	MEDIO
K401798	M3 – M4 – M5 - M6 – M8 – M10	ROSCADO

Con Recubrimiento

Referencia	MEDIDAS M	AJUSTE
K401791	M3 – M4 – M5 - M6 – M8 – M10	FINO
K401792	M3 – M4 – M5 - M6 – M8 – M10	MEDIO
K401793	M3 – M4 – M5 - M6 – M8 – M10	ROSCADO

Broca Bidiametral 90º - DIN 8374 - Ajuste Fino

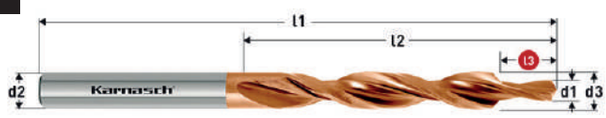




Referencia	Para M	d1	d2	d3	L3	L2	L1	Referencia Recubierta
K401010030	M-3	3.2	6.0	6.0	9.0	57	93	K402010030
K401010040	M-4	4.3	8.0	8.0	11.0	75	117	K402010040
K401010050	M-5	5.3	10.0	10.0	13.0	87	133	K402010050
K401010060	M-6	6.4	11.5	11.5	15.0	94	142	K402010060
K401010080	M-8	8.4	15.0	15.0	19.0	114	169	K402010080
K401010100	M-10	10.5	19.0	19.0	23.0	135	198	K402010100

Broca Bidiametral 90º - DIN 8376 - Ajuste Medio

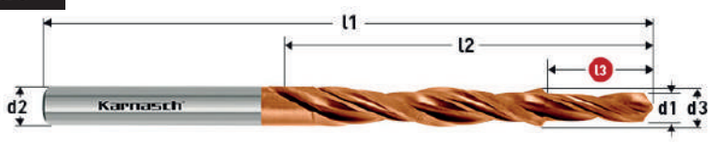




Referencia	Para M	d1	d2	d3	L3	L2	L1	Referencia Recubierta
K401020030	M-3	3.4	6.5	6.5	9.0	63	101	K402020030
K401020040	M-4	4.5	8.0	8.0	11.0	75	117	K402020040
K401020050	M-5	5.5	10.0	10.0	13.0	87	133	K402020050
K401020060	M-6	6.6	11.0	11.0	15.0	94	142	K402020060
K401020080	M-8	9.0	15.0	15.0	19.0	114	169	K402020080
K401020100	M-10	11.0	18.0	18.0	23.0	130	191	K402020100

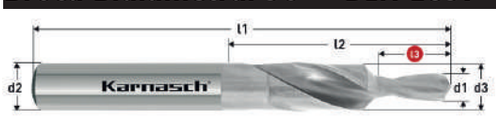
Broca Bidiametral 90º - DIN 8378 - Agujero Roscado

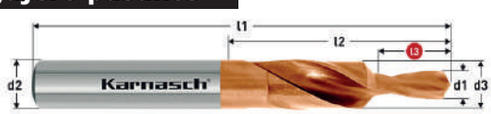




Referencia	Para M	d1	d2	d3	L3	L2	L1	Referencia Recubierta
K401030030	M-3	2.5	3.4	3.4	8.8	39	70	K402030030
K401030040	M-4	3.3	4.5	4.5	11.4	47	80	K402030040
K401030050	M-5	4.2	5.5	5.5	13.6	57	93	K402030050
K401030060	M-6	5.0	6.6	6.6	16.5	63	101	K402030060
K401030080	M-8	6.8	9.0	9.0	21.0	81	125	K402030080
K401030100	M-10	8.5	11.0	11.0	25.5	94	142	K402030100
K401030120	M-12	10.2	13.5	13.5	30.0	108	160	K402030120

Broca Bidiametral 90º - DIN 1897 - Agujero pasante





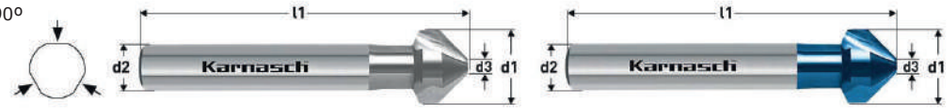
Referencia	Para M	d1	d2	d3	L3	L2	L1	Referencia Recubierta
K401040030	M-3	3.2	6.0	6.0	9	28	66	K402040030
K401040040	M-4	4.3	8.0	8.0	11	37	79	K402040040
K401040050	M-5	5.3	10.0	10.0	13	43	89	K402040050
K401040060	M-6	6.4	11.5	11.5	15	47	95	K402040060
K401040080	M-8	8.4	15.0	15.0	19	56	111	K402040080
K401040100	M-10	10.5	19.0	19.0	23	64	127	K402040100

Broca Bidiametral 180º - DIN 1897 - Agujero pasante

Referencia	Para M	d1	d2	d3	L3	L2	L1	Referencia Recubierta
K401050030	M-3	3.4	6.0	6.0	9	28	66	K402050030
K401050040	M-4	4.5	8.0	8.0	11	37	79	K402050040
K401050050	M-5	5.5	10.0	10.0	13	43	89	K402050050
K401050060	M-6	6.6	11.0	11.0	15	47	95	K402050060
K401050080	M-8	9.0	15.0	10.0	19	56	111	K402050080
K401050100	M-10	11.0	18.0	18.0	23	62	123	K402050100

Avellanador 90º - Z3

- Características: HSS-XE – DIN335 – Forma C – 90º
- (*) - Hasta fin existencias



Referencia	d1	d3	L1	d2	Z	AF	BF	Referencia BLUE
K201740.010	4.3	1.3	40	4	3	-	-	K201745.010
K201740.020(*)	5	1.5	40	4	3	M2.5	-	K201745.020(*)
K201740.030(*)	5.3	1.5	40	4	3	-	-	K201745.030
K201740.040	6	1.5	45	5	3	M3	-	K201745.040
K201740.050	6.3	1.5	45	5	3	-	M3	K201745.050
K201740.060(*)	7	1.8	50	6	3	M3.5	-	K201745.060(*)
K201740.070(*)	7.3	1.8	50	6	3	-	-	K201745.070(*)
K201740.080	8	2	50	6	3	M4	-	K201745.080
K201740.090	8.3	2	50	6	3	-	M4	K201745.090
K201740.100	9.4	2.2	50	6	3	-	-	K201745.100
K201740.110	10	2.5	50	6	3	M5	-	K201745.110
K201740.120	10.4	2.5	50	6	3	-	M5	K201745.120
K201740.130	11.5	2.8	56	8	3	M6	-	K201745.130
K201740.140	12.4	2.8	56	8	3	-	M6	K201745.140
K201740.150	13.4	2.9	56	8	3	-	-	K201745.150
K201740.160	15	3.2	60	10	3	M8	-	K201745.160
K201740.170	16.5	3.2	60	10	3	-	M8	K201745.170
K201740.180	19	3.5	63	10	3	M10	-	K201745.180
K201740.190	20.5	3.5	63	10	3	-	M10	K201745.190
K201740.200	23	3.8	67	10	3	M12	-	K201745.200
K201740.210	25	3.8	67	10	3	-	M12	K201745.210
K201740.220	26	3.9	71	12	3	M14	-	K201745.220
K201740.230	28	4	71	12	3	-	M14	K201745.230
K201740.240	30	4.1	71	12	3	M16	-	K201745.240
K201740.250	31	4.2	71	12	3	-	M16	K201745.250
K201740.260	40	10	80	15	3	-	-	K201745.260

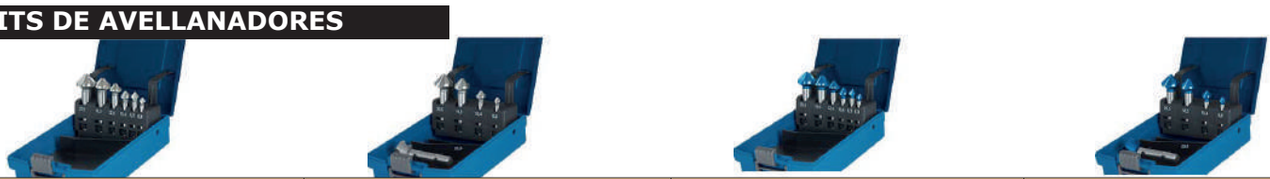
Avellanador 90º - Z3 - ASP y Metal Duro

- Características: HSS-XE – DIN335 – Forma C – 90º



Referencia ASP	d1	d3	L1	d2	Z	AF	BF	Referencia MD
K201750.050	6.3	1.5	45	5	3	-	M3	K201755.050
K201750.090	8.3	2	50	6	3	-	M4	K201755.090
K201750.120	10.4	2.5	50	6	3	-	M5	K201755.120
K201750.140	12.4	2.8	56	8	3	-	M6	K201755.140
K201750.170	16.5	3.2	60	10	3	-	M8	K201755.170
K201750.190	20.5	3.5	63	10	3	-	M10	K201755.190
K201750.210	25	3.8	67	10	3	-	M12	K201755.210
K201750.250	31	4.2	71	12	3	-	M16	K201755.250

KITS DE AVELLANADORES



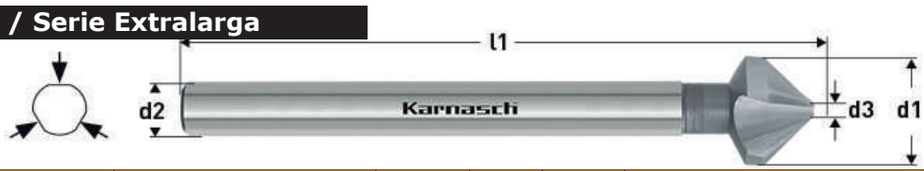
Ø Incluidos	Ø Incluidos	Ø Incluidos	Ø Incluidos
6.3-8.3-10.4-12.4-16.5-20.5	6.3-10.4-16.5-20.5-25	6.3-8.3-10.4-12.4-16.5-20.5	6.3-10.4-16.5-20.5-25
Referencia	**Referencia**	**Referencia**	**Referencia**
K201641 - HSS-XE	K201642 - HSS XE	K201643 - HSS XE BLUE	K201644 - HSS XE BLUE

Kits Avellanadores Serie Larga	
Ø Incluidos	**Ø Incluidos**
6.3-8.3-10.4-12.4-16.5-20.5	6.3-8.3-10.4-12.4-16.5-20.5
Referencia	**Referencia**
K404090010 HSS-XE	K403090010 - HSS XE BLUE

(*) Disponibles tambien Kits en Modelos ASP y Metal Duro

Avellanador 90º - Z3 - Serie Larga / Serie Extralarga

• Características: HSS-XE – DIN 335 – Forma C – 90º



Referencia Larga	d1	d3	L1 (Modelo Largo)	L1 (Modelo Extra Largo)	d2	Z	BF	Referencia Extra Larga
K201720.010	6.3	1.5	85	154	5	3	M3	K201770.010
K201720.020	8.3	2	85	155	6	3	M4	K201770.020
K201720.030	10.4	2.5	88	157	6	3	M5	K201770.030
K201720.040	12.4	2.8	108	158	8	3	M6	K201770.040
K201720.050	15	3.2	110	158	10	3	M8	K201770.050
K201720.060	16.5	3.2	112	161	10	3	M8	K201770.060
K201720.070	20.5	3.5	115	164	10	3	M10	K201770.070
K201720.080	25	3.8	118	164	10	3	M12	K201770.080
K201720.080	25	3.8	118	164	10	3	M12	K201770.080

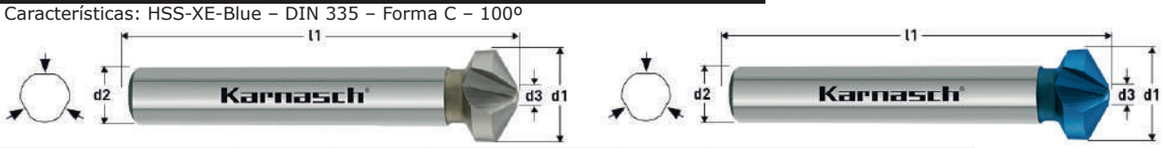
• Características: HSS-XE-Blue – DIN 335 – Forma C – 90º



Referencia Larga (Blue)	d1	d3	L1 (Modelo Largo)	L1 (Modelo Extra Largo)	d2	Z	BF	Referencia Extra Larga (Blue)
K201725.010	6.3	1.5	85	154	5	3	M3	K201775.010
K201725.020	8.3	2	85	155	6	3	M4	K201775.020
K201725.030	10.4	2.5	88	157	6	3	M5	K201775.030
K201725.040	12.4	2.8	108	158	8	3	M6	K201775.040
K201725.050	15	3.2	110	158	10	3	M8	K201775.050
K201725.060	16.5	3.2	112	161	10	3	M8	K201775.060
K201725.070	20.5	3.5	115	164	10	3	M10	K201725.070
K201725.080	25	3.8	118	164	10	3	M12	K201725.080
K201725.080	25	3.8	118	164	10	3	M12	K201775.080

Avellanador 100º

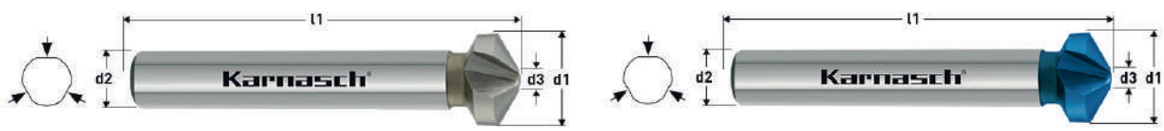
• Características: HSS-XE-Blue – DIN 335 – Forma C – 100º



Referencia	d1	d3	L1	Z	d2	Referencia BLUE
K201730.005	6.3	1.5	45	3	5	K201735.005
K201730.010	8.3	2	50	3	6	K201735.010
K201730.020	10.4	2.5	50	3	6	K201735.020
K201730.030	12.4	2.8	56	3	8	K201735.030
K201730.040	16.5	3.2	60	3	10	K201735.040
K201730.050	20.5	3.5	63	3	10	K201735.050
K201730.060	25	3.8	67	3	10	K201730.060

Avellanador 120

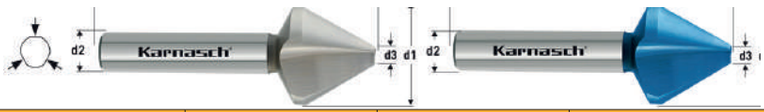
• Características: HSS-XE-Blue – DIN 335 – Forma C – 120º



Referencia	d1	d3	L1	Z	d2	Referencia BLUE
K404040.0063	6.3	1.5	45	3	5	K403040.0063
K404040.0083	8.3	2	50	3	6	K403040.0083
K404040.0104	10.4	2.5	50	3	6	K403040.0104
K404040.0124	12.4	3	56	3	8	K403040.0124
K404040.0165	16.5	3.5	60	3	10	K403040.0165
K404040.0205	20.5	4	60	3	10	K403040.0205
K404040.0250	25	5	63	3	10	K403040.0250

Avellanador 60º

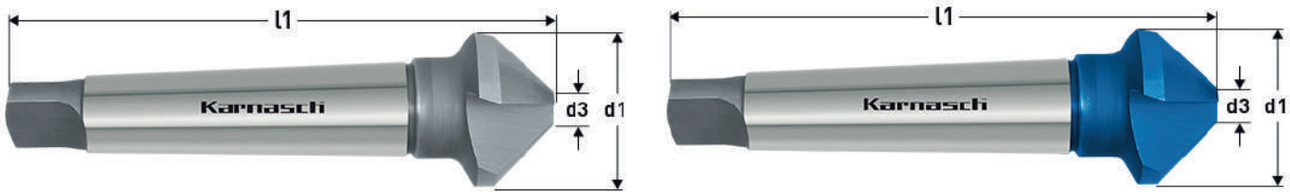
• Características: HSS-XE – DIN 335 – Forma C – 60º



Referencia	d1	d3	L1	Z	d2	Referencia BLUE
K404030.0063	6.3	1.6	45	3	5	K403030.0063
K404030.0080	8	2	50	3	6	K403030.0080
K404030.0100	10	2.5	53	3	6	K403030.0100
K404030.0125	12.5	3.2	56	3	8	K403030.0125
K404030.0160	16	4	63	3	10	K403030.0160
K404030.0200	20	5	67	3	10	K403030.0200
K404030.0250	25	6.3	71	3	10	K403030.0250
K404030.0315	31.5	10	76	3	12	K403030.0315

Avellanador 90º - Cono Morse

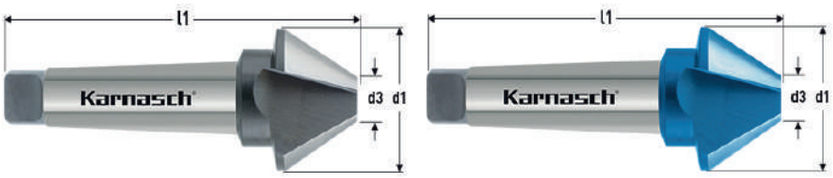
• Características: HSS-XE – DIN335 – Forma C – 90º



Referencia	d1	d3	L1	Z	CM	AF	BF	Referencia BLUE
K201790.010	20.5	3.5	100	3	2	-	M10	K201795.010
K201790.020	25	3.8	106	3	2	-	M12	K201795.020
K201790.030	31	4.2	112	3	2	-	M16	K201795.030
K201790.040	37	4.8	118	3	2	M20	M20	K201795.040
K201790.050	40	10	140	3	3	-	-	K201795.050
K201790.060	50	14	150	3	3	-	-	K201795.060
K201790.070	63	16	180	3	4	-	-	K201795.070
K201790.080	80	22	190	3	4	-	-	K201795.080

Avellanador 60º - Cono Morse

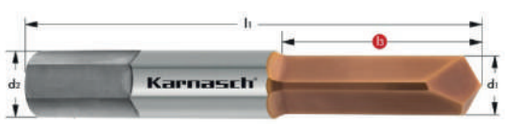
• Características: HSS-XE – DIN335 – Forma C – 60º



Referencia	d1	d3	L1	Z	d2	Referencia BLUE
K404035.0200	20	5	106	3	2	K403035.0200
K404035.0250	25	6.3	112	3	2	K403035.0250
K404035.0315	31.5	10	118	3	2	K403035.0315
K404035.0400	40	12.5	150	3	3	K403035.0400
K404035.0500	50	16	160	3	3	K403035.0500
K404035.0630	63	20	190	3	4	K403035.0630
K404035.0800	80	25	200	3	4	K403035.0800

Extractor de Machos - Set Extractor de Machos

• Hasta 65 HRC – Micrograno MD – 0º - Amarre Cilindrico y Hexagonal

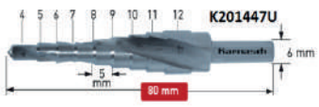


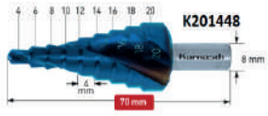


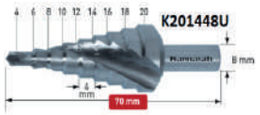
Referencia	Para M	Ød1 H7	L3	L1	Ød2 H6
K201860.010	M-3	2.5	10	38	3
K201860.020	M-4	3.3	14	46	4
K201860.030	M-5	4.2	19	50	5
K201860.040	M-6	5.0	23	50	6
K201860.050	M-8	6.8	23	60	8
K201860.060	M-10	8.5	25	80	10
K201860.070	M-12	10.2	35	80	12
K201865	M3 a M10	Set de Extractor de Machos			

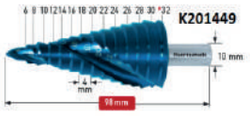
Brocas Escalonadas HSS









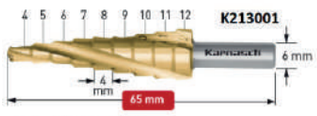


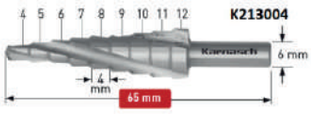


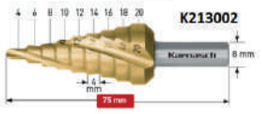
Referencia Recubierta	Rango	Ø Amarre	Altura corte	Longitud total	Referencia Sin Recubrir
K201447	4-12	6	5	80	K201447U
K201448	4-20	8	4	70	K201448U
K201449	6-32	10	4	98	K201449U

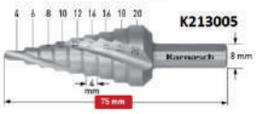
Set de Brocas Escalonadas Con Recubrimiento
Rango: 4-12 + 4-20 + 6-32
Referencia: K201466
Set de Brocas Escalonadas Sin Recubrimiento
Rango: 4-12 + 4-20 + 6-32
Referencia: K201492



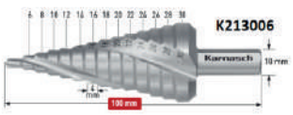










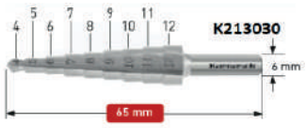


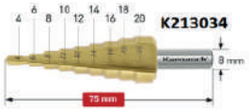
Referencia Recubierta	Rango	Ø Amarre	Altura corte	Longitud total	Referencia Sin Recubrir
K213001	4-12	6	4	65	K213004
K213002	4-20	8	4	75	K213005
K213003	6-30	10	4	100	K213006

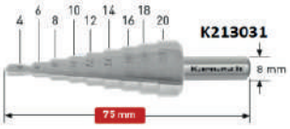
Set de Brocas Escalonadas Con Recubrimiento
Rango: 4-12 + 4-20 + 6-32
Referencia: K213007
Set de Brocas Escalonadas Sin Recubrimiento
Rango: 4-12 + 4-20 + 6-32
Referencia: K213008



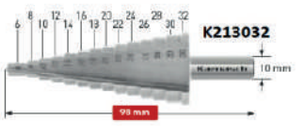












Referencia Recubierta	Rango	Ø Amarre	Altura corte	Longitud total	Referencia Sin Recubrir
K213030	4-12	6	4	65	K213030
K213034	4-20	8	4	75	K213031
K213035	6-32	10	4	98	K213032

Set de Brocas Escalonadas Con Recubrimiento
Rango: 4-12 + 4-20 + 6-32
Referencia: K213092
Set de Brocas Escalonadas Sin Recubrimiento
Rango: 4-12 + 4-20 + 6-32
Referencia: K213082



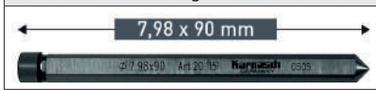
Modelo - Descripción	Referencia
	K213050
• Broca Escalonada HSS-XE Titan-Tec - 6 a 12 mm cada 10mm	
	K213051
• Broca Escalonada HSS-XE Titan-Tec - 6 a 20 mm cada 10mm	
	K213052
• Broca Escalonada HSS-XE Titan-Tec - 6 a 27 mm cada 10mm	

Set de Brocas Escalonadas HSS-XE TITAN-TEC
Rango: 6-12 + 6-20 + 6-27
Referencia: K213072



Accesorios para Coronas/Fresas Karnash

Imagen	Referencia
	**K201509**
• Amarre ø6.35 mm - Para Coronas (K201500) de 14-30mm	
	**K201507**
• Amare Hex 9.5mm - Para Coronas (K201500) de 14-30mm	
	**K201503**
• Amarre Hex 9.5mm - Para Coronas (K201500) 32-210mm	
	**K201521**
• Amare Hex 11mm - Para Coronas (K201500) 32-210mm	
	**K201528**
• Amarre Hex 11mm - Para coronas (K201500) 32-305 mm. • Recomendable para mayores de ø100mm	
	**K201263**
• Adaptador Nitto/Universal 19 a Weldon 19mm	
	**K201311**
• Adaptador Quick-FEIN 18mm a Nitto/Universal/Weldon 19mm	
	**K210048**
• Adaptador Weldon 32 a Nitto/Universal/Weldon 19mm	

Imagen	Referencia
	**K201261**
• ø6.34 x 77 mm longitud	
	**K201271**
• ø6.34 x 102 mm longitud	
	**K201439**
• ø7.98 x 130 mm longitud	
	**K201399**
• ø7.98 x 160 mm longitud	
	**K201149**
• ø6.34 x 90mm longitud - Para Serie Hard Line 40 de ø12 a 17mm	
	**K201151**
• ø7.98 x 90mm longitud - Para Serie Hard Line 40 de ø18 a 65mm	
	**K201271**
• ø6.94 x 102mm longitud Para Serie Hard Line 55 de ø12 a 17mm	
	**K201273**
• ø6.94 x 102mm longitud Para Serie Hard Line 55 de ø18 a 60mm	
	**K201512**
• Broca Guía ø6.35x105mm válido para el extractor K201509	
	**K201505**
• Broca Guía ø6.35x80mm	

Corona Bimetálica CO8% - 38 mm

Diámetro	Diámetro
K201500.014	Ø14
K201500.016	Ø16
K201500.017	Ø17
K201500.019	Ø19
K201500.020	Ø20
K201500.021	Ø21
K201500.022	Ø22
K201500.024	Ø24
K201500.025	Ø25
K201500.027	Ø27
K201500.028	Ø28
K201500.029	Ø29
K201500.030	Ø30
K201500.032	Ø32
K201500.033	Ø33
K201500.035	Ø35
K201500.037	Ø37
K201500.038	Ø38
K201500.040	Ø40
K201500.041	Ø41

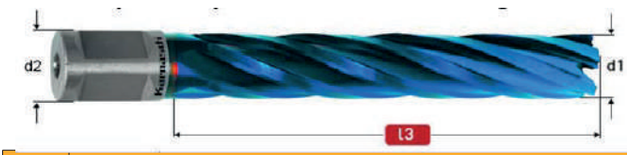
Referencia	Diámetro
K201500.043	Ø43
K201500.044	Ø44
K201500.045	Ø45
K201500.046	Ø46
K201500.048	Ø48
K201500.050	Ø50
K201500.051	Ø51
K201500.052	Ø52
K201500.054	Ø54
K201500.055	Ø55
K201500.057	Ø57
K201500.059	Ø59
K201500.060	Ø60
K201500.064	Ø64
K201500.065	Ø65
K201500.067	Ø67
K201500.068	Ø68
K201500.070	Ø70
K201500.073	Ø73
K201500.075	Ø75

Referencia	Diámetro
K201500.076	Ø76
K201500.079	Ø79
K201500.080	Ø80
K201500.083	Ø83
K201500.086	Ø86
K201500.089	Ø89
K201500.092	Ø92
K201500.095	Ø95
K201500.098	Ø98
K201500.100	Ø100
K201500.102	Ø102
K201500.105	Ø105
K201500.108	Ø108
K201500.111	Ø111
K201500.114	Ø114
K201500.121	Ø121
K201500.127	Ø127
K201500.133	Ø133
K201500.140	Ø140
K201500.146	Ø146

Referencia	Diámetro
K201500.152	Ø152
K201500.160	Ø160
K201500.168	Ø168
K201500.177	Ø177
K201500.200	Ø200
K201500.210	Ø210
K201500.220	Ø220
K201500.233	Ø233
K201500.250	Ø250
K201500.260	Ø260
K201500.265	Ø265
K201500.279	Ø279
K201500.305	Ø305



Coronas para Maquinas de Base Electromagética – Blue Line



- Fresa Hueca HSS-XE con Recubrimiento y Amarre Weldon 19mm.
- Modelo K2013 (Longitud 30 mm)
- Modelo K201313 (Longitud 55mm)
- Modelo K201285 (Longitud 80mm)
- Modelo K201280 (Longitud 110mm)

ø	Medida L3					ø	Medida L3			
	30 mm	55 mm	80 mm	110mm			30 mm	55 mm	80 mm	110mm
Ø12	K201312.012	K201313.012	-	-		Ø37	K201312.037	K201313.037	-	-
Ø13	K201312.013	K201313.013	-	-		Ø38	K201312.038	K201313.038	K201285.038	K201280.038
Ø14	K201312.014	K201313.014	-	-		Ø39	K201312.039	K201313.039	-	-
Ø15	K201312.015	K201313.015	-	-		Ø40	K201312.040	K201313.040	K201285.040	K201280.040
Ø16	K201312.016	K201313.016	-	-		Ø41	K201312.041	K201313.041	-	-
Ø17	K201312.017	K201313.017	-	-		Ø42	K201312.042	K201313.042	-	-
Ø18	K201312.018	K201313.018	K201285.018	K201280.018		Ø43	K201312.043	K201313.043	-	-
Ø19	K201312.019	K201313.019	K201285.019	K201280.019		Ø44	K201312.044	K201313.044	-	-
Ø20	K201312.020	K201313.020	K201285.020	K201280.020		Ø45	K201312.045	K201313.045	K201285.045	K201280.045
Ø21	K201312.021	K201313.021	K201285.021	K201280.021		Ø46	K201312.046	K201313.046	-	-
Ø22	K201312.022	K201313.022	K201285.022	K201280.022		Ø47	K201312.047	K201313.047	-	-
Ø23	K201312.023	K201313.023	K201285.023	K201280.023		Ø48	K201312.048	K201313.048	-	-
Ø24	K201312.024	K201313.024	K201285.024	K201280.024		Ø49	K201312.049	K201313.049	-	-
Ø25	K201312.025	K201313.025	K201285.025	K201280.025		Ø50	K201312.050	K201313.050	K201285.050	K201280.050
Ø26	K201312.026	K201313.026	K201285.026	K201280.026		Ø51	K201312.051	K201313.051	-	-
Ø27	K201312.027	K201313.027	K201285.027	K201280.027		Ø52	K201312.052	K201313.052	-	-
Ø28	K201312.028	K201313.028	K201285.028	K201280.028		Ø53	K201312.053	K201313.053	-	-
Ø29	K201312.029	K201313.029	K201285.029	K201280.029		Ø54	K201312.054	K201313.054	-	-
Ø30	K201312.030	K201313.030	K201285.030	K201280.030		Ø55	K201312.055	K201313.055	-	-
Ø31	K201312.031	K201313.031	-	-		Ø56	K201312.056	K201313.056	-	-
Ø32	K201312.032	K201313.032	K201285.032	K201280.032		Ø57	K201312.057	K201313.057	-	-
Ø33	K201312.033	K201313.033	K201285.033	K201280.033		Ø58	K201312.058	K201313.058	-	-
Ø34	K201312.034	K201313.034	-	-		Ø59	K201312.059	K201313.059	-	-
Ø35	K201312.035	K201313.035	K201285.035	K201280.035		Ø60	K201312.060	K201313.060	-	-
Ø36	K201312.036	K201313.036	K201285.036	K201280.036						

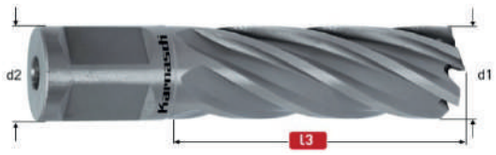
Coronas para Maquinas de Base Electromagética – Gold Line



- Fresa Hueca HSS y Amarre Weldon 19mm.
- Modelo K201260U (Longitud 30 mm)
- Modelo K201270U (Longitud 55mm)
- Disponibles también de longitud 80 y 110 mm algunas medidas

ø	Referencia L3 30 mm	Referencia L3 55 mm	ø	Referencia L3 30 mm	Referencia L3 55 mm	ø	Referencia L3 30 mm	Referencia L3 55 mm
Ø12	K201260U.012	K201270U.012	Ø27	K201260U.027	K201270U.027	Ø46	K201260U.046	K201270U.046
Ø13	K201260U.013	K201270U.013	Ø28	K201260U.028	K201270U.028	Ø45	K201260U.045	K201270U.045
Ø13.5	K201260U.0135	K201270U.0135	Ø29	K201260U.029	K201270U.029	Ø46	K201260U.046	K201270U.046
Ø14	K201260U.014	K201270U.014	Ø30	K201260U.030	K201270U.030	Ø45	K201260U.045	K201270U.045
Ø15	K201260U.015	K201270U.015	Ø31	K201260U.031	K201270U.031	Ø46	K201260U.046	K201270U.046
Ø15.5	K201260U.0155	K201270U.0155	Ø32	K201260U.032	K201270U.032	Ø47	K201260U.047	K201270U.047
Ø16	K201260U.016	K201270U.016	Ø33	K201260U.033	K201270U.033	Ø48	K201260U.048	K201270U.048
Ø17	K201260U.017	K201270U.017	Ø34	K201260U.034	K201270U.034	Ø49	K201260U.049	K201270U.049
Ø17.5	K201260U.0175	K201270U.0175	Ø35	K201260U.035	K201270U.035	Ø50	K201260U.050	K201270U.050
Ø18	K201260U.018	K201270U.018	Ø36	K201260U.036	K201270U.036	Ø51	K201260U.051	K201270U.051
Ø19	K201260U.019	K201270U.019	Ø37	K201260U.037	K201270U.037	Ø52	K201260U.052	K201270U.052
Ø19.5	K201260U.0195	K201270U.0195	Ø38	K201260U.038	K201270U.038	Ø53	K201260U.053	K201270U.053
Ø20	K201260U.020	K201270U.020	Ø39	K201260U.039	K201270U.039	Ø54	K201260U.054	K201270U.054
Ø21	K201260U.021	K201270U.021	Ø40	K201260U.040	K201270U.040	Ø55	K201260U.055	K201270U.055
Ø22	K201260U.022	K201270U.022	Ø41	K201260U.041	K201270U.041	Ø56	K201260U.056	K201270U.056
Ø23	K201260U.023	K201270U.023	Ø42	K201260U.042	K201270U.042	Ø57	K201260U.057	K201270U.057
Ø24	K201260U.024	K201270U.024	Ø43	K201260U.043	K201270U.043	Ø58	K201260U.058	K201270U.058
Ø25	K201260U.025	K201270U.025	Ø44	K201260U.044	K201270U.044	Ø59	K201260U.059	K201270U.059
Ø26	K201260U.026	K201270U.026	Ø45	K201260U.045	K201270U.045	Ø60	K201260U.060	K201270U.060
Ø26.5	K201260U.0265	K201270U.0265						

Coronas para Maquinas de Base Electromagética – Silver Line Basic



- Fresa Hueca HSS y Amarre Weldon 19mm.
- Modelo K201255 (Longitud 25 mm)
- Modelo K201265 (Longitud 50mm)

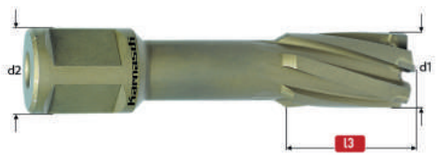
Diámetro	Referencia L3 30 mm	Referencia L3 55 mm	Diámetro	Referencia L3 30 mm	Referencia L3 55 mm
Ø12	K201255.012	K201265.012	Ø37	K201255.037	K201265.037
Ø13	K201255.013	K201265.013	Ø38	K201255.038	K201265.038
Ø14	K201255.014	K201265.014	Ø39	K201255.039	K201265.039
Ø15	K201255.015	K201265.015	Ø40	K201255.040	K201265.040
Ø16	K201255.016	K201265.016	Ø41	K201255.041	K201265.041
Ø17	K201255.017	K201265.017	Ø42	K201255.042	K201265.042
Ø18	K201255.018	K201265.018	Ø43	K201255.043	K201265.043
Ø19	K201255.019	K201265.019	Ø44	K201255.044	K201265.044
Ø20	K201255.020	K201265.020	Ø45	K201255.045	K201265.045
Ø21	K201255.021	K201265.021	Ø46	K201255.046	K201265.046
Ø22	K201255.022	K201265.022	Ø47	K201255.047	K201265.047
Ø23	K201255.023	K201265.023	Ø48	K201255.048	K201265.048
Ø24	K201255.024	K201265.024	Ø49	K201255.049	K201265.049
Ø25	K201255.025	K201265.025	Ø50	K201255.050	K201265.050
Ø26	K201255.026	K201265.026	Ø51	K201255.051	K201265.051
Ø27	K201255.027	K201265.027	Ø52	K201255.052	K201265.052
Ø28	K201255.028	K201265.028	Ø53	K201255.053	K201265.053
Ø29	K201255.029	K201265.029	Ø54	K201255.054	K201265.054
Ø30	K201255.030	K201265.030	Ø55	K201255.055	K201265.055
Ø31	K201255.031	K201265.031	Ø56	K201255.056	K201265.056
Ø32	K201255.032	K201265.032	Ø57	K201255.057	K201265.057
Ø33	K201255.033	K201265.033	Ø58	K201255.058	K201265.058
Ø34	K201255.034	K201265.034	Ø59	K201255.059	K201265.059
Ø35	K201255.035	K201265.035	Ø60	K201255.060	K201265.060
Ø36	K201255.036	K201265.036			
Ø31	K201255.031	K201265.031			
Ø32	K201255.032	K201265.032			
Ø33	K201255.033	K201265.033			



Consulte nuestros Sets de Coronas en diferentes modelos/medidas

Tambien puede realizar cajas individuales personalizadas con sus modelos en estuche de plastico rigido a medida del cliente.

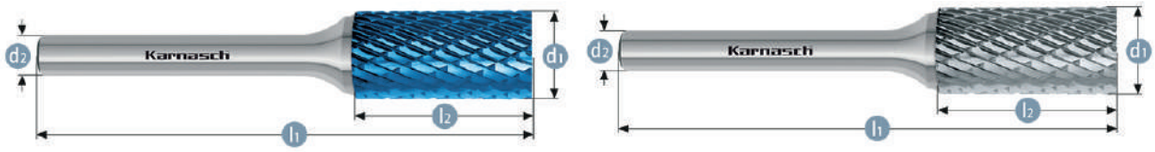
Coronas para Maquinas de Base Electromagética – Hard-Line



- Fresa Hueca Metal Duro y Amarre Weldon 19mm.
- Modelo k201315 (Longitud 40 mm)
- Modelo K201316 (Longitud 55mm)
- Disponibles también de longitud 80 y 110 y 150mm algunas medidas

Diámetro	Referencia L3 40 mm	Referencia L3 55mm	Diámetro	Referencia L3 40 mm	Referencia L3 55 mm
Ø12	K201315.012	K201316.012	Ø61	K201315.061	K201316.061
Ø13	K201315.013	K201316.013	Ø62	K201315.062	K201316.062
Ø14	K201315.014	K201316.014	Ø63	K201315.063	K201316.063
Ø15	K201315.015	K201316.015	Ø64	K201315.064	K201316.064
Ø16	K201315.016	K201316.016	Ø65	K201315.065	K201316.065
Ø17	K201315.017	K201316.017	Ø66	K201315.066	K201316.066
Ø18	K201315.018	K201316.018	Ø67	K201315.067	K201316.067
Ø19	K201315.019	K201316.019	Ø68	K201315.068	K201316.068
Ø20	K201315.020	K201316.020	Ø69	K201315.069	K201316.069
Ø21	K201315.021	K201316.021	Ø70	K201315.070	K201316.070
Ø22	K201315.022	K201316.022	Ø71	K201315.071	K201316.071
Ø23	K201315.023	K201316.023	Ø72	K201315.072	K201316.072
Ø24	K201315.024	K201316.024	Ø73	K201315.073	K201316.073
Ø25	K201315.025	K201316.025	Ø74	K201315.074	K201316.074
Ø26	K201315.026	K201316.026	Ø75	K201315.075	K201316.075
Ø27	K201315.027	K201316.027	Ø76	K201315.076	K201316.076
Ø28	K201315.028	K201316.028	Ø77	K201315.077	K201316.077
Ø29	K201315.029	K201316.029	Ø78	K201315.078	K201316.078
Ø30	K201315.030	K201316.030	Ø79	K201315.079	K201316.079
Ø31	K201315.031	K201316.031	Ø80	K201315.080	K201316.080
Ø32	K201315.032	K201316.032	Ø82	-	K201316.082
Ø33	K201315.033	K201316.033	Ø83	-	K201316.083
Ø34	K201315.034	K201316.034	Ø84	-	K201316.084
Ø35	K201315.035	K201316.035	Ø85	K201315.085	K201316.085
Ø36	K201315.036	K201316.036	Ø88	-	K201316.088
Ø37	K201315.037	K201316.037	Ø90	K201315.090	K201316.090
Ø38	K201315.038	K201316.038	Ø92	-	K201316.092
Ø39	K201315.039	K201316.039	Ø95	-	K201316.095
Ø40	K201315.040	K201316.040	Ø100	K201315.100	K201316.100
Ø41	K201315.041	K201316.041	Ø105	K201315.105	K201316.105
Ø42	K201315.042	K201316.042	Ø110	K201315.110	K201316.110
Ø43	K201315.043	K201316.043	Ø115	-	K201316.115
Ø44	K201315.044	K201316.044	Ø120	K201315.120	K201316.120
Ø45	K201315.045	K201316.045	Ø125	-	K201316.125
Ø46	K201315.046	K201316.046	Ø130	-	K201316.130
Ø47	K201315.047	K201316.047	Ø135	-	K201316.135
Ø48	K201315.048	K201316.048	Ø140	-	K201316.140
Ø49	K201315.049	K201316.049	Ø145	-	K201316.145
Ø50	K201315.050	K201316.050	Ø150	-	K201316.150
Ø51	K201315.051	K201316.051	Ø155	-	K201316.155
Ø52	K201315.052	K201316.052	Ø160	-	K201316.160
Ø53	K201315.053	K201316.053	Ø165	-	K201316.165
Ø54	K201315.054	K201316.054	Ø170	-	K201316.170
Ø55	K201315.055	K201316.055	Ø175	-	K201316.175
Ø56	K201315.056	K201316.056	Ø180	-	K201316.180
Ø57	K201315.057	K201316.057	Ø185	-	K201316.185
Ø58	K201315.058	K201316.058	Ø190	-	K201316.190
Ø59	K201315.059	K201316.059	Ø195	-	K201316.195
Ø60	K201315.060	K201316.060	Ø200	-	K201316.200

Fresa Rotativa HP3 - Forma A



Referencia BLUE	D1	L2	D2	L1	M.S	VHM	Referencia
K11 5001 015	1,5	6	3	38		X	K11 3001 015
K11 5001 025	2	11	3	38		X	K11 3001 025
K11 5001 027	2,5	11	3	38		X	K11 3001 027
K11 5001 030	3	14	3	38		X	K11 3001 030
K11 5001 035	3	14	3	50		X	K11 3001 035
K11 5001 040	3	14	3	65		X	K11 3001 040
K11 5001 045	3	14	3	75		X	K11 3001 045
K11 5001 050	3	14	3	100		X	K11 3001 050
K11 5001 052	3	12,7	6	50		X	K11 3001 052
K11 5001 055	4	14	6	50		X	K11 3001 055
K11 5001 057	5	12,7	3	38		X	K11 3001 057
K11 5001 058	5	16	6	50		X	K11 3001 058
K11 5001 059	6	5	3	37	X		K11 3001 059
K11 5001 060	6	13	3	45	X		K11 3001 060
K11 5001 065	6	18	6	50		X	K11 3001 065
K11 5001 067	6	25	6	50		X	K11 3001 067
K11 5001 070	6	18	6	100	X		K11 3001 070
K11 5001 075	6	18	6	150	X		K11 3001 075
K11 5001 080	8	20	6	65	X		K11 3001 080
K11 5001 085	8	20	6	170	X		K11 3001 085
K11 5001 087	10	13	6	58	X		K11 3001 087
K11 5001 090	10	20	6	65	X		K11 3001 090
K11 5001 095	10	20	6	172	X		K11 3001 095
K11 5001 100	10	25	6	70	X		K11 3001 100
K11 5001 103	12	20	6	64	X		K11 3001 103
K11 5001 105	12	25	6	70	X		K11 3001 105
K11 5001 107	12DIN	25	6	70	X		K11 3001 107
K11 5001 110	12	25	6	175	X		K11 3001 110
K11 5001 115	12	25	8	70	X		K11 3001 115
K11 5001 120	16	25	6	70	X		K11 3001 120
K11 5001 125	16	25	8	70	X		K11 3001 125
K11 5001 130	20	25	6	70	X		K11 3001 130
K11 5001 140	25	25	6	70	X		K11 3001 140
K11 5001 145	25	25	8	70	X		-

Fresa Rotativa HP3 PRO - Forma A



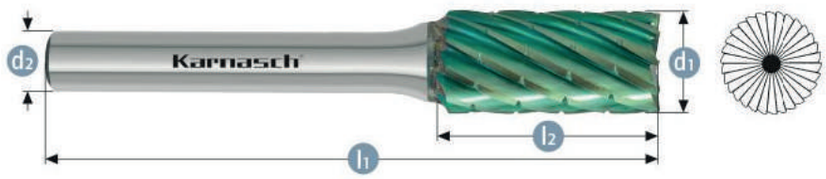
Referencia GREEN	D1	L2	D2	L1	M.S	VHM
K11 6090 010	6	18	6	50		X
K11 6090 020	8	20	6	65	X	
K11 6090 030	10	20	6	65	X	
K11 6090 040	12DIN	25	6	70	X	
K11 6090 050	16	25	6	70	X	

Fresa Rotativa HP3 - Forma B



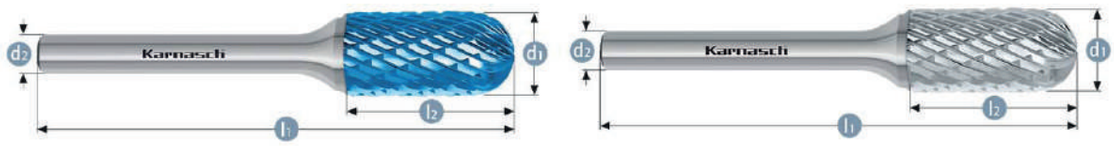
Referencia BLUE	D1	L2	D2	L1	M.S	VHM	Referencia
K11 5011 005	1,5	6	3	38		X	K11 3011 005
K11 5011 010	2	11	3	38		X	K11 3011 010
K11 5011 012	2,5	11	3	38		X	K11 3011 012
K11 5011 015	3	14	3	38		X	K11 3011 015
K11 5011 020	3	14	3	50		X	K11 3011 020
K11 5011 025	3	14	3	65		X	K11 3011 025
K11 5011 030	3	14	3	75		X	K11 3011 030
K11 5011 035	3	14	3	100		X	K11 3011 035
K11 5011 037	3	12,7	6	50		X	K11 3011 037
K11 5011 040	4	14	6	50		X	K11 3011 040
K11 5011 042	5	16	6	50		X	K11 3011 042
K11 5011 043	6	5	3	37	X		K11 3011 043
K11 5011 045	6	13	3	45	X		K11 3011 045
K11 5011 050	6	13	6	50		X	K11 3011 050
K11 5011 055	6	18	6	75		X	K11 3011 055
K11 5011 060	6	18	6	100	X	X	K11 3011 060
K11 5011 065	6	18	6	150	X		K11 3011 065
K11 5011 070	6	18	6	50		X	K11 3011 070
K11 5011 075	8	25	6	65	X		K11 3011 075
K11 5011 080	8	20	6	170	X		K11 3011 080
K11 5011 082	10	13	6	58	X		-
K11 5011 085	10	20	6	65	X		K11 3011 085
K11 5011 090	10	20	6	172	X		K11 3011 090
K11 5011 095	10	25	6	70	X		K11 3011 095
-	11	25	6	70	X		K11 3011 097
K11 5011 099	12	20	6	64	X		K11 3011 099
K11 5011 100	12	25	6	70	X		K11 3011 100
K11 5011 103	12 DIN	25	6	70	X		K11 3011 103
K11 5011 105	12	25	6	175	X		K11 3011 105
K11 5011 110	12	25	8	70	X		K11 3011 110
K11 5011 115	16	25	6	70	X		K11 3011 115
K11 5011 120	16	25	8	70	X		K11 3011 120
K11 5011 125	20	25	6	70	X		K11 3011 125
K11 5011 130	20	25	8	70	X		K11 3011 130
K11 5011 135	25	25	6	70	X		K11 3011 135
K11 5011 140	25	25	8	70	X		K11 3011 140

Fresa Rotativa HP3 PRO - Forma B



Referencia GREEN	D1	L2	D2	L1	M.S	VHM
K11 6091 010	6	18	6	50		X
K11 6091 020	8	20	6	65	X	
K11 6091 030	10	20	6	65	X	
K11 6091 040	12DIN	25	6	70	X	
K11 6091 050	16	25	6	70	X	

Fresa Rotativa HP3 - Forma C



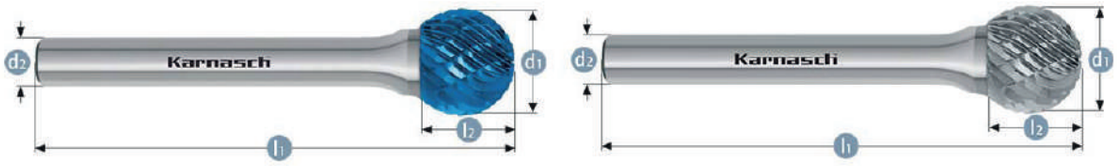
Referencia BLUE	D1	L2	D2	L1	M.S	VHM	Referencia
K11 5021 020	2	11	3	38		X	K11 3021 020
K11 5021 022	2,5	11	3	38		X	K11 3021 022
K11 5021 025	3	14	3	38		X	K11 3021 025
K11 5021 030	3	14	3	50		X	K11 3021 030
K11 5021 032	3	14	3	60		X	K11 3021 032
K11 5021 035	3	14	3	75		X	K11 3021 035
K11 5021 040	3	14	3	100		X	K11 3021 040
K11 5021 042	3	12,7	6	50		X	K11 3021 042
K11 5021 043	3	30*(15)	6	60		X	K11 3021 043
K11 5021 045	4	16	6	50		X	K11 3021 045
K11 5021 046	4	30*(15)	6	60		X	K11 3021 046
K11 5021 047	5	12,7	3	38		X	K11 3021 047
K11 5021 049	5	16	6	50		X	K11 3021 049
K11 5021 050	6	12,7	3	44	X		K11 3021 050
K11 5021 055	6	18	6	50		X	K11 3021 055
K11 5021 056	6	18	6	60		X	K11 3021 056
K11 5021 058	6	18	6	80		X	K11 3021 058
K11 5021 060	6	18	6	100	X		K11 3021 060
K11 5021 065	6	18	6	150	X		K11 3021 065
K11 5021 070	6	25	6	50		X	K11 3021 070
K11 5021 075	8	20	6	65	X		K11 3021 075
K11 5021 080	8	20	6	170	X		K11 3021 080
K11 5021 085	10	20	6	65	X		K11 3021 085
K11 5021 090	10	20	6	170	X		K11 3021 090
K11 5021 095	10	25	6	70	X		K11 3021 095
K11 5021 097	11	25	6	70	X		K11 3021 097
K11 5021 099	12	10	6	54	X		-
K11 5021 100	12	20	6	65	X		K11 3021 100
K11 5021 105	12	25	6	70	X		K11 3021 105
K11 5021 107	12DIN	25	6	70	X		K11 3021 107
K11 5021 110	12	25	6	175	X		K11 3021 110
K11 5021 115	12	25	8	70	X		K11 3021 115
K11 5021 120	16	25	6	70	X		K11 3021 120
K11 5021 125	16	25	8	70	X		K11 3021 125
K11 5021 130	20	25	6	70	X		K11 3021 130
K11 5021 135	20	25	8	70	X		K11 3021 135

Fresa Rotativa HP3 PRO - Forma C



Referencia GREEN	D1	L2	D2	L1	M.S	VHM
K11 6092 010	6	18	6	50		X
K11 6092 020	8	20	6	65	X	
K11 6092 030	10	20	6	65	X	
K11 6092 040	12DIN	25	6	70	X	
K11 6092 050	16	25	6	70	X	

Fresa Rotativa HP3 - Forma D - Bola



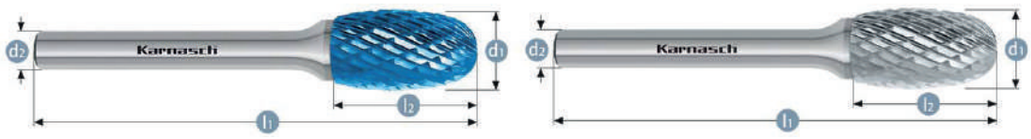
Referencia BLUE	D1	L2	D2	L1	M.S	VHM	Referencia
K11 5031 020	2	1,8	3	38		X	K11 3031 020
K11 5031 022	2,5	2,3	3	38		X	K11 3031 022
K11 5031 025	3	2,5	3	38		X	K11 3031 025
K11 5031 030	3	2,5	3	50		X	K11 3031 030
K11 5031 035	3	2,5	3	75		X	K11 3031 035
K11 5031 040	3	2,5	6	50		X	K11 3031 040
K11 5031 045	4	3,4	3	38		X	K11 3031 045
K11 5031 046	4	3,4	6	50		X	K11 3031 046
K11 5031 047	5	4,7	3	38		X	K11 3031 047
K11 5031 048	5	5,0	6	50		X	K11 3031 048
K11 5031 050	6	5,0	3	38	X		K11 3031 050
K11 5031 055	6	4,7	6	50		X	K11 3031 055
K11 5031 060	8	6,0	6	52	X		K11 3031 060
K11 5031 065	8	6,0	6	180	X		K11 3031 065
K11 5031 070	10	8,0	6	54	X		K11 3031 070
K11 5031 075	10	8,0	6	185	X		K11 3031 075
K11 5031 077	11	9,5	6	55	X		K11 3031 077
K11 5031 080	12	11,4	6	56	X		K11 3031 080
K11 5031 083	12DIN	11,0	6	56	X		K11 3031 083
K11 5031 085	12	11,0	8	56	X		K11 3031 085
K11 5031 090	12	11,0	6	162	X		K11 3031 090
K11 5031 095	16	14,0	6	60	X		K11 3031 095
K11 5031 100	16	14,0	8	60	X		K11 3031 100
K11 5031 105	20	16,5	6	62	X		K11 3031 105
K11 5031 110	20	16,5	8	62	X		K11 3031 110
K11 5031 115	25	22,0	6	68	X		K11 3031 115
K11 5031 120	25	22,0	8	68	X		K11 3031 120

Fresa Rotativa HP3 - Forma D - Bola



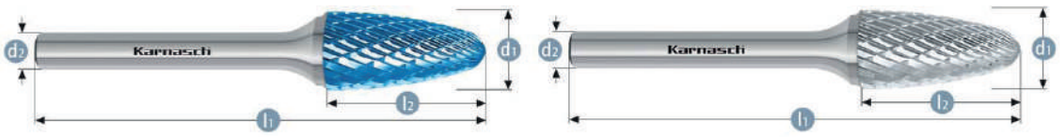
Referencia GREEN	D1	L2	D2	L1	M.S	VHM
K11 6093 010	6	4.8	6	50		X
K11 6093 020	8	7.0	6	52	X	
K11 6093 030	10	9.0	6	54	X	
K11 6093 040	12DIN	11.0	6	56	X	
K11 6094 050	16	14.0	6	59	X	

Fresa Rotativa HP3 - Forma E - Oval



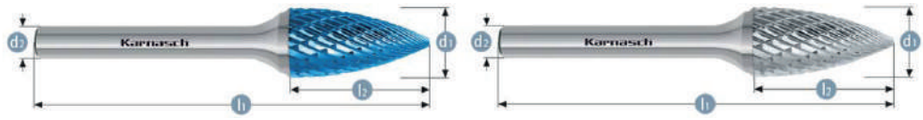
Referencia BLUE	D1	L2	D2	L2	M.S	VHM	Referencia
K11 5041 010	3	6	3	38		X	K11 3041 010
-	3	6	3	50		X	K11 3041 005
K11 5041 011	3	6	3	75		X	K11 3041 011
K11 5041 012	5	7,1	3	38		X	K11 3041 012
K11 5041 015	6	10	3	42	X		K11 3041 015
K11 5041 020	6	10	6	50		X	K11 3041 020
K11 5041 025	8	15	6	60	X		K11 3041 025
K11 5041 030	10	16	6	60	X		K11 3041 030
K11 5041 032	10	16	6	170	X		-
K11 5041 035	12	22	6	67	X		K11 3041 035
K11 5041 037	12DIN	21	6	66	X		K11 3041 037
-	12	22	6	175	X		K11 3041 038
K11 5041 040	12	22	8	67	X		K11 3041 040
K11 5041 045	16	25	6	70	X		K11 3041 045
K11 5041 050	16	25	8	70	X		K11 3041 050
K11 5041 055	20	25	6	70			-
K11 5041 060	20	25	8	70			K11 3041 060

Fresa Rotativa HP3 - Forma F - Ojival Redondeada



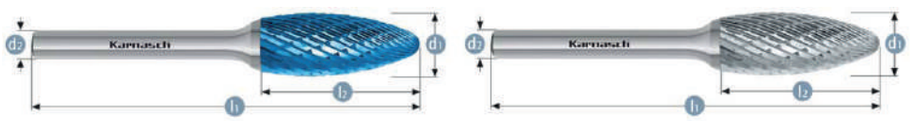
Referencia BLUE	D1	L2	D2	L2	M.S	VHM	Referencia
K11 5051 007	3	6	3	38	X		K11 3051 007
K11 5051 010	3	8	3	38		X	K11 3051 010
K11 5051 015	3	14	3	38		X	K11 3051 015
K11 5051 020	3	14	3	50		X	K11 3051 020
K11 5051 021	3	14	3	75		X	-
K11 5051 022	5	12,7	3	38		X	K11 3051 022
K11 5051 025	6	12	3	44	X		K11 3051 025
K11 5051 030	6	18	6	50		X	K11 3051 030
K11 5051 033	6	18	6	168	X		K11 3051 033
K11 5051 035	8	20	6	65	X		K11 3051 035
K11 5051 040	10	20	6	65	X		K11 3051 040
K11 5051 045	10	20	6	170	X		K11 3051 045
K11 5051 047	11	25	6	70	X		K11 3051 047
K11 5051 048	12	20	6	65	X		K11 3051 048
K11 5051 050	12	25	6	70	X		K11 3051 050
K11 5051 053	12DIN	25	6	70	X		K11 3051 053
K11 5051 055	12	25	8	70	X		K11 3051 055
K11 5051 060	12	25	6	175	X		K11 3051 060
K11 5051 065	16	25	6	70	X		K11 3051 065
K11 5051 070	16	25	8	70	X		K11 3051 070
K11 5051 075	20	25	6	70	X		K11 3051 075
K11 5051 080	20	25	8	70	X		K11 3051 080
K11 5051 082	20	32	6	77	X		K11 3051 082
K11 5051 085	20	38	6	83	X		K11 3051 085
K11 5051 090	20	38	8	83	X		K11 3051 090

Fresa Rotativa HP3 - Forma G - Ojival Punta



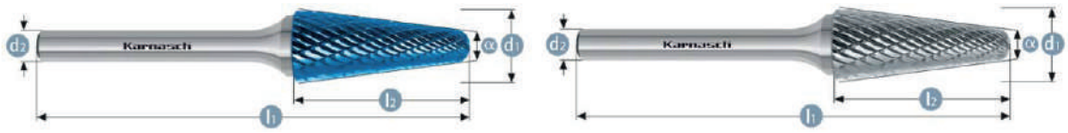
Referencia BLUE	D1	L2	D2	L2	M.S	VHM	Referencia
K11 5061 010	3	6	3	38		X	K11 3061 010
K11 5061 012	3	10	3	38		X	K11 3061 012
K11 5061 015	3	14	3	38		X	K11 3061 015
K11 5061 020	3	14	3	50		X	K11 3061 020
K11 5061 025	3	14	3	75		X	-
K11 5061 028	5	12,7	3	38		X	K11 3061 028
K11 5061 030	6	12	3	44	X		K11 3061 030
K11 5061 035	6	18	6	50		X	K11 3061 035
K11 5061 040	8	20	6	65	X		K11 3061 040
K11 5061 045	10	20	6	65	X		K11 3061 045
K11 5061 050	10	20	6	170	X		K11 3061 050
K11 5061 055	12	20	6	65	X		K11 3061 055
K11 5061 060	12	25	6	70	X		K11 3061 060
K11 5061 063	12DIN	25	6	70	X		K11 3061 063
K11 5061 065	12	25	8	70	X		K11 3061 065
K11 5061 070	12	25	6	175	X		K11 3061 070
K11 5061 075	12	30	6	75	X		K11 3061 075
K11 5061 080	12	30	8	75	X		K11 3061 080
K11 5061 085	16	25	6	70	X		K11 3061 085
K11 5061 090	16	25	8	70	X		K11 3061 090
K11 5061 095	16	30	6	75	X		K11 3061 095
K11 5061 100	16	30	8	75	X		K11 3061 100
K11 5061 105	20	25	6	70	X		K11 3061 105
K11 5061 110	20	25	8	70	X		-
K11 5061 115	20	38	6	83	X		K11 3061 115

Fresa Rotativa HP3 - Forma H



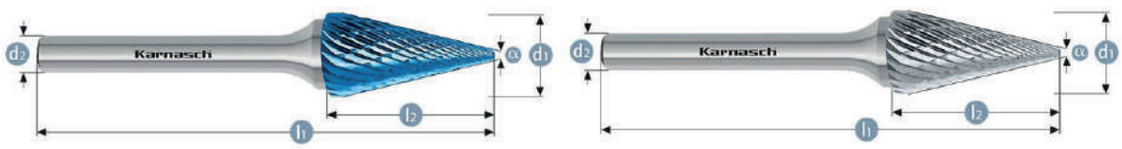
Referencia BLUE	D1	L2	D2	L2	M.S	VHM	Referencia
K11 5071 005	3	6	3	38		X	K11 3071 005
K11 5071 003	3	6	3	50		X	K11 3071 003
K11 5071 006	3	6	3	75		X	K11 3071 006
K11 5071 007	5	9,5	3	38		X	K11 3071 007
K11 5071 010	6	14	6	50		X	K11 3071 010
K11 5071 015	8	20	6	65	X		K11 3071 015
K11 5071 017	8	20	6	170	X		K11 3071 017
K11 5071 020	10	20	6	65	X		K11 3071 020
K11 5071 025	12	32	6	77	X		K11 3071 025
K11 5071 027	12DIN	30	6	75	X		K11 3071 027
K11 5071 028	12	32	6	180	X		K11 3071 028
K11 5071 030	12	32	8	77	X		K11 3071 030
K11 5071 035	16	36	6	82	X		K11 3071 035
K11 5071 040	16	36	8	82	X		K11 3071 040
K11 5071 045	20	41	6	86	X		K11 3071 045
K11 5071 050	20	41	8	86	X		K11 3071 050

Fresa Rotativa HP3 - Forma L



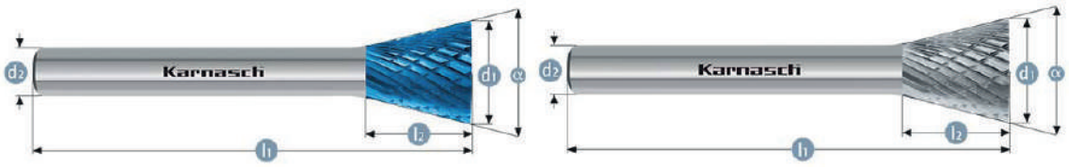
Referencia BLUE	D1	L2	D2	L2	M.S	VHM	ALFA	Referencia
K11 5081 005	3	10	3	38		X	10°	K11 3081 005
K11 5081 010	3	14	3	38		X	8°	K11 3081 010
K11 5081 009	3	14	3	50	X		8°	K11 3081 009
K11 5081 011	3	14	3	75	X		8°	K11 3081 011
K11 5081 012	5	12,7	3	38		X	14°	K11 3081 012
K11 5081 015	6	16	3	48	X		22°	K11 3081 015
K11 5081 020	6	18	6	50		X	14°	K11 3081 020
K11 5081 025	8	25	6	70	X		14°	K11 3081 025
K11 5081 030	10	20	6	65	X		14°	K11 3081 030
K11 5081 035	10	30	6	75	X		14°	K11 3081 035
K11 5081 040	10	30	6	176	X		14°	K11 3081 040
K11 5081 045	12	32	6	77	X		14°	K11 3081 045
K11 5081 047	12DIN	25	6	70	X		14°	K11 3081 047
K11 5081 050	12	32	8	77	X		14°	K11 3081 050
K11 5081 055	12	32	6	182	X		14°	K11 3081 055
K11 5081 060	16	33	6	78	X		14°	K11 3081 060
K11 5081 065	16	33	8	78	X		14°	K11 3081 065
K11 5081 070	20	41	6	86	X		14°	K11 3081 070
K11 5081 075	20	41	8	86	X		14°	K11 3081 075

Fresa Rotativa HP3 - Forma M



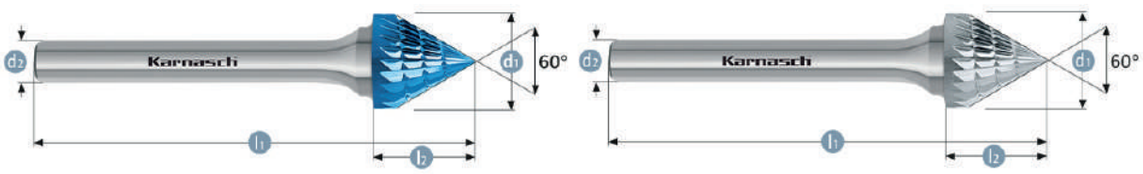
Referencia BLUE	D1	L2	D2	L2	M.S	VHM	ALFA	Referencia
K11 5091 010	3	8	3	38		X	18°	K11 3091 010
K11 5091 015	3	11	3	38		X	14°	K11 3091 015
K11 5091 020	3	15	3	38		X	10°	K11 3091 020
K11 5091 025	6	12	3	48	X		22°	K11 3091 025
K11 5091 027	6	12,7	6	50		X	14°	K11 3091 027
K11 5091 030	6	20	6	50		X	14°	K11 3091 030
K11 5091 032	6	25	6	50		X	11°	K11 3091 032
K11 5091 035	8	18	6	63	X		13°	K11 3091 035
K11 5091 040	10	20	6	65	X		28°	K11 3091 040
K11 5091 045	12	25	6	70	X		28°	K11 3091 045
K11 5091 047	12DIN	25	6	70	X		28°	K11 3091 047
K11 5091 050	12	25	8	70	X		28°	K11 3091 050
K11 5091 055	16	26	6	74	X		33°	K11 3091 055
K11 5091 060	16	26	8	74	X		33°	K11 3091 060

Fresa Rotativa HP3 - Forma N



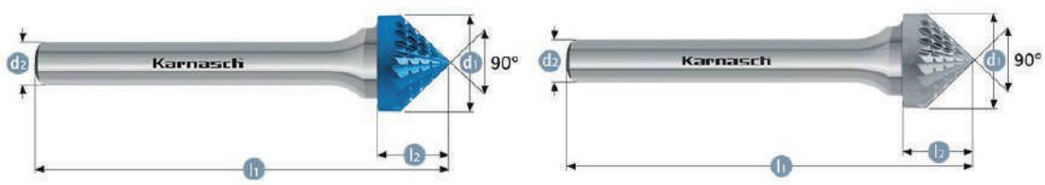
Referencia BLUE	D1	L2	D2	L2	M.S	VHM	ALFA	Referencia
K11 5096 005	3	5	3	38		X	10°	K11 3096 005
K11 5096 010	6	7	3	39	X		10°	K11 3096 010
K11 5096 015	6	8	6	50		X	10°	K11 3096 015
K11 5096 020	10	10	6	55	X		13°	K11 3096 020
K11 5096 025	12	13	6	58	X		30°	K11 3096 025
K11 5096 030	12	13	8	58	X		30°	K11 3096 030
K11 5096 035	16	19	6	64	X		18°	K11 3096 035
K11 5096 040	16	19	8	64	X		18°	K11 3096 040
K11 5096 045	20	16	6	61	X		30°	K11 3096 045

Fresa Rotativa HP3 - Forma J



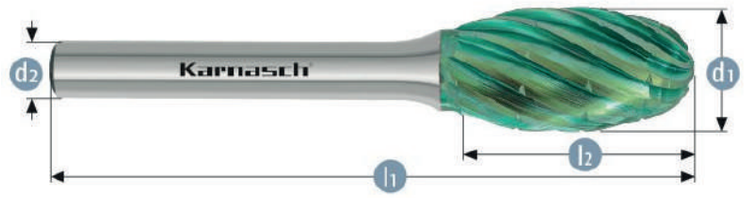
Referencia BLUE	D1	L2	D2	L2	M.S	VHM	Referencia
K11 5101 005	3	3	3	38		X	K11 3101 005
K11 5101 010	6	6	6	50		X	K11 3101 010
K11 5101 015	10	8	6	56	X		K11 3101 015
K11 5101 020	12	11	6	60	X		K11 3101 020
K11 5101 025	16	15	6	62	X		K11 3101 025
K11 5101 030	16	15	8	62	X		K11 3101 030
K11 5101 035	20	17	6	65	X		K11 3101 035
K11 5101 040	25	24,5	6	68	X		K11 3101 040

Fresa Rotativa HP3 - Forma K



Referencia BLUE	D1	L2	D2	L2	M.S	VHM	Referencia
K11 5111 005	3	3	3	38		X	K11 3111 005
K11 5111 010	6	6	6	50		X	K11 3111 010
K11 5111 015	10	5	6	53	X		K11 3111 015
K11 5111 020	12	7	6	55	X		K11 3111 020
K11 5111 025	12	7	8	55	X		K11 3111 025
K11 5111 030	16	8	6	57	X		K11 3111 030
K11 5111 035	16	8	8	57	X		K11 3111 035
K11 5111 040	20	12	6	60	X		K11 3111 040
K11 5111 045	25	12,7	6	60	X		K11 3111 045

Fresa Rotativa HP3 PRO - Forma E



Referencia GREEN	D1	L2	D2	L1	M.S	VHM
K11 6094 010	6	10	6	50		X
K11 6094 020	8	15	6	60	X	
K11 6094 030	10	15	6	60	X	
K11 6094 040	12DIN	20	6	65	X	
K11 6094 050	16	25	6	70	X	

Fresa Rotativa HP3 PRO - Forma F



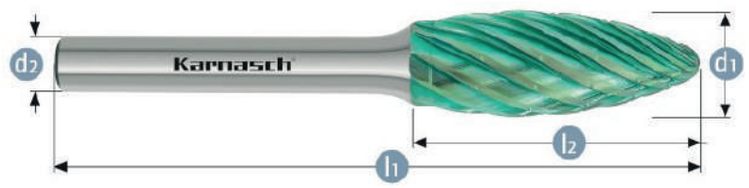
Referencia GREEN	D1	L2	D2	L1	M.S	VHM
K11 6095 010	6	18	6	50		X
K11 6095 020	8	20	6	65	X	
K11 6095 030	10	20	6	65	X	
K11 6095 040	12DIN	25	6	70	X	
K11 6095 050	16	25	6	70	X	

Fresa Rotativa HP3 PRO - Forma G



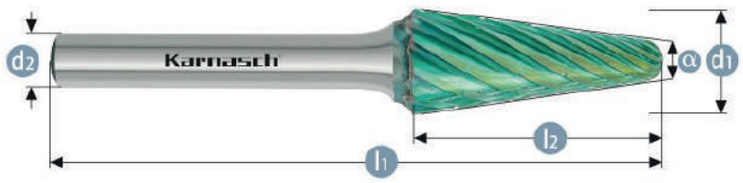
Referencia GREEN	D1	L2	D2	L1	M.S	VHM
K11 6096 010	6	18	6	50		X
K11 6096 020	8	20	6	65	X	
K11 6096 030	10	20	6	65	X	
K11 6096 040	12DIN	25	6	70	X	
K11 6096 050	16	25	6	70	X	

Fresa Rotativa HP3 PRO - Forma H



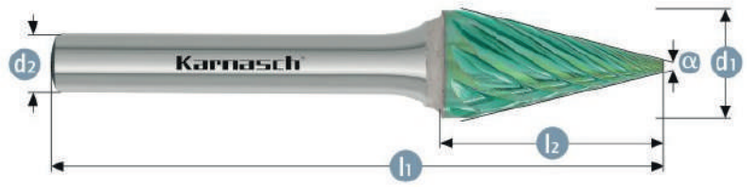
Referencia GREEN	D1	L2	D2	L1	M.S	VHM
K11 6097 010	6	14	6	50		X
K11 6097 020	8	20	6	65	X	
K11 6097 030	10	20	6	65	X	
K11 6097 040	12DIN	20	6	75	X	
K11 6097 050	16	35	6	80	X	

Fresa Rotativa HP3 PRO - Forma L



Referencia GREEN	D1	L2	D2	L1	α	M.S	VHM
K11 6098 010	6	18	6	50	14		X
K11 6098 020	8	25	6	70	14	X	
K11 6098 030	10	20	6	65	14	X	
K11 6098 040	12DIN	30	6	75	14	X	
K11 6098 050	16	33	6	78	14	X	

Fresa Rotativa HP3 PRO - Forma M



Referencia GREEN	D1	L2	D2	L1	α	M.S	VHM
K11 6099 010	6	18	6	50	14		X
K11 6099 020	8	20	6	65	13	X	
K11 6099 030	10	20	6	65	28	X	
K11 6099 040	12DIN	26	6	71	28	X	
K11 6099 050	16	25	6	70	33	X	

Set de Fresas Rotativas HP3 PRO Green



Referencia: K11 4964
• 5 Fresas Recubrimiento Green - ø10 - Tipos B-C-F-G-L

Referencia: K11 4966
• 5 Fresas Recubrimiento Green - ø12 - Tipos B-C-F-G-L

Referencia: K11 4968
• 5 Fresas Recubrimiento Green - ø10 - Tipos B-C-F-G-L
• 5 Fresas Recubrimiento Green - ø12 - Tipos B-C-F-G-L



Referencia: K11 4918
• 5 Fresas Recubrimiento BLUE - ø10 - Tipos B-C-F-G-L

Referencia: K11 4926
• 5 Fresas Recubrimiento BLUE - ø12 - Tipos B-C-F-G-L

Referencia: K11 4907
• 5 Fresas Recubrimiento BLUE - ø12DIN - Tipos B-C-F-G-L

Referencia: K11 4934
• 5 Fresas Recubrimiento BLUE - ø10 - Tipos B-C-F-G-L
• 5 Fresas Recubrimiento BLUE - ø12 - Tipos B-C-F-G-L

Taladros Magnéticos Karnasch



Modelo KA 35	Referencia: K208013

Motor: 1100
Refrigeración: Interna Automática Toma: Directa Weldon 19 mm
Máximo Fresa Hueca: ø12-38 mm – 110mm
Máximo Broca: 3-18 mm
Máximo Avellanador: 10-30 mm
Recorrido: 120/210 mm
Soporte Magnético: 80x168
Dimensiones: 275 x 370/550 mm
Peso: 11 Kg



Modelo KA 38	Referencia: K208020

Motor: 1100
Refrigeración: Interna Automática Toma: Directa Weldon 19 mm
Máximo Fresa Hueca: ø12-38 mm – 110mm
Máximo Broca: 3-18 mm
Máximo Avellanador: 10-30 mm
Recorrido: 170 mm
Soporte Magnético: 85x170 Dimensiones: 280 x 320/490 mm
Peso: 11 Kg



Modelo KA 40	Referencia: K208021

Motor: 1100
Refrigeración: Interna Automática
Toma: Directa Weldon 19 mm
Máximo Fresa Hueca: ø12-40 mm – 110 mm
Máximo Broca: 3-18 mm
Máximo Avellanador: 10-30 mm
Recorrido: 170 mm
Soporte Magnético: 85x170
Dimensiones: 280 x 330/510 mm
Peso: 12 Kg



Modelo KAS 40	Referencia: K208022

Motor: 1100
Refrigeración: Interna Automática
Toma: Directa Weldon 19mm
Máximo Fresa Hueca: ø12-40 mm – 110mm
Máximo Broca: 3-18 mm
Máximo Avellanador: 10-30 mm
Recorrido: 180 mm
Soporte Magnético: 85x170 rotativo 360º
Dimensiones: 280 x 340/520 mm
Peso: 12 Kg



Modelo KA 50	Referencia: K208023

Motor: 1150
Refrigeración: Interna Automática
Toma: Cono Morse 2 Con Weldon 19 mm Maximo Fresa Hueca: ø12-50 mm – 110mm
Máximo Broca: 3-23 mm
Máximo Avellanador: 10-40 mm
Recorrido: 170 mm
Dimensiones: 280 x 420/560 mm
Peso: 13 Kg



Modelo KAS 50	Referencia: K208024

Motor: 1150
Refrigeración: Interna Automática
Toma: Cono Morse 2 Con Weldon 19 mm
Máximo Fresa Hueca: ø12-50 mm – 110mm
Máximo Broca: 3-23 mm
Máximo Avellanador: 10-40 mm
Recorrido: 180 mm
Soporte Magnético: 85x170 rotativo 360º
Dimensiones: 280 x 430/570 mm
Peso: 14Kg



Modelo KATV 55	Referencia: K208025

Motor: 1250
Refrigeración: Interna Automática
Toma: Cono Morse 2 Con Weldon 19mm
Máximo Fresa Hueca: ø12-55 mm – 110mm
Máximo Broca: 3-23 mm
Máximo Avellanador: 10-40 mm
Machos: 6-20 mm
Recorrido: 180 mm
Soporte Magnético: 85x180
Dimensiones: 280 x 420/560 mm
Protección a sobre temperatura del equipo
Giro: Derecha /Izquierda
Peso: 14 Kg



Modelo KATSV 55	Referencia: K208026

Motor: 1250
Refrigeración: Interna Automática
Toma: Cono Morse 2 Con Weldon 19 mm
Máximo Fresa Hueca: ø12-55 mm – 110 mm
Máximo Broca: 3-23 mm
Máximo Avellanador: 10-40 mm
Machos: 6-20 mm
Recorrido: 195 mm
Soporte Magnético: 85x180 rotativo 360º
Dimensiones: 280 x 420/560 mm
Protección a sobre temperatura del equipo
Giro: Derecha /Izquierda
Peso: 15Kg



Modelo KALP 55	Referencia: K208031

Motor: 1100
Refrigeración: Interna Automática
Toma: Directa Weldon 19 mm
Máximo Fresa Hueca: ø12-45 mm – 55mm
Máximo Broca: 6-16 mm
Máximo Avellanador: 10-30 mm
Recorrido: 63 mm
Soporte Magnético: 86x196
Dimensiones: 310 x 178 mm
Peso: 11 Kg

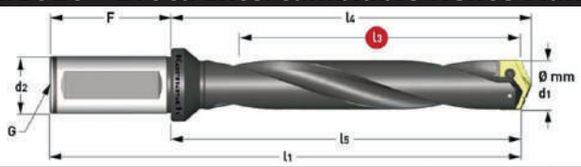
(*) Disponemos de otros modelos de taladros magnéticos disponibles en el catálogo general de Karnasch

Amoladoras Rectas Profesionales de Aire Karnasch

Referencia		Descripción
K114705		Velocidad: 100.000 rpm/ Potencia: 40 Vatios Pinza sujección: 3 mm Diámetro Máximo: 3 mm Peso: 0.25 Kg Consumo Aire: 0.147 m3/min
K114714		Velocidad:100.000 rpm/ Potencia: 63 Vatios Pinza sujección: 3 mm Diámetro Maximo: 3 mm Peso: 0.15 Kg Consumo Aire: 0.17 m3/min
K114703		Velocidad: 75.000 rpm/ Potencia: 110 Vatios Pinza sujección: 3 mm Diámetro Maximo: 3 mm Peso: 0.15 Kg Consumo Aire: 0.20 m3/min
K114706		Velocidad: 60.000 rpm/ Potencia: 110 Vatios Pinza sujección: 3 mm Diámetro Maximo: 6mm Peso: 0.25 Kg Consumo Aire: 0.147 m3/min
K114707		Velocidad: 45.000 rpm/ Potencia: 150 Vatios Pinza sujección: 3 mm Diámetro Maximo: 6 mm Peso: 0.24 Kg Consumo Aire: 0.23 m3/min
K114708		Velocidad: 37.000 rpm/ Potencia: 300 Vatios Pinza sujección: 6 mm Diámetro Maximo: 4-8 mm Peso: 0.46 Kg Consumo Aire: 0.57 m3/min
K114709		Velocidad: 30.000 rpm/ Potencia: 300 Vatios Pinza sujección: 3 mm Diámetro Maximo: 6-10 mm Peso: 0.57 Kg Consumo Aire: 0.57 m3/min
K114704		Velocidad: 25.000 rpm/ Potencia: 370 Vatios Pinza sujección: 6 mm Diámetro Maximo: 8-12 mm Peso: 0.70 Kg Consumo Aire: 0.57 m3/min
K114710		Velocidad: 25.000 rpm/ Potencia: 820 Vatios Pinza sujección: 6 mm Diámetro Maximo: 8-12 mm Peso: 0.73 Kg Consumo Aire: 0.62 m3/min
K114711		Velocidad: 25.000 rpm/ Potencia: 820 Vatios Pinza sujección: 6 mm Diámetro Maximo: 8-12 mm Peso: 0.73 Kg Consumo Aire: 0.62 m3/min
K114712		Velocidad: 16.000 rpm/ Potencia: 820 Vatios Pinza sujección: 6 mm Diámetro Maximo: 10-20 mm Peso: 0.73 Kg Consumo Aire: 0.62 m3/min
K114713		Velocidad: 10.000 rpm/ Potencia: 820 Vatios Pinza sujección: 6 mm Diámetro Maximo: 12-25 mm Peso: 0.73 Kg Consumo Aire: 0.62 m3/min

(*) Disponemos de accesorios y recambios para los modelos de Amoladoras Neumáticas Karnasch

22.1010 - Broca Intercambiable Hélice Mango Cilíndrico - 4xD



Referencia	Rango Óptimo	Rango Posible	Corte L3	L5	L4	L1	d2	F	G
K22.1010.01175.0180	18-21	18-24	117.5	154.8	158.4	210.8	25	56	1/8″
K22.1010.01175.0220	22-24	-	117.5	154.8	158.4	210.8	25	56	1/8″
K22.1010.01365.0255	25-29	25-35	136.5	179.4	183	293.4	32	60	1/4″
K22.1010.01365.0300	30-35	-	136.5	179.4	183	293.4	32	60	1/4″
K22.1010.01651.0360	36-41	36-47	165.1	217.5	222.3	287.5	40	70	1/4″
K22.1010.01651.0420	42-47	-	165.1	217.5	222.3	287.5	40	70	1/4″

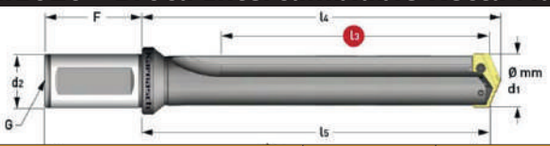
22.1010 - Broca Intercambiable Hélice Mango Cilíndrico - 5xD

Referencia	Rango Óptimo	Rango Posible	Corte L3	L5	L4	L1	d2	F	G
K22.1010.00603.0095	9.5-11	-	60.3	89.7	92.1	139.7	20	50	1/8″
K22.1010.00603.0115	11.5-12.5	-	60.3	89.7	92.1	139.7	20	50	1/8″
K22.1010.00635.0130	13-15	13-17.5	63.5	92.1	94.9	142.1	20	50	1/8″
K22.1010.00635.0155	15.5-17.5	-	63.5	92.1	94.9	142.1	20	50	1/8″
K22.1010.01683.0180	18-21	18-24	168.3	205.6	209.2	261.6	25	56	1/8″
K22.1010.01683.0220	22-24	-	168.3	205.6	209.2	261.6	25	56	1/8″
K22.1010.01873.0250	25-29	25-35	187.3	230.2	233.8	290.2	32	60	1/4″
K22.1010.01873.0300	30-35	-	187.3	230.2	233.8	290.2	32	60	1/4″
K22.1010.02096.0360	36-41	36-47	209.6	261.9	266.7	331.9	40	70	1/4″
K22.1010.02096.0420	42-47	-	209.6	261.9	266.7	331.9	40	70	1/4″
K22.1010.02318.0480	48-55	48-65	231.8	281	285.8	351	40	70	1/4″
K22.1010.02318.0560	56-65	-	231.8	281	285.8	351	40	70	1/4″

22.1010 - Broca Intercambiable Hélice Mango Cilíndrico - 8xD

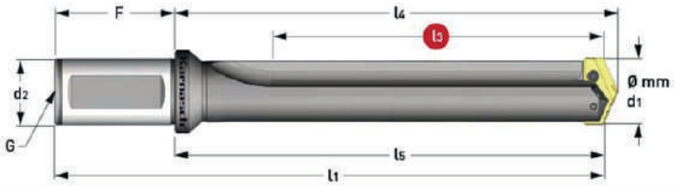
Referencia	Rango Óptimo	Rango Posible	Corte L3	L5	L4	L1	d2	F	G
K22.1010.01111.0095	9.5-11	-	111.1	140.5	142.9	190.5	20	50	1/8″
K22.1010.01111.0115	11.5-12.5	-	111.1	140.5	142.9	190.5	20	50	1/8″
K22.1010.01143.0130	13-15	13-17.5	114.3	142.9	145.7	192.9	20	50	1/8″
K22.1010.01143.0155	15-17.5	-	114.3	142.9	145.7	192.9	20	50	1/8″
K22.1010.02699.0180	18-21	18-24	269.9	307.2	310.8	363.2	25	56	1/8″
K22.1010.02699.0220	22-24	-	269.9	307.2	310.8	363.2	25	56	1/8″
K22.1010.02889.0250	25-29	25-35	288.9	331.8	335.4	391.8	32	60	1/4″
K22.1010.02889.0300	30-35	-	288.9	331.8	335.4	391.8	32	60	1/4″

22.1020 - Broca Intercambiable Recta Mango Cilíndrico - 3xD



Referencia	Rango Óptimo	Rango Posible	Corte L3	L5	L4	L1	d2	F	G
K22.1020.00318.0095	9.5-11	-	31.8	61.1	63.5	111.1	20	50	1/8″
K22.1020.00318.0115	11.5-12.5	-	31.8	61.1	63.5	111.1	20	50	1/8″
K22.1020.00349.0135	13-15	13-17	34.9	63.5	66.3	113.5	20	50	1/8″
K22.1020.00349.0155	15.5-17.5	-	34.9	63.5	66.3	113.5	20	50	1/8″
K22.1020.00667.0180	18-21	18-24	66.7	107.2	110.7	163.2	25	56	1/8″
K22.1020.00667.0220	22-24	-	66.7	107.2	110.7	163.2	25	56	1/8″
K22.1020.00857.0250	25-29	25-35	85.7	128.6	132.2	188.6	32	60	1/4″
K22.1020.00857.0300	30-35	-	85.7	128.6	132.2	188.6	32	60	1/4″
K22.1020.01207.0360	36-41	36-47	120.7	173	177.8	243	40	70	1/4″
K22.1020.01207.0420	42-47	-	120.7	173	177.8	243	40	70	1/4″
K22.1020.01302.0480	48-55	48-65	130.2	179.4	184.2	249.4	40	70	1/4″
K22.1020.01302.0560	56-65	-	130.2	179.4	184.2	249.4	40	70	1/4″

22.1020 - Broca Intercambiable Recta Mango Cilíndrico - 8xD



Referencia	Rango Óptimo	Rango Posible	Corte L3	L5	L4	L1	d2	F	G
K22.1020.03493.0360	36-41	36-47	349.3	401.6	406.4	471.6	40	70	1/4”
K22.1020.03493.0420	42-47	-	349.3	401.6	406.4	471.6	40	70	1/4”
K22.1020.04223.0480	48-55	48-65	422.3	471.5	476.3	541.5	40	70	1/4”
K22.1020.04223.0560	56-65	-	422.3	471.5	476.3	541.5	40	70	1/4”

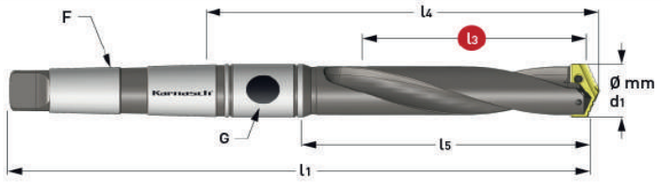
22.1020 - Broca Intercambiable Recta Mango Cilíndrico - 12xD

Referencia	Rango Óptimo	Rango Posible	Corte L3	L5	L4	L1	d2	F	G
K22.1020.02220.0095	9.5-11	-	222	251.7	254.1	301.7	20	50	1/8”
K22.1020.02223.0115	11.5-12.5	-	222.3	251.7	254.1	301.7	20	50	1/8”
K22.1020.02950.0130	13-15	13-17.5	295	323.9	326.7	373.9	20	50	1/8”
K22.1020.02950.0155	15.5-17.5	-	295	323.9	326.7	373.9	20	50	1/8”
K22.1020.04570.0180	18-21	18-24	457	494.5	498.1	550.5	25	56	1/8”
K22.1020.04570.0220	22-24	-	457	494.5	498.1	550.5	25	56	1/8”
K22.1020.05110.0250	25-29	25-35	511	554.1	557.7	614.1	32	60	1/4”
K22.1020.05110.0300	30-35	-	511	554.1	557.7	614.1	32	60	1/4”
K22.1020.05588.0360	36-41	36-47	558	611	615.9	681.1	40	70	1/4”
K22.1020.05588.0420	42-47	-	558	611	615.9	681.1	40	70	1/4”
K22.1020.06250.0480	48-55	48-65	625	674.7	679.5	744.7	40	70	1/4”
K22.1020.06250.0560	56-65	-	625	674.7	679.5	744.7	40	70	1/4”

22.1020 - Broca Intercambiable Recta Mango Cilíndrico - 15xD

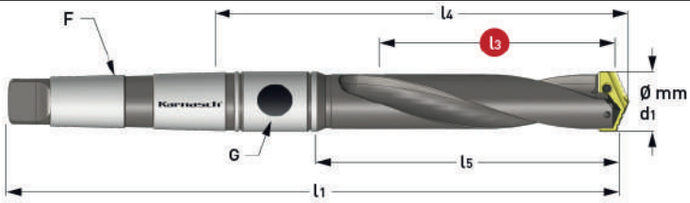
Referencia	Rango Óptimo	Rango Posible	Corte L3	L5	L4	L1	d2	F	G
K22.1020.02900.0095	9.5-11	-	290	319.9	322.3	369.9	20	50	1/8”
K22.1020.02905.0115	11.5-12.5	-	290	319.9	322.3	369.9	20	50	1/8”
K22.1020.03870.0130	13-15	13-17.5	387	416	418.8	446	20	50	1/8”
K22.1020.03870.0155	15.5-17.5	-	387	416	418.8	446	20	50	1/8”
K22.1020.05690.0180	18-21	18-24	569	602.5	606.1	658.5	25	56	1/8”
K22.1020.05690.0220	22-24	-	569	602.5	606.1	658.5	25	56	1/8”
K20.1020.06920.0250	25-29	25-35	692	735.1	738.7	795.1	32	60	1/4”
K22.1020.06920.0300	30-35	-	692	735.1	738.7	795.1	32	60	1/4”
K22.1020.07874.0360	36-41	34-47	787.4	839.7	844.5	909.7	40	70	1/4”
K22.1020.07874.0420	42-47	-	787.4	839.7	844.5	909.7	40	70	1/4”
K22.1020.08790.0480	48-55	48-65	879	928.7	933.5	998.7	40	70	1/4”
K22.1020.08790.0560	56-65	-	879	928.7	933.5	998.7	40	70	1/4”

22.1030 - Broca Intercambiable Hélice Cono Morse - 4xD



Referencia	Rango Óptimo	Rango Posible	Corte L3	L5	L4	L1	F	G
K22.1030.01207.0180	18-21	18-24	120.7	149.2	193.3	283.3	3	1/8”
K22.1030.01207.0220	22-24	-	120.7	149.2	193.3	283.3	3	1/8”
K22.1030.01365.0250	25-29	25-35	136.5	165.1	218.4	331.8	4	1/8”
K22.1030.01365.0300	30-35	-	136.5	165.1	218.4	331.8	4	1/8”
K22.1030.01651.0360	36-41	36-47	165.1	196.9	250.9	363.6	4	1/4”
K22.1030.01651.0420	42-47	-	165.1	196.9	250.9	363.6	4	1/4”

22.1030 - Broca Intercambiable Hélice Cono Morse - 5xD

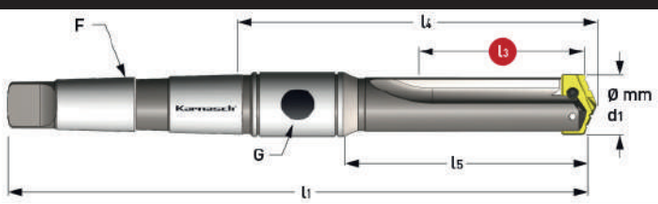


Referencia	Rango Óptimo	Rango Posible	Corte L3	L5	L4	L1	F	G
K22.1030.00603.0095	9.5-11	-	60.3	80.2	116.7	188.9	2	1/16"
K22.1030.00603.0115	11.5-12.5	-	60.3	80.2	116.7	188.9	2	1/16"
K22.1030.00635.0130	13-15	13-17.5	63.5	84.1	121	192.9	2	1/16"
K22.1030.00635.0155	15.5-17.5	-	63.5	84.1	121	192.9	2	1/16"
K22.1030.01715.0180	18-21	18-24	171.5	200	244.1	334.2	3	1/8"
K22.1030.01715.0220	22-24	-	171.5	200	244.1	334.2	3	1/16"
K22.1030.01873.0250	25-29	25-35	187.3	215.9	262	375.4	4	1/8"
K22.1030.01873.0300	30-35	-	187.3	215.9	269.2	382.6	4	1/4"
K22.1030.02095.0360	36-41	36-47	209.5	241.3	295.3	408	4	1/4"
K22.1030.02095.0420	42-47	-	209.5	241.3	295.3	408	4	1/4"
K22.1030.02318.0480	48-55	48-65	231.8	266.7	320.7	465.1	5	1/4"
K22.1030.02318.0560	56-65	-	231.8	266.7	320.7	465.1	5	1/4"

22.1030 - Broca Intercambiable Hélice Cono Morse - 8xD

Referencia	Rango Óptimo	Rango Posible	Corte L3	L5	L4	L1	F	G
K22.1030.01111.0095	9.5-11	-	111.1	130.9	167.4	239.7	2	1/16"
K22.1030.01111.0115	11.5-12.5	-	111.1	130.9	167.4	239.7	2	1/16"
K22.1030.01143.0130	13-15	13-17.5	114.3	135	171.8	243.7	2	1/16"
K22.1030.01143.0155	15.5-17.5	-	114.3	135	171.8	243.7	2	1/16"
K22.1030.02731.0180	18-21	18-24	273.1	301.6	345.7	435.8	3	1/8"
K22.1030.02731.0220	22-24	-	273.1	301.6	345.7	435.8	3	1/8"
K22.1030.02890.0250	25-29	25-35	289	317.5	363.6	477	4	1/4"
K22.1030.02890.0300	30-35	-	289	317.5	370.8	482.2	4	1/4"

22.1040 - Broca Intercambiable Recta Cono Morse - 3xD

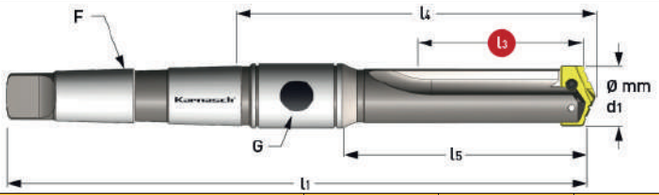


Referencia	Rango Óptimo	Rango Posible	Corte L3	L5	L4	L1	F	G
K22.1040.01301.0480	48-55	48-65	130.1	165.1	219.1	363.5	5	1/4"
K22.1040.01301.0560	56-65	-	130.1	165.1	219.1	363.5	5	1/4"
K22.1040.01715.0640	64-76	64-88	171.5	215.9	287.3	430.2	5	1/2"
K22.1040.01715.0780	78-88	-	171.5	215.9	287.3	430.2	5	1/2"
K22.1040.01715.0900	90-100	90-114	171.5	225.4	296.8	439.7	5	1/2"
K22.1040.01715.1020	102-114	-	171.5	225.4	296.8	439.7	5	1/2"

22.1040 - Broca Intercambiable Recta como Morse - 8xD

Referencia	Rango Óptimo	Rango Posible	Corte L3	L5	L4	L1	F	G
K22.1040.03493.0360	36-41	36-47	349.3	381	435	547.7	4	1/4"
K22.1040.03493.0420	42-47		349.3	381	435	547.7	4	1/4"
K22.1040.04223.0480	48-55	48-65	422.3	457.2	511.2	655.6	5	1/4"
K22.1040.04223.0560	56-65	-	422.3	457.2	511.2	655.6	5	1/4"
K22.1040.04636.0640	64-76	64-88	463.6	508	579.4	722.3	5	1/2"
K22.1040.04636.0780	78-88	-	463.6	508	579.4	722.3	5	1/2"
K22.1040.05556.0900	90-100	90-114	555.6	609.6	681.1	823.9	5	1/2"
K22.1040.05556.1020	102-114	-	555.6	609.6	681.1	823.9	5	1/2"

22.1040 - Broca Intercambiable Recta Cono Morse - 12xD



Referencia	Rango Óptimo	Rango Posible	Corte L3	L5	L4	L1	F	G
K22.1040.05558.0360	36-41	36-47	558.8	590.6	644.6	757.2	4	1/4"
K22.1040.05558.0420	42-47	-	558.8	590.6	644.6	757.2	4	1/4"
K22.1040.06250.0480	48-55	48-65	625	660.4	714.4	858.8	5	1/4"
K22.1040.06250.0560	56-65	-	625	660.4	714.4	858.8	5	1/4"
K22.1040.06600.0640	64-79	64-88	660	704.8	776.2	919.1	5	1/2"
K22.1040.06600.0780	78-88	-	660	704.8	776.2	919.1	5	1/2"
K22.1040.06850.0900	90-100	90-114	685	739.7	811.2	954	5	1/2"
K22.1040.06850.1020	102-114	-	685	739.7	811.2	954	5	1/2"

22.1040 - Broca Intercambiable Recta Cono Morse - 15xD

Referencia	Rango Óptimo	Rango Posible	Corte L3	L5	L4	L1	F	G
K22.1040.07874.0360	36-41	36-47	787.4	819.2	873.2	958.8	4	1/4"
K22.1040.07874.0420	42-47	-	787.4	819.2	873.2	958.8	4	1/4"
K22.1040.08790.0480	48-55	48-65	879	914.4	968.4	1112.8	5	1/4"
K22.1040.08790.0560	56-65	-	879	914.4	968.4	1112.8	5	1/4"
K22.1040.08890.0640	64-76	64-88	889	933.4	1004.8	1147.7	5	1/2"
K22.1040.08890.0780	78-88	-	889	933.4	1004.8	1147.7	5	1/2"
K22.1040.09390.0900	90-100	90-114	939	993.7	1065.2	1208	5	1/2"
K22.1040.09390.1020	102-114	-	939	993.7	1065.2	1208	5	1/2"

Recambios para Brocas Punta Intercambiable

Referencia	Para Brocas Ø mm
K22.9010.0095	09-11
K22.9010.0115	11.5-12.5
K22.9010.0130	13-17.5
K22.9010.0180	18-24
K22.9010.0250	25-35
K22.9010.0360	36-65
K22.9010.0640	64-114



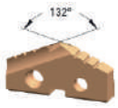
• Información técnica

Referencia	Máx N/cm
K22.9011.0084	84
K22.9011.0084	84
K22.9011.0175	175
K22.9011.0305	305
K22.9011.0690	690
K22.9011.1370	1370
K22.9011.1750	1750

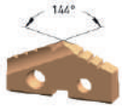


Cuchillas para Brocas Intercambiables - Guía Calidades

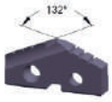
- **K22.2010 - HSS**
  Uso para inoxidables, hierro y fundición.



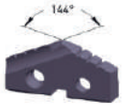
- **K22.2510 - HSS**
  Uso para inoxidables, hierro y fundición en grandes diámetros.



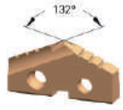
- **K22.3010 - HSS**
  Uso para aluminios, latón y cobre.



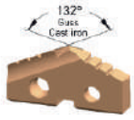
- **K22.3510 - HSS**
  Uso para cero fundido, acero y fundición.



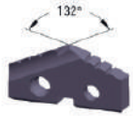
- **K22.4010 - MD**
  Uso para inoxidables, materiales desbaste y materiales duros.



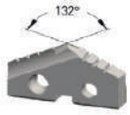
- **K22.4510 - MD**
  Uso para todo tipo de fundición.



- **K22.5010 - MD**
  Uso para aluminios, latón y cobre.



- **K22.5510 - MD**
  Uso para materiales abrasivos, grafito, fibra, etc.



Cuchillas para Brocas Intercambiables



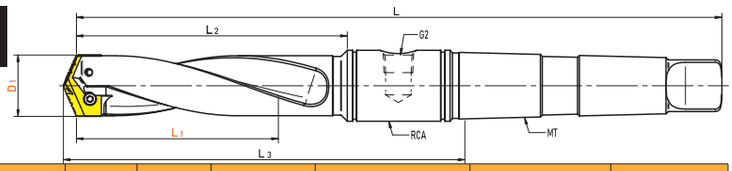
Diámetro	K22.2010 HSS	K22.2510 HSS	K22.3010 HSS	K22.3510 HSS	K22.4010 MD	K22.4510 MD	K22.5010 MD	K22.5510 MD
9,5	95	-	95	-	95	95	95	95
10	100	-	100	-	100	100	100	100
10,2	102	-	102	-	102	102	102	102
10,5	105	-	105	-	105	105	105	105
10,8	108	-	108	-	108	108	108	108
11	110	-	110	-	110	110	110	110
11,5	115	-	115	-	115	115	115	115
12	120	-	120	-	120	120	120	120
12,5	125	-	125	-	125	125	125	125
13	130	-	130	-	130	130	130	130
13,5	135	-	135	-	135	135	135	135
14	140	-	140	-	140	140	140	140
14,5	145	-	145	-	145	145	145	145
15	150	-	150	-	150	150	150	150
15,5	155	-	155	-	155	155	155	155
16	160	-	160	-	160	160	160	160
16,5	165	-	165	-	165	165	165	165
17	170	-	170	-	170	170	170	170
17,5	175	-	175	-	175	175	175	175
18	180	-	180	-	180	180	180	180
18,5	185	-	185	-	185	185	185	185
19	190	-	190	-	190	190	190	190
19,5	195	-	195	-	195	195	195	195
20	200	-	200	-	200	200	200	200
20,5	205	-	205	-	205	205	205	205
21	210	-	210	-	210	210	210	210
22	220	-	220	-	220	220	220	220
23	230	-	230	-	230	230	230	230
24	240	-	240	-	240	240	240	240
25	250	-	250	-	250	250	250	250
26	260	-	260	-	260	260	260	260
27	270	-	270	-	270	270	270	270
28	280	-	280	-	280	280	280	280
29	290	-	290	-	290	290	290	290
30	300	-	300	-	300	300	300	300
31	310	-	310	-	310	310	310	310
32	320	-	320	-	320	320	320	320
33	330	-	330	-	330	330	330	330
34	340	-	340	-	340	340	340	340
35	350	-	350	-	350	350	350	350
36	360	-	360	-	-	-	-	-
37	370	-	370	-	-	-	-	-
38	380	-	380	-	-	-	-	-
39	390	-	390	-	-	-	-	-
40	400	-	400	-	-	-	-	-
41	410	-	410	-	-	-	-	-
42	420	-	420	-	-	-	-	-
43	430	-	430	-	-	-	-	-

Cuchillas para Brocas Intercambiables



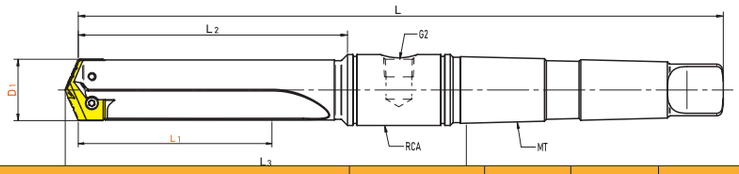
Diámetro	K22.2010 HSS	K22.2510 HSS	K22.3010 HSS	K22.3510 HSS	K22.4010 MD	K22.4510 MD	K22.5010 MD	K22.5510 MD
44	440	-	440	-	-	-	-	-
45	450	-	450	-	-	-	-	-
46	460	-	460	-	-	-	-	-
47	470	-	470	-	-	-	-	-
48	480	-	480	-	-	-	-	-
49	490	-	490	-	-	-	-	-
50	500	-	500	-	-	-	-	-
51	510	-	510	-	-	-	-	-
52	520	-	520	-	-	-	-	-
53	530	-	530	-	-	-	-	-
54	540	-	540	-	-	-	-	-
55	550	-	550	-	-	-	-	-
56	560	-	560	-	-	-	-	-
57	570	-	570	-	-	-	-	-
58	580	-	580	-	-	-	-	-
59	590	-	590	-	-	-	-	-
60	600	-	600	-	-	-	-	-
61	610	-	610	-	-	-	-	-
62	620	-	620	-	-	-	-	-
63	630	-	630	-	-	-	-	-
64	640	-	640	-	-	-	-	-
65	650	-	650	-	-	-	-	-
64	-	640	-	640	-	-	-	-
66	-	660	-	660	-	-	-	-
68	-	680	-	680	-	-	-	-
70	-	700	-	700	-	-	-	-
72	-	720	-	720	-	-	-	-
74	-	740	-	740	-	-	-	-
76	-	760	-	760	-	-	-	-
78	-	780	-	780	-	-	-	-
80	-	800	-	800	-	-	-	-
82	-	820	-	820	-	-	-	-
84	-	840	-	840	-	-	-	-
86	-	860	-	860	-	-	-	-
88	-	880	-	880	-	-	-	-
90	-	900	-	900	-	-	-	-
92	-	920	-	920	-	-	-	-
94	-	940	-	940	-	-	-	-
96	-	960	-	960	-	-	-	-
98	-	980	-	980	-	-	-	-
100	-	1000	-	1000	-	-	-	-
102	-	1020	-	1020	-	-	-	-
104	-	1040	-	1040	-	-	-	-
106	-	1060	-	1060	-	-	-	-
108	-	1080	-	1080	-	-	-	-
110	-	1100	-	1100	-	-	-	-
112	-	1120	-	1120	-	-	-	-
114	-	1140	-	1140	-	-	-	-

Brocas punta intercambiable
Amarre Cono Morse - Tipo Espiral



REFERENCIA	D1	L1	L2	L3	L	MT	G2	ANILLO	TORNILLO	LLAVE
BPN-CM2-E001	9.5-11	32	52	88	160	2	1/16"	BDP-AR1905	TDA-120	LLT-7
BPN-CM2-E002		60	80	117	189	2	1/16"			
BPN-CM2-E003		111	131	167	240	2	1/16"			
BPN-CM2-E004	11.5-12.5	32	52	88	160	2	1/16"	BDP-AR1905	TDA-121	LLT-7
BPN-CM2-E005		60	80	117	189	2	1/16"			
BPN-CM2-E006		111	131	167	240	2	1/16"			
BPN-CM2-E007	13-15	35	56	92	164	2	1/16"	BDP-AR1905	TDA-122	LLT-8
BPN-CM2-E008		64	84	121	193	2	1/16"			
BPN-CM2-E009		114	135	172	244	2	1/16"			
BPN-CM2-E010		178	199	235	307	2	1/16"			
BPN-CM2-E011	15.5-17.5	35	56	92	164	2	1/16"	BDP-AR1905	TDA-123	LLT-8
BPN-CM2-E012		64	84	121	193	2	1/16"			
BPN-CM2-E013		114	135	172	244	2	1/16"			
BPN-CM2-E014		178	199	235	307	2	1/16"			
BPN-CM3-E001	18-21	70	98	143	233	3	1/8"	BDP-AR2504	TDA-116	LLT-9
BPN-CM3-E002		121	149	193	283	3	1/8"			
BPN-CM3-E003		172	200	244	334	3	1/8"			
BPN-CM3-E004		273	302	346	436	3	1/8"			
BPN-CM3-E005	22-24	70	98	142	232	3	1/8"	BDP-AR2504	TDA-116	LLT-9
BPN-CM3-E006		121	149	193	283	3	1/8"			
BPN-CM3-E007		172	200	244	334	3	1/8"			
BPN-CM3-E008		273	302	346	436	3	1/8"			
BPN-CM4-E001	25-29	86	114	160	274	4	1/4"	BDP-AR2504	TDA-117	LLT-15
BPN-CM4-E002		137	165	211	325	4	1/4"			
BPN-CM4-E003		187	216	262	375	4	1/4"			
BPN-CM4-E004		289	318	364	477	4	1/4"			
BPN-CM4-E005	30-35	86	114	168	281	4	1/4"	BDP-AR3175	TDA-117	LLT-15
BPN-CM4-E006		137	165	218	332	4	1/4"			
BPN-CM4-E007		187	216	269	383	4	1/4"			
BPN-CM4-E008		289	318	371	484	4	1/4"			
BPN-CM4-E009	35.5-41	121	152	206	319	4	1/4"	BDP-AR3175	TDA-118	LLT-20
BPN-CM4-E010		165	197	251	364	4	1/4"			
BPN-CM4-E011		210	241	295	408	4	1/4"			
BPN-CM4-E012		349	381	435	548	4	1/4"			
BPN-CM4-E013	42-47.5	121	152	206	319	4	1/4"	BDP-AR3175	TDA-118	LLT-20
BPN-CM4-E014		165	197	251	364	4	1/4"			
BPN-CM4-E015		210	241	295	408	4	1/4"			
BPN-CM4-E016		349	384	435	548	4	1/4"			
BPN-CM5-E001	48-55	130	165	219	364	5	1/4"	BDP-AR4445	TDA-118	LLT-20
BPN-CM5-E002		232	267	321	465	5	1/4"			
BPN-CM5-E003		422	457	511	656	5	1/4"			
BPN-CM5-E004	56-65	130	165	219	364	5	1/4"	BDP-AR4445	TDA-118	LLT-20
BPN-CM5-E005		232	267	321	465	5	1/4"			
BPN-CM5-E006		422	457	511	656	5	1/4"			
BPN-CM5-E007	65-76	172	216	287	430	5	1/2"	BDP-AR5715	TDA-119	LLT-25
BPN-CM5-E008		273	318	389	532	5	1/2"			
BPN-CM5-E009		464	508	579	722	5	1/2"			
BPN-CM5-E010	77-89	172	216	287	430	5	1/2"	BDP-AR5715	TDA-119	LLT-25
BPN-CM5-E011		273	318	389	532	5	1/2"			
BPN-CM5-E012		464	508	579	722	5	1/2"			
BPN-CM5-E013	89-101	172	225	297	440	5	1/2"	BDP-AR5715	TDA-119	LLT-25
BPN-CM5-E014		273	327	388	541	5	1/2"			
BPN-CM5-E015		556	610	681	824	5	1/2"			
BPN-CM5-E016	102-114	172	225	297	440	5	1/2"	BDP-AR5715	TDA-119	LLT-25
BPN-CM5-E017		273	327	399	541	5	1/2"			
BPN-CM5-E018		556	610	681	824	5	1/2"			

Brocas punta intercambiable - Amarre Cono Morse - Tipo Recto



REFERENCIA	D1	L1	L2	L3	L	MT	G2	ANILLO	TORNILLO	LLAVE
BPN-CM2-R001	9.5-11	32	52	88	160	2	1/16″	BDP-AR1905	TDA-120	LLT-7
BPN-CM2-R002	11.5-12.5	32	52	88	160	2	1/16″	BDP-AR1905	TDA-121	LLT-7
BPN-CM2-R003	13-15	35	56	92	164	2	1/16″	BDP-AR1905	TDA-122	LLT-8
BPN-CM2-R004	15.5-17.5	35	56	92	164	2	1/16″	BDP-AR1905	TDA-123	LLT-8
BPN-CM3-R001	18-21.5	70	98	143	233	3	1/8″	BDP-AR2504	TDA-116	LLT-9
BPN-CM3-R002	22-24.5	70	98	143	233	3	1/8″	BDP-AR2504	TDA-116	LLT-9
BPN-CM4-R001	24.5-29.5	86	114	160	274	4	1/8″	BDP-AR2504	TDA-117	LLT-15
BPN-CM4-R002	30-35.5	86	114	168	281	4	1/4″	BDP-AR3175	TDA-117	LLT-15
BPN-CM4-R003	35.5-41	121	152	206	319	4	1/4″	BDP-AR3175	TDA-118	LLT-20
BPN-CM4-R004		349	381	435	548	4	1/4″			
BPN-CM4-R005		559	591	644	757	4	1/4″			
BPN-CM4-R006		787	819	873	986	4	1/4″			
BPN-CM4-R007	42-47	121	152	206	319	4	1/4″	BDP-AR3175	TDA-118	LLT-20
BPN-CM4-R008		349	381	435	548	4	1/4″			
BPN-CM4-R009		559	591	645	757	4	1/4″			
BPN-CM4-R010		787	819	873	986	4	1/4″			
BPN-CM5-R001	48-55	130	165	219	364	5	1/4″	BDP-AR4445	TDA-118	LLT-20
BPN-CM5-R001		422	457	511	656	5	1/4″			
BPN-CM5-R002		625	660	714	859	5	1/4″			
BPN-CM5-R003		879	914	968	1113	5	1/4″			
BPN-CM5-R004	56-65	130	165	219	364	5	1/4″	BDP-AR4445	TDA-118	LLT-20
BPN-CM5-R005		422	457	511	656	5	1/4″			
BPN-CM5-R006		625	660	714	859	5	1/4″			
BPN-CM5-R007		879	914	968	1113	5	1/4″			
BPN-CM5-R008	64-76	172	216	287	430	5	1/2″	BDP-AR5715	TDA-119	LLT-25
BPN-CM5-R009		464	508	579	722	5	1/2″			
BPN-CM5-R010		660	705	776	919	5	1/2″			
BPN-CM5-R011		889	933	1005	1148	5	1/2″			
BPN-CM5-R012	77-89	172	216	287	430	5	1/2″	BDP-AR5715	TDA-119	LLT-25
BPN-CM5-R013		464	508	579	722	5	1/2″			
BPN-CM5-R014		660	705	776	919	5	1/2″			
BPN-CM5-R015		889	933	1005	1148	5	1/2″			
BPN-CM5-R016	89-101	172	225	297	440	5	1/2″	BDP-AR5715	TDA-119	LLT-25
BPN-CM5-R017		556	610	681	824	5	1/2″			
BPN-CM5-R018		685	740	811	954	5	1/2″			
BPN-CM5-R019		939	994	1065	1208	5	1/2″			
BPN-CM5-R020	101-114	172	225	297	440	5	1/2″	BDP-AR5715	TDA-119	LLT-25
BPN-CM5-R021		556	610	681	824	5	1/2″			
BPN-CM5-R022		685	740	811	954	5	1/2″			
BPN-CM5-R023		939	994	1065	1208	5	1/2″			

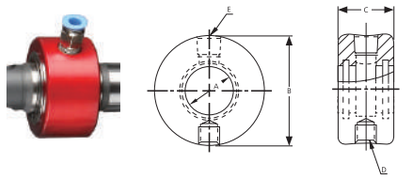
Varilla de tope para Broca de Punta Intercambiable



REFERENCIA	Rosca	Longitud	Para Modelo
BPN-M8-250	M8X1.25	250	BDP-AR1905
BPN-M8-250	M8X1.25	250	BDP-AR2504
BPN-M10-250	M10X1.5	250	BDP-AR3175
BPN-M10-250	M10X1.5	250	BDP-AR4445
BPN-M12-250	M12X1.75	250	BDP-AR5715

Anillo para Refrigeración de brocas

REFERENCIA	A	B	C	D	E
BDP-AR1905	19.05	44.45	22.23	M8X1.25	1/8″
BDP-AR2504	25.40	53.97	28.57	M8X1.25	1/8″
BDP-AR3175	31.75	63.50	34.92	M10X1.5	1/4″
BDP-AR4445	44.45	76.20	34.92	M10X1.5	1/4″
BDP-AR5715	57.15	95.27	44.45	M12X1.75	1/2″



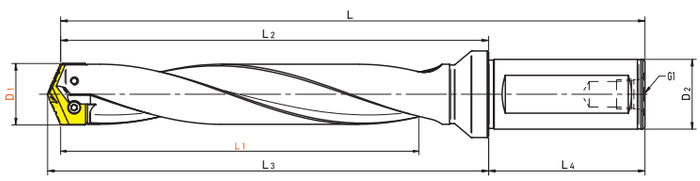
Tornillos / Llave de recambio para Brocas de punta Intercambiable

REFERENCIA
TDA-116
TDA-117
TDA-118
TDA-119
TDA-120
TDA-121
TDA-122
TDA-123



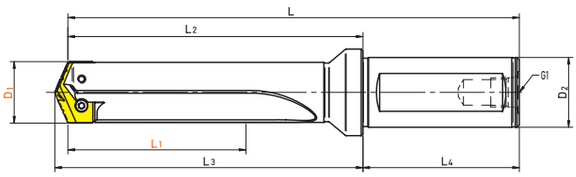
REFERENCIA	Par Apriete N/m
LLT-7	0.5
LLT-8	1.0
LLT-9	1.8
LLT-15	3.5
LLT-20	5.0
LLT-25	7.0

Brocas punta intercambiable - Amarre Plano - Tipo Espiral



REFERENCIA	D1	L1	L2	L3	L	D2	L4	G1	TORNILLO	LLAVE
BPN-D20-E001	9.5-11	60	90	92	140	20	50	1/8″	TDA-120	LLT-7
BPN-D20-E002		111	141	143	191					
BPN-D20-E003	11.5-12.5	60	90	92	140	20	50	1/8″	TDA-121	LLT-7
BPN-D20-E004		111	141	143	191					
BPN-D20-E005	13-15	64	92	95	142	20	50	1/8″	TDA-122	LLT-8
BPN-D20-E006		114	143	146	193					
BPN-D20-E007		178	206	209	256					
BPN-D20-E008	15.5-17.5	64	92	95	142	20	50	1/8″	TDA-123	LLT-8
BPN-D20-E009		114	143	143	193					
BPN-D20-E010		178	206	209	256					
BPN-D25-E001	18-21.5	118	155	158	211	25	56	1/8″	TDA-116	LLT-9
BPN-D25-E002		168	206	209	262					
BPN-D25-E003		270	307	311	363					
BPN-D25-E004	22-24	118	155	158	211	25	56	1/8″	TDA-116	LLT-9
BPN-D25-E005		168	206	209	262					
BPN-D25-E006		270	307	311	363					
BPN-D25-E007	25-29	137	179	183	239	32	60	1/4″	TDA-117	LLT-15
BPN-D32-E001		187	230	234	290					
BPN-D32-E002		289	332	335	392					
BPN-D32-E003	30-35	137	179	183	239	32	60	1/4″	TDA-117	LLT-15
BPN-D32-E004		187	230	234	290					
BPN-D32-E005		289	332	335	392					
BPN-D32-E006	36-41	165	218	222	288	40	70	1/4″	TDA-118	LLT-20
BPN-D40-E001		210	262	267	332					
BPN-D40-E002	42-47	165	218	222	288	40	70	1/4″	TDA-118	LLT-20
BPN-D40-E003		210	262	267	332					
BPN-D40-E004	48-55	232	284	286	351	40	70	1/4″	TDA-118	LLT-20
BPN-D40-E005	56-65	232	281	286	351	40	70	1/4″	TDA-118	LLT-20

Brocas punta intercambiable - Amarre Plano - Tipo Recto

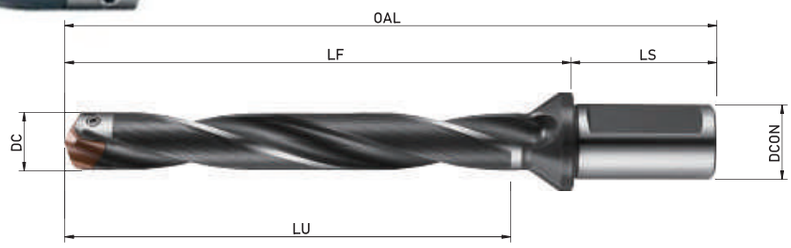


REFERENCIA	D1	L1	L2	L3	L	D2	L4	G1	TORNILLO	LLAVE
BPN-D16-R001	9.5-11	19	48	50	96	16	48	1/16″	TDA-120	LLT-7
BPN-D20-R001		32	61	64	111	20	50	1/8″		
BPN-D20-R002		222	252	254	302					
BPN-D20-R003		290	320	322	370					
BPN-D16-R002	11.5-12.5	19	48	50	96	16	48	1/16″	TDA-121	LLT-7
BPN-D20-R004		32	61	64	111	20	50	1/8″		
BPN-D20-R005		222	252	254	310					
BPN-D20-R006		290	320	322	370					
BPN-D20-R007	13-15	22	48	50	98	20	50	1/8″	TDA-122	LLT-8
BPN-D20-R008		35	64	66	114					
BPN-D20-R009		295	324	327	374					
BPN-D20-R010		387	416	419	466					
BPN-D20-R011	15.5-17.5	22	48	50	98	20	50	1/8″	TDA-123	LLT-8
BPN-D20-R012		35	64	66	114					
BPN-D20-R013		295	324	327	374					
BPN-D20-R014		387	416	419	466					
BPN-D25-R001	18-21	48	76	79	132	25	56	1/8″	TDA-116	LLT-9
BPN-D25-R002		67	107	111	163					
BPN-D25-R003		457	495	498	551					
BPN-D25-R004		569	603	606	659					
BPN-D25-R005	22-24.5	48	76	79	132	25	56	1/8″	TDA-116	LLT-9
BPN-D25-R006		67	107	111	163					
BPN-D25-R007		457	495	498	551					
BPN-D25-R008		569	603	606	659					
BPN-D32-R001	25-29	57	89	92	149	32	60	1/4″	TDA-117	LLT-15
BPN-D32-R002		86	129	132	189					
BPN-D32-R003		511	554	558	614					
BPN-D32-R004		692	735	739	795					
BPN-D32-R005	30-35	57	89	92	149	32	60	1/4″	TDA-117	LLT-15
BPN-D32-R006		86	129	132	189					
BPN-D32-R007		511	554	558	614					
BPN-D32-R008		692	735	739	795					
BPN-D40-R001	36-41	76	125	130	195	40	70	1/4″	TDA-118	LLT-20
BPN-D40-R002		121	173	178	243					
BPN-D40-R003		349	402	406	472					
BPN-D40-R004		559	611	616	681					
BPN-D40-R005		787	840	845	910					
BPN-D40-R006	42-47	76	125	130	195	40	70	1/4″	TDA-118	LLT-20
BPN-D40-R007		121	173	178	243					
BPN-D40-R008		349	402	406	472					
BPN-D40-R009		559	611	616	681					
BPN-D40-R010		787	840	845	910					
BPN-D40-R011	48-55	130	179	184	249	40	70	1/4″	TDA-118	LLT-20
BPN-D40-R012		422	472	476	545					
BPN-D40-R013		625	675	680	745					
BPN-D40-R014		879	929	934	999					
BPN-D40-R015	56-65	130	179	184	249	40	70	1/4″	TDA-118	LLT-20
BPN-D40-R016		422	472	476	545					
BPN-D40-R017		625	675	680	745					
BPN-D40-R018		879	929	934	999					

BPN - Broca Intercambiable Inserto - 3xD / 5xD / 8xD



- LU - Longitud de Corte
- øDcon - Diámetro Amarre Weldon
- LF - Longitud hasta tope amarre
- LS - Longitud mango de amarre
- OAL - Longitud total broca



Referencia	Rango	Rango	LU	øDcon	LF	OAL	LS
BPN3XD-10	10-10.2	3D	31.5	16	48	96	48
BPN5XD-10		5D	52.5	16	69	117	48
BPN8XD-10		8D	84.0	16	100	148	48
BPN3XD-105	10.5	3D	33.0	16	50	98	48
BPN5XD-105		3D	55.0	16	50	98	48
BPN8XD-105		5D	88.0	16	105	153	48
BPN3XD-11	11.0	3D	34.5	16	52	100	48
BPN5XD-11		5D	57.5	16	75	123	48
BPN8XD-11		8D	92.0	16	110	158	48
BPN3XD-115	11.5	3D	36.0	16	54	102	48
BPN5XD-115		5D	60.0	16	78	126	48
BPN8XD-115		8D	960	16	114	162	48
BPN3XD-12	12.0	3D	37.5	16	57	105	48
BPN5XD-12		5D	62.5	16	82	130	48
BPN8XD-12		8D	100.0	16	119	167	48
BPN3XD-125	12.5	3D	39.0	16	59	107	48
BPN5XD-125		5D	65.0	16	85	133	48
BPN8XD-125		8D	104.0	16	124	172	48
BPN3XD-13	13.0	3D	40.5	16	61	109	48
BPN5XD-13		5D	67.5	16	88	136	48
BPN8XD-13		8D	108.0	16	128	176	48
BPN3XD-135	13.5	3D	42.0	16	63	111	48
BPN5XD-135		5D	70.0	16	91	139	48
BPN8XD-135		8D	112.0	16	133	181	48
BPN3XD-14	14.0	3D	43.5	16	65	113	48
BPN5XD-14		5D	72.5	16	94	142	48
BPN8XD-14		8D	116.0	16	138	186	48
BPN3XD-145	14.5	3D	45.0	16	67	115	48
BPN5XD-145		5D	75.0	16	97	145	48
BPN8XD-145		8D	120.0	16	142	190	48
BPN3XD-15	15.0/15.5	3D	48.0	20	72	122	50
BPN5XD-15		5D	80.0	20	104	154	50
BPN8XD-15		8D	128.0	20	152	202	50
BPN3XD-16	16.0/16.5	3D	51.0	20	77	127	50
BPN5XD-16		5D	85.0	20	111	161	50
BPN8XD-16		8D	140.0	20	162	212	50
BPN3XD-17	17.0/17.5	3D	54.0	20	81	131	50
BPN5XD-17		5D	90.0	20	117	167	50
BPN8XD-17		8D	144.0	20	171	221	50
BPN3XD-18	18.0/18.5	3D	57.0	25	85	141	56
BPN5XD-18		5D	95.0	25	123	179	56
BPN8XD-18		8D	152.0	25	180	236	56
BPN3XD-19	19.0/19.5	3D	60.0	25	90	146	56
BPN5XD-19		5D	100.0	25	130	186	56
BPN8XD-19		8D	160.0	25	190	246	56

BPN - Broca Intercambiable Inserto - 3xD / 5xD / 8xD - CONTINUACIÓN

Referencia	Rango	Rango	LU	øDcon	LF	OAL	LS
BPN3XD-20	20.0/20.5	3D	63.0	25	94	150	56
BPN5XD-20		5D	105.0	25	136	192	56
BPN8XD-20		8D	168.0	25	199	255	56
BPN3XD-21	21.0/21.5	3D	66.0	25	98	154	56
BPN5XD-21		5D	110.0	25	142	198	56
BPN8XD-21		8D	176.0	25	208	264	56
BPN3XD-22	22.0/22.5	3D	69.0	25	102	158	56
BPN5XD-22		5D	115.0	25	148	204	56
BPN8XD-22		8D	184.0	25	217	273	56
BPN3XD-23	23.0/23.5	3D	72.0	25	107	163	56
BPN5XD-23		5D	120.0	25	155	211	56
BPN8XD-23		8D	192.0	25	227	283	56
BPN3XD-24	24.0/24.5	3D	75.0	32	112	172	60
BPN5XD-24		5D	125.0	32	162	222	60
BPN8XD-24		8D	200.0	32	237	297	60
BPN3XD-25	25.0/25.5	3D	78.0	32	116	176	60
BPN5XD-25		5D	130.0	32	168	228	60
BPN8XD-25		8D	208.0	32	246	306	60
BPN3XD-26	26.0/26.5	3D	81.0	32	121	181	60
BPN5XD-26		5D	135.0	32	175	235	60
BPN8XD-26		8D	216.0	32	256	316	60
BPN3XD-27	27.0/27.5	3D	84.0	32	125	185	60
BPN5XD-27		5D	140.0	32	181	241	60
BPN8XD-27		8D	224.0	32	265	325	60
BPN3XD-28	28.0/28.5	3D	87.0	32	129	189	60
BPN5XD-28		5D	145.0	32	187	247	60
BPN8XD-28		8D	232.0	32	274	334	60
BPN3XD-29	29.0/29.5	3D	90.0	32	133	193	60
BPN5XD-29		5D	150.0	32	193	253	60
BPN8XD-29		8D	240.0	32	283	343	60
BPN3XD-30	30.0/30.5	3D	93.0	32	138	198	60
BPN5XD-30		5D	155.0	32	200	260	60
BPN8XD-30		8D	248.0	32	293	353	60
BPN3XD-31	31.0/31.5	3D	96.0	32	142	202	60
BPN5XD-31		5D	160.0	32	206	266	60
BPN8XD-31		8D	256.0	32	302	362	60
BPN3XD-32	32.0/32.5	3D	96.0	32	146	206	60
BPN5XD-32		5D	165.0	32	212	272	60
BPN8XD-32		8D	264.0	32	311	371	60
BPN3XD-33	33.0/33.5	3D	102.0	32	151	211	60
BPN5XD-33		5D	170.0	32	219	279	60
BPN8XD-33		8D	272.0	32	321	381	60
BPN3XD-34	34.0/34.5	3D	105.0	40	156	226	70
BPN5XD-34		5D	175.0	40	224	294	70
BPN8XD-34		8D	280.0	40	329	399	70
BPN3XD-35	35.0/35.5	3D	108.0	40	160	230	70
BPN5XD-35		5D	180.0	40	230	300	70
BPN8XD-35		8D	288.0	40	338	408	70
BPN3XD-36	36.0/36.5	3D	110.0	40	164	234	70
BPN5XD-36		5D	185.0	40	236	306	70
BPN8XD-36		8D	296.0	40	347	417	70
BPN3XD-37	37.0/37.5	3D	114.0	40	169	239	70
BPN5XD-37		5D	190.0	40	243	313	70
BPN8XD-37		8D	304.0	40	357	427	70
BPN3XD-38	38.0/38.5	3D	117.0	40	173	243	70
BPN5XD-38		5D	195.0	40	249	319	70
BPN8XD-38		8D	312.0	40	366	436	70
BPN5XD-39	39.0	3D	123.0	40	182	252	70
BPN5XD-395	39.5	5D	205.0	40	262	332	70

Cuchilla para broca intercambiable CPX

Diámetro ø	Para Acero CPX-P	Para Inox CPX-M	Para Fundición CPX-K
10.00	CPX-P100	CPX-M100	CPX-K100
10.20	CPX-P102	CPX-M102	CPX-K102
10.50	CPX-P105	CPX-M105	CPX-K105
11.00	CPX-P110	CPX-M110	CPX-K110
11.50	CPX-P115	CPX-M115	CPX-K115
12.00	CPX-P120	CPX-M120	CPX-K120
12.50	CPX-P125	CPX-M125	CPX-K125
13.00	CPX-P130	CPX-M130	CPX-K130
13.50	CPX-P135	CPX-M135	CPX-K135
14.00	CPX-P140	CPX-M140	CPX-K140
14.50	CPX-P145	CPX-M145	CPX-K145
15.00	CPX-P150	CPX-M150	CPX-K150
15.50	CPX-P155	CPX-M155	CPX-K155
16.00	CPX-P160	CPX-M160	CPX-K160
16.50	CPX-P165	CPX-M165	CPX-K165
17.00	CPX-P170	CPX-M170	CPX-K170
17.50	CPX-P175	CPX-M175	CPX-K175
18.00	CPX-P180	CPX-M180	CPX-K180
18.50	CPX-P185	CPX-M185	CPX-K185
19.00	CPX-P190	CPX-M190	CPX-K190
19.50	CPX-P195	CPX-M195	CPX-K195
20.00	CPX-P200	CPX-M200	CPX-K200
20.50	CPX-P205	CPX-M205	CPX-K205
21.00	CPX-P210	CPX-M210	CPX-K210
21.50	CPX-P215	CPX-M215	CPX-K215
22.00	CPX-P220	CPX-M220	CPX-K220
22.50	CPX-P225	CPX-M225	CPX-K225
23.00	CPX-P230	CPX-M230	CPX-K230
23.50	CPX-P235	CPX-M235	CPX-K235
24.00	CPX-P240	CPX-M240	CPX-K240
24.50	CPX-P245	CPX-M245	CPX-K245
25.00	CPX-P250	CPX-M250	CPX-K250
25.50	CPX-P255	CPX-M255	CPX-K255
26.00	CPX-P260	CPX-M260	CPX-K260
26.50	CPX-P265	CPX-M265	CPX-K265
27.00	CPX-P270	CPX-M270	CPX-K270
27.50	CPX-P275	CPX-M275	CPX-K275
28.00	CPX-P280	CPX-M280	CPX-K280
28.50	CPX-P285	CPX-M285	CPX-K285
29.00	CPX-P290	CPX-M290	CPX-K290
29.50	CPX-P295	CPX-M295	CPX-K295
30.00	CPX-P300	CPX-M300	CPX-K300
30.50	CPX-P305	CPX-M305	CPX-K305
31.00	CPX-P310	CPX-M310	CPX-K310
31.50	CPX-P315	CPX-M315	CPX-K315
32.00	CPX-P320	CPX-M320	CPX-K320
32.50	CPX-P325	CPX-M325	CPX-K325
33.00	CPX-P330	CPX-M330	CPX-K330
33.50	CPX-P335	CPX-M335	CPX-K335
34.00	CPX-P340	CPX-M340	CPX-K340
34.50	CPX-P345	CPX-M345	CPX-K345
35.00	CPX-P350	CPX-M350	CPX-K350
35.50	CPX-P355	CPX-M355	CPX-K355
36.00	CPX-P360	CPX-M360	CPX-K360
36.50	CPX-P365	CPX-M365	CPX-K365
37.00	CPX-P370	CPX-M370	CPX-K370
37.50	CPX-P375	CPX-M375	CPX-K375
38.00	CPX-P380	CPX-M380	CPX-K380
39.00	CPX-P390	CPX-M390	CPX-K390



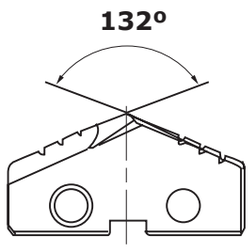




Cuchilla para broca intercambiable NPX25

Referencia NPX	Diámetro ø
NPX25-100	10.00
NPX25-102	10.20
NPX25-105	10.50
NPX25-110	11.00
NPX25-115	11.50
NPX25-120	12.00
NPX25-125	12.50
NPX25-130	13.00
NPX25-135	13.50
NPX25-140	14.00
NPX25-145	14.50
NPX25-150	15.00
NPX25-155	15.50
NPX25-160	16.00
NPX25-165	16.50
NPX25-170	17.00
NPX25-175	17.50
NPX25-180	18.00
NPX25-185	18.50
NPX25-190	19.00
NPX25-195	19.50
NPX25-200	20.00
NPX25-205	20.50
NPX25-210	21.00
NPX25-215	21.50
NPX25-220	22.00
NPX25-225	22.50
NPX25-230	23.00
NPX25-235	23.50
NPX25-240	24.00
NPX25-245	24.50
NPX25-250	25.00
NPX25-255	25.50
NPX25-260	26.00
NPX25-265	26.50
NPX25-270	27.00
NPX25-275	27.50
NPX25-280	28.00
NPX25-285	28.50
NPX25-290	29.00
NPX25-295	29.50
NPX25-300	30.00
NPX25-305	30.50
NPX25-310	31.00
NPX25-315	31.50
NPX25-320	32.00
NPX25-325	32.50
NPX25-330	33.00
NPX25-335	33.50
NPX25-340	34.00
NPX25-345	34.50
NPX25-350	35.00
NPX25-360	36.00
NPX25-370	37.00
NPX25-380	38.00
NPX25-390	39.00
NPX25-400	40.00

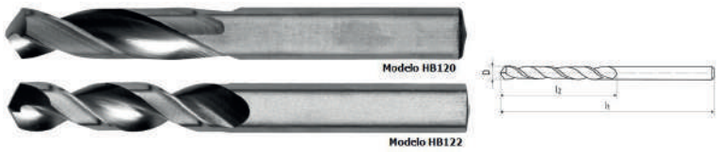




Referencia NPX	Diámetro ø
NPX25-410	41.00
NPX25-420	42.00
NPX25-430	43.00
NPX25-440	44.00
NPX25-450	45.00
NPX25-460	46.00
NPX25-470	47.00
NPX25-480	48.00
NPX25-490	49.00
NPX25-500	50.00

Broca Cilíndrica HSS Serie Extra-Corta

- HB120 > DIN 1897 -Tipo N - Punta 118º -Hélice 25/30º - HSS
- HB122 > DIN 1897 -Tipo GT100-C - Punta 128º -Hélice 39º - HSS-CO5



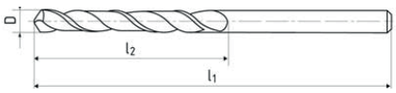
Referencia HSS	Referencia HSS-CO5	Ø D	I1 Long. Total	I2 Long. Corte
HB120.0100	-	1	26	6
HB120.0110	-	1.1	28	7
HB120.0120	-	1.2	30	8
HB120.0125	-	1.25	30	8
HB120.0130	-	1.3	30	8
HB120.0140	-	1.4	32	9
HB120.0150	-	1.5	32	9
HB120.0160		1.6	34	10
HB120.0170	-	1.7	34	10
HB120.0175	-	1.75	36	11
HB120.0180	-	1.8	36	11
HB120.0190	-	1.9	36	11
HB120.0200	HB122.0200	2	38	12
HB120.0210	HB122.0210	2.1	38	12
HB120.0220	HB122.0220	2.2	40	13
HB120.0225	HB122.0225	2.25	40	13
HB120.0230	HB122.0230	2.3	40	13
HB120.0240	HB122.0240	2.4	43	14
HB120.0250	HB122.0250	2.5	43	14
HB120.0260	HB122.0260	2.6	43	14
HB120.0270	HB122.0270	2.7	46	16
HB120.0275	HB122.0275	2.75	46	16
HB120.0280	HB122.0280	2.8	46	16
HB120.0290	HB122.0290	2.9	46	16
HB120.0300	HB122.0300	3	46	16
HB120.0310	HB122.0310	3.1	49	18
HB120.0320	HB122.0320	3.2	49	18
HB120.0325	HB122.0325	3.25	49	18
HB120.0330	HB122.0330	3.3	49	18
HB120.0340	HB122.0340	3.4	52	20
HB120.0350	HB122.0350	3.5	52	20
HB120.0360	HB122.0360	3.6	52	20
HB120.0370	HB122.0370	3.7	52	20
HB120.0375	HB122.0375	3.75	52	20
HB120.0380	HB122.0380	3.8	55	22
HB120.0390	HB122.0390	3.9	55	22
HB120.0400	HB122.0400	4	55	22
HB120.0410	HB122.0410	4.1	55	22
HB120.0420	HB122.0420	4.2	55	22
HB120.0425	HB122.0425	4.25	55	22
HB120.0430	HB122.0430	4.3	58	24
HB120.0440	HB122.0440	4.4	58	24
HB120.0450	HB122.0450	4.5	58	24
HB120.0460	HB122.0460	4.6	58	24
HB120.0470	HB122.0470	4.7	58	24
HB120.0475	HB122.0475	4.75	58	24
HB120.0480	HB122.0480	4.8	62	26
HB120.0490	HB122.0490	4.9	62	26
HB120.0500	HB122.0500	5	62	26
HB120.0510	HB122.0510	5.1	62	26
HB120.0520	HB122.0520	5.2	62	26
HB120.0525	HB122.0525	5.25	62	26
HB120.0530	HB122.0530	5.3	62	26
HB120.0540	HB122.0540	5.4	66	28
HB120.0550	HB122.0550	5.5	66	28
HB120.0560	HB122.0560	5.6	66	28
HB120.0570	HB122.0570	5.7	66	28
HB120.0580	HB122.0580	5.8	66	28

Referencia HSS	Referencia HSS-CO5	Ø D	I1 Long. Total	I2 Long. Corte
HB120.0590	HB122.0590	5.9	66	28
HB120.0600	HB122.0600	6	66	28
HB120.0610	HB122.0610	6.1	70	31
HB120.0620	HB122.0620	6.2	70	31
HB120.0630	HB122.0630	6.3	70	31
HB120.0640	HB122.0640	6.4	70	31
HB120.0650	HB122.0650	6.5	70	31
HB120.0660	HB122.0660	6.6	70	31
HB120.0670	HB122.0670	6.7	70	31
HB120.0680	HB122.0680	6.8	74	34
HB120.0690	HB122.0690	6.9	74	34
HB120.0700	HB122.0700	7	74	34
HB120.0710	HB122.0710	7.1	74	34
HB120.0720	HB122.0720	7.2	74	34
HB120.0730	HB122.0730	7.3	74	34
HB120.0740	HB122.0740	7.4	74	34
HB120.0750	HB122.0750	7.5	74	34
HB120.0760	HB122.0760	7.6	79	37
HB120.0770	HB122.0770	7.7	79	37
HB120.0780	HB122.0780	7.8	79	37
HB120.0790	HB122.0790	7.9	79	37
HB120.0800	HB122.0800	8	79	37
HB120.0810	HB122.0810	8.1	79	37
HB120.0820	HB122.0820	8.2	79	37
HB120.0830	HB122.0830	8.3	79	37
HB120.0840	HB122.0840	8.4	79	37
HB120.0850	HB122.0850	8.5	79	37
HB120.0860	HB122.0860	8.6	84	40
HB120.0870	HB122.0870	8.7	84	40
HB120.0880	HB122.0880	8.8	84	40
HB120.0890	HB122.0890	8.9	84	40
HB120.0900	HB122.0900	9	84	40
HB120.0910	HB122.0910	9.1	84	40
HB120.0920	HB122.0920	9.2	84	40
HB120.0930	HB122.0930	9.3	84	40
HB120.0940	HB122.0940	9.4	84	40
HB120.0950	HB122.0950	9.5	84	40
HB120.0960	HB122.0960	9.6	89	43
HB120.0970	HB122.0970	9.7	89	43
HB120.0980	HB122.0980	9.8	89	43
HB120.0990	HB122.0990	9.9	89	43
HB120.1000	HB122.1000	10	89	43
HB120.1020	HB122.1020	10.2	89	43
HB120.1050	HB122.1050	10.5	89	43
HB120.1080	HB122.1080	10.8	95	47
HB120.1100	HB122.1100	11	95	47
HB120.1120	HB122.1120	11.2	95	47
HB120.1150	HB122.1150	11.5	95	47
HB120.1180	HB122.1180	11.8	95	47
HB120.1200	HB122.1200	12	102	51
HB120.1220	HB122.1220	12.2	102	51
HB120.1250	HB122.1250	12.5	102	51
HB120.1280	HB122.1280	12.8	102	51
HB120.1300	HB122.1300	13	102	51
HB120.1320	HB122.1320	13.2	102	51
HB120.1350	HB122.1350	13.5	107	54
HB120.1380	HB122.1380	13.8	107	54
HB120.1400	HB122.1400	14	107	54

Broca Cilíndrica HSS - Serie Estándar

- HB124 > DIN 338 -Tipo N - Punta 118º - HSS
- HB126 > DIN 338 -Tipo C - Punta 128º - HSS-CO5





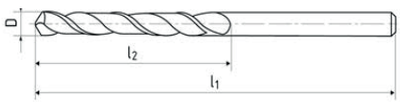
Referencia HSS	Referencia HSS-CO5	Ø D	I1 Long. Total	I2 Long. Corte
HB124.0030	-	0,3	19	4
HB124.0035	-	0,35	19	4
HB124.0040	-	0,4	20	5
HB124.0045	-	0,45	20	5
HB124.0050	-	0,5	22	6
HB124.0055	-	0,55	24	7
HB124.0060	-	0,6	24	7
HB124.0065	-	0,65	26	8
HB124.0070	-	0,7	28	9
HB124.0075	-	0,75	28	9
HB124.0080	-	0,8	30	10
HB124.0085	-	0,85	30	10
HB124.0090	-	0,9	32	11
HB124.0095	-	0,95	32	11
HB124.0100	HB126.0100	1	34	12
HB124.0105	-	1,05	34	12
HB124.0110	HB126.0110	1,1	36	14
HB124.0115	-	1,15	36	14
HB124.0120	HB126.0120	1,2	38	16
HB124.0125	-	1,25	38	16
HB124.0130	HB126.0130	1,3	38	16
HB124.0135	-	1,35	40	18
HB124.0140	HB126.0140	1,4	40	18
HB124.0145	-	1,45	40	18
HB124.0150	HB126.0150	1,5	40	18
HB124.0155	-	1,55	43	20
HB124.0160	HB126.0160	1,6	43	20
HB124.0165	-	1,65	43	20
HB124.0170	HB126.0170	1,7	43	20
HB124.0175	-	1,75	46	22
HB124.0180	HB126.0180	1,8	46	22
HB124.0185	-	1,85	46	22
HB124.0190	HB126.0190	1,9	46	22
HB124.0195	-	1,95	49	24
HB124.0200	HB126.0200	2	49	24
HB124.0205	-	2,05	49	24
HB124.0210	HB126.0210	2,1	49	24
HB124.0215	-	2,15	53	27
HB124.0220	HB126.0220	2,2	53	27
HB124.0225	-	2,25	53	27
HB124.0230	HB126.0230	2,3	53	27
HB124.0235	-	2,35	53	27
HB124.0240	HB126.0240	2,4	57	30
HB124.0245	-	2,45	57	30
HB124.0250	HB126.0250	2,5	57	30
HB124.0255	-	2,55	57	30
HB124.0260	HB126.0260	2,6	57	30
HB124.0265	-	2,65	57	30
HB124.0270	HB126.0270	2,7	61	33
HB124.0275	-	2,75	61	33
HB124.0280	HB126.0280	2,8	61	33
HB124.0285	-	2,85	61	33
HB124.0290	HB126.0290	2,9	61	33
HB124.0295	-	2,95	61	33
HB124.0300	HB126.0300	3	61	33
HB124.0310	HB126.0310	3,1	65	36

Referencia HSS	Referencia HSS-CO5	Ø D	I1 Long. Total	I2 Long. Corte
HB124.0320	HB126.0320	3,2	65	36
HB124.0330	HB126.0330	3,3	65	36
HB124.0340	HB126.0340	3,4	70	39
HB124.0350	HB126.0350	3,5	70	39
HB124.0360	HB126.0360	3,6	70	39
HB124.0370	HB126.0370	3,7	70	39
HB124.0380	HB126.0380	3,8	75	43
HB124.0390	HB126.0390	3,9	75	43
HB124.0400	HB126.0400	4	75	43
HB124.0410	HB126.0410	4,1	75	43
HB124.0420	HB126.0420	4,2	75	43
HB124.0430	HB126.0430	4,3	80	47
HB124.0440	HB126.0440	4,4	80	47
HB124.0450	HB126.0450	4,5	80	47
HB124.0460	HB126.0460	4,6	80	47
HB124.0470	HB126.0470	4,7	80	47
HB124.0480	HB126.0480	4,8	86	52
HB124.0490	HB126.0490	4,9	86	52
HB124.0500	HB126.0500	5	86	52
HB124.0510	HB126.0510	5,1	86	52
HB124.0520	HB126.0520	5,2	86	52
HB124.0530	HB126.0530	5,3	86	52
HB124.0540	HB126.0540	5,4	93	57
HB124.0540	HB126.0540	5,5	93	57
HB124.0560	HB126.0560	5,6	93	57
HB124.0570	HB126.0570	5,7	93	57
HB124.0580	HB126.0580	5,8	93	57
HB124.0590	HB126.0590	5,9	93	57
HB124.0600	HB126.0600	6	93	57
HB124.0610	HB126.0610	6,1	101	63
HB124.0620	HB126.0620	6,2	101	63
HB124.0630	HB126.0630	6,3	101	63
HB124.0640	HB126.0640	6,4	101	63
HB124.0650	HB126.0650	6,5	101	63
HB124.0660	HB126.0660	6,6	101	63
HB124.0670	HB126.0670	6,7	101	63
HB124.0680	HB126.0680	6,8	109	69
HB124.0690	HB126.0690	6,9	109	69
HB124.0700	HB126.0700	7	109	69
HB124.0710	HB126.0710	7,1	109	69
HB124.0720	HB126.0720	7,2	109	69
HB124.0730	HB126.0730	7,3	109	69
HB124.0740	HB126.0740	7,4	109	69
HB124.0750	HB126.0750	7,5	109	69
HB124.0760	HB126.0760	7,6	117	75
HB124.0770	HB126.0770	7,7	117	75
HB124.0780	HB126.0780	7,8	117	75
HB124.0790	HB126.0790	7,9	117	75
HB124.0800	HB126.0800	8	117	75
HB124.0810	HB126.0810	8,1	117	75
HB124.0820	HB126.0820	8,2	117	75
HB124.0830	HB126.0830	8,3	117	75
HB124.0840	HB126.0840	8,4	117	75
HB124.0850	HB126.0850	8,5	117	75

Broca Cilíndrica HSS - Serie Estándar

- HB124 > DIN 338 -Tipo N - Punta 118º - HSS
- HB126 > DIN 338 -Tipo C - Punta 128º - HSS-CO5





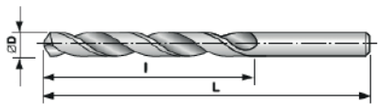
Referencia HSS	Referencia HSS-CO5	Ø D	I1 Long. Total	I2 Long. Corte
HB124.0860	HB126.0860	8,6	125	81
HB124.0870	HB126.0870	8,7	125	81
HB124.0880	HB126.0880	8,8	125	81
HB124.0890	HB126.0890	8,9	125	81
HB124.0900	HB126.0900	9	125	81
HB124.0910	HB126.0910	9,1	125	81
HB124.0920	HB126.0920	9,2	125	81
HB124.0930	HB126.0930	9,3	125	81
HB124.0940	HB126.0940	9,4	125	81
HB124.0950	HB126.0950	9,5	125	81
HB124.0960	HB126.0960	9,6	133	87
HB124.0970	HB126.0970	9,7	133	87
HB124.0980	HB126.0980	9,8	133	87
HB124.0990	HB126.0990	9,9	133	87
HB124.1000	HB126.1000	10	133	87
HB124.1010	-	10,1	133	87
HB124.1020	HB126.1020	10,2	133	87
HB124.1030	-	10,3	133	87
HB124.1040	-	10,4	133	87
HB124.1050	HB126.1050	10,5	133	87
HB124.1060	-	10,6	133	87
HB124.1070	-	10,7	142	94
HB124.1080	HB126.1080	10,8	142	94
HB124.1090	-	10,9	142	94
HB124.1100	HB126.1100	11	142	94
HB124.1110	-	11,1	142	94
HB124.1120	HB126.1120	11,2	142	94
HB124.1130	-	11,3	142	94
HB124.1140	-	11,4	142	94
HB124.1150	HB126.1150	11,5	142	94
HB124.1160	-	11,6	142	94
HB124.1170	-	11,7	142	94
HB124.1180	HB126.1180	11,8	142	94
HB124.1190	-	11,9	151	101
HB124.1200	HB126.1200	12	151	101
HB124.1210	-	12,1	151	101
HB124.1220	HB126.1220	12,2	151	101
HB124.1230	-	12,3	151	101
HB124.1240	-	12,4	151	101
HB124.1250	HB126.1250	12,5	151	101
HB124.1260	-	12,6	151	101
HB124.1270	-	12,7	151	101
HB124.1280	HB126.1280	12,8	151	101
HB124.1290	-	12,9	151	101

Referencia HSS	Referencia HSS-CO5	Ø D	I1 Long. Total	I2 Long. Corte
HB124.1300	HB126.1300	13	151	101
HB124.1310	-	13,1	151	101
HB124.1320	HB126.1320	13,2	151	101
HB124.1330	-	13,3	160	108
HB124.1340	-	13,4	160	108
HB124.1350	HB126.1350	13,5	160	108
HB124.1360	-	13,6	160	108
HB124.1370	-	13,7	160	108
HB124.1380	HB126.1380	13,8	160	108
HB124.1390	-	13,9	160	108
HB124.1400	HB126.1400	14	160	108
HB124.1410	-	14,1	169	114
HB124.1420	-	14,2	169	114
HB124.1425	-	14,25	169	114
HB124.1430	-	14,3	169	114
HB124.1440	-	14,4	169	114
HB124.1450	HB126.1450	14,5	169	114
HB124.1460	-	14,6	169	114
HB124.1470	-	14,7	169	114
HB124.1475	-	14,75	169	114
HB124.1480	-	14,8	169	114
HB124.1490	-	14,9	169	114
HB124.1500	HB126.1500	15	169	114
HB124.1525	-	15,25	178	120
HB124.1550	HB126.1550	15,5	178	120
HB124.1575	-	15,75	178	120
HB124.1600	HB126.1600	16	178	120
HB124.1625	-	16,25	184	125
HB124.1650	HB126.1650	16,5	184	125
HB124.1675	-	16,75	184	125
HB124.1700	HB126.1700	17	184	125
HB124.1725	-	17,25	191	130
HB124.1750	HB126.1750	17,5	191	130
HB124.1775	-	17,75	191	130
HB124.1800	HB126.1800	18	191	130
HB124.1825	-	18,25	198	135
HB124.1850	HB126.1850	18,5	198	135
HB124.1875	-	18,75	198	135
HB124.1900	HB126.1900	19	198	135
HB124.1925	-	19,25	205	140
HB124.1950	HB126.1950	19,5	205	140
HB124.1975	-	19,75	205	140
HB124.2000	HB126.2000	20	205	140

Broca HSS - Cilíndrica - DIN 338 - Recubrimiento Tin

• Características: DIN 338 -Tipo N - Punta 118º - HSS





Referencia	Ø D	L	l
HB125.0100	1,00	34	12
HB125.0105	1,05	34	12
HB125.0110	1,10	36	14
HB125.0115	1,15	36	14
HB125.0120	1,20	38	16
HB125.0125	1,25	38	16
HB125.0130	1,30	38	16
HB125.0135	1,35	40	18
HB125.0140	1,40	40	18
HB125.0145	1,45	40	18
HB125.0150	1,50	40	18
HB125.0155	1,55	43	20
HB125.0160	1,60	43	20
HB125.0165	1,65	43	20
HB125.0170	1,70	43	20
HB125.0175	1,75	46	22
HB125.0180	1,80	46	22
HB125.0185	1,85	46	22
HB125.0190	1,90	46	22
HB125.0195	1,95	49	24
HB125.0200	2,00	49	24
HB125.0205	2,05	49	24
HB125.0210	2,10	49	24
HB125.0215	2,15	53	27
HB125.0220	2,20	53	27
HB125.0225	2,25	53	27
HB125.0230	2,30	53	27
HB125.0235	2,35	53	27
HB125.0240	2,40	57	30
HB125.0245	2,45	57	30
HB125.0250	2,50	57	30
HB125.0255	2,55	57	30
HB125.0260	2,60	57	30
HB125.0265	2,65	57	30
HB125.0270	2,70	61	33
HB125.0275	2,75	61	33
HB125.0280	2,80	61	33
HB125.0285	2,85	61	33
HB125.0290	2,90	61	33
HB125.0295	2,95	61	33
HB125.0300	3,00	61	33
HB125.0310	3,10	65	36
HB125.0320	3,20	65	36
HB125.0330	3,30	65	36
HB125.0340	3,40	70	39
HB125.0350	3,50	70	39
HB125.0360	3,60	70	39
HB125.0370	3,70	70	39
HB125.0380	3,80	75	43
HB125.0390	3,90	75	43
HB125.0400	4,00	75	43
HB125.0410	4,10	75	43
HB125.0420	4,20	75	43
HB125.0430	4,30	80	47
HB125.0440	4,40	80	47
HB125.0450	4,50	80	47
HB125.0460	4,60	80	47
HB125.0470	4,70	80	47

Referencia	Ø D	L	l
HB125.0480	4,80	86	52
HB125.0490	4,90	86	52
HB125.0500	5,00	86	52
HB125.0510	5,10	86	52
HB125.0520	5,20	86	52
HB125.0530	5,30	86	52
HB125.0540	5,40	93	57
HB125.0550	5,50	93	57
HB125.0560	5,60	93	57
HB125.0570	5,70	93	57
HB125.0580	5,80	93	57
HB125.0590	5,90	93	57
HB125.0600	6,00	93	57
HB125.0610	6,10	101	63
HB125.0620	6,20	101	63
HB125.0630	6,30	101	63
HB125.0640	6,40	101	63
HB125.0650	6,50	101	63
HB125.0660	6,60	101	63
HB125.0670	6,70	101	63
HB125.0680	6,80	109	69
HB125.0690	6,90	109	69
HB125.0700	7,00	109	69
HB125.0710	7,10	109	69
HB125.0720	7,20	109	69
HB125.0730	7,30	109	69
HB125.0740	7,40	109	69
HB125.0750	7,50	109	69
HB125.0760	7,60	117	75
HB125.0770	7,70	117	75
HB125.0780	7,80	117	75
HB125.0790	7,90	117	75
HB125.0800	8,00	117	75
HB125.0810	8,10	117	75
HB125.0820	8,20	117	75
HB125.0830	8,30	117	75
HB125.0840	8,40	117	75
HB125.0850	8,50	117	75
HB125.0860	8,60	125	81
HB125.0870	8,70	125	81
HB125.0880	8,80	125	81
HB125.0890	8,90	125	81
HB125.0900	9,00	125	81
HB125.0910	9,10	125	81
HB125.0920	9,20	125	81
HB125.0930	9,30	125	81
HB125.0940	9,40	125	81
HB125.0950	9,50	125	81
HB125.0960	9,60	133	87
HB125.0970	9,70	133	87
HB125.0980	9,80	133	87
HB125.0990	9,90	133	87
HB125.1000	10,00	133	87
HB125.1010	10,10	133	87
HB125.1020	10,20	133	87
HB125.1030	10,30	133	87
HB125.1040	10,40	133	87
HB125.1050	10,50	133	87

Referencia	Ø D	L	l
HB125.1060	10,60	133	87
HB125.1070	10,70	142	94
HB125.1080	10,80	142	94
HB125.1090	10,90	142	94
HB125.1100	11,00	142	94
HB125.1110	11,10	142	94
HB125.1120	11,20	142	94
HB125.1130	11,30	142	94
HB125.1140	11,40	142	94
HB125.1150	11,50	142	94
HB125.1160	11,60	142	94
HB125.1170	11,70	142	94
HB125.1180	11,80	142	94
HB125.1190	11,90	151	101
HB125.1200	12,00	151	101
HB125.1210	12,10	151	101
HB125.1220	12,20	151	101
HB125.1230	12,30	151	101
HB125.1240	12,40	151	101
HB125.1250	12,50	151	101
HB125.1260	12,60	151	101
HB125.1270	12,70	151	101
HB125.1280	12,80	151	101
HB125.1290	12,90	151	101
HB125.1300	13,00	151	101
HB125.1310	13,10	151	101
HB125.1320	13,20	151	101
HB125.1330	13,30	160	108
HB125.1340	13,40	160	108
HB125.1350	13,50	160	108
HB125.1360	13,60	160	108
HB125.1370	13,70	160	108
HB125.1380	13,80	160	108
HB125.1390	13,90	160	108
HB125.1400	14,00	160	108
HB125.1410	14,10	169	114
HB125.1420	14,20	169	114
HB125.14250	14,25	169	114
HB125.1430	14,30	169	114
HB125.1440	14,40	169	114
HB125.1450	14,50	169	114
HB125.1460	14,60	169	114
HB125.1470	14,70	169	114
HB125.14750	14,75	169	114
HB125.1480	14,80	169	114
HB125.1490	14,90	169	114
HB125.1500	15,00	169	114
HB125.15250	15,25	178	120
HB125.1550	15,50	178	120
HB125.15750	15,75	178	120
HB125.1600	16,00	178	120
HB125.1700	17,00	184	125
HB125.1800	18,00	191	130
HB125.1900	19,00	198	135
HB125.2000	20,00	205	140

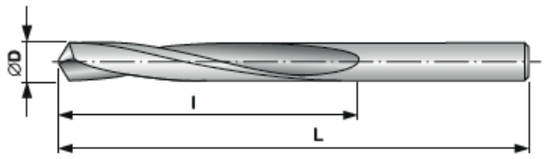
Broca HSS - Cilíndrica - DIN 338 - Otros Materiales



- **HB127** - Características: DIN 338 -Tipo W - Punta 135º - Hélice 40º
  Uso en Aluminio, Cobre y Plásticos Blandos
- **HB129** - Características: DIN 338 -Tipo H - Punta 118º - Hélice 12º -
  Uso en Mg , Cobre y Plásticos Duros

Referencia HB127	Referencia HB129	Ø D	L	l
HB127.0100	HB129.0100	1,00	34	12
HB127.0105	HB129.0105	1,10	36	14
HB127.0120	HB129.0120	1,20	38	16
HB127.0130	HB129.0130	1,30	38	16
HB127.0140	HB129.0140	1,40	40	18
HB127.0150	HB129.0150	1,50	40	18
HB127.0160	HB129.0160	1,60	43	20
HB127.0170	HB129.0170	1,70	43	20
HB127.0180	HB129.0180	1,80	46	22
HB127.0190	HB129.0190	1,90	46	22
HB127.0200	HB129.0200	2,00	49	24
HB127.0210	HB129.0210	2,10	49	24
HB127.0220	HB129.0220	2,20	53	27
HB127.0230	HB129.0230	2,30	53	27
HB127.0240	HB129.0240	2,40	57	30
HB127.0250	HB129.0250	2,50	57	30
HB127.0260	HB129.0260	2,60	57	30
HB127.0270	HB129.0270	2,70	61	33
HB127.0280	HB129.0280	2,80	61	33
HB127.0290	HB129.0290	2,90	61	33
HB127.0300	HB129.0300	3,00	61	33
HB127.0310	HB129.0310	3,10	65	36
HB127.0320	HB129.0320	3,20	65	36
HB127.0330	HB129.0330	3,30	65	36
HB127.0340	HB129.0340	3,40	70	39
HB127.0350	HB129.0350	3,50	70	39
HB127.0360	HB129.0360	3,60	70	39
HB127.0370	HB129.0370	3,70	70	39
HB127.0380	HB129.0380	3,80	75	43
HB127.0390	HB129.0390	3,90	75	43
HB127.0400	HB129.0400	4,00	75	43
HB127.0410	HB129.0410	4,10	75	43
HB127.0420	HB129.0420	4,20	75	43
HB127.0430	HB129.0430	4,30	80	47
HB127.0440	HB129.0440	4,40	80	47
HB127.0450	HB129.0450	4,50	80	47
HB127.0460	HB129.0460	4,60	80	47
HB127.0470	HB129.0470	4,70	80	47
HB127.0480	HB129.0480	4,80	86	52
HB127.0490	HB129.0490	4,90	86	52
HB127.0500	HB129.0500	5,00	86	52
HB127.0510	HB129.0510	5,10	86	52
HB127.0520	HB129.0520	5,20	86	52
HB127.0530	HB129.0530	5,30	86	52
HB127.0540	HB129.0540	5,40	93	57
HB127.0550	HB129.0550	5,50	93	57
HB127.0560	HB129.0560	5,60	93	57
HB127.0570	HB129.0570	5,70	93	57
HB127.0580	HB129.0580	5,80	93	57
HB127.0590	HB129.0590	5,90	93	57
HB127.0600	HB129.0600	6,00	93	57
HB127.0610	HB129.0610	6,10	101	63
HB127.0620	HB129.0620	6,20	101	63
HB127.0630	HB129.0630	6,30	101	63
HB127.0640	HB129.0640	6,40	101	63
HB127.0650	HB129.0650	6,50	101	63

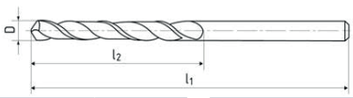
Referencia HB127	Referencia HB129	Ø D	L	l
HB127.0660	HB129.0660	6,60	101	63
HB127.0670	HB129.0670	6,70	101	63
HB127.0680	HB129.0680	6,80	109	69
HB127.0690	HB129.0690	6,90	109	69
HB127.0700	HB129.0700	7,00	109	69
HB127.0710	HB129.0710	7,10	109	69
HB127.0720	HB129.0720	7,20	109	69
HB127.0730	HB129.0730	7,30	109	69
HB127.0740	HB129.0740	7,40	109	69
HB127.0750	HB129.0750	7,50	109	69
HB127.0760	HB129.0760	7,60	117	75
HB127.0770	HB129.0770	7,70	117	75
HB127.0780	HB129.0780	7,80	117	75
HB127.0790	HB129.0790	7,90	117	75
HB127.0800	HB129.0800	8,00	117	75
HB127.0810	HB129.0810	8,10	117	75
HB127.0820	HB129.0820	8,20	117	75
HB127.0830	HB129.0830	8,30	117	75
HB127.0840	HB129.0840	8,40	117	75
HB127.0850	HB129.0850	8,50	117	75
HB127.0860	HB129.0860	8,60	125	81
HB127.0870	HB129.0870	8,70	125	81
HB127.0880	HB129.0880	8,80	125	81
HB127.0890	HB129.0890	8,90	125	81
HB127.0900	HB129.0900	9,00	125	81
HB127.0910	HB129.0910	9,10	125	81
HB127.0920	HB129.0920	9,20	125	81
HB127.0930	HB129.0930	9,30	125	81
HB127.0940	HB129.0940	9,40	125	81
HB127.0950	HB129.0950	9,50	125	81
HB127.0960	HB129.0960	9,60	133	87
HB127.0970	HB129.0970	9,70	133	87
HB127.0980	HB129.0980	9,80	133	87
HB127.0990	HB129.0990	9,90	133	87
HB127.1000	HB129.1000	10,00	133	87
HB127.1020	HB129.1020	10,20	133	87
HB127.1050	HB129.1050	10,50	133	87
HB127.1080	HB129.1080	10,80	142	94
HB127.1100	HB129.1100	11,00	142	94
HB127.1120	HB129.1120	11,20	142	94
HB127.1150	HB129.1150	11,50	142	94
HB127.1180	HB129.1180	11,80	142	94
HB127.1200	HB129.1200	12,00	151	101
HB127.1220	HB129.1220	12,20	151	101
HB127.1250	HB129.1250	12,50	151	101
HB127.1280	HB129.1280	12,80	151	101
HB127.1300	HB129.1300	13,00	151	101
HB127.1320	HB129.1320	13,20	151	101
HB127.1350	HB129.1350	13,50	160	108
HB127.1380	HB129.1380	13,80	160	108
HB127.1400	HB129.1400	14,00	160	108



Broca Cilíndrica HSS - Serie Estándar

• **HB128** > DIN 338 -Tipo C- Punta 128º - HSS-CO8





Referencia	Ø D	I1	I2
HB130.0300	3	61	33
HB130.0320	3,2	65	36
HB130.0330	3,3	65	36
HB130.0350	3,5	70	39
HB130.0400	4	75	43
HB130.0420	4,2	75	43
HB130.0450	4,5	80	47
HB130.0500	5	86	52
HB130.0510	5,1	86	52
HB130.0520	5,2	86	52
HB130.0550	5,5	93	57
HB130.0600	6	93	57
HB130.0650	6,5	101	63
HB130.0680	6,8	109	69

Referencia	Ø D	I1	I2
HB130.0700	7	109	69
HB130.0750	7,5	109	69
HB130.0800	8	117	75
HB130.0850	8,5	117	75
HB130.0900	9	125	81
HB130.0950	9,5	125	81
HB130.1000	10	133	87
HB130.1050	10,5	133	87
HB130.1100	11	142	94
HB130.1150	11,5	142	94
HB130.1200	12	151	101
HB130.1250	12,5	151	101
HB130.1300	13	151	101

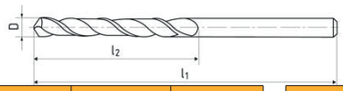
Referencia	Ø D	I1	I2
HB130.1350	13,5	160	108
HB130.1400	14	160	108
HB130.1450	14,5	169	114
HB130.1500	15	169	114
HB130.1550	15,5	178	120
HB130.1600	16	178	120
HB130.1650	16,5	184	125
HB130.1700	17	184	125
HB130.1750	17,5	191	130
HB130.1800	18	191	130
HB130.1850	18,5	198	135
HB130.1900	19	198	135
HB130.1950	19,5	205	140
HB130.2000	20	205	140

Broca Cilíndrica HSS - Serie Larga - DIN 340

• **HB134** > DIN 340 -Tipo N- Punta 128º - HSS-CO5%

• Aceros/Aceros resistentes/Inoxidables/Aluminio





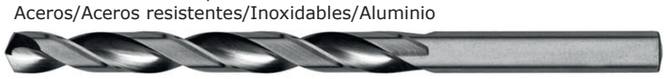
Referencia	Ø D	I1	I2
HB134.0090	0,9	52	30
HB134.0100	1	56	33
HB134.0110	1,1	60	37
HB134.0120	1,2	65	41
HB134.0130	1,3	65	41
HB134.0140	1,4	70	45
HB134.0150	1,5	70	45
HB134.0160	1,6	76	50
HB134.0170	1,7	76	50
HB134.0180	1,8	80	53
HB134.0190	1,9	80	53
HB134.0200	2	85	56
HB134.0210	2,1	85	56
HB134.0220	2,2	90	59
HB134.0230	2,3	90	59
HB134.0240	2,4	95	62
HB134.0250	2,5	95	62
HB134.0260	2,6	95	62
HB134.0270	2,7	100	66
HB134.0280	2,8	100	66
HB134.0290	2,9	100	66
HB134.0300	3	100	66
HB134.0310	3,1	106	69
HB134.0320	3,2	106	69
HB134.0330	3,3	106	69
HB134.0340	3,4	112	73
HB134.0350	3,5	112	73
HB134.0360	3,6	112	73
HB134.0370	3,7	112	73
HB134.0380	3,8	119	78
HB134.0390	3,9	119	78
HB134.0400	4	119	78
HB134.0410	4,1	119	78
HB134.0420	4,2	119	78
HB134.0430	4,3	126	82
HB134.0440	4,4	126	82
HB134.0450	4,5	126	82
HB134.0460	4,6	126	82

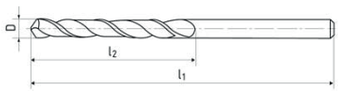
Referencia	Ø D	I1	I2
HB134.0470	4,7	126	82
HB134.0480	4,8	132	87
HB134.0490	4,9	132	87
HB134.0500	5	132	87
HB134.0510	5,1	132	87
HB134.0520	5,2	132	87
HB134.0530	5,3	132	87
HB134.0540	5,4	139	91
HB134.0550	5,5	139	91
HB134.0560	5,6	139	91
HB134.0570	5,7	139	91
HB134.0580	5,8	139	91
HB134.0590	5,9	139	91
HB134.0600	6	139	91
HB134.0610	6,1	148	97
HB134.0620	6,2	148	97
HB134.0630	6,3	148	97
HB134.0640	6,4	148	97
HB134.0650	6,5	148	97
HB134.0660	6,6	148	97
HB134.0670	6,7	148	97
HB134.0680	6,8	156	102
HB134.0690	6,9	156	102
HB134.0700	7	156	102
HB134.0710	7,1	156	102
HB134.0720	7,2	156	102
HB134.0730	7,3	156	102
HB134.0740	7,4	156	102
HB134.0750	7,5	156	102
HB134.0760	7,6	165	109
HB134.0770	7,7	165	109
HB134.0780	7,8	165	109
HB134.0790	7,9	165	109
HB134.0800	8	165	109
HB134.0810	8,1	165	109
HB134.0820	8,2	165	109
HB134.0830	8,3	165	109
HB134.0840	8,4	165	109

Referencia	Ø D	I1	I2
HB134.0850	8,5	165	109
HB134.0860	8,6	175	115
HB134.0870	8,7	175	115
HB134.0880	8,8	175	115
HB134.0890	8,9	175	115
HB134.0900	9	175	115
HB134.0910	9,1	175	115
HB134.0920	9,2	175	115
HB134.0930	9,3	175	115
HB134.0940	9,4	175	115
HB134.0950	9,5	175	115
HB134.0960	9,6	184	121
HB134.0970	9,7	184	121
HB134.0980	9,8	184	121
HB134.0990	9,9	184	121
HB134.1000	10	184	121
HB134.1010	10,1	184	121
HB134.1020	10,2	184	121
HB134.1030	10,3	184	121
HB134.1040	10,4	184	121
HB134.1050	10,5	184	121
HB134.1060	10,6	184	121
HB134.1070	10,7	195	128
HB134.1080	10,8	195	128
HB134.1090	10,9	195	128
HB134.1100	11	195	128
HB134.1110	11,1	195	128
HB134.1120	11,2	195	128
HB134.1130	11,3	195	128
HB134.1140	11,4	195	128
HB134.1150	11,5	195	128
HB134.1160	11,6	195	128
HB134.1170	11,7	195	128
HB134.1180	11,8	195	128
HB134.1190	11,9	205	134
HB134.1200	12	205	134

Broca Cilíndrica HSS - Serie Larga - DIN 340 - Continuación

• **HB134** > DIN 340 -Tipo N- Punta 128º - HSS-CO5%
Aceros/Aceros resistentes/Inoxidables/Aluminio





Referencia	Ø D	I1	I2
HB134.1200	12	205	134
HB134.1210	12,1	205	134
HB134.1220	12,2	205	134
HB134.1230	12,3	205	134
HB134.1240	12,4	205	134
HB134.1250	12,5	205	134
HB134.1260	12,6	205	134

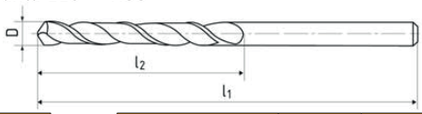
Referencia	Ø D	I1	I2
HB134.1270	12,7	205	134
HB134.1280	12,8	205	134
HB134.1290	12,9	205	134
HB134.1300	13	205	134
HB134.1310	13,1	205	134
HB134.1320	13,2	205	134
HB134.1330	13,3	214	140

Referencia	Ø D	I1	I2
HB134.1340	13,4	214	140
HB134.1350	13,5	214	140
HB134.1360	13,6	214	140
HB134.1370	13,7	214	140
HB134.1380	13,8	214	140
HB134.1390	13,9	214	140
HB134.1400	14	214	140

Broca HSS Cilíndrica - DIN 1869 - Tipo N - Series Largas

• Características: REF HB136-Serie 1 | HB 138-Serie 2 | HB140-Serie 3 > DIN 1869 - Tipo C - Punta 118º - HSS





Referencia Serie 1	Ø D	I1	I2
HB136.0200	2	125	85
HB136.0210	2,1	125	85
HB136.0220	2,2	135	90
HB136.0225	2,25	135	90
HB136.0230	2,3	135	90
HB136.0240	2,4	140	95
HB136.0250	2,5	140	95
HB136.0260	2,6	140	95
HB136.0270	2,7	150	100
HB136.0275	2,75	150	100
HB136.0280	2,8	150	100
HB136.0290	2,9	150	100
HB136.0300	3	150	100
HB136.0310	3,1	155	105
HB136.0320	3,2	155	105
HB136.0325	3,25	155	105
HB136.0330	3,3	155	105
HB136.0340	3,4	165	115
HB136.0350	3,5	165	115
HB136.0360	3,6	165	115
HB136.0370	3,7	165	115
HB136.0375	3,75	165	115
HB136.0380	3,8	175	120
HB136.0390	3,9	175	120
HB136.0400	4	175	120
HB136.0410	4,1	175	120
HB136.0420	4,2	175	120
HB136.0425	4,25	175	120
HB136.0430	4,3	185	125
HB136.0440	4,4	185	125
HB136.0450	4,5	185	125
HB136.0460	4,6	185	125
HB136.0470	4,7	185	125
HB136.0475	4,75	185	125
HB136.0480	4,8	195	135
HB136.0490	4,9	195	135
HB136.0500	5	195	135
HB136.0510	5,1	195	135
HB136.0520	5,2	195	135
HB136.0525	5,25	195	135
HB136.0530	5,3	195	135
HB136.0540	5,4	205	140
HB136.0550	5,5	205	140

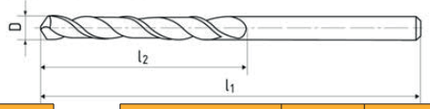
Referencia Serie 2	Ø D	I1	I2
HB138.0270	2.7	190	130
HB138.0275	2,75	190	130
HB138.0280	2,8	190	130
HB138.0290	2,9	190	130
HB138.0300	3	190	130
HB138.0310	3,1	200	135
HB138.0320	3,2	200	135
HB138.0325	3,25	200	135
HB138.0330	3,3	200	135
HB138.0340	3,4	210	145
HB138.0350	3,5	210	145
HB138.0360	3,6	210	145
HB138.0370	3,7	210	145
HB138.0375	3,75	210	145
HB138.0380	3,8	220	150
HB138.0390	3,9	220	150
HB138.0400	4	220	150
HB138.0410	4,1	220	150
HB138.0420	4,2	220	150
HB138.0425	4,25	220	150
HB138.0430	4,3	235	160
HB138.0440	4,4	235	160
HB138.0450	4,5	235	160
HB138.0460	4,6	235	160
HB138.0470	4,7	235	160
HB138.0475	4,75	235	160
HB138.0480	4,8	245	170
HB138.0490	4,9	245	170
HB138.0500	5	245	170
HB138.0510	5,1	245	170
HB138.0520	5,2	245	170
HB138.0525	5,25	245	170
HB138.0530	5,3	245	170
HB138.0540	5,4	260	180
HB138.0550	5,5	260	180
HB138.0560	5,6	260	180
HB138.0570	5,7	260	180
HB138.0575	5.75	260	180
HB138.0580	5,8	260	180
HB138.0590	5,9	260	180
HB138.0600	6	260	180
HB138.0610	6,1	275	190
HB138.0620	6,2	275	190

Referencia Serie 3	Ø D	I1	I2
HB140.0350	3.5	265	180
HB140.0360	3,6	265	180
HB140.0370	3,7	265	180
HB140.0375	3,75	265	180
HB140.0380	3,8	280	190
HB140.0390	3,9	280	190
HB140.0400	4	280	190
HB140.0410	4,1	280	190
HB140.0420	4,2	280	190
HB140.0425	4,25	280	190
HB140.0430	4,3	295	200
HB140.0440	4,4	295	200
HB140.0450	4,5	295	200
HB140.0460	4,6	295	200
HB140.0470	4,7	295	200
HB140.0475	4,75	295	200
HB140.0480	4,8	315	210
HB140.0490	4,9	315	210
HB140.0500	5	315	210
HB140.0510	5,1	315	210
HB140.0520	5,2	315	210
HB140.0525	5,25	315	210
HB140.0530	5,3	315	210
HB140.0540	5,4	330	225
HB140.0550	5,5	330	225
HB140.0560	5,6	330	225
HB140.0570	5,7	330	225
HB140.0575	5,75	330	225
HB140.0580	5,8	330	225
HB140.0590	5,9	330	225
HB140.0600	6	330	225
HB140.0610	6,1	350	235
HB140.0620	6,2	350	235
HB140.0625	6,25	350	235
HB140.0630	6,3	350	235
HB140.0640	6,4	350	235
HB140.0650	6,5	350	235
HB140.0660	6.6	350	235
HB140.0670	6,7	350	235
HB140.0675	6,75	350	235
HB140.0680	6,8	370	250
HB140.0690	6,9	370	250
HB140.0700	7	370	250

Broca HSS Cilíndrica - DIN 1869 - Tipo N - Series Largas - Continuación

• Características: REF HB136-Serie 1 | HB 138-Serie 2 | HB140-Serie 3 > DIN 1869 - Tipo C - Punta 118º - HSS





Referencia Serie 1	Ø D	I1	I2
HB136.0560	5,6	205	140
HB136.0570	5,7	205	140
HB136.0575	5,75	205	140
HB136.0580	5,8	205	140
HB136.0590	5,9	205	140
HB136.0600	6	205	140
HB136.0610	6,1	215	150
HB136.0620	6,2	215	150
HB136.0625	6,25	215	150
HB136.0630	6,3	215	150
HB136.0640	6,4	215	150
HB136.0650	6,5	215	150
HB136.0660	6,6	215	150
HB136.0670	6,7	215	150
HB136.0675	6,75	215	150
HB136.0680	6,8	225	155
HB136.0690	6,9	225	155
HB136.0700	7	225	155
HB136.0710	7,1	225	155
HB136.0720	7,2	225	155
HB136.0725	7,25	225	155
HB136.0730	7,3	225	155
HB136.0740	7,4	225	155
HB136.0750	7,5	225	155
HB136.0760	7,6	240	165
HB136.0770	7,7	240	165
HB136.0775	7,75	240	165
HB136.0780	7,8	240	165
HB136.0790	7,9	240	165
HB136.0800	8	240	165
HB136.0810	8,1	240	165
HB136.0820	8,2	240	165
HB136.0825	8,25	240	165
HB136.0830	8,3	240	165
HB136.0840	8,4	240	165
HB136.0850	8,5	240	165
HB136.0860	8,6	250	175
HB136.0870	8,7	250	175
HB136.0875	8,75	250	175
HB136.0880	8,8	250	175
HB136.0890	8,9	250	175
HB136.0900	9	250	175
HB136.0910	9,1	250	175
HB136.0920	9,2	250	175
HB136.0925	9,25	250	175
HB136.0930	9,3	250	175
HB136.0940	9,4	250	175
HB136.0950	9,5	250	175
HB136.0960	9,6	265	185
HB136.0970	9,7	265	185
HB136.0975	9,75	265	185
HB136.0980	9,8	265	185
HB136.0990	9,9	265	185
HB136.1000	10	265	185
HB136.1010	10,1	265	185
HB136.1020	10,2	265	185
HB136.1025	10,25	265	185

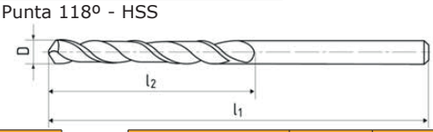
Referencia Serie 2	Ø D	I1	I2
HB138.0625	6,25	275	190
HB138.0630	6,3	275	190
HB138.0640	6,4	275	190
HB138.0650	6,5	275	190
HB138.0660	6,6	275	190
HB138.0670	6,7	275	190
HB138.0675	6,75	275	190
HB138.0680	6,8	290	200
HB138.0690	6,9	290	200
HB138.0700	7	290	200
HB138.0710	7,1	290	200
HB138.0720	7,2	290	200
HB138.0725	7,25	290	200
HB138.0730	7,3	290	200
HB138.0740	7,4	290	200
HB138.0750	7,5	290	200
HB138.0760	7,6	305	210
HB138.0770	7,7	305	210
HB138.0775	7,75	305	210
HB138.0780	7,8	305	210
HB138.0790	7,9	305	210
HB138.0800	8	305	210
HB138.0810	8,1	305	210
HB138.0820	8,2	305	210
HB138.0825	8,25	305	210
HB138.0830	8,3	305	210
HB138.0840	8,4	305	210
HB138.0850	8,5	305	210
HB138.0860	8,6	320	220
HB138.0870	8,7	320	220
HB138.0875	8,75	320	220
HB138.0880	8,8	320	220
HB138.0890	8,9	320	220
HB138.0900	9	320	220
HB138.0910	9,1	320	220
HB138.0920	9,2	320	220
HB138.0925	9,25	320	220
HB138.0930	9,3	320	220
HB138.0940	9,4	320	220
HB138.0950	9,5	320	220
HB138.0960	9,6	340	235
HB138.0970	9,7	340	235
HB138.0975	9,75	340	235
HB138.0980	9,8	340	235
HB138.0990	9,9	340	235
HB138.1000	10	340	235
HB138.1010	10,1	340	235
HB138.1020	10,2	340	235
HB138.1025	10,25	340	235
HB138.1030	10,3	340	235
HB138.1040	10,4	340	235
HB138.1050	10,5	340	235
HB138.1060	10,6	340	235
HB138.1070	10,7	365	250
HB138.1075	10,75	365	250
HB138.1080	10,8	365	250
HB138.1090	10,9	365	250

Referencia Serie 3	Ø D	I1	I2
HB140.0710	7,1	370	250
HB140.0720	7,2	370	250
HB140.0725	7,25	370	250
HB140.0730	7,3	370	250
HB140.0710	7,1	370	250
HB140.0720	7,2	370	250
HB140.0725	7,25	370	250
HB140.0730	7,3	370	250
HB140.0710	7,1	370	250
HB140.0720	7,2	370	250
HB140.0725	7,25	370	250
HB140.0730	7,3	370	250
HB140.0740	7,4	370	250
HB140.0750	7,5	370	250
HB140.0760	7,6	390	265
HB140.0770	7,7	390	265
HB140.0775	7,75	390	265
HB140.0780	7,8	390	265
HB140.0790	7,9	390	265
HB140.0800	8	390	265
HB140.0810	8,1	390	265
HB140.0820	8,2	390	265
HB140.0825	8,25	390	265
HB140.0830	8,3	390	265
HB140.0840	8,4	390	265
HB140.0850	8,5	390	265
HB140.0860	8,6	410	280
HB140.0870	8,7	410	280
HB140.0875	8,75	410	280
HB140.0880	8,8	410	280
HB140.0890	8,9	410	280
HB140.0900	9	410	280
HB140.0910	9,1	410	280
HB140.0920	9,2	410	280
HB140.0925	9,25	410	280
HB140.0930	9,3	410	280
HB140.0940	9,4	410	280
HB140.0950	9,5	410	280
HB140.0960	9,6	430	295
HB140.0970	9,7	430	295
HB140.0975	9,75	430	295
HB140.0980	9,8	430	295
HB140.0990	9,9	430	295
HB140.1000	10	430	295
HB140.1010	10,1	430	295
HB140.1020	10,2	430	295
HB140.1025	10,25	430	295
HB140.1030	10,3	430	295
HB140.1040	10,4	430	295
HB140.1050	10,5	430	295
HB140.1060	10,6	430	295
HB140.1070	10,7	455	310
HB140.1075	10,75	455	310
HB140.1080	10,8	455	310
HB140.1090	10,9	455	310
HB140.1100	11	455	310
HB140.1110	11,1	455	310

Broca HSS Cilíndrica - DIN 1869 - Tipo N - Series Largas - Continuación

• Características: REF HB136-Serie 1 | HB 138-Serie 2 | HB140-Serie 3 > DIN 1869 - Tipo C - Punta 118º - HSS





Referencia Serie 1	Ø D	I1	I2
HB136.1030	10,3	265	185
HB136.1040	10,4	265	185
HB136.1050	10,5	265	185
HB136.1060	10,6	265	185
HB136.1070	10,7	280	195
HB136.1075	10,75	280	195
HB136.1080	10,8	280	195
HB136.1090	10,9	280	195
HB136.1100	11	280	195
HB136.1110	11,1	280	195
HB136.1120	11,2	280	195
HB136.1125	11,25	280	195
HB136.1130	11,3	280	195
HB136.1140	11,4	280	195
HB136.1150	11,5	280	195
HB136.1160	11,6	280	195
HB136.1170	11,7	280	195
HB136.1175	11,75	280	195
HB136.1180	11,8	280	195
HB136.1190	11,9	295	205
HB136.1200	12	295	205
HB136.1210	12,1	295	205
HB136.1220	12,2	295	205
HB136.1225	12,25	295	205
HB136.1230	12,3	295	205
HB136.1240	12,4	295	205
HB136.1250	12,5	295	205
HB136.1260	12,6	295	205
HB136.1270	12,7	295	205
HB136.1275	12,75	295	205
HB136.1280	12,8	295	205
HB136.1290	12,9	295	205
HB136.1300	13	295	205

Referencia Serie 2	Ø D	I1	I2
HB138.1100	11	365	250
HB138.1110	11,1	365	250
HB138.1120	11,2	365	250
HB138.1125	11,25	365	250
HB138.1130	11,3	365	250
HB138.1140	11,4	365	250
HB138.1150	11,5	365	250
HB138.1160	11,6	365	250
HB138.1170	11,7	365	250
HB138.1175	11,75	365	250
HB138.1180	11,8	365	250
HB138.1190	11,9	375	260
HB138.1200	12	375	260
HB138.1210	12,1	375	260
HB138.1220	12,2	375	260
HB138.1225	12,25	375	260
HB138.1230	12,3	375	260
HB138.1240	12,4	375	260
HB138.1250	12,5	375	260
HB138.1260	12,6	375	260
HB138.1270	12,7	375	260
HB138.1275	12,75	375	260
HB138.1280	12,8	375	260
HB138.1290	12,9	375	260
HB138.1300	13	375	260

Referencia Serie 3	Ø D	I1	I2
HB140.1120	11,2	455	310
HB140.1125	11,25	455	310
HB140.1130	11,3	455	310
HB140.1140	11,4	455	310
HB140.1150	11,5	455	310
HB140.1160	11,6	455	310
HB140.1170	11,7	455	310
HB140.1175	11,75	455	310
HB140.1180	11,8	455	310
HB140.1190	11,9	480	330
HB140.1200	12	480	330
HB140.1210	12,1	480	330
HB140.1220	12,2	480	330
HB140.1225	12,25	480	330
HB140.1230	12,3	480	330
HB140.1240	12,4	480	330
HB140.1250	12,5	480	330
HB140.1260	12,6	480	330
HB140.1270	12,7	480	330
HB140.1275	12,75	480	330
HB140.1280	12,8	480	330
HB140.1290	12,9	480	330
HB140.1300	13	480	330

Set Brocas Cilíndricas

• **HB124** > DIN 338 -Tipo N - Punta 118º - HSS
• **HB126** > DIN 338 -Tipo C - Punta 128º - HSS-CO5

Referencia: HB124-SET19
Medidas: 1 a 10 mm cada 0.5mm
Referencia: HB126-SET19
Medidas: 1 a 10 mm cada 0.5mm

Referencia: HB124-SET25
Medidas: 1 a 13 mm cada 0.5mm
Referencia: HB126-SET25
Medidas: 1 a 13 mm cada 0.5mm



Set Brocas Cono Morse DIN 345

• HB150 > HSS - DIN 345 - TIPO N - Punta 118º - PAS
• HB152 > HSS-CO5% - DIN 345 - Tipo N - Punta 128º

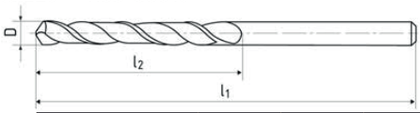
Referencia: HB150-SET9
Medidas: 15 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30
Referencia: HB152-SET9
Medidas: 15 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30



Broca HSS-CO5 - Cilíndrica - DIN 1869 - Tipo GT 100 - Series Largas

• Características: REF HB142-Serie 1 | HB 144-Serie 2 | HB146- Serie 3 >DIN 1869 Tipo GT100 - Punta 128º - HSS-CO5%





Referencia Serie 1	Ø D	I1	I2
HB142.0200	2	125	85
HB142.0220	2,2	135	90
HB142.0250	2,5	140	95
HB142.0280	2,8	150	100
HB142.0300	3	150	100
HB142.0320	3,2	155	105
HB142.0350	3,5	165	115
HB142.0360	3,6	165	115
HB142.0380	3,8	175	120
HB142.0400	4	175	120
HB142.0420	4,2	175	120
HB142.0450	4,5	185	125
HB142.0480	4,8	195	135
HB142.0500	5	195	135
HB142.0520	5,2	195	135
HB142.0550	5,5	205	140
HB142.0580	5,8	205	140
HB142.0600	6	205	140
HB142.0650	6,5	215	150
HB142.0700	7	225	155
HB142.0750	7,5	225	155
HB142.0800	8	240	165
HB142.0850	8,5	240	165
HB142.0900	9	250	175
HB142.0950	9,5	250	175
HB142.1000	10	265	185
HB142.1050	10,5	265	185
HB142.1100	11	280	195
HB142.1150	11,5	280	195
HB142.1200	12	295	205
HB142.1250	12,5	295	205
HB142.1300	13	295	205

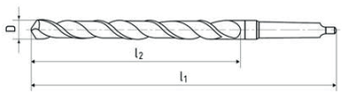
Referencia Serie 2	Ø D	I1	I2
HB144.0200	2	160	110
HB144.0250	2,5	180	120
HB144.0280	2,8	190	130
HB144.0300	3	190	130
HB144.0320	3,2	200	135
HB144.0350	3,5	210	145
HB144.0360	3,6	210	145
HB144.0380	3,8	220	150
HB144.0400	4	220	150
HB144.0420	4,2	220	150
HB144.0450	4,5	235	160
HB144.0480	4,8	245	170
HB144.0500	5	245	170
HB144.0520	5,2	245	170
HB144.0550	5,5	260	180
HB144.0580	5,8	260	180
HB144.0600	6	260	180
HB144.0650	6,5	275	190
HB144.0700	7	290	200
HB144.0750	7,5	290	200
HB144.0800	8	305	210
HB144.0850	8,5	305	210
HB144.0900	9	320	220
HB144.0950	9,5	320	220
HB144.1000	10	340	235
HB144.1050	10,5	340	235
HB144.1100	11	365	250
HB144.1150	11,5	365	250
HB144.1200	12	375	260
HB144.1250	12,5	375	260
HB144.1300	13	375	260

Referencia Serie 3	Ø D	I1	I2
HB146.0350	3,5	265	180
HB146.0380	3,8	280	190
HB146.0400	4	280	190
HB146.0420	4,2	280	190
HB146.0450	4,5	295	200
HB146.0480	4,8	315	210
HB146.0500	5	315	210
HB146.0520	5,2	315	210
HB146.0550	5,5	330	225
HB146.0580	5,8	330	225
HB146.0600	6	330	225
HB146.0650	6,5	350	235
HB146.0700	7	370	250
HB146.0750	7,5	370	250
HB146.0800	8	390	265
HB146.0850	8,5	390	265
HB146.0900	9	410	280
HB146.0950	9,5	410	280
HB146.1000	10	430	295
HB146.1050	10,5	430	295
HB146.1100	11	455	310
HB146.1150	11,5	455	310
HB146.1200	12	480	330
HB146.1250	12,5	480	330
HB146.1300	13	480	330

Broca HSS Cono Morse - DIN 345

• **HB150** > HSS - DIN 345 - Tipo N - Punta 118º - PAS
• **HB152** > HSS-CO5% - DIN 345 - Tipo N - Punta 128º





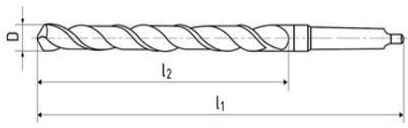
Referencia HSS	Referencia HSS-COS	Ø D	MK CM	I1 Long. Total	I2 Long. Corte
HB150.0500	HB152.0500	5	1	133	52
HB150.0550	HB152.0550	5,5	1	138	57
HB150.0600	HB152.0600	6	1	138	57
HB150.0650	HB152.0650	6,5	1	144	63
HB150.0675	-	6,75	1	150	69
HB150.0700	HB152.0700	7	1	150	69
HB150.0750	HB152.0750	7,5	1	150	69
HB150.0800	HB152.0800	8	1	156	75
HB150.0825	-	8,25	1	156	75
HB150.0850	HB152.0850	8,5	1	156	75
HB150.0875	-	8,75	1	162	81
HB150.0900	HB152.0900	9	1	162	81
HB150.0925	-	9,25	1	162	81
HB150.0950	HB152.0950	9,5	1	162	81
HB150.0975	-	9,75	1	168	87

Referencia HSS	Referencia HSS-COS	Ø D	MK CM	I1 Long. Total	I2 Long. Corte
HB150.1000	HB152.1000	10	1	168	87
HB150.1025	-	10,25	1	168	87
HB150.1050	HB152.1050	10,5	1	168	87
HB150.1075	-	10,75	1	175	94
HB150.1100	HB152.1100	11	1	175	94
HB150.1125	-	11,25	1	175	94
HB150.1150	HB152.1150	11,5	1	175	94
HB150.1175	-	11,75	1	175	94
HB150.1200	HB152.1200	12	1	182	101
HB150.1210	-	12,1	1	182	101
HB150.1220	-	12,2	1	182	101
HB150.1225	-	12,25	1	182	101
HB150.1230	-	12,3	1	182	101
HB150.1240	-	12,4	1	182	101
HB150.1250	HB152.1250	12,5	1	182	101

Broca HSS Cono Morse - DIN 345

- **HB150** > HSS - DIN 345 - TIPO N - Punta 118º - PAS
- **HB152** > HSS-CO5% - DIN 345 - Tipo N - Punta 128º





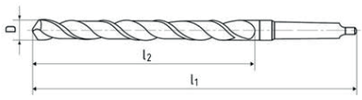
Referencia HSS	Referencia HSS-COS	Ø D	MK CM	I1 Long. Total	I2 Long. Corte
HB150.1260	-	12,6	1	182	101
HB150.1270	-	12,7	1	182	101
HB150.1275	-	12,75	1	182	101
HB150.1280	-	12,8	1	182	101
HB150.1290	-	12,9	1	182	101
HB150.1300	HB152.1300	13	1	182	101
HB150.1310	-	13,1	1	182	101
HB150.1320	-	13,2	1	182	101
HB150.1325	-	13,25	1	189	108
HB150.1330	-	13,3	1	189	108
HB150.1340	-	13,4	1	189	108
HB150.1350	HB152.1350	13,5	1	189	108
HB150.1360	-	13,6	1	189	108
HB150.1370	-	13,7	1	189	108
HB150.1375	-	13,75	1	189	108
HB150.1380	-	13,8	1	189	108
HB150.1390	-	13,9	1	189	108
HB150.1400	HB152.1400	14	1	189	108
HB150.1425	-	14,25	2	212	114
HB150.1450	HB152.1450	14,5	2	212	114
HB150.1475	-	14,75	2	212	114
HB150.1500	HB152.1500	15	2	212	114
HB150.1525	-	15,25	2	218	120
HB150.1550	HB152.1550	15,5	2	218	120
HB150.1575	-	15,75	2	218	120
HB150.1600	HB152.1600	16	2	218	120
HB150.1625	-	16,25	2	223	125
HB150.1650	HB152.1650	16,5	2	223	125
HB150.1675	-	16,75	2	223	125
HB150.1700	HB152.1700	17	2	223	125
HB150.1725	-	17,25	2	228	130
HB150.1750	HB152.1750	17,5	2	228	130
HB150.1775	-	17,75	2	228	130
HB150.1800	HB152.1800	18	2	228	130
HB150.1825	-	18,25	2	233	135
HB150.1850	HB152.1850	18,5	2	233	135
HB150.1875	-	18,75	2	233	135
HB150.1900	HB152.1900	19	2	233	135
HB150.1925	-	19,25	2	238	140
HB150.1950	HB152.1950	19,5	2	238	140
HB150.1975	-	19,75	2	238	140
HB150.2000	HB152.2000	20	2	238	140
HB150.2025	-	20,25	2	243	145
HB150.2050	HB152.2050	20,5	2	243	145
HB150.2075	-	20,75	2	243	145
HB150.2100	HB152.2100	21	2	243	145
HB150.2125	-	21,25	2	248	150
HB150.2150	HB152.2150	21,5	2	248	150
HB150.2175	-	21,75	2	248	150
HB150.2200	HB152.2200	22	2	248	150
HB150.2225	-	22,25	2	248	150

Referencia HSS	Referencia HSS-COS	Ø D	MK CM	I1 Long. Total	I2 Long. Corte
HB150.2250	HB152.2250	22,5	2	253	155
HB150.2275	-	22,75	2	253	155
HB150.2300	HB152.2300	23	2	253	155
HB150.2325	-	23,25	3	276	155
HB150.2350	HB152.2350	23,5	3	276	155
HB150.2375	-	23,75	3	281	160
HB150.2400	HB152.2400	24	3	281	160
HB150.2425	-	24,25	3	281	160
HB150.2450	HB152.2450	24,5	3	281	160
HB150.2475	-	24,75	3	281	160
HB150.2500	HB152.2500	25	3	281	160
HB150.2525	-	25,25	3	286	165
HB150.2550	HB152.2550	25,5	3	286	165
HB150.2575	-	25,75	3	286	165
HB150.2600	HB152.2600	26	3	286	165
HB150.2625	-	26,25	3	286	165
HB150.2650	HB152.2650	26,5	3	286	165
HB150.2675	-	26,75	3	291	170
HB150.2700	HB152.2700	27	3	291	170
HB150.2725	-	27,25	3	291	170
HB150.2750	HB152.2750	27,5	3	291	170
HB150.2775	-	27,75	3	291	170
HB150.2800	HB152.2800	28	3	291	170
HB150.2825	-	28,25	3	296	175
HB150.2850	HB152.2850	28,5	3	296	175
HB150.2875	-	28,75	3	296	175
HB150.2900	HB152.2900	29	3	296	175
HB150.2925	-	29,25	3	296	175
HB150.2950	HB152.2950	29,5	3	296	175
HB150.2975	-	29,75	3	296	175
HB150.3000	HB152.3000	30	3	296	175
HB150.3025	-	30,25	3	301	180
HB150.3050	HB152.3050	30,5	3	301	180
HB150.3075	-	30,75	3	301	180
HB150.3100	HB152.3100	31	3	301	180
HB150.3125	-	31,25	3	301	180
HB150.3150	HB152.3150	31,5	3	301	180
HB150.3175	-	31,75	3	306	185
HB150.3200	HB152.3200	32	4	334	185
HB150.3250	HB152.3250	32,5	4	334	185
HB150.3300	HB152.3300	33	4	334	185
HB150.3350	HB152.3350	33,5	4	334	185
HB150.3400	HB152.3400	34	4	339	190
HB150.3450	HB152.3450	34,5	4	339	190
HB150.3500	HB152.3500	35	4	339	190
HB150.3550	HB152.3550	35,5	4	339	190
HB150.3600	HB152.3600	36	4	344	195
HB150.3650	HB152.3650	36,5	4	344	195
HB150.3700	HB152.3700	37	4	344	195
HB150.3750	HB152.3750	37,5	4	344	195

Broca HSS Cono Morse - DIN 345

- **HB150** > HSS - DIN 345 - TIPO N - Punta 118º - PAS
- **HB152** > HSS-CO5% - DIN 345 - Tipo N - Punta 128º





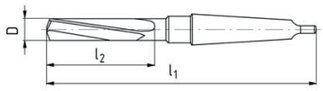
Referencia HSS	Referencia HSS-COS	Ø D	MK CM	I1 Long. Total	I2 Long. Corte
HB150.3800	HB152.3800	38	4	349	200
HB150.3850	HB152.3850	38,5	4	349	200
HB150.3900	HB152.3900	39	4	349	200
HB150.3950	HB152.3950	39,5	4	349	200
HB150.4000	HB152.4000	40	4	349	200
HB150.4050	HB152.4050	40,5	4	354	205
HB150.4100	HB152.4100	41	4	354	205
HB150.4150	HB152.4150	41,5	4	354	205
HB150.4200	HB152.4200	42	4	354	205
HB150.4250	HB152.4250	42,5	4	354	205
HB150.4300	HB152.4300	43	4	359	210
HB150.4350	HB152.4350	43,5	4	359	210
HB150.4400	HB152.4400	44	4	359	210
HB150.4450	HB152.4450	44,5	4	359	210
HB150.4500	HB152.4500	45	4	359	210
HB150.4550	HB152.4550	45,5	4	364	215
HB150.4600	HB152.4600	46	4	364	215
HB150.4650	HB152.4650	46.5	4	364	215
HB150.4700	HB152.4700	47	4	364	215
HB150.4750	HB152.4750	47.5	4	364	215
HB150.4800	HB152.4800	48	4	369	220
HB150.4850	HB152.4850	48.5	4	369	220
HB150.4900	HB152.4900	49	44	369	220
HB150.4950	HB152.4950	49.5	4	369	220
HB150.5000	HB152.5000	50	4	369	220
HB150.5050	-	50.5	4	374	225
HB150.5100	-	51	5	412	225
HB150.5200	-	52	5	412	225
HB150.5300	-	53	5	412	223
HB150.5400	-	54	5	417	230
HB150.5500	-	55	5	417	230
HB150.5600	-	56	5	417	230
HB150.5700	-	57	5	422	235

Referencia HSS	Referencia HSS-COS	Ø D	MK CM	I1 Long. Total	I2 Long. Corte
HB150.5800	-	58	5	422	235
HB150.5900	-	59	5	422	235
HB150.6000	-	60	5	422	235
HB150.6100	-	61	5	427	240
HB150.6200	-	62	5	427	240
HB150.6300	-	63	5	427	240
HB150.6400	-	64	5	432	245
HB150.6500	-	65	5	432	245
HB150.6600	-	66	5	432	245
HB150.6700	-	67	5	432	250
HB150.6800	-	68	5	437	250
HB150.6900	-	69	5	437	250
HB150.7000	-	70	5	437	250
HB150.7100	-	71	5	437	255
HB150.7200	-	72	5	442	255
HB150.7300	-	73	5	442	255
HB150.7400	-	74	5	442	255
HB150.7500	-	75	5	442	260
HB150.7600	-	76	5	447	260
HB150.7700	-	77	6	514	260
HB150.7800	-	78	6	514	260
HB150.7900	-	79	6	514	260
HB150.8000	-	80	6	514	265
HB150.8100	-	81	6	519	265
HB150.8200	-	82	6	519	265
HB150.8300	-	83	6	519	265
HB150.8400	-	84	6	519	265
HB150.8500	-	85	6	519	265
HB150.8600	-	86	6	524	270
HB150.8700	-	87	6	524	270
HB150.8800	-	88	6	524	270
HB150.8900	-	89	6	524	270
HB150.9000	-	90	6	524	270

Broca Cono Morse HSS-CO8% - Materiales Duros y Resistentes

- **HB168** > Tipo C - Punta 128º - HSS-CO8%
  Recomendado para materiales Hardox 400-500





Referencia	D	MK	I1	I2
HB168.1000	10	2	190	90
HB168.1100	11	2	190	90
HB168.1200	12	2	190	90
HB168.1300	13	2	190	90
HB168.1400	14	2	190	90
HB168.1500	15	2	190	90
HB168.1600	16	2	190	90
HB168.1700	17	2	190	90
HB168.1800	18	2	190	90
HB168.1900	19	3	225	105
HB168.2000	20	3	225	105
HB168.2100	21	3	225	105
HB168.2200	22	3	225	105
HB168.2300	23	3	225	105

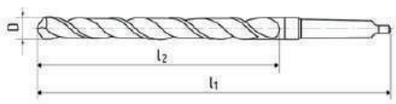
Referencia	D	MK	I1	I2
HB168.2400	24	3	225	105
HB168.2500	25	3	225	105
HB168.2600	26	3	225	105
HB168.2700	27	4	265	120
HB168.2800	28	4	265	120
HB168.2900	29	4	265	120
HB168.3000	30	4	265	120
HB168.3100	31	4	265	120
HB168.3200	32	4	265	120
HB168.3300	33	4	265	120
HB168.3400	34	4	265	120
HB168.3500	35	4	265	120
HB168.3600	36	4	265	120
HB168.3700	37	4	265	120

Referencia	D	MK	I1	I2
HB168.3800	38	4	265	120
HB168.3900	39	4	265	120
HB168.4000	40	4	265	120
HB168.4100	41	4	265	120
HB168.4200	42	4	265	120
HB168.4300	43	4	265	120
HB168.4400	44	4	265	120
HB168.4500	45	4	265	120
HB168.4600	46	4	265	120
HB168.4700	47	4	265	150
HB168.4800	48	5	340	150
HB168.4900	49	5	340	150
HB168.5000	50	5	340	150

Broca HSS Cono Morse - DIN 341/1870 - Series Largas

• Características: DIN 341 / DIN 1870 - Tipo C/A - Punta 118º - HSS





Referencia	D	MK	I1	I2
HB154.0800	8	1	181	100
HB154.0850	8,5	1	181	100
HB154.0900	9	1	188	107
HB154.0950	9,5	1	188	107
HB154.1000	10	1	197	116
HB154.1050	10,5	1	197	116
HB154.1100	11	1	206	125
HB154.1150	11,5	1	206	125
HB154.1200	12	1	215	134
HB154.1250	12,5	1	215	134
HB154.1300	13	1	215	134
HB154.1350	13,5	1	223	142
HB154.1400	14	1	223	142
HB154.1450	14,5	2	245	147
HB154.1500	15	2	245	147
HB154.1550	15,5	2	251	153
HB154.1600	16	2	251	153
HB154.1650	16,5	2	257	159
HB154.1700	17	2	257	159
HB154.1750	17,5	2	263	165
HB154.1800	18	2	263	165
HB154.1850	18,5	2	269	171
HB154.1900	19	2	269	171
HB154.1950	19,5	2	275	177
HB154.2000	20	2	275	177
HB154.2050	20,5	2	282	184
HB154.2100	21	2	282	184
HB154.2150	21,5	2	289	191
HB154.2200	22	2	289	191
HB154.2250	22,5	2	296	198
HB154.2300	23	2	296	198
HB154.2350	23,5	3	319	198
HB154.2400	24	3	327	206
HB154.2450	24,5	3	327	206
HB154.2500	25	3	327	206
HB154.2550	25,5	3	335	214
HB154.2600	26	3	335	214
HB154.2650	26,5	3	335	214
HB154.2700	27	3	343	222
HB154.2750	27,5	3	343	222
HB154.2800	28	3	343	222
HB154.2850	28,5	3	351	230
HB154.2900	29	3	351	230
HB154.2950	29,5	3	351	230
HB154.3000	30	3	351	230
HB154.3100	31	3	360	239
HB154.3200	32	4	397	248
HB154.3300	33	4	397	248
HB154.3400	34	4	406	257
HB154.3500	35	4	406	257
HB154.3600	36	4	416	267
HB154.3700	37	4	416	267
HB154.3800	38	4	426	277
HB154.3900	39	4	426	277

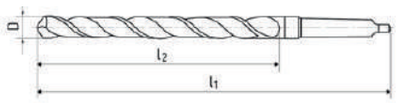
Referencia	D	MK	I1	I2
HB156.0800	8	1	265	165
HB156.0850	8,5	1	265	165
HB156.0900	9	1	275	175
HB156.0950	9,5	1	275	175
HB156.1000	10	1	285	185
HB156.1050	10,5	1	285	185
HB156.1100	11	1	300	195
HB156.1150	11,5	1	300	195
HB156.1200	12	1	310	205
HB156.1250	12,5	1	310	205
HB156.1300	13	1	310	205
HB156.1350	13,5	1	325	220
HB156.1400	14	1	325	220
HB156.1450	14,5	2	340	220
HB156.1500	15	2	340	220
HB156.1550	15,5	2	355	230
HB156.1600	16	2	355	230
HB156.1650	16,5	2	355	230
HB156.1700	17	2	355	230
HB156.1750	17,5	2	370	245
HB156.1800	18	2	370	245
HB156.1850	18,5	2	370	245
HB156.1900	19	2	370	245
HB156.1950	19,5	2	385	260
HB156.2000	20	2	385	260
HB156.2050	20,5	2	385	260
HB156.2100	21	2	385	260
HB156.2150	21,5	2	405	270
HB156.2200	22	2	405	270
HB156.2250	22,5	2	405	270
HB156.2300	23	2	405	270
HB156.2350	23,5	3	425	270
HB156.2400	24	3	440	290
HB156.2450	24,5	3	440	290
HB156.2500	25	3	440	290
HB156.2550	25,5	3	440	290
HB156.2600	26	3	440	290
HB156.2650	26,5	3	440	290
HB156.2700	27	3	460	305
HB156.2750	27,5	3	460	305
HB156.2800	28	3	460	305
HB156.2850	28,5	3	460	305
HB156.2900	29	3	460	305
HB156.2950	29,5	3	460	305
HB156.3000	30	3	460	305
HB156.3100	31	3	480	320
HB156.3200	32	4	505	320
HB156.3300	33	4	505	320
HB156.3400	34	4	530	340
HB156.3500	35	4	530	340
HB156.3600	36	4	530	340
HB156.3700	37	4	530	340
HB156.3800	38	4	555	360
HB156.3900	39	4	555	360

Referencia	D	MK	I1	I2
HB158.1000	10	1	360	235
HB158.1050	10,5	1	360	235
HB158.1100	11	1	375	250
HB158.1150	11,5	1	375	250
HB158.1200	12	1	395	260
HB158.1250	12,5	1	395	260
HB158.1300	13	1	395	260
HB158.1350	13,5	1	410	275
HB158.1400	14	1	410	275
HB158.1450	14,5	2	425	275
HB158.1500	15	2	425	275
HB158.1550	15,5	2	445	295
HB158.1600	16	2	445	295
HB158.1650	16,5	2	445	295
HB158.1700	17	2	445	295
HB158.1750	17,5	2	465	310
HB158.1800	18	2	465	310
HB158.1850	18,5	2	465	310
HB158.1900	19	2	465	310
HB158.1950	19,5	2	490	325
HB158.2000	20	2	490	325
HB158.2050	20,5	2	490	325
HB158.2100	21	2	490	325
HB158.2150	21,5	2	515	345
HB158.2200	22	2	515	345
HB158.2250	22,5	2	515	345
HB158.2300	23	2	515	345
HB158.2350	23,5	3	535	345
HB158.2400	24	3	555	365
HB158.2450	24,5	3	555	365
HB158.2500	25	3	555	365
HB158.2550	25,5	3	555	365
HB158.2600	26	3	555	365
HB158.2650	26,5	3	555	365
HB158.2700	27	3	580	385
HB158.2750	27,5	3	580	385
HB158.2800	28	3	580	385
HB158.2850	28,5	3	580	385
HB158.2900	29	3	580	385
HB158.2950	29,5	3	580	385
HB158.3000	30	3	580	385
HB158.3100	31	3	610	410
HB158.3200	32	4	635	410
HB158.3300	33	4	635	410
HB158.3400	34	4	665	430
HB158.3500	35	4	665	430
HB158.3600	36	4	665	430
HB158.3700	37	4	665	430
HB158.3800	38	4	695	460
HB158.3900	39	4	695	460

Broca HSS Cono Morse - DIN 341/1870 - Series Largas - Continuación

• Características: DIN 341 / DIN 1870 - Tipo C/A - Punta 118º - HSS





Referencia	D	MK	I1	I2
HB154.4000	40	4	426	277
HB154.4100	41	4	436	287
HB154.4200	42	4	436	287
HB154.4300	43	4	447	298
HB154.4400	44	4	447	298
HB154.4500	45	4	447	298
HB154.4600	46	4	459	310
HB154.4700	47	4	459	310
HB154.4800	48	4	470	321
HB154.4900	49	4	470	321
HB154.5000	50	4	470	321

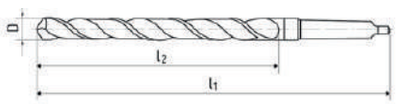
Referencia	D	MK	I1	I2
HB156.4000	40	4	555	360
HB156.4100	41	4	555	360
HB156.4200	42	4	555	360
HB156.4300	43	4	585	385
HB156.4400	44	4	585	385
HB156.4500	45	4	585	385
HB156.4600	46	4	585	385
HB156.4700	47	4	585	385
HB156.4800	48	4	605	405
HB156.4900	49	4	605	405
HB156.5000	50	4	605	405

Referencia	D	MK	I1	I2
HB158.4000	40	4	695	460
HB158.4100	41	4	695	460
HB158.4200	42	4	695	460
HB158.4300	43	4	735	490
HB158.4400	44	4	735	490
HB158.4500	45	4	735	490
HB158.4600	46	4	735	490
HB158.4700	47	4	735	490
HB158.4800	48	4	765	510
HB158.4900	49	4	765	510
HB158.5000	50	4	765	510

Broca HSS CO5 Cono Morse- DIN 341/1870 - Series Largas

• Características: DIN 341 / DIN 1870 - Tipo C - GT100 - HSS-CO5% - Punta 118º





Referencia	D	MK	I1	I2
HB160.0800	8	1	181	100
HB160.0850	8,5	1	181	100
HB160.0900	9	1	188	107
HB160.0950	9,5	1	188	107
HB160.1000	10	1	197	116
HB160.1050	10,5	1	197	116
HB160.1100	11	1	206	125
HB160.1150	11,5	1	206	125
HB160.1200	12	1	215	134
HB160.1250	12,5	1	215	134
HB160.1300	13	1	215	134
HB160.1350	13,5	1	223	142
HB160.1400	14	1	223	142
HB160.1450	14,5	2	245	147
HB160.1500	15	2	245	147
HB160.1550	15,5	2	251	153
HB160.1600	16	2	251	153
HB160.1650	16,5	2	257	159
HB160.1700	17	2	257	159
HB160.1750	17,5	2	263	165
HB160.1800	18	2	263	165
HB160.1850	18,5	2	269	171
HB160.1900	19	2	269	171
HB160.1950	19,5	2	275	177
HB160.2000	20	2	275	177

Referencia	D	MK	I1	I2
HB162.0800	8	1	265	165
HB162.0850	8,5	1	265	165
HB162.0900	9	1	275	175
HB162.0950	9,5	1	275	175
HB162.1000	10	1	285	185
HB162.1050	10,5	1	285	185
HB162.1100	11	1	300	195
HB162.1150	11,5	1	300	195
HB162.1200	12	1	310	205
HB162.1250	12,5	1	310	205
HB162.1300	13	1	310	205
HB162.1350	13,5	1	325	220
HB162.1400	14	1	325	220
HB162.1450	14,5	2	340	220
HB162.1500	15	2	340	220
HB162.1550	15,5	2	355	230
HB162.1600	16	2	355	230
HB162.1650	16,5	2	355	230
HB162.1700	17	2	355	230
HB162.1750	17,5	2	370	245
HB162.1800	18	2	370	245
HB162.1850	18,5	2	370	245
HB162.1900	19	2	370	245
HB162.1950	19,5	2	385	260
HB162.2000	20	2	385	260

Referencia	D	MK	I1	I2
HB164.1400	14	1	410	275
HB164.1450	14,5	2	425	275
HB164.1500	15	2	425	275
HB164.1550	15,5	2	445	295
HB164.1600	16	2	445	295
HB164.1650	16,5	2	445	295
HB164.1700	17	2	445	295
HB164.1750	17,5	2	465	310
HB164.1800	18	2	465	310
HB164.1850	18,5	2	465	310
HB164.1900	19	2	465	310
HB164.1950	19,5	2	490	325
HB164.2000	20	2	490	325

Broca MD K10 - 3xD



Referencia	Ø D	I1	I2
MB150.010	1.0	6	26
MB150.015	1.5	9	32
MB150.016	1.6	10	34
MB150.020	2.0	12	38
MB150.021	2.1	12	38
MB150.022	2.2	13	40
MB150.023	2.3	13	40
MB150.024	2.4	14	43
MB150.025	2.5	14	43
MB150.026	2.6	14	43
MB150.027	2.7	16	46
MB150.028	2.8	16	46
MB150.029	2.9	16	46
MB150.030	3.0	16	46
MB150.031	3.1	18	49

Referencia	Ø D	I1	I2
MB150.032	3.2	18	49
MB150.033	3.3	18	49
MB150.034	3.4	20	52
MB150.035	3.5	20	52
MB150.036	3.6	20	52
MB150.037	3.7	20	52
MB150.038	3.8	22	55
MB150.039	3.9	22	55
MB150.040	4.0	22	55
MB150.041	4.1	22	55
MB150.042	4.2	22	55
MB150.043	4.3	24	58
MB150.044	4.4	24	58
MB150.045	4.5	24	58
MB150.046	4.6	24	58

Referencia	Ø D	I1	I2
MB150.047	4.7	24	58
MB150.048	4.8	26	62
MB150.049	4.9	26	62
MB150.050	5.0	26	62
MB150.055	5.5	28	66
MB150.060	6.0	28	66
MB150.065	6.5	31	70
MB150.068	6.8	34	74
MB150.070	7.0	34	74
MB150.075	7.5	34	74
MB150.080	8.0	36	79
MB150.085	8.5	36	79
MB150.090	9.0	40	84
MB150.095	9.5	40	84
MB150.100	10.0	43	89

Broca MD K10 - 5xD

Referencia	Ø D	I1	I2
MB152.010	1.0	12	34
MB152.015	1.5	18	40
MB152.016	1.6	20	43
MB152.020	2.0	24	49
MB152.021	2.1	24	49
MB152.022	2.2	27	53
MB152.023	2.3	27	53
MB152.024	2.4	30	57
MB152.025	2.5	30	57
MB152.026	2.6	33	57
MB152.027	2.7	33	61
MB152.028	2.8	33	61
MB152.029	2.9	33	61
MB152.030	3.0	36	61
MB152.031	3.1	36	65

Referencia	Ø D	I1	I2
MB152.032	3.2	36	65
MB152.033	3.3	39	65
MB152.034	3.4	39	70
MB152.035	3.5	39	70
MB152.036	3.6	39	70
MB152.037	3.7	39	70
MB152.038	3.8	43	75
MB152.039	3.9	43	75
MB152.040	4.0	43	75
MB152.041	4.1	43	75
MB152.042	4.2	43	75
MB152.043	4.3	47	80
MB152.044	4.4	47	80
MB152.045	4.5	47	80
MB152.046	4.6	47	80

Referencia	Ø D	I1	I2
MB152.047	4.7	47	80
MB152.048	4.8	52	86
MB152.049	4.9	52	86
MB152.050	5.0	52	86
MB152.055	5.5	57	93
MB152.060	6.0	57	93
MB152.065	6.5	63	101
MB152.068	6.8	69	109
MB152.070	7.0	69	109
MB152.075	7.5	69	109
MB152.080	8.0	75	117
MB152.085	8.5	75	117
MB152.090	9.0	81	125
MB152.095	9.5	81	125
MB152.100	10.0	87	133

Cuchilla ISO 1 - DIN 4791

Referencia Derechas	Referencia Izquierdas	Dimensiones	Calidades
MC01R	MC01L	10 x 10 x 90	P20 – M30 – K10
MC01R	MC01L	12 x 12 x 100	P20 – M30 – K10
MC01R	MC01L	16 x 16 x 110	P20 – M30 – K10
MC01R	MC01L	20 x 20 x 125	P20 – M30 – K10
MC01R	MC01L	25 x 25 x 140	P20 – M30 – K10
MC01R	MC01L	32 x 32 x 170	P20 – M30 – K10
MC01R	MC01L	40 x 40 x 200	P20 – M30 – K10

TIPO DE CALIDADES:
- Calidad P20 – Acero
- Calidad M30 – Inoxidable
- Calidad K10 – Fundición



Cuchilla ISO 2 – DIN 4972

Referencia Derechas	Referencia Izquierdas	Dimensiones	Calidades
MC02R	MC02L	10 x 10 x 90	P20 – M30 – K10
MC02R	MC02L	12 x 12 x 100	P20 – M30 – K10
MC02R	MC02L	16 x 16 x 110	P20 – M30 – K10
MC02R	MC02L	20 x 20 x 125	P20 – M30 – K10
MC02R	MC02L	25 x 25 x 140	P20 – M30 – K10
MC02R	MC02L	32 x 32 x 170	P20 – M30 – K10
MC02R	MC02L	40 x 40 x 200	P20 – M30 – K10



Cuchilla ISO 3 – DIN 4980

Referencia Derechas	Referencia Izquierdas	Dimensiones	Calidades
MC03R	MC03L	16 x 16 x 110	P20 – M30 – K10
MC03R	MC03L	20 x 20 x 125	P20 – M30 – K10
MC03R	MC03L	25 x 25 x 140	P20 – M30 – K10
MC03R	MC03L	32 x 32 x 170	P20 – M30 – K10
MC03R	MC03L	40 x 40 x 200	P20 – M30 – K10



Cuchilla ISO 4 – DIN 4976

Referencia Neutra	Dimensiones	Calidades
MC04N	16 x 10 x 110	P20 – M30 – K10
MC04N	20 x 12 x 125	P20 – M30 – K10
MC04N	25 x 16 x 140	P20 – M30 – K10
MC04N	32 x 20 x 170	P20 – M30 – K10
M04CN	40 x 25 x 200	P20 – M30 – K10



Cuchilla ISO 5 – DIN 4799

Referencia Derechas	Referencia Izquierdas	Dimensiones	Calidades
MC05R	MC05L	10 x 10 x 90	P20 – M30 – K10
MC05R	MC05L	12 x 12 x 100	P20 – M30 – K10
MC05R	MC05L	16 x 16 x 110	P20 – M30 – K10
MC05R	MC05L	20 x 20 x 125	P20 – M30 – K10
MC05R	MC05L	25 x 25 x 140	P20 – M30 – K10
MC05R	MC05L	32 x 32 x 170	P20 – M30 – K10
MC05R	MC05L	40 x 40 x 200	P20 – M30 – K10



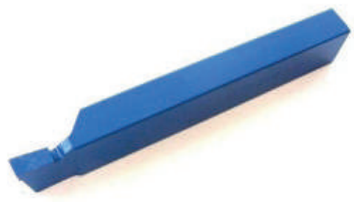
Cuchilla ISO 6 – DIN 4980

Referencia Derechas	Referencia Izquierdas	Dimensiones	Calidades
MC06R	MC06L	10 x 10 x 90	P20 – M30 – K10
MC06R	MC06L	12 x 12 x 100	P20 – M30 – K10
MC06R	MC06L	16 x 16 x 110	P20 – M30 – K10
MC06R	MC06L	20 x 20 x 125	P20 – M30 – K10
MC06R	MC06L	25 x 25 x 140	P20 – M30 – K10
MC06R	MC06L	32 x 32 x 170	P20 – M30 – K10
MC06R	MC06L	40 x 40 x 200	P20 – M30 – K10



Cuchilla ISO 7 – DIN 4981

Referencia Derechas	Referencia Izquierdas	Dimensiones	Calidades	Espesor
MC07R	MC07L	12 X 8 X 3 X 100	P20 – M30 – K10	3
MC07R	MC07L	16 X 10 X 4 X 110	P20 – M30 – K10	4
MC07R	MC07L	20 X 12 X 5 X 125	P20 – M30 – K10	5
MC07R	MC07L	25 X 16 X 6 X 140	P20 – M30 – K10	6
MC07R	MC07L	32 X 20 X 8 X 170	P20 – M30 – K10	8
MC07R	MC07L	10 x 10 x 4 x 110	P20 – M30 – K10	4
MC07R	MC07L	12 x 12 x 4 x 110	P20 – M30 – K10	4
MC07R	MC07L	16 x 16 x 4 x 100	P20 – M30 – K10	4
MC07R	MC07L	20 x 20 x 5 x 125	P20 – M30 – K10	5



Cuchilla ISO 8 – DIN 4793

Referencia Derechas	Referencia Izquierdas	Dimensiones	Calidades
MC08R	MC08L	8 X 8 X 125	P20 – M30 – K10
MC08R	MC08L	10 X 10 X 150	P20 – M30 – K10
MC08R	MC08L	12 X 12 X 180	P20 – M30 – K10
MC08R	MC08L	16 X 16 X 210	P20 – M30 – K10
MC08R	MC08L	20 X 20 X 250	P20 – M30 – K10
MC08R	MC08L	25 X 25 X 300	P20 – M30 – K10
MC08R	MC08L	32 X 32 X 355	P20 – M30 – K10



Cuchilla ISO 9 – DIN 4974

Referencia	Dimensiones	Calidades
MC09R	8 X 8 X 125	P20 – M30 – K10
MC09R	10 X 10 X 150	P20 – M30 – K10
MC09R	12 X 12 X 180	P20 – M30 – K10
MC09R	16 X 16 X 210	P20 – M30 – K10
MC09R	20 X 20 X 250	P20 – M30 – K10
MC09R	25 X 25 X 300	P20 – M30 – K10
MC09R	32 X 32 X 355	P20 – M30 – K10



Cuchilla ISO 10 – DIN 4795

Referencia	Dimensiones	Calidades
MC10N	16 x 10 x 110	P20 – M30 – K10
MC10N	20 x 12 x 125	P20 – M30 – K10
MC10N	25 x 16 x 140	P20 – M30 – K10
MC10N	32 x 20 x 170	P20 – M30 – K10



Cuchilla ISO 12 - DIN 282R

Referencia Derechas	Referencia Izquierdas	Dimensiones	Calidades
MC12R	MC12L	20 X 12 X 125	P20 – M30 – K10
MC12R	MC12L	25 X 16 X 140	P20 – M30 – K10
MC12R	MC12L	32 X 20 X 170	P20 – M30 – K10



Cuchilla ISO 13 – DIN 4981

Referencia Derechas	Dimensiones	Calidades
MC13R	10 X 10 X 125	P20 – M30 – K10
MC13R	12 X 12 X 150	P20 – M30 – K10
MC13R	16 X 16 X 180	P20 – M30 – K10
MC13R	20 X 20 X 210	P20 – M30 – K10
MC13R	25 X 25 X 250	P20 – M30 – K10
MC13R	32 X 32 X 300	P20 – M30 – K10



Cuchillas de Cobalto para Torno - Trapezoidal



• Características: HSS-CO10% - Tolerancia:h12 - Según DIN 4964 Forma E

Referencia	Medida	Longitud
HC01.123150	12 x 3	150
HC01.123160	12 x 3	160
HC01.153150	15 x 3	150
HC01.154200	15 x 4	200
HC01.163160	16 x 3	160
HC01.163200	16 x 3	200

Referencia	Medida	Longitu
HC01.164160	16 x 4	160
HC01.164200	16 x 4	200
HC01.183150	18 x 3	150
HC01.183200	18 x 3	200
HC01.184200	18 x 4	200

Referencia	Medida	Longitud
HC01.203160	20 x 3	160
HC01.203200	20 x 3	200
HC01.204160	20 x 4	160
HC01.204200	20 x 4	200
HC01.205160	20 x 5	160
HC01.205200	20 x 5	200

Cuchillas de Cobalto para Torno - Redonda



• Características: HSS-CO10% - Tolerancia:h8 - Según DIN 4964 Forma A

Referencia	Ø D	Longitud
HC02.3100	3	100
HC02.4100	4	100
HC02.4200	4	200
HC02.5100	5	100
HC02.5200	5	200
HC02.6100	6	100
HC02.6160	6	160
HC02.6200	6	200

Referencia	Ø D	Longitud
HC02.8100	8	100
HC02.8160	8	160
HC02.8200	8	200
HC02.10100	10	100
HC02.10160	10	160
HC02.10200	10	200
HC02.12100	12	100
HC02.12160	12	160
HC02.12200	12	200

Referencia	Ø D	Longitud
HC02.16100	16	100
HC02.16160	16	160
HC02.16200	16	200
HC02.20160	20	160
HC02.20200	20	200
HC02.25160	25	160
HC02.25200	25	200
HC02.30200	30	200

Cuchillas de Cobalto para Torno - Cuadrado



• Características: HSS-CO10% - Tolerancia:h14 - Según DIN 4964 Forma B

Referencia	Ø C	Longitud
HC03.4160	4	160
HC03.5100	5	100
HC03.5160	5	160
HC03.6100	6	100
HC03.6160	6	160
HC03.6200	6	200
HC03.7200	7	200
HC03.8100	8	100
HC03.8160	8	160
HC03.8200	8	200

Referencia	Ø C	Longitud
HC03.10100	10	100
HC03.10160	10	160
HC03.10200	10	200
HC03.12100	12	100
HC03.12160	12	160
HC03.12200	12	200
HC03.14160	14	160
HC03.14200	14	200
HC03.16100	16	100
HC03.16160	16	160
HC03.16200	16	200
HC03.16250	16	250

Referencia	Ø C	Longitud
HC03.18160	18	160
HC03.18200	18	200
HC03.20160	20	160
HC03.20200	20	200
HC03.20250	20	250
HC03.25160	25	160
HC03.25200	25	200
HC03.32200	32	200
HC03.40200	40	200
HC03.40250	40	250
HC03.40300	40	300

Cuchillas de Cobalto para Torno - Rectangular



• Características: HSS-CO10% - Tolerancia:h14 - Según DIN 4964 Forma D

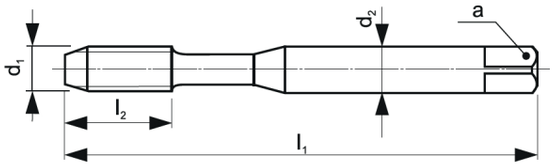
Referencia	Medida	Longitud
HC04.64100	6 x 4	100
HC04.85100	8 x 5	100
HC04.103160	10 x 3	160
HC04.104160	10 x 4	160
HC04.104200	10 x 4	200
HC04.105160	10 x 5	160
HC04.105200	10 x 5	200
HC04.123150	12 x 3	150
HC04.123200	12 x 3	200
HC04.124150	12 x 4	150
HC04.124200	12 x 4	200
HC04.125150	12 x 5	150
HC04.125200	12 x 5	200
HC04.126150	12 x 6	150
HC04.126200	12 x 6	200
HC04.128150	12 x 8	150
HC04.128200	12 x 8	200
HC04.1210160	12 x 10	160
HC04.1210200	12 x 10	200
HC04.144160	14 x 4	160
HC04.144200	14 x 4	200
HC04.145150	14 x 5	150
HC04.145200	14 x 5	200
HC04.146200	14 x 6	200
HC04.1410150	14 x 10	150
HC04.1410200	14 x 10	200

Referencia	Medida	Longitu
HC04.153150	15 x 3	150
HC04.153200	15 x 3	200
HC04.154150	15 x 4	150
HC04.154200	15 x 4	200
HC04.155200	15 x 5	200
HC04.156200	15 x 6	200
HC04.158200	15 x 8	200
HC04.163160	16 x 3	160
HC04.164160	16 x 4	160
HC04.164200	16 x 4	200
HC04.166200	16 x 6	200
HC04.168160	16 x 8	160
HC04.168200	16 x 8	200
HC04.1610160	16 x 10	160
HC04.1610200	16 x 10	200
HC04.1612160	16 x 12	160
HC04.183200	18 x 3	200
HC04.184200	18 x 4	200
HC04.185200	18 x 5	200
HC04.186200	18 x 6	200
HC04.203100	20 x 3	100
HC04.203200	20 x 3	200
HC04.204160	20 x 4	160
HC04.204200	20 x 4	200
HC04.205160	20 x 5	160
HC04.205200	20 x 5	200

Referencia	Medida	Longitud
HC04.206160	20 x 6	160
HC04.206200	20 x 6	200
HC04.208160	20 x 8	160
HC04.208200	20 x 8	200
HC04.2010160	20 x 10	160
HC04.2010200	20 x 10	200
HC04.2012160	20 x 12	160
HC04.2012200	20 x 12	200
HC04.2016160	20 x 16	160
HC04.2016200	20 x 16	200
HC04.255200	25 x 5	200
HC04.256200	25 x 6	200
HC04.258200	25 x 8	200
HC04.2510200	25 x 10	200
HC04.2512160	25 x 12	160
HC04.2516160	25 x 16	160
HC04.2516200	25 x 16	200
HC04.2520160	25 x 20	160
HC04.2520200	25 x 20	200
HC04.3010200	30 x 10	200
HC04.328200	32 x 8	200
HC04.3212200	32 x 12	200
HC04.3216200	32 x 16	200
HC04.4010200	40 x 10	200
HC04.4012200	40 x 12	200

Macho Rosca Métrica - Pasante

- Mango Reforzado
- Paso 60º
- DIN 13 - DIN 371
- ISO 2 6H
- Forma B - 3.5-6
- HSSE

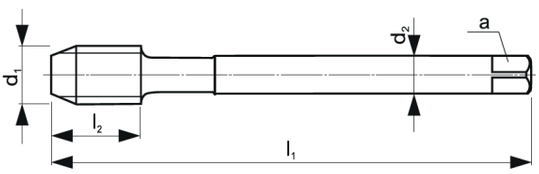




Referencia:							100-100	100-100 ISO3-6G	100-101 OX	100-104 TiALN
Métrica	P	l1	l2	d2	a	Z				
M2	0,4	45	8	2,8	2,1	3	•			
M2,5	0,45	50	9	2,8	2,1	3	•			
M3	0,5	56	11	3,5	2,7	3	•	•	•	•
M4	0,7	63	13	4,5	3,4	3	•	•	•	•
M5	0,8	70	16	6	4,9	3	•	•	•	•
M6	1	80	19	6	4,9	3	•	•	•	•
M8	1,25	90	22	8	6,2	3	•	•	•	•
M10	1,5	100	24	10	8	3	•	•	•	•

Macho Rosca Métrica - Pasante

- Mango Fino
- Paso 60º
- DIN 13 - DIN 371
- ISO 2 6H
- Forma B - 3.5-6
- HSSE

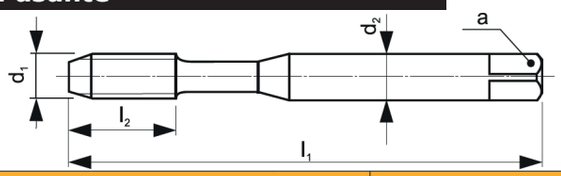




Referencia:							200-100	200-100 ISO3-6G	200-101 OX	200-104 TIALN	200-400
Métrica	P	l1	l2	d2	a	Z	FORMA B	FORMA B	FORMA B	FORMA B	FORMA C
M3	0,5	56	9	2,2	-	3	•		•		•
M4	0,7	63	12	2,8	2,1	3	•		•		•
M5	0,8	70	13	3,5	2,7	3	•		•		•
M6	1	80	15	4,5	3,4	3	•		•		•
M7	1	80	15	5,5	4,3	3	•		•		•
M8	1,25	90	18	6	4,9	3	•		•		•
M10	1,5	100	20	7	5,5	3	•		•		•
M12	1,75	110	28	9	7	3	•	•	•	•	•
M14	2	110	25	11	9	3	•	•	•	•	•
M16	2	110	25	12	9	3	•	•	•	•	•
M18	2,5	125	30	14	11	3	•		•	•	•
M20	2,5	140	30	16	12	3	•	•	•	•	•
M22	2,5	140	30	18	14,5	3	•		•		•
M24	3	160	36	18	14,5	4	•		•		•
M27	3	160	36	20	16	4	•		•		•
M30	3,5	180	40	22	18	4	•		•		•
M33	3,5	180	42	25	20	4	•		•		•
M36	4	200	50	28	22	4	•		•		•
M39	4	200	50	32	24	4					•
M42	4,5	200	56	32	24	4					•
M45	4,5	200	56	36	29	4					•
M48	5	250	63	36	29	4					•
M52	5	250	63	40	32	4					•

Macho Rosca Métrica - Pasante

- Mango Reforzado
- Paso 60º
- DIN 13
- DIN 371 - ISO 2 6H
- Forma C - 2-3
- HSSE

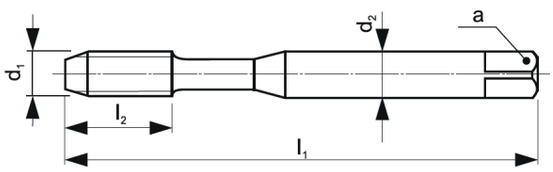




Referencia:							100-400
Métrica	**P**	**l1**	**l2**	**d2**	**a**	**Z**	
M3	0,5	56	11	3,5	2,7	3	•
M3.5	0,6	56	11	4	3	3	•
M4	0,7	63	13	4,5	3,4	3	•
M5	0,8	70	16	6	4,9	3	•
M6	1	80	19	6	4,9	3	•
M8	1,25	90	22	8	6,2	3	•
M10	1,5	100	24	10	8	3	•

Machos de Rosca Métrica - Pasantes

- Mango Reforzado
- Para Aceros 1200N/mm2
- Paso 60º
- DIN 13 - DIN 371
- ISO 2 6H
- Forma B - 3.5-6
- HSSE

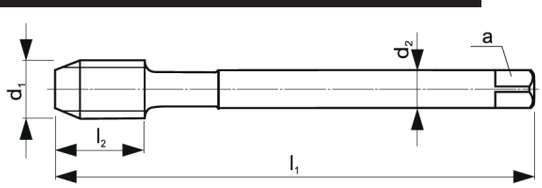




Referencia:							100-121	100-123
Métrica	**P**	**l1**	**l2**	**d2**	**a**	**Z**	**OX**	**TICN**
M3	0,5	56	5	3,5	2,7	3	•	•
M4	0,7	63	7	4,5	3,4	3	•	•
M5	0,8	70	8	6	4,9	3	•	•
M6	1	80	10	6	4,9	3	•	•
M8	1,25	90	13	8	6,2	3	•	•
M10	1,5	100	15	10	8	3	•	•

Machos de Rosca Métrica - Pasantes

- Mango Fino
- Para Aceros 1200N/mm2
- Paso 60º
- DIN 13 - DIN 371
- ISO 2 6H
- Forma B - 3.5-6
- HSSE

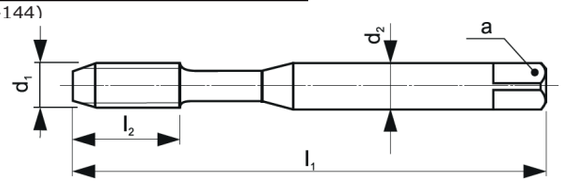




Referencia:							200-121	200-123
Métrica	**P**	**l1**	**l2**	**d2**	**a**	**Z**	**OX**	**TICN**
M3	0,5	56	9	2,2	-	3	•	•
M4	0,7	63	12	2,8	2,1	3	•	•
M5	0,8	70	13	3,5	2,7	3	•	•
M6	1	80	15	4,5	3,4	3	•	•
M8	1,25	90	18	6	4,9	3	•	•
M10	1,5	100	20	7	5,5	3	•	•
M12	1,75	110	23	9	7	3	•	•
M14	2	110	25	11	9	3	•	•
M16	2	110	25	12	9	3	•	•
M18	2,5	125	30	14	11	3	•	•
M20	2,5	140	30	16	12	3	•	•
M22	2,5	140	30	18	14,5	3	•	•
M24	3	160	36	18	14,5	4	•	•
M27	3	160	36	20	16	4	•	•
M30	3,5	180	40	22	18	4	•	•

Macho Rosca Métrica - Pasante

- Mango Reforzado DIN 371 (Serie 100-144)
- Mango Fino DIN 376 (Serie 200-144)
- Para Aceros 1400N/mm2
- Paso 60º
- DIN 13 - DIN 371 y 376
- ISO 2 6H
- Forma B - 3.5-6
- PM

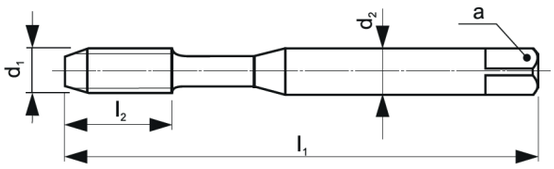




Referencia:								100-144	200-144	
Métrica	P	l1	l2	d2	a	Z		FNT	FNT	
M3	0,5	56	5	3,5	2,7	3		•		
M4	0,7	63	7	4,5	3,4	3		•		
M5	0,8	70	8	6	4,9	3		•		
M6	1	80	10	6	4,9	3		•		
M8	1,25	90	13	8	6,2	3		•		
M10	1,5	100	15	10	8	3		•		
M12	1.75	110	23	9	7	3			•	

Macho Rosca Métrica - Pasantes - Inoxidables

- Mango Reforzado
- Especial Inoxidables
- Paso 60º
- DIN 13 - DIN 371
- ISO 2 6H
- Forma B - 3.5-6
- HSSE

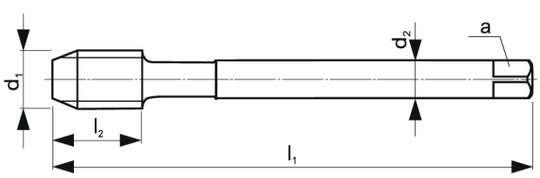




Referencia:								100-255	100-201	100-203
Métrica	P	l1	l2	d2	a	Z		HL - PM	OX HSSE	TICN HSSE
M3	0,5	56	5	3,5	2,7	3		•	•	•
M4	0,7	63	7	4,5	3,4	3		•	•	•
M5	0,8	70	8	6	4,9	3		•	•	•
M6	1	80	10	6	4,9	3		•	•	•
M8	1,25	90	13	8	6,2	3		•	•	•
M10	1,5	100	15	10	8	3		•	•	•

Macho Rosca Métrica - Pasantes Inoxidables

- Mango Fino
- Expecial Inoxidables
- Paso 60º
- DIN 13 - DIN 376
- ISO 2 6H
- Forma B - 3.5-6
- PM / HSSE

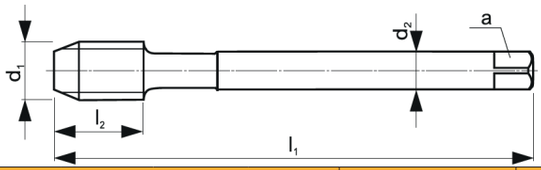




Referencia:								200-255	200-201	200-203
Métrica	P	l1	l2	d2	a	Z		HL - PM	OX HSSE	TICN HSSE
M3	0,5	56	9	3,5	2,7	3			•	
M4	0,7	63	12	4,5	3,4	3			•	
M5	0,8	70	13	6	4,9	3			•	
M6	1	80	15	6	4,9	3			•	
M8	1,25	90	18	8	6,2	3			•	
M10	1,5	100	20	10	8	3			•	
M12	1,75	110	23	9	7	3		•	•	•
M14	2	110	25	11	9	3		•	•	•
M16	2	110	25	12	9	3		•	•	•
M18	2,5	125	30	14	11	3			•	•
M20	2,5	140	30	16	12	3		•	•	•
M22	2,5	140	30	18	14,5	3			•	
M24	3	160	36	18	14,5	4			•	•
M27	3	160	36	20	16	4			•	•
M30	3,5	180	40	22	18	4			•	•

Macho Rosca - Métrica Fina

- Mango Fino
- Paso 60º
- DIN 13 - DIN 371
- ISO 2 6H
- Forma B - 3.5-6
- Forma C - 2-3
- HSSE

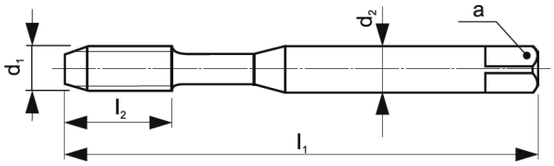




Referencia:								300-100	300-400	
Métrica	P	l1	l2	d2	a	Z		FORMA B	FORMA C	
M4	0,5	63	12	2,8	2,1	3		•	•	
M5	0,5	70	13	3,5	2,7	3		•	•	
M6	0,5	80	15	4,5	3,4	3		•	•	
M6	0,75	80	15	4,5	3,4	3		•	•	
M7	0,75	80	15	5,5	4,3	3		•	•	
M8	0,75	80	15	6	4,9	3		•	•	
M8	1	90	18	6	4,9	3		•	•	
M9	1	90	18	7	5,5	3		•	•	
M10	0,75	90	20	7	5,5	3		•	•	
M10	1	90	20	7	5,5	3		•	•	
M10	1,25	100	20	7	5,5	3		•	•	
M11	1	90	20	8	6,2	3		•	•	
M12	1	100	21	9	7	3			•	
M12	1,25	100	21	9	7	3		•	•	
M12	1,5	100	21	9	7	3		•	•	
M14	1	100	21	11	9	3		•	•	
M14	1,25	100	21	11	9	3		•	•	
M14	1,5	100	21	11	9	3		•	•	
M15	1	100	21	12	9	3		•	•	
M16	1	100	21	12	9	3		•	•	
M16	1,5	100	21	12	9	3		•	•	
M17	1	100	21	12	9	3			•	
M18	1	110	24	14	11	3		•	•	
M18	1,5	110	24	14	11	3		•	•	
M18	2	125	24	14	11	3		•	•	
M20	1	125	24	16	12	3		•	•	
M20	1,5	125	24	16	12	3		•	•	
M20	2	140	30	16	12	3		•	•	
M22	1	125	24	18	14,5	3		•	•	
M22	1,5	125	24	18	14,5	3		•	•	
M22	2	140	30	18	14,5	3		•	•	
M24	1	140	26	18	14,5	4		•	•	
M24	1,5	140	26	18	14,5	4		•	•	
M24	2	140	26	18	14,5	4		•	•	
M25	1,5	140	26	18	14,5	4		•	•	
M26	1,5	140	26	18	14,5	4		•	•	
M27	1	140	26	20	16	4		•	•	
M27	1,5	140	26	20	16	4		•	•	
M27	2	140	26	20	16	4		•	•	
M28	1,5	140	26	20	16	4		•	•	
M28	2	140	26	20	16	4		•	•	
M30	1	150	28	22	18	4		•	•	
M30	1,5	150	28	22	18	4		•	•	
M30	2	150	28	22	18	4		•	•	
M32	1,5	150	28	22	18	4		•	•	
M33	1,5	160	30	25	20	4		•	•	
M33	2	160	30	25	20	4		•	•	
M34	1,5	170	30	28	22	4			•	
M35	1,5	170	30	28	22	4			•	
M36	1,5	170	30	28	22	4		•	•	
M36	2	170	30	28	22	4		•	•	
M36	3	200	42	28	22	4		•	•	

Macho Rosca Métrica - Ciegos

- Mango Reforzado
- Paso 60º
- DIN 13 - DIN 371
- ISO 2 6H
- Forma C - 2-3 - RSP40º
- HSSE

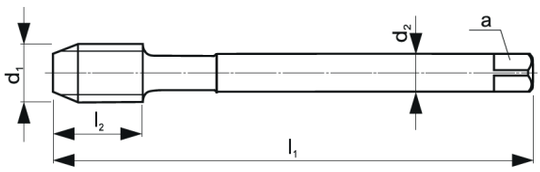




Referencia:							100-500	100-500	100-501	100-504
Métrica	**P**	**l1**	**l2**	**d2**	**a**	**Z**		**ISO 3 6G**	**OX**	**TIALN**
M2	0,4	45	6	2,8	2,1	3	•			
M2,5	0,45	50	7,5	2,8	2,1	3	•	•	•	•
M3	0,5	56	5	3,5	2,7	3	•	•	•	•
M4	0,7	63	7	4,5	3,4	3	•	•	•	•
M5	0,8	70	8	6	4,9	3	•	•	•	•
M6	1	80	10	6	4,9	3	•	•	•	•
M8	1,25	90	13	8	6,2	3	•	•	•	•
M10	1,5	100	15	10	8	3		•	•	

Macho Rosca Métrica - Ciegos

- Mango Fino
- Paso 60º
- DIN 13 - DIN 376
- ISO 2 6H
- Forma C - 2-3 - RSP40º
- HSSE

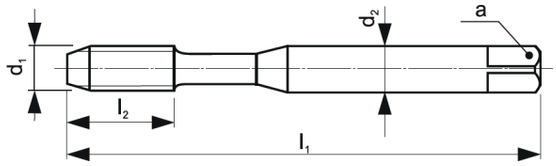




Referencia:							200-500	200-500	200-501	200-504
Métrica	**P**	**l1**	**l2**	**d2**	**a**	**Z**		**ISO 3 6G**	**OX**	**TIALN**
M3	0,5	56	5	2,2	-	3	•			
M4	0,7	63	7	2,8	2,1	3	•		•	
M5	0,8	70	8	3,5	2,7	3	•		•	
M6	1	80	10	4,5	3,4	3	•		•	
M7	1	80	10	5,5	4,3	3	•		•	
M8	1,25	90	13	6	4,9	3	•		•	
M10	1,5	100	15	7	5,5	3	•		•	
M12	1,75	110	18	9	7	3	•	•	•	•
M14	2	110	20	11	9	3	•	•	•	•
M16	2	110	20	12	9	3	•	•	•	•
M18	2,5	125	25	14	11	4	•		•	•
M20	2,5	140	25	16	12	4	•	•	•	•
M22	2,5	140	25	18	14,5	4	•		•	
M24	3	160	30	18	14,5	4	•		•	
M27	3	160	30	20	16	4	•		•	
M30	3,5	180	35	22	18	4	•		•	
M33	3,5	180	35	25	20	4	•		•	
M36	4	200	40	28	22	4	•		•	

Macho Rosca Métrica - Ciegos

- Mango Reforzado
- Para Aceros 1200N/mm2
- Paso 60º
- DIN 13 - DIN 371
- ISO 2 6H
- Forma C - 2-3 - RSP 40º
- HSSE

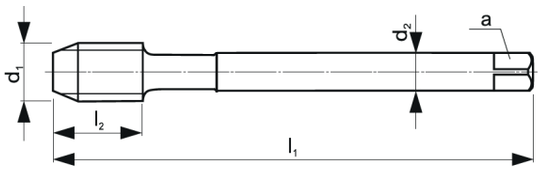




Referencia:								100-521	100-523	
Métrica	P	l1	l2	d2	a	Z		OX	TICN	
M3	0,5	56	5	3,5	2,7	3		•	•	
M4	0,7	63	7	4,5	3,4	3		•	•	
M5	0,8	70	8	6	4,9	3		•	•	
M6	1	80	10	6	4,9	3		•	•	
M8	1,25	90	13	8	6,2	3		•	•	
M10	1,5	100	15	10	8	3		•	•	

Macho Rosca Métrica - Ciegos

- Mango Fino
- Para Aceros 1200N/mm2
- Paso 60º
- DIN 13 - DIN 371
- ISO 2 6H
- Forma C - 2-3 - RSP 40º
- HSSE

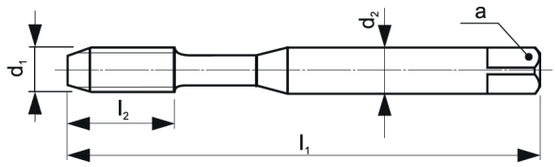




Referencia:							200-521	200-523	200-501	200-504
Métrica	P	l1	l2	d2	a	Z		OX	TICN	
M3	0,5	56	5	2,2	-	3		•	•	
M4	0,7	63	7	2,8	2,1	3		•	•	
M5	0,8	70	8	3,5	2,7	3		•	•	
M6	1	80	10	4,5	3,4	3		•	•	
M8	1,25	90	13	6	4,9	3		•	•	
M10	1,5	100	15	7	5,5	3		•	•	
M12	1,75	110	18	9	7	4		•	•	
M14	2	110	20	11	9	4		•	•	
M16	2	110	20	12	9	4		•	•	
M18	2,5	125	25	14	11	4		•	•	
M20	2,5	140	25	16	12	4		•	•	
M22	2,5	140	25	18	14,5	4		•	•	
M24	3	160	30	18	14,5	4		•	•	
M27	3	160	30	20	16	4		•	•	
M30	3,5	180	35	22	18	5		•	•	
M30	3,5	180	35	22	18	4	•		•	

Macho Rosca Métrica - Ciegos

- Mango Reforzado DIN 371 (Serie 100-564 y 100-544)
- Mango Fino DIN 376 (Serie 200-564 y 200-544)
- Para Aceros 1400N/mm2
- Paso 60º
- DIN 13 - DIN 371 / 376
- ISO 2 6H
- Forma B - 3.5-6
- PM
- Recubrimiento FNT

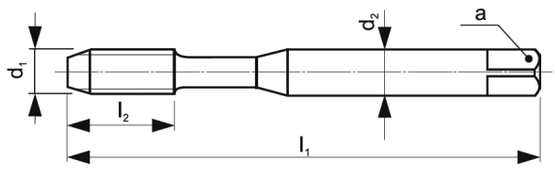




Referencia:							100-564	100-544	200-564	200-544
Métrica	**P**	**l1**	**l2**	**d2**	**a**	**Z**	**FORMA C**	**FORMA D**	**FORMA C**	**FORMA D**
M3	0,5	56	5	3,5	2,7	3	•	•		
M4	0,7	63	7	4,5	3,4	3	•	•		
M5	0,8	70	8	6	4,9	3	•	•		
M6	1	80	10	6	4,9	3	•	•		
M8	1,25	90	13	8	6,2	3	•	•		
M10	1,5	100	15	10	8	3	•	•		
M12	1.75	110	23	9	7	3			•	•

Macho Rosca Métrica - Ciegos - Inoxidables

- Mango Reforzado
- Para Inoxidables
- Paso 60º
- DIN 13 - DIN 371
- ISO 2 6H
- Forma C - RSP40º
- PM

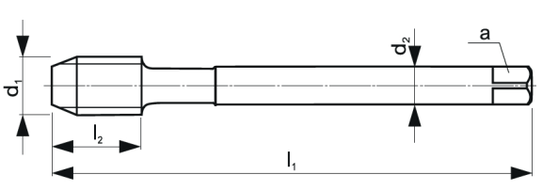




Referencia:								100-655	100-601	100-603
Métrica	**P**	**l1**	**l2**	**d2**	**a**	**Z**		**HL - PM**	**OX HSSE**	**TICN HSSE**
M3	0,5	56	5	3,5	2,7	3		•	•	•
M4	0,7	63	7	4,5	3,4	3		•	•	•
M5	0,8	70	8	6	4,9	3		•	•	•
M6	1	80	10	6	4,9	3		•	•	•
M8	1,25	90	13	8	6,2	3		•	•	•
M10	1,5	100	15	10	8	3		•	•	•

Macho Rosca Métrica - Ciegos - Inoxidables

- Mango Fino
- Para Inoxidables
- Paso 60º
- DIN 13 - DIN 376
- ISO 2 6H
- Forma C - 2-3 - RSP40º
- PM

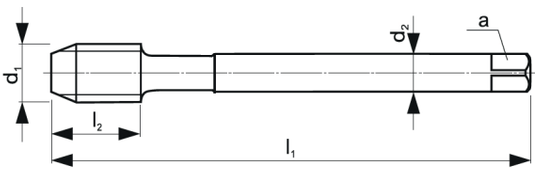




Referencia:								200-655	200-601	200-603
Métrica	**P**	**l1**	**l2**	**d2**	**a**	**Z**		**HL - PM**	**OX HSSE**	**TICN HSSE**
M3	0,5	56	9	3,5	2,7	3			•	
M4	0,7	63	12	4,5	3,4	3			•	
M5	0,8	70	13	6	4,9	3			•	
M6	1	80	15	6	4,9	3			•	
M8	1,25	90	18	8	6,2	3			•	
M10	1,5	100	20	10	8	3			•	
M12	1,75	110	23	9	7	3		•	•	•
M14	2	110	25	11	9	3		•	•	•
M16	2	110	25	12	9	3		•	•	•
M18	2,5	125	30	14	11	3			•	•
M20	2,5	140	30	16	12	3		•	•	•
M22	2,5	140	30	18	14,5	3			•	
M24	3	160	36	18	14,5	4			•	•
M27	3	160	36	20	16	4			•	•
M30	3,5	180	40	22	18	4			•	•

Macho Rosca Métrica Fina - Ciegos

- Mango Fino
- Paso 60º
- DIN 13 - DIN 374
- ISO 2 6H
- Forma C - 2-3 - RSP40º
- HSSE

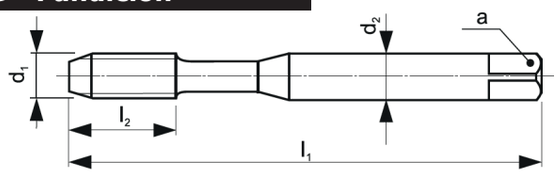




Referencia:									300-500	
Métrica	**P**	**l1**	**l2**	**d2**	**a**	**Z**				
M4	0,5	63	7	2,8	2,1	3			•	
M5	0,5	70	8	3,5	2,7	3			•	
M6	0,5	80	10	4,5	3,4	3			•	
M6	0,75	80	10	4,5	3,4	3			•	
M7	0,75	80	10	5,5	4,3	3			•	
M8	0,75	80	10	6	4,9	3			•	
M8	1	90	13	6	4,9	3			•	
M9	1	90	13	7	5,5	3			•	
M10	0,75	90	12	7	5,5	3			•	
M10	1	90	12	7	5,5	3			•	
M10	1,25	100	15	7	5,5	3			•	
M11	1	90	12	8	6,2	3			•	
M12	1	100	14	9	7	3			•	
M12	1,25	100	14	9	7	3			•	
M12	1,5	100	14	9	7	3			•	
M14	1	100	16	11	9	3			•	
M14	1,25	100	16	11	9	3			•	
M14	1,5	100	16	11	9	3			•	
M15	1	100	16	12	9	3			•	
M16	1	100	16	12	9	4			•	
M16	1,5	100	16	12	9	4			•	
M18	1	110	20	14	11	4			•	
M18	1,5	110	20	14	11	4			•	
M18	2	125	20	14	11	4			•	
M20	1	125	20	16	12	4			•	
M20	1,5	125	20	16	12	4			•	
M20	2	140	20	16	12	4			•	
M22	1	125	20	18	14,5	4			•	
M22	1,5	125	20	18	14,5	4			•	
M22	2	140	20	18	14,5	4			•	
M24	1	140	22	18	14,5	4			•	
M24	1,5	140	22	18	14,5	4			•	
M24	2	140	22	18	14,5	4			•	
M25	1,5	140	22	18	14,5	4			•	
M26	1,5	140	22	18	14,5	4			•	
M27	1	140	22	20	16	4			•	
M27	1,5	140	22	20	16	4			•	
M27	2	140	22	20	16	4			•	
M28	1,5	140	22	20	16	4			•	
M28	2	140	22	20	16	4			•	
M30	1	150	26	22	18	4			•	
M30	1,5	150	26	22	18	4			•	
M30	2	150	26	22	18	4			•	
M32	1,5	150	26	22	18	4			•	
M33	1,5	160	28	25	20	4			•	
M33	2	160	28	25	20	4			•	
M35	1,5	170	30	28	22	4			•	
M36	1,5	170	28	28	22	4			•	
M36	2	170	28	28	22	4			•	
M36	3	200	36	28	22	4			•	

Macho Rosca Métrica - CG - Fundición

- Mango Reforzado
- Para Fundición
- Paso 60º
- DIN 13 - DIN 371
- ISO 2 6HX
- Forma C - 2-3
- HSSE

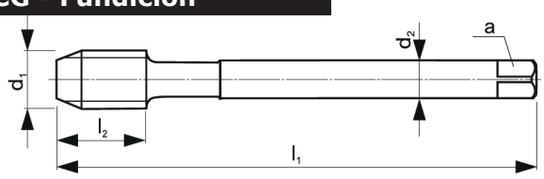




Referencia:									100-423	
Métrica	**P**	**l1**	**l2**	**d2**	**a**	**Z**			**TICN**	
M3	0,5	56	9	3,5	2,7	3			•	
M4	0,7	63	12	4,5	3,4	3			•	
M5	0,8	70	13	6	4,9	3			•	
M6	1	80	15	6	4,9	3			•	
M8	1,25	90	18	8	6,2	4			•	
M10	1,5	100	20	10	8	4			•	

Macho Rosca Métrica - CG - Fundición

- Mango FINO
- Para Fundición
- Paso 60º
- DIN 13 - DIN 376
- ISO 2 6HX
- Forma C - 2-3
- HSSE

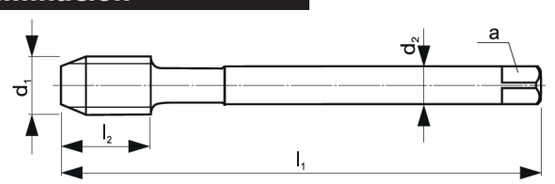




Referencia:									100-423	
Métrica	**P**	**l1**	**l2**	**d2**	**a**	**Z**			**TICN**	
M3	0,5	56	9	2,2	-	3			•	
M4	0,7	63	12	2,8	2,1	3			•	
M5	0,8	70	13	3,5	2,7	3			•	
M6	1	80	15	4,5	3,4	3			•	
M8	1,25	90	18	6	4,9	4			•	
M10	1,5	100	20	7	5,5	4			•	
M12	1,75	110	23	9	7	4			•	
M14	2	110	25	11	9	4			•	
M16	2	110	25	12	9	4			•	
M18	2,5	125	30	14	11	4			•	
M20	2,5	140	30	16	12	4			•	
M22	2,5	140	30	18	14,5	4			•	
M24	3	160	36	18	14,5	4			•	
M27	3	160	36	20	16	4			•	
M30	3,5	180	40	22	18	5			•	

Macho Rosca Métrica - Laminación

- 60º
- DIN 13- DIN 2174
- ISO 2 6H 6GX
- Forma C - 2-3
- HSSE
- 800-902 (Sin ranuras refrigeración)
- 800-922 (Con ranuras refrigeración)

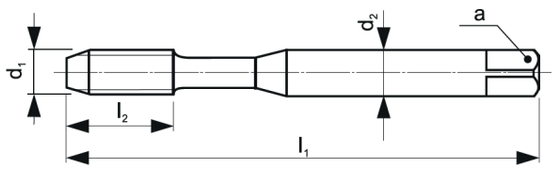




Referencia:							800-902	800-902	800-922	800-922
Métrica	**P**	**l1**	**l2**	**d2**	**a**		**ISO 2 6 HX**	**ISO 3 6GX**	**ISO 2 6 HX**	**ISO 3 6GX**
M3	0,5	56	11	3,5	2,7		•	•	•	•
M3,5	0,6	56	12	4	3		•	•	•	•
M4	0,7	63	13	4,5	3,4		•	•	•	•
M5	0,8	70	16	6	4,9		•	•	•	•
M6	1	80	19	6	4,9		•	•	•	•
M8	1,25	90	22	8	6,2		•	•	•	•
M10	1,5	100	24	10	8		•	•	•	•
M12	1,75	110	28	9	7		•		•	•

Macho Rosca Métrica Pasante - AL - Aluminio

- Mango Reforzado / Fino
- Para Aluminio
- Agujero Pasante
- Paso 60º
- DIN 13 - DIN 371 / 376
- ISO 2 6HX
- Forma B - 3.5-6
- HSSE

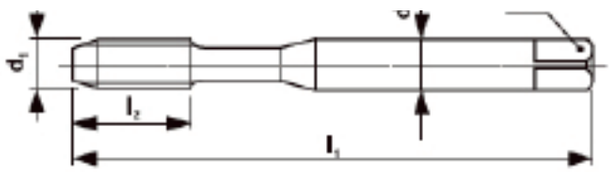




Referencia:							100-126	100-306	200-126	200-306
Métrica	**P**	**l1**	**l2**	**d2**	**a**		**DIN 371**	**DIN 371**	**DIN 376**	**DIN 376**
M3	0,5	56	9	3,5	2,7	3	•	•		
M4	0,7	63	12	4,5	3,4	3	•	•		
M5	0,8	70	13	6	4,9	3	•	•		
M6	1	80	15	6	4,9	3	•	•		
M8	1,25	90	18	8	6,2	3	•	•		
M10	1,5	100	20	10	8	3	•	•		
M12	1,75	110	23	9	7	3			•	•
M14	2	110	25	11	9	3			•	•
M16	2	110	25	12	9	3			•	•
M18	2,5	125	30	14	11	3			•	•
M20	2,5	140	30	16	12	3			•	•

Macho Rosca Métrica Ciego - AL - Aluminio

- Mango Reforzado / Fino
- Para Aluminio
- Agujero Ciego
- Paso 60º
- DIN 13 - DIN 371 / 376
- RSP40º - RSP45º
- ISO 2 6HX
- Forma C - 2-3
- HSSE

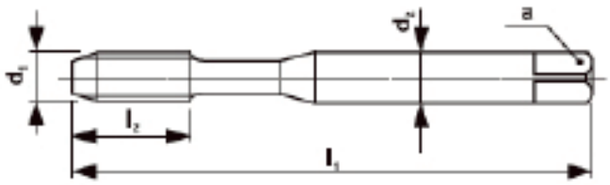




Referencia:							100-526	100-706	200-526	200-706
Métrica	**P**	**l1**	**l2**	**d2**	**a**		**DIN 371**	**DIN 371**	**DIN 376**	**DIN 376**
M3	0,5	56	9	3,5	2,7	3	•	•		
M4	0,7	63	12	4,5	3,4	3	•	•		
M5	0,8	70	13	6	4,9	3	•	•		
M6	1	80	15	6	4,9	3	•	•		
M8	1,25	90	18	8	6,2	3	•	•		
M10	1,5	100	20	10	8	3	•	•		
M12	1,75	110	23	9	7	3			•	•
M14	2	110	25	11	9	3			•	•
M16	2	110	25	12	9	3			•	•
M18	2,5	125	30	14	11	3			•	•
M20	2,5	140	30	16	12	3			•	•

Macho Rosca Métrica - UNI - Pasante

- Uso Universal
- 60º
- DIN 13
- DIN 371 - 376
- ISO 2 6H
- Forma B - 3.5-6
- HSSE
- Recubrimiento TIN

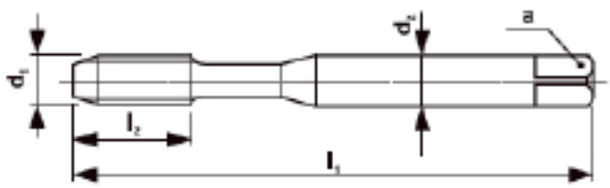




Referencia:								100-272	200-272	
Métrica	**P**	**l1**	**l2**	**d2**	**a**			**DIN 371**	**DIN 376**	
M3	0,5	56	9	3,5	2,7	3		•		
M4	0,7	63	12	4,5	3,4	3		•		
M5	0,8	70	13	6	4,9	3		•		
M6	1	80	15	6	4,9	3		•		
M8	1,25	90	18	8	6,2	3		•		
M10	1,5	100	20	10	8	3		•		
M12	1,75	110	23	9	7	3			•	
M14	2	110	25	11	9	3			•	
M16	2	110	25	12	9	3			•	
M18	2,5	125	30	14	11	3			•	
M20	2,5	140	30	16	12	3			•	

Macho Rosca Métrica - UNI - Pasante

- Uso Universal
- 60º
- DIN 13
- DIN 371 - 376
- ISO 2 6HX / 6GX
- Forma B - 3.5-6
- PM
- Recubrimiento HL

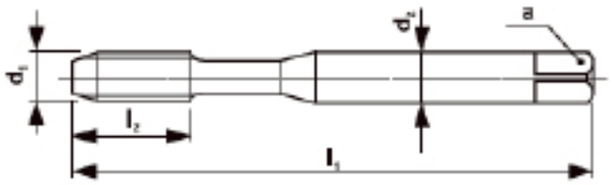




Referencia:							100-295	100-295	200-295	200-295
Métrica	**P**	**l1**	**l2**	**d2**	**a**		**DIN 371 ISO2 6HX**	**DIN 371 ISO3 6 GX**	**DIN 376 ISO2 6HX**	**DIN 376 ISO3 6GX**
M2	0,4	45	8	2,8	2,1	3	•			
M2,5	0,45	50	9	2,8	2,1	3	•			
M3	0,5	56	11	3,5	2,7	3	•	•		
M4	0,7	63	13	4,5	3,4	3	•	•		
M5	0,8	70	16	6	4,9	3	•	•		
M6	1	80	19	6	4,9	3	•	•		
M8	1,25	90	22	8	6,2	3	•	•		
M10	1,5	100	24	10	8	3	•	•		
M12	1,75	110	28	9	7	3			•	•
M14	2	110	30	11	9	4			•	
M16	2	110	32	12	9	4			•	•
M18	2,5	140	34	16	12	4			•	•
M20	3	160	38	18	14,5	3			•	
M27	3	160	38	20	16	4			•	
M30	3,5	180	45	22	18	4			•	

Macho Rosca Métrica - UNI - Ciego

- Uso Universal
- 60º
- DIN 13
- DIN 371 - 376
- ISO 2 6H
- Forma C - 2-3 - RSP35º
- HSSE
- Recubrimiento TIN

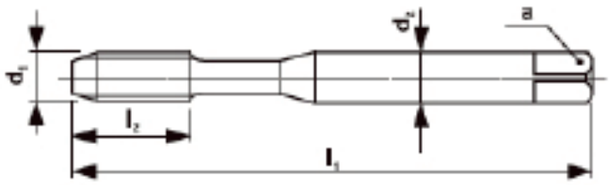




Referencia:								100-672	200-672	
Métrica	**P**	**l1**	**l2**	**d2**	**a**	**Z**		**DIN 371**	**DIN 376**	
M3	0,5	56	5	3,5	2,7	3		•		
M4	0,7	63	7	4,5	3,4	3		•		
M5	0,8	70	8	6	4,9	3		•		
M6	1	80	10	6	4,9	3		•		
M8	1,25	90	13	8	6,2	3		•		
M10	1,5	100	15	10	8	3		•		
M12	1,75	110	18	9	7	3			•	
M14	2	110	20	11	9	3			•	
M16	2	110	20	12	9	4			•	
M18	2,5	125	25	14	11	4			•	
M20	2,5	140	25	16	12	4			•	

Macho Rosca Métrica - UNI - Ciego

- Uso Universal
- 60º
- DIN 13
- DIN 371 - 376
- ISO 2 6HX / 6GX
- Forma C - 2-3 - RSP50º
- PM
- Recubrimiento HL

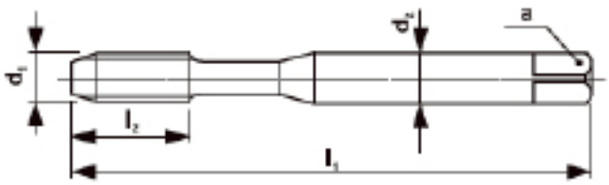




Referencia:							100-695	100-695	200-695	200-695
Métrica	**P**	**l1**	**l2**	**d2**	**a**	**Z**	**DIN 371 ISO2 6HX**	**DIN 371 ISO3 6 GX**	**DIN 376 ISO2 6HX**	**DIN 376 ISO3 6GX**
M2	0,4	45	8	2,8	2,1	3	•			
M2,5	0,45	50	9	2,8	2,1	3	•			
M3	0,5	56	11	3,5	2,7	3	•	•		
M4	0,7	63	13	4,5	3,4	3	•	•		
M5	0,8	70	16	6	4,9	3	•	•		
M6	1	80	19	6	4,9	3	•	•		
M8	1,25	90	22	8	6,2	3	•	•		
M10	1,5	100	24	10	8	3	•	•		
M12	1,75	110	28	9	7	3			•	•
M14	2	110	30	11	9	3			•	
M16	2	110	32	12	9	3			•	•
M18	2,5	140	34	16	12	3			•	•
M20	3	160	38	18	14,5	4			•	
M27	3	160	38	20	16	5			•	
M30	3,5	180	45	22	18	5			•	

Macho Rosca Gas - Pasante

- 55º
- DIN ISO 228
- DIN 5156
- Forma B - 3.5-6
- Forma C - 2-3
- HSSE

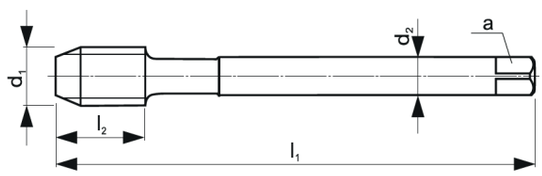




Referencia:								203-400	203-100	203-102
G	P	l1	l2	d2	a	Z		FORMA C	FORMA B	FORMA B TIN
G1/8″	28	90	20	7	5,5	3		•	•	•
G1/4″	19	100	21	11	9	3		•	•	•
G3/8″	19	100	21	12	9	3		•	•	•
G1/2″	14	125	24	16	12	3		•	•	•
G5/8″	14	125	24	18	14,5	4		•	•	•
G3/4″	14	140	26	20	16	4		•	•	•
G7/8″	14	150	28	22	18	4		•	•	•
G1″	11	160	30	25	20	4		•	•	•
G1 1/8″	11	170	30	28	22	4		•	•	•
G1 1/4″	11	170	30	32	24	4		•	•	•
G1 3/8″	11	180	32	36	29	4		•	•	
G1 1/2″	11	190	32	36	29	6		•	•	•
G1 3/4″	11	190	32	40	32	6		•	•	
G2″	11	220	40	45	35	6		•	•	•

Machos de Roscado Gas - Pasante - INOX

- Para Inoxidables
- 55º
- DIN ISO 228
- DIN 5156
- Forma B - 3.5-6
- HSSE

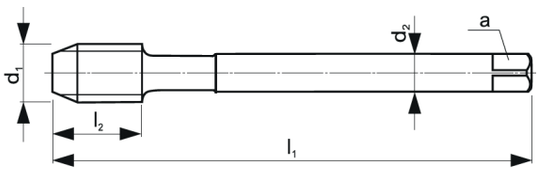




Referencia:								203-201	203-202	
G	P	l1	l2	d2	a	Z		OX	TIN	
G1/8″	28	90	20	7	5,5	3		•	•	
G1/4″	19	100	21	11	9	3		•	•	
G3/8″	19	100	21	12	9	3		•	•	
G1/2″	14	125	24	16	12	3		•	•	
G5/8″	14	125	24	18	14,5	4		•	•	
G3/4″	14	140	26	20	16	4		•	•	
G7/8″	14	150	28	22	18	4		•	•	
G1″	11	160	30	25	20	4		•	•	
G1 1/8″	11	170	30	28	22	4		•	•	
G1 1/4″	11	170	30	32	24	4		•	•	
G1 3/8″	11	180	32	36	29	4		•	•	
G1 1/2″	11	190	32	36	29	6		•	•	

Macho Rosca Gas - Ciego

- 55º
- DIN ISO 228
- DIN 5156
- Forma C - 2-3
- HSSE

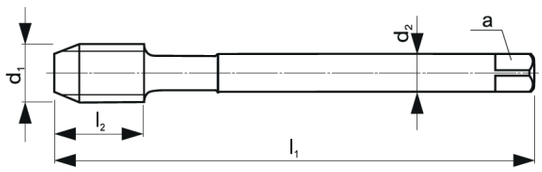




Referencia:								203-400	203-100	
G	P	l1	l2	d2	a	Z			TIN	
G1/8″	28	90	20	7	5,5	3		•	•	
G1/4″	19	100	21	11	9	3		•	•	
G3/8″	19	100	21	12	9	3		•	•	
G1/2″	14	125	24	16	12	3		•	•	
G5/8″	14	125	24	18	14,5	4		•	•	
G3/4″	14	140	26	20	16	4		•	•	
G7/8″	14	150	28	22	18	4		•	•	
G1″	11	160	30	25	20	4		•	•	
G1 1/8″	11	170	30	28	22	4		•	•	
G1 1/4″	11	170	30	32	24	4		•	•	
G1 1/2″	11	190	32	36	29	6		•	•	

Macho Rosca Gas - Ciego - INOX

- 55º
- DIN ISO 228
- DIN 5156
- Forma C - 2-3
- RSP 35º
- HSSE

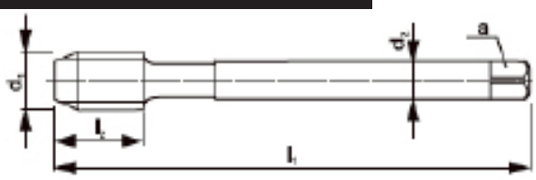




Referencia:								203-601	203-602	
G	P	l1	l2	d2	a	Z		OX	TIN	
G1/8″	28	90	20	7	5,5	3		•	•	
G1/4″	19	100	21	11	9	3		•	•	
G3/8″	19	100	21	12	9	3		•	•	
G1/2″	14	125	24	16	12	3		•	•	
G5/8″	14	125	24	18	14,5	4		•	•	
G3/4″	14	140	26	20	16	4		•	•	
G7/8″	14	150	28	22	18	4		•	•	
G1″	11	160	30	25	20	4		•	•	
G1 1/8″	11	170	30	28	22	4		•	•	
G1 1/4″	11	170	30	32	24	4		•	•	
G1 1/2″	11	190	32	36	29	6		•	•	

Macho Rosca UNC

- 60º
- DIN 371
- ISO 2B
- Forma C 2-3
- HSSE

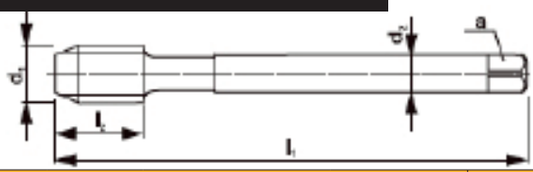




Referencia:								101-400	101-100	101-500
UNC	P	l1	l2	l2 RSP35º	d2	a	Z	FORMA C	FORMA B	FORMA C RSP 35º
UNC5	40	56	9	5	3,5	2,7	3	•	•	•
UNC6	32	56	11	7	4	3	3	•	•	•
UNC8	32	63	12	7	4,5	3,4	3	•	•	•
UNC10	24	70	13	8	6	4,9	3	•	•	•
UNC12	24	80	15	10	6	4,9	3	•	•	•
UNC1/4	20	80	15	10	7	5,5	3	•	•	•
UNC5/16	18	90	18	13	8	6,2	3	•	•	•
UNC3/8	16	90	20	15	9	7	3	•	•	•

Macho Rosca UNC

- 60º
- DIN 13
- DIN 376
- ISO 2B
- Forma B - 3.5-6
- HSSE

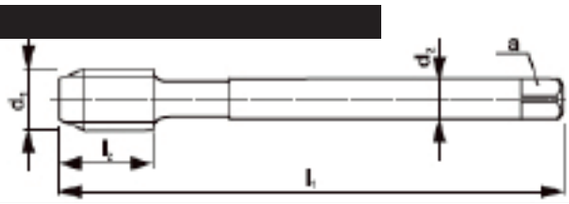




Referencia:								101-400	101-100	101-500
UNC	P	l1	l2	d2	a	Z RSP35º		FORMA C	FORMA B	RSP 35º
UNC7/16	14	100	20	8	6,2	3/3		•	•	•
UNC1/2	13	110	23	9	7	3/3		•	•	•
UNC9/16	12	110	25	11	9	3/3		•	•	•
UNC5/8	11	110	25	12	9	3/3		•	•	•
UNC3/4	10	125	30	14	11	3/4		•	•	•
UNC7/8	9	140	30	18	14,5	3/4		•	•	•
UNC1	8	160	36	18	14,5	3/4		•	•	•
UNC1 1/8	7	180	40	22	18	4/-		•	•	•

Macho Rosca UNF

- 60º
- DIN 13
- DIN 374
- ISO 2B
- Forma C - 2-3
- HSSE

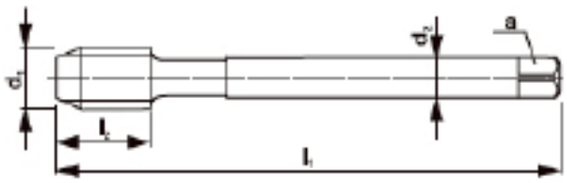




Referencia:								302-400	302-100	302-500
UNF	P	l1	l2	d2	a	Z RSP35º		FORMA C	FORMA B	RSP 35º
UNF5	44	56	9	2,2	-	3/3		•	•	•
UNF6	40	56	11	2,5	2,1	3/3		•	•	•
UNF8	36	63	12	2,8	2,1	3/3		•	•	•
UNF10	32	70	13	3,5	2,7	3/3		•	•	•
UNF12	28	80	15	4	3	3/3		•	•	•
UNF1/4	28	80	15	4,5	3,4	3/3		•	•	•
UNF5/16	24	90	18	6	4,9	3/3		•	•	•
UNF3/8	24	90	20	7	5,5	3/3		•	•	•
UNF7/16	20	100	20	8	6,2	3/3		•	•	•
UNF1/2	20	100	21	9	7	3/3		•	•	•
UNF9/16	18	100	21	11	9	3/3		•	•	•
UNF5/8	18	100	21	12	9	3/3		•	•	•
UNF3/4	16	110	24	14	11	3/4		•	•	•
UNF7/8	14	125	24	18	14,5	3/4		•	•	•
UNF1	12	140	26	18	14,5	3/4		•	•	•

Macho Rosca NPT

- Norma Especial
- 1:16
- Forma C 2-3
- 60º
- HSSE

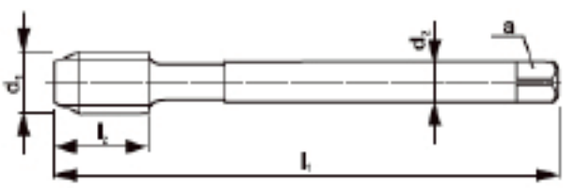




Referencia:								704-400	
NTP	P	l1	l2	d2	a	Z		FORMA B	
NPT1/8	27	65	15	7	5,5	4		•	
NPT1/4	18	70	22	11	9	4		•	
NPT3/8	18	75	23	12	9	4		•	
NPT1/2	14	80	30	16	12	4		•	
NPT3/1	14	100	31	20	16	4		•	
NPT1	11,5	110	36	25	20	4		•	
NPT1 1/4	11,5	125	36	32	24	4		•	
NPT1 1/2	11,5	140	36	36	29	6		•	
NPT2	11,5	160	36,5	36	29	6		•	

Macho Rosca PG

- 80º
- DIN 40 433
- Forma C - 2-3
- HSSE

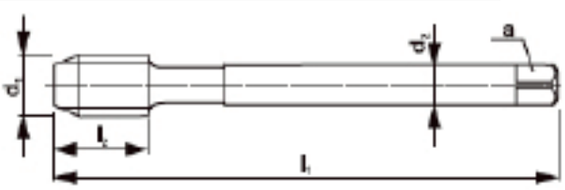




Referencia:								705-400	
PG	P	l1	l2	d2	a	Z			
PG7	20	70	22	9	7	4		•	
PG9	18	70	22	12	9	4		•	
PG11	18	80	22	14	11	4		•	
PG13,5	18	80	22	16	12	4		•	
PG16	18	80	22	18	14,5	4		•	
PG21	16	90	22	22	18	4		•	
PG29	16	100	25	28	22	4		•	

Set de Machos Rosca Mano Métrica - INOX

- Uso Inoxidables
- 60º
- Forma C - 2-3
- Recubrimiento OX





Referencia:								400-091	
Métrica	P	l1	l2	d2	a	Z		OX	
M3	0,5	40	9	3,5	2,7	3		•	
M4	0,7	45	12	4,5	3,4	3		•	
M5	0,8	50	13	6	4,9	3		•	
M6	1	56	15	6	4,9	3		•	
M8	1,25	63	18	6	4,9	3		•	
M10	1,5	70	20	7	5,5	3		•	
M12	1,75	75	23	9	7	3		•	
M14	2	80	25	11	9	4		•	
M16	2	80	25	12	9	4		•	
M18	2,5	95	30	14	11	4		•	
M20	2,5	95	30	16	12	4		•	

Set Machos Rosca Mano Métrica

- 60º
- DIN 13
- DIN 352
- ISO 2 6H
- Forma C - 2-3
- HSS





Referencia:								400-070	
Métrica	**P**	**l1**	**l2**	**d2**	**a**	**Z**			
M3	0,5	40	9	3,5	2,7	3		•	
M3,5	0,6	45	11	4	3	3		•	
M4	0,7	45	12	4,5	3,4	3		•	
M4,5	0,75	50	13	6	4,9	3		•	
M5	0,8	50	13	6	4,9	3		•	
M6	1	56	15	6	4,9	3		•	
M7	1	56	15	6	4,9	3		•	
M8	1,25	63	18	6	4,9	3		•	
M9	1,25	63	18	7	5,5	3		•	
M10	1,5	70	20	7	5,5	3		•	
M11	1,5	70	20	8	6,2	3		•	
M12	1,75	75	23	9	7	3		•	
M14	2	80	25	11	9	4		•	
M16	2	80	25	12	9	4		•	
M18	2,5	95	30	14	11	4		•	
M20	2,5	95	30	16	12	4		•	
M22	2,5	100	30	18	14,5	4		•	
M24	3	110	34	18	14,5	4		•	
M27	3	110	34	20	16	4		•	
M30	3,5	125	40	22	18	4		•	
M33	3,5	125	40	25	20	4		•	
M36	4	150	50	28	22	4		•	
M39	4	150	50	32	24	4		•	
M42	4,5	150	56	32	24	4		•	
M45	4,5	160	58	36	29	6		•	
M48	5	180	65	36	29	6		•	
M52	5	180	65	40	32	6		•	

Set Machos Rosca Mano Métrica Fina

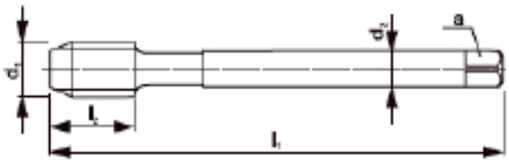
- 60º
- DIN 13
- DIN 2181 - ISO 2 6H
- Forma C - 2-3
- HSS



Referencia:								400-080	
Métrica	**P**	**l1**	**l2**	**d2**	**a**	**Z**			
M4,5	0,5	50	10	6	4,9	3		•	
M5,5	0,5	56	11	6	4,9	3		•	
M5	0,5	50	10	6	4,9	3		•	
M6	0,75	56	11	6	4,9	3		•	
M6	0,5	56	11	6	4,9	3		•	
M7	0,75	56	11	6	4,9	3		•	
M8	1	63	18	6	4,9	3		•	
M8	0,75	56	14	6	4,9	3		•	
M8	0,5	56	14	6	4,9	3		•	
M9	1	63	18	7	5,5	3		•	
M9	0,75	56	14	7	5,5	3		•	

Set Machos Rosca Mano Métrica Fina

- 60º
- DIN 13
- DIN 2181
- ISO 2 6H
- Forma C - 2-3
- HSS

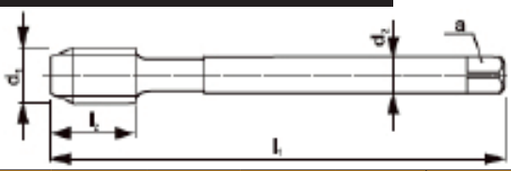




Referencia:								400-080	
Métrica	**P**	**l1**	**l2**	**d2**	**a**	**Z**			
M10	1,25	70	20	7	5,5	3		•	
M10	1	63	18	7	5,5	3		•	
M10	0,75	63	18	7	5,5	3		•	
M11	1	63	18	8	6,2	3		•	
M12	1,5	70	20	9	7	3		•	
M12	1,25	70	20	9	7	3		•	
M12	1	70	18	9	7	3		•	
M13	1	70	18	11	9	3		•	
M14	1,5	70	20	11	9	4		•	
M14	1,25	70	20	11	9	4		•	
M14	1	70	18	11	9	4		•	
M15	1,5	70	20	12	9	4		•	
M15	1	70	18	12	9	4		•	
M16	1,5	70	20	12	9	4		•	
M16	1	70	18	12	9	4		•	
M17	1	70	18	12	9	4		•	
M18	2	80	22	14	11	4		•	
M18	1,5	80	22	14	11	4		•	
M18	1	80	18	14	11	4		•	
M20	2	80	22	16	12	4		•	
M20	1,5	80	22	16	12	4		•	
M20	1	80	18	16	12	4		•	
M22	2	80	22	18	14,5	4		•	
M22	1,5	80	22	18	14,5	4		•	
M22	1	80	18	18	14,5	4		•	
M24	2	90	22	18	14,5	4		•	
M24	1,5	90	22	18	14,5	4		•	
M24	1	90	18	18	14,5	4		•	
M25	1,5	90	22	18	14,5	4		•	
M26	1,5	90	22	18	14,5	4		•	
M27	2	90	22	20	16	4		•	
M27	1,5	90	22	20	16	4		•	
M27	1	90	18	20	16	4		•	
M28	2	90	22	20	16	4		•	
M28	1,5	90	22	20	16	4		•	
M30	2	90	22	22	18	4		•	
M30	1,5	90	22	22	18	4		•	
M30	1	90	18	22	18	4		•	
M32	1,5	90	22	22	18	4		•	
M33	2	100	25	25	20	4		•	
M33	1,5	100	25	25	20	4		•	
M34	1,5	100	25	28	22	4		•	
M35	1,5	100	25	28	22	4		•	

Set Machos Rosca Mano Métrica Fina

- 60º
- DIN 13
- DIN 2181 - ISO 2 6H
- Forma C - 2-3
- HSS

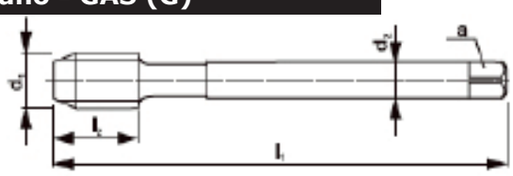




Referencia:								400-080	
Métrica	**P**	**l1**	**l2**	**d2**	**a**	**Z**			
M36	3	125	36	28	22	4		•	
M36	2	125	30	28	22	4		•	
M36	1,5	100	25	28	22	4		•	
M38	1,5	100	25	28	22	4		•	
M39	3	125	36	32	24	4		•	
M39	2	125	30	32	24	4		•	
M39	1,5	110	25	32	24	4		•	
M40	3	125	36	32	24	4		•	
M40	2	125	30	32	24	4		•	
M40	1,5	110	25	32	24	4		•	
M42	3	125	36	32	24	4		•	
M42	2	125	30	32	24	4		•	
M42	1,5	110	25	32	24	4		•	
M45	3	125	36	36	29	6		•	
M45	2	125	30	36	29	6		•	
M45	1,5	110	25	36	29	6		•	
M48	3	140	36	36	29	6		•	
M48	2	140	30	36	29	6		•	
M48	1,5	140	25	36	29	6		•	
M50	3	140	36	36	29	6		•	
M50	2	140	30	36	29	6		•	
M50	1,5	140	25	36	29	6		•	
M52	3	140	40	40	32	6		•	
M52	2	140	32	40	32	6		•	
M52	1,5	140	25	40	32	6		•	

Set Machos Rosca Mano - GAS (G)

- 55º
- DIN ISO 228
- DIN 5157
- Forma C - 2-3
- HSS

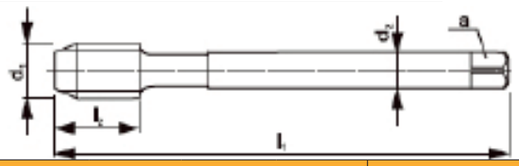




Referencia:								403-080	
G	**P**	**l1**	**l2**	**d2**	**a**	**Z**			
G1/8"	28	63	18	7	5,5	3		•	
G1/4"	19	70	20	11	9	3		•	
G3/8"	19	70	20	12	9	3		•	
G1/2"	14	80	22	16	12	3		•	
G5/8"	14	80	22	18	14,5	4		•	
G3/4"	14	90	22	20	16	4		•	
G7/8"	14	90	22	22	18	4		•	
G1"	11	100	25	25	20	4		•	
G1 1/8"	11	125	30	28	22	4		•	
G1 1/4"	11	125	30	32	24	4		•	
G1 1/2"	11	140	30	36	29	6		•	
G1 3/4"	11	140	32	40	32	6		•	
G2"	11	160	36	45	35	6		•	

Set Machos Rosca Mano - UNC

- 60º
- DIN 352
- ISO 2B
- Forma C - 2-3
- HSS

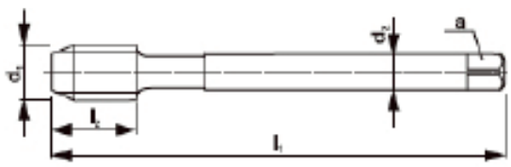




Referencia:								401-070	
UNC	**P**	**l1**	**l2**	**d2**	**a**	**Z**			
UNC5	40	40	10	3,5	2,7	3		•	
UNC6	32	45	11	4	3	3		•	
UNC8	32	45	12	4,5	3,4	3		•	
UNC10	24	50	14	6	4,9	3		•	
UNC12	24	56	16	6	4,9	3		•	
UNC1/4	20	56	16	6	4,9	3		•	
UNC5/16	18	63	20	6	4,9	3		•	
UNC3/8	16	70	22	7	5,5	3		•	
UNC7/16	14	70	22	8	6,2	3		•	
UNC1/2	13	75	25	9	7	3		•	
UNC9/16	12	80	26	11	9	3		•	
UNC5/8	11	80	27	12	9	3		•	
UNC3/4	10	95	32	14	11	4		•	
UNC7/8	9	100	32	18	14,5	4		•	
UNC1	8	110	36	18	14,5	4		•	

Set Machos Rosca Mano - UNF

- 60º
- DIN 2121
- ISO 2B
- Forma C - 2-3
- HSS





Referencia:								402-080	
UNF	**P**	**l1**	**l2**	**d2**	**a**	**Z**			
UNF5	44	40	10	3,5	2,7	3		•	
UNF6	40	45	11	4	3	3		•	
UNF8	36	45	12	4,5	3,4	3		•	
UNF10	32	50	14	6	4,9	3		•	
UNF12	28	56	16	6	4,9	3		•	
UNF1/4	28	56	16	6	4,9	3		•	
UNF5/16	24	63	18	6	4,9	3		•	
UNF3/8	24	63	18	7	5,5	3		•	
UNF7/16	20	70	20	8	6,2	3		•	
UNF1/2	20	70	20	9	7	3		•	
UNF9/16	18	70	20	11	9	3		•	
UNF5/8	18	70	20	12	9	3		•	
UNF3/4	16	80	22	14	11	4		•	
UNF7/8	14	80	22	18	14,5	4		•	
UNF1	12	80	22	18	14,5	4		•	

Terrajas de Rosca - Métrica

- 60º
- DIN 13
- DIN EN 22 568
- ISO 6g
- HSS



Referencia:				090-010
Métrica	**P**	**d**	**e**	
M2	0,4	16	5	•
M2,5	0,45	16	5	•
M3	0,5	20	5	•
M4	0,7	20	5	•
M5	0,8	20	7	•
M6	1	20	7	•
M6	0,75	20	7	•
M7	1	25	9	•
M8	1,25	25	9	•
M8	1	25	9	•
M8	0,75	25	9	•
M9	1,25	25	9	•
M10	1,5	30	11	•
M10	1,25	30	11	•
M10	1	30	11	•
M11	1,5	30	11	•
M12	1,75	38	14	•
M12	1,5	38	10	•
M12	1,25	38	10	•
M12	1	38	10	•
M14	2	38	14	•
M14	1,5	38	10	•
M14	1,25	38	10	•
M14	1	38	10	•

Referencia:				090-010
Métrica	**P**	**d**	**e**	
M16	2	45	18	•
M16	1,5	45	14	•
M16	1	45	14	•
M18	2,5	45	18	•
M18	2	45	14	•
M18	1,5	45	14	•
M20	2,5	45	18	•
M20	1,5	45	14	•
M20	1	45	14	•
M22	2,5	55	22	•
M22	2	55	16	•
M22	1,5	55	16	•
M22	1	55	16	•
M24	3	55	22	•
M24	2	55	16	•
M24	1,5	55	16	•
M24	1	55	16	•
M27	3	65	25	•
M30	3,5	65	25	•
M33	3,5	65	25	•
M36	4	65	25	•

Terrajas de Rosca - Gas (G)



- 55º
- DIN ISO 228
- DIN EN 24 231
- Tipo A
- Paso 1.5
- HSS

Referencia:				093-010
G	**P**	**d**	**e**	
G1/8"	28	30	11	•
G1/4"	19	38	10	•
G3/8"	19	45	14	•
G1/2"	14	45	14	•
G5/8"	14	55	16	•
G3/4"	14	55	16	•
G1"	11	65	18	•
G1 1/8"	11	75	20	•
G1 1/4"	11	75	20	•
G1 1/2"	11	90	22	•

Fluido de Corte - NX



Revolucionario aceite de corte que proporciona hasta un 400% mas de vida en las herramientas. Un aceite de corte que ha sido desarollado para y con los talleres de mecanizado para obtejer el maximo rendimiento del aceite y de la herramienta ya que busca los siguientes objetivos en su uso diario.

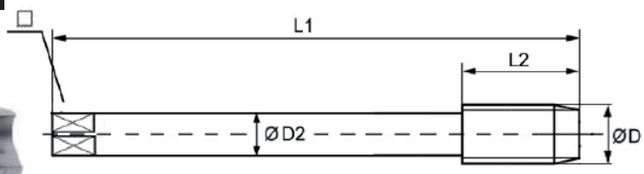
- Aumento de la vida de las herramientas
- Menor esfuerzo de las maquinas al trabajar
- Menor emision de humos o vapores
- Mejor acabado de los trabajos
- Anticorrosivo
- Eliminacion de olores al mecanizar
- Ahorro de costes debido a su mejor aprovechamiento.

Referencia	Características
CGM-NX	5 Litros/Kg

Macho Métrica Fina - Pasante B | Derecha / Izquierda

- DIN 13
- ISO 2 - 6 H
- HSSE
- Forma B - 4-5



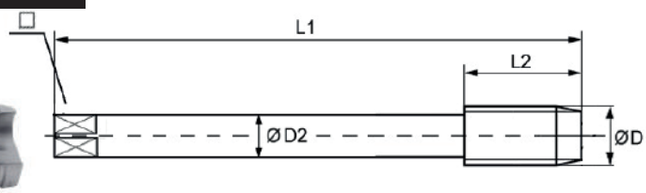


MF	D	D1	H	D2	□	DERECHA	IZQUIERDA
MF 3 x 0,35	3,0	2,2	56	9	-	B-120401001	B-120402001
MF 4 x 0,35	4,0	2,8	63	10	2,1	B-120401002	B-120402002
MF 4 x 0,5	4,0	2,8	63	10	2,1	B-120401003	B-120402003
MF 5 x 0,5	5,0	3,5	70	12	2,7	B-120401004	B-120402004
MF 5 x 0,75	5,0	3,5	70	12	2,7	B-120401005	B-120402005
MF 6 x 0,5	6,0	4,5	80	14	3,4	B-120401006	B-120402006
MF 6 x 0,75	6,0	4,5	80	14	3,4	B-120401007	B-120402007
MF 7 x 0,75	7,0	5,5	80	14	4,3	B-120401008	B-120402008
MF 8 x 0,5	8,0	6,0	80	19	4,9	B-120401009	B-120402009
MF 8 x 0,75	8,0	6,0	80	19	4,9	B-120401010	B-120402010
MF 8 x 1,0	8,0	6,0	90	22	4,9	B-120401011	B-120402011
MF 9 x 0,75	9,0	7,0	80	19	5,5	B-120401012	B-120402012
MF 9 x 1,0	9,0	7,0	90	22	5,5	B-120401013	B-120402013
MF 10 x 0,75	10,0	7,0	90	20	5,5	B-120401014	B-120402014
MF 10 x 1,0	10,0	7,0	90	20	5,5	B-120401015	B-120402015
MF 10 x 1,25	10,0	7,0	100	24	5,5	B-120401016	B-120402016
MF 11 x 1,0	11,0	8,0	90	20	6,2	B-120401017	B-120402017
MF 11 x 1,25	11,0	8,0	90	22	6,2	B-120401018	B-120402018
MF 12 x 0,75	12,0	9,0	100	22	7,0	B-120401019	B-120402019
MF 12 x 1,0	12,0	9,0	100	22	7,0	B-120401020	B-120402020
MF 12 x 1,25	12,0	9,0	100	22	7,0	B-120401021	B-120402021
MF 12 x 1,5	12,0	9,0	100	22	7,0	B-120401022	B-120402022
MF 13 x 1,0	13,0	11,0	100	22	9,0	B-120401023	B-120402023
MF 13 x 1,5	13,0	11,0	100	22	9,0	B-120401024	B-120402024
MF 14 x 0,75	14,0	11,0	100	22	9,0	B-120401025	B-120402025
MF 14 x 1,0	14,0	11,0	100	22	9,0	B-120401026	B-120402026
MF 14 x 1,25	14,0	11,0	100	22	9,0	B-120401027	B-120402027
MF 14 x 1,5	14,0	11,0	100	22	9,0	B-120401028	B-120402028
MF 15 x 1,0	15,0	12,0	100	22	9,0	B-120401029	B-120402029
MF 15 x 1,5	15,0	12,0	100	22	9,0	B-120401030	B-120402030
MF 16 x 1,0	16,0	12,0	100	22	9,0	B-120401031	B-120402031
MF 16 x 1,25	16,0	12,0	100	22	9,0	B-120401032	B-120402032
MF 16 x 1,5	16,0	12,0	100	22	9,0	B-120401033	B-120402033
MF 18 x 1,0	18,0	14,0	110	25	11,0	B-120401034	B-120402034
MF 18 x 1,25	18,0	14,0	110	25	11,0	B-120401035	B-120402035
MF 18 x 1,5	18,0	14,0	110	25	11,0	B-120401036	B-120402036
MF 18 x 2,0	18,0	14,0	125	34	11,0	B-120401037	B-120402037
MF 20 x 1,0	20,0	16,0	125	25	12,0	B-120401038	B-120402038
MF 20 x 1,25	20,0	16,0	125	25	12,0	B-120401039	B-120402039
MF 20 x 1,5	20,0	16,0	125	25	12,0	B-120401040	B-120402040
MF 20 x 2,0	20,0	16,0	140	34	12,0	B-120401041	B-120402041
MF 21 x 1,5	21,0	16,0	125	25	12,0	B-120401042	B-120402042
MF 22 x 1,0	22,0	18,0	125	25	14,5	B-120401043	B-120402043
MF 22 x 1,25	22,0	18,0	125	25	14,5	B-120401044	B-120402044
MF 22 x 1,5	22,0	18,0	125	25	14,5	B-120401045	B-120402045
MF 22 x 2,0	22,0	18,0	140	34	14,5	B-120401046	B-120402046
MF 23 x 1,5	23,0	18,0	125	25	14,5	B-120401047	B-120402047
MF 24 x 1,0	24,0	18,0	140	28	14,5	B-120401048	B-120402048
MF 24 x 1,25	24,0	18,0	140	28	14,5	B-120401049	B-120402049
MF 24 x 1,5	24,0	18,0	140	28	14,5	B-120401050	B-120402050
MF 24 x 2,0	24,0	18,0	140	28	14,5	B-120401051	B-120402051

Macho Métrica Fina - Pasante B | Derecha / Izquierda

- DIN 13
- ISO 2 - 6 H
- HSSE
- Forma B - 4-5



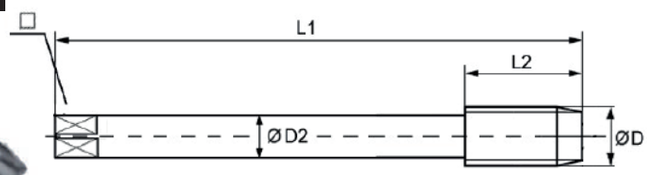


MF	D	D1	H	D2	□	DERECHA	IZQUIERDA
MF 25 x 1,0	25,0	18,0	140	28	14,5	B-120401052	B-120402052
MF 25 x 1,5	25,0	18,0	140	28	14,5	B-120401053	B-120402053
MF 26 x 1,0	26,0	18,0	140	28	14,5	B-120401054	B-120402054
MF 26 x 1,5	26,0	18,0	140	28	14,5	B-120401055	B-120402055
MF 26 x 2,0	26,0	18,0	140	28	14,5	B-120401056	B-120402056
MF 27 x 1,0	27,0	20,0	140	28	16,0	B-120401057	B-120402057
MF 27 x 1,5	27,0	20,0	140	28	16,0	B-120401058	B-120402058
MF 27 x 2,0	27,0	20,0	140	28	16,0	B-120401059	B-120402059
MF 28 x 1,0	28,0	20,0	140	28	16,0	B-120401060	B-120402060
MF 28 x 1,5	28,0	20,0	140	28	16,0	B-120401061	B-120402061
MF 28 x 2,0	28,0	20,0	140	28	16,0	B-120401062	B-120402062
MF 29 x 1,5	29,0	22,0	150	28	18,0	B-120401063	B-120402063
MF 30 x 1,0	30,0	22,0	150	28	18,0	B-120401064	B-120402064
MF 30 x 1,5	30,0	22,0	150	28	18,0	B-120401065	B-120402065
MF 30 x 2,0	30,0	22,0	150	28	18,0	B-120401066	B-120402066
MF 30 x 2,5	30,0	22,0	180	45	18,0	B-120401067	B-120402067
MF 30 x 3,0	30,0	22,0	180	45	18,0	B-120401068	B-120402068
MF 32 x 1,5	32,0	22,0	150	28	18,0	B-120401069	B-120402069
MF 32 x 2,0	32,0	22,0	150	28	18,0	B-120401070	B-120402070
MF 32 x 3,0	32,0	22,0	180	50	18,0	B-120401071	B-120402071
MF 33 x 1,5	33,0	25,0	160	30	20,0	B-120401072	B-120402072
MF 33 x 2,0	33,0	25,0	160	30	20,0	B-120401073	B-120402073
MF 33 x 3,0	33,0	25,0	180	50	20,0	B-120401074	B-120402074
MF 34 x 1,5	34,0	28,0	170	30	22,0	B-120401075	B-120402075
MF 34 x 2,0	34,0	28,0	170	30	22,0	B-120401076	B-120402076
MF 35 x 1,5	35,0	28,0	170	30	22,0	B-120401077	B-120402077
MF 36 x 1,5	36,0	28,0	170	30	22,0	B-120401078	B-120402078
MF 36 x 2,0	36,0	28,0	170	30	22,0	B-120401079	B-120402079
MF 36 x 3,0	36,0	28,0	200	56	22,0	B-120401080	B-120402080
MF 38 x 1,5	38,0	28,0	170	30	22,0	B-120401081	B-120402081
MF 39 x 1,5	39,0	32,0	170	30	24,0	B-120401082	B-120402082
MF 39 x 2,0	39,0	32,0	170	30	24,0	B-120401083	B-120402083
MF 39 x 3,0	39,0	32,0	200	60	24,0	B-120401084	B-120402084
MF 40 x 1,5	40,0	32,0	170	30	24,0	B-120401085	B-120402085
MF 40 x 2,0	40,0	32,0	170	30	24,0	B-120401086	B-120402086
MF 40 x 3,0	40,0	32,0	200	60	24,0	B-120401087	B-120402087
MF 42 x 1,5	42,0	32,0	170	30	24,0	B-120401088	B-120402088
MF 42 x 2,0	42,0	32,0	170	30	24,0	B-120401089	B-120402089
MF 42 x 3,0	42,0	32,0	200	60	24,0	B-120401090	B-120402090
MF 45 x 1,5	45,0	36,0	180	32	29,0	B-120401091	B-120402091
MF 45 x 2,0	45,0	36,0	180	32	29,0	B-120401092	B-120402092
MF 45 x 3,0	45,0	36,0	200	50	29,0	B-120401093	B-120402093
MF 48 x 1,5	48,0	36,0	190	32	29,0	B-120401094	B-120402094
MF 48 x 2,0	48,0	36,0	190	32	29,0	B-120401095	B-120402095
MF 48 x 3,0	48,0	36,0	225	50	29,0	B-120401096	B-120402096
MF 50 x 1,5	50,0	36,0	190	32	29,0	B-120401097	B-120402097
MF 50 x 2,0	50,0	36,0	190	32	29,0	B-120401098	B-120402098
MF 50 x 3,0	50,0	36,0	225	50	29,0	B-120401099	B-120402099
MF 52 x 1,5	52,0	40,0	190	32	32,0	B-120401100	B-120402100
MF 52 x 2,0	52,0	40,0	190	32	32,0	B-120401101	B-120402101
MF 52 x 3,0	52,0	40,0	225	50	32,0	B-120401102	B-120402102
MF 63 x 1,5	63,0	50,0	275	50	39,0	B-120401103	-

Macho Métrica Fina - Ciego C | Derecha / Izquierda

- DIN 13
- ISO 2 - 6 H
- HSSE
- Forma C - 35º - 2-3



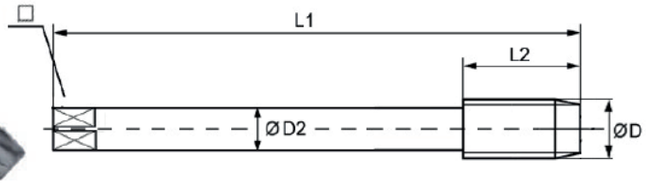


MF	D	D1	H	D2	□	DERECHA	IZQUIERDA
MF 3 x 0,35	3,0	2,2	56	5	-	B-120601001	B-120602001
MF 4 x 0,35	4,0	2,8	63	5	2,1	B-120601002	B-120602002
MF 4 x 0,5	4,0	2,8	63	5	2,1	B-120601003	B-120602003
MF 5 x 0,5	5,0	3,5	70	5	2,7	B-120601004	B-120602004
MF 5 x 0.75	5,0	3,5	70	8	2,7	B-120601005	B-120602005
MF 6 x 0,5	6,0	4,5	80	5	3,4	B-120601006	B-120602006
MF 6 x 0,75	6,0	4,5	80	8	3,4	B-120601007	B-120602007
MF 7 x 0,75	7,0	5,5	80	8	4,3	B-120601008	B-120602008
MF 8 x 0,5	8,0	6,0	80	8	4,9	B-120601009	B-120602009
MF 8 x 0,75	8,0	6,0	80	8	4,9	B-120601010	B-120602010
MF 8 x 1,0	8,0	6,0	90	10	4,9	B-120601011	B-120602011
MF 9 x 0,75	9,0	7,0	80	10	5,5	B-120601012	B-120602012
MF 9 x 1,0	9,0	7,0	90	10	5,5	B-120601013	B-120602013
MF 10 x 0,75	10,0	7,0	90	10	5,5	B-120601014	B-120602014
MF 10 x 1,0	10,0	7,0	90	10	5,5	B-120601015	B-120602015
MF 10 x 1,25	10,0	7,0	100	16	5,5	B-120601016	B-120602016
MF 11 x 1,0	11,0	8,0	90	11	6,2	B-120601017	B-120602017
MF 11 x 1,25	11,0	8,0	90	14	6,2	B-120601018	B-120602018
MF 12 x 0,75	12,0	9,0	100	10	7,0	B-120601019	B-120602019
MF 12 x 1,0	12,0	9,0	100	11	7,0	B-120601020	B-120602020
MF 12 x 1,25	12,0	9,0	100	15	7,0	B-120601021	B-120602021
MF 12 x 1,5	12,0	9,0	100	15	7,0	B-120601022	B-120602022
MF 13 x 1,0	13,0	11,0	100	11	9,0	B-120601023	B-120602023
MF 13 x 1,5	13,0	11,0	100	15	9,0	B-120601024	B-120602024
MF 14 x 0,75	14,0	11,0	100	10	9,0	B-120601025	B-120602025
MF 14 x 1,0	14,0	11,0	100	11	9,0	B-120601026	B-120602026
MF 14 x 1,25	14,0	11,0	100	15	9,0	B-120601027	B-120602027
MF 14 x 1,5	14,0	11,0	100	15	9,0	B-120601028	B-120602028
MF 15 x 1,0	15,0	12,0	100	12	9,0	B-120601029	B-120602029
MF 15 x 1,5	15,0	12,0	100	15	9,0	B-120601030	B-120602030
MF 16 x 1,0	16,0	12,0	100	12	9,0	B-120601031	B-120602031
MF 16 x 1,25	16,0	12,0	100	15	9,0	B-120601032	B-120602032
MF 16 x 1,5	16,0	12,0	100	15	9,0	B-120601033	B-120602033
MF 18 x 1,0	18,0	14,0	110	13	11,0	B-120601034	B-120602034
MF 18 x 1,25	18,0	14,0	110	15	11,0	B-120601035	B-120602035
MF 18 x 1,5	18,0	14,0	110	17	11,0	B-120601036	B-120602036
MF 18 x 2,0	18,0	14,0	125	20	11,0	B-120601037	B-120602037
MF 20 x 1,0	20,0	16,0	125	14	12,0	B-120601038	B-120602038
MF 20 x 1,25	20,0	16,0	125	17	12,0	B-120601039	B-120602039
MF 20 x 1,5	20,0	16,0	125	17	12,0	B-120601040	B-120602040
MF 20 x 2,0	20,0	16,0	140	20	12,0	B-120601041	B-120602041
MF 21 x 1,5	21,0	16,0	125	17	12,0	B-120601042	B-120602042
MF 22 x 1,0	22,0	18,0	125	14	14,5	B-120601043	B-120602043
MF 22 x 1,25	22,0	18,0	125	17	14,5	B-120601044	B-120602044
MF 22 x 1,5	22,0	18,0	125	17	14,5	B-120601045	B-120602045
MF 22 x 2,0	22,0	18,0	140	20	14,5	B-120601046	B-120602046
MF 23 x 1,5	23,0	18,0	125	17	14,5	B-120601047	B-120602047
MF 24 x 1,0	24,0	18,0	140	15	14,5	B-120601048	B-120602048
MF 24 x 1,25	24,0	18,0	140	17	14,5	B-120601049	B-120602049
MF 24 x 1,5	24,0	18,0	140	20	14,5	B-120601050	B-120602050
MF 24 x 2,0	24,0	18,0	140	20	14,5	B-120601051	B-120602051

Macho Métrica Fina - Ciego C | Derecha / Izquierda

- DIN 13
- ISO 2 - 6 H
- HSSE
- Forma C - 35º - 2-3



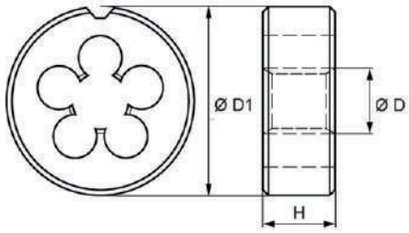


MF	D	D1	H	D2	□	DERECHA	IZQUIERDA
MF 25 x 1,0	25,0	18,0	140	15	14,5	B-120601052	B-120602052
MF 25 x 1,5	25,0	18,0	140	20	14,5	B-120601053	B-120602053
MF 26 x 1,0	26,0	18,0	140	15	14,5	B-120601054	B-120602054
MF 26 x 1,5	26,0	18,0	140	20	14,5	B-120601055	B-120602055
MF 26 x 2,0	26,0	18,0	140	20	14,5	B-120601056	B-120602056
MF 27 x 1,0	27,0	20,0	140	15	16,0	B-120601057	B-120602057
MF 27 x 1,5	27,0	20,0	140	20	16,0	B-120601058	B-120602058
MF 27 x 2,0	27,0	20,0	140	20	16,0	B-120601059	B-120602059
MF 28 x 1,0	28,0	20,0	140	15	16,0	B-120601060	B-120602060
MF 28 x 1,5	28,0	20,0	140	20	16,0	B-120601061	B-120602061
MF 28 x 2,0	28,0	20,0	140	20	16,0	B-120601062	B-120602062
MF 29 x 1,5	29,0	22,0	150	22	18,0	B-120601063	B-120602063
MF 30 x 1,0	30,0	22,0	150	17	18,0	B-120601064	B-120602064
MF 30 x 1,5	30,0	22,0	150	22	18,0	B-120601065	B-120602065
MF 30 x 2,0	30,0	22,0	150	22	18,0	B-120601066	B-120602066
MF 30 x 2,5	30,0	22,0	180	27	18,0	B-120601067	B-120602067
MF 30 x 3,0	30,0	22,0	180	30	18,0	B-120601068	B-120602068
MF 32 x 1,5	32,0	22,0	150	22	18,0	B-120601069	B-120602069
MF 32 x 2,0	32,0	22,0	150	22	18,0	B-120601070	B-120602070
MF 32 x 3,0	32,0	22,0	180	30	18,0	B-120601071	B-120602071
MF 33 x 1,5	33,0	25,0	160	24	20,0	B-120601072	B-120602072
MF 33 x 2,0	33,0	25,0	160	24	20,0	B-120601073	B-120602073
MF 33 x 3,0	33,0	25,0	180	30	20,0	B-120601074	B-120602074
MF 34 x 1,5	34,0	28,0	170	24	22,0	B-120601075	B-120602075
MF 34 x 2,0	34,0	28,0	170	24	22,0	B-120601076	B-120602076
MF 35 x 1,5	35,0	28,0	170	24	22,0	B-120601077	B-120602077
MF 36 x 1,5	36,0	28,0	170	24	22,0	B-120601078	B-120602078
MF 36 x 2,0	36,0	28,0	170	24	22,0	B-120601079	B-120602079
MF 36 x 3,0	36,0	28,0	200	30	22,0	B-120601080	B-120602080
MF 38 x 1,5	38,0	28,0	170	24	22,0	B-120601081	B-120602081
MF 39 x 1,5	39,0	32,0	170	25	24,0	B-120601082	B-120602082
MF 39 x 2,0	39,0	32,0	170	25	24,0	B-120601083	B-120602083
MF 39 x 3,0	39,0	32,0	200	30	24,0	B-120601084	B-120602084
MF 40 x 1,5	40,0	32,0	170	25	24,0	B-120601085	B-120602085
MF 40 x 2,0	40,0	32,0	170	25	24,0	B-120601086	B-120602086
MF 40 x 3,0	40,0	32,0	200	30	24,0	B-120601087	B-120602087
MF 42 x 1,5	42,0	32,0	170	25	24,0	B-120601088	B-120602088
MF 42 x 2,0	42,0	32,0	170	25	24,0	B-120601089	B-120602089
MF 42 x 3,0	42,0	32,0	200	30	24,0	B-120601090	B-120602090
MF 45 x 1,5	45,0	36,0	180	27	29,0	B-120601091	B-120602091
MF 45 x 2,0	45,0	36,0	180	27	29,0	B-120601092	B-120602092
MF 45 x 3,0	45,0	36,0	200	30	29,0	B-120601093	B-120602093
MF 48 x 1,5	48,0	36,0	190	27	29,0	B-120601094	B-120602094
MF 48 x 2,0	48,0	36,0	190	27	29,0	B-120601095	B-120602095
MF 48 x 3,0	48,0	36,0	225	33	29,0	B-120601096	B-120602096
MF 50 x 1,5	50,0	36,0	190	27	29,0	B-120601097	B-120602097
MF 50 x 2,0	50,0	36,0	190	27	29,0	B-120601098	B-120602098
MF 50 x 3,0	50,0	36,0	225	33	29,0	B-120601099	B-120602099
MF 52 x 1,5	52,0	40,0	190	27	32,0	B-120601100	B-120602100
MF 52 x 2,0	52,0	40,0	190	27	32,0	B-120601101	B-120602101
MF 52 x 3,0	52,0	40,0	225	33	32,0	B-120601102	B-120602102
MF 63 x 1,5	63,0	50,0	275	40	39,0	B-120601103	-

Terraja Métrica | Derecha / Izquierda

- DIN 13
- ISO 2 - 6 g
- HSSE





M	D	D1	H	D2	TERRAJA	TERRAJA IZQUIERDA
M 1 x 0,25	1,0	16	5	0,96	B-111401001	
M 1,1 x 0,25	1,1	16	5	1,05	B-111401002	
M 1,2 x 0,25	1,2	16	5	1,15	B-111401003	
M 1,4 x 0,3	1,4	16	5	1,36	B-111401004	
M 1,6 x 0,35	1,6	16	5	1,55	B-111401005	
M 1,7 x 0,35	1,7	16	5	1,64	B-111401006	
M 1,8 x 0,35	1,8	16	5	1,75	B-111401007	
M 2 x 0,4	2,0	16	5	1,95	B-111401008	B-111402001
M 2,2 x 0,45	2,2	16	5	2,15	B-111401009	
M 2,3 x 0,4	2,3	16	5	2,23	B-111401010	
M 2,5 x 0,45	2,5	16	5	2,42	B-111401011	
M 2,6 x 0,45	2,6	16	5	2,53	B-111401012	
M 3 x 0,5	3,0	20	5	2,92	B-111401013	B-111402002
M 3,5 x 0,6	3,5	20	5	3,41	B-111401014	
M 4 x 0,7	4,0	20	5	3,90	B-111401015	B-111402003
M 4,5 x 0,75	4,5	20	7	4,40	B-111401016	
M 5 x 0,8	5,0	20	7	4,90	B-111401017	B-111402004
M 5 x 0,9	5,0	20	7	4,89	B-111401018	
M 5,5 x 0,9	5,5	20	7	5,44	B-111401019	
M 6 x 1,0	6,0	20	7	5,88	B-111401020	B-111402005
M 7 x 1,0	7,0	25	9	6,88	B-111401021	
M 8 x 1,25	8,0	25	9	7,86	B-111401022	B-111402006
M 9 x 1,25	9,0	25	9	8,86	B-111401023	
M 10 x 1,5	10,0	30	11	9,85	B-111401024	B-111402007
M 11 x 1,5	11,0	30	11	10,85	B-111401025	
M 12 x 1,75	12,0	38	14	11,83	B-111401026	B-111402008
M 14 x 2,0	14,0	38	14	13,82	B-111401027	B-111402009
M 15 x 2,0	15,0	38	14	14,91	B-111401028	
M 16 x 2,0	16,0	45	18	15,82	B-111401029	B-111402010
M 18 x 2,5	18,0	45	18	17,79	B-111401030	B-111402011
M 19 x 2,5	19,0	45	18	18,89	B-111401031	
M 20 x 2,5	20,0	45	18	19,79	B-111401032	B-111402012
M 22 x 2,5	22,0	55	22	21,79	B-111402033	B-111402013
M 24 x 3,0	24,0	55	22	23,76	B-111401034	B-111402014
M 27 x 3,0	27,0	65	25	26,76	B-111401035	B-111402015
M 30 x 3,5	30,0	65	25	29,73	B-111401036	B-111402016
M 33 x 3,5	33,0	65	25	32,73	B-111401037	B-111402017
M 36 x 4,0	36,0	65	25	35,70	B-111401038	B-111402018
M 39 x 4,0	39,0	75	30	38,70	B-111401039	B-111402019
M 42 x 4,5	42,0	75	30	41,68	B-111401040	B-111402020
M 45 x 4,5	45,0	90	36	44,68	B-111401041	B-111402021
M 48 x 5,0	48,0	90	36	47,66	B-111401042	B-111402022
M 52 x 5,0	52,0	90	36	51,66	B-111401043	B-111402023
M 56 x 5,5	56,0	105	36	55,65	B-111401044	
M 60 x 5,5	60,0	105	36	59,65	B-111401045	
M 64 x 6,0	64,0	120	36	63,62	B-111401046	
M 68 x 6,0	68,0	120	36	67,62	B-111401047	

Terraja Métrica Fina | Derecha / Izquierda

MF	D	D1	H	D2	TERRAJA	TERRAJA IZQUIERDA
MF 2,5 x 0,35	2,5	16	5	2,44	B-121401001	
MF 2,6 x 0,35	2,6	16	5	2,54	B-121401002	
MF 3 x 0,35	3,0	20	5	2,94	B-121401003	
MF 3,5 x 0,35	3,5	20	5	3,44	B-121401004	
MF 4 x 0,35	4,0	20	5	3,94	B-121401005	
MF 4 x 0,5	4,0	20	5	3,93	B-121401006	
MF 4,5 x 0,5	4,5	20	5	4,43	B-121401007	
MF 5 x 0,5	5,0	20	5	4,93	B-121401008	
MF 5 x 0,75	5,0	20	5	4,91	B-121401010	
MF 5,5 x 0,5	5,5	20	7	5,43	B-121401009	
MF 6 x 0,5	6,0	20	5	5,93	B-121401011	
MF 6 x 0,75	6,0	20	5	5,90	B-121401012	B-121402001
MF 7 x 0,5	7,0	25	7	6,93	B-121401013	
MF 7 x 0,75	7,0	25	9	6,90	B-121401014	
MF 8 x 0,5	8,0	25	9	7,93	B-121401015	
MF 8 x 0,75	8,0	25	9	7,90	B-121401016	B-121402002
MF 8 x 1,0	8,0	25	9	7,83	B-121401017	B-121402003
MF 9 x 0,5	9,0	25	9	8,93	B-121401018	
MF 9 x 0,75	9,0	25	9	8,90	B-121401019	
MF 9 x 1,0	9,0	25	9	8,88	B-121401020	
MF 10 x 0,5	10,0	30	9	9,93	B-121401021	
MF 10 x 0,75	10,0	30	11	9,90	B-121401022	
MF 10 x 1,0	10,0	30	11	9,88	B-121401023	B-121402004
MF 10 x 1,25	10,0	30	11	9,86	B-121401024	B-121402005
MF 11 x 1,0	11,0	30	11	10,88	B-121401025	
MF 11 x 1,25	11,0	30	11	10,86	B-121401026	
MF 12 x 0,5	12,0	38	11	11,93	B-121401027	
MF 12 x 0,75	12,0	38	10	11,90	B-121401028	
MF 12 x 1,0	12,0	38	10	11,88	B-121401029	B-121402006
MF 12 x 1,25	12,0	38	10	11,86	B-121401030	B-121402007
MF 12 x 1,5	12,0	38	10	11,85	B-121401031	B-121402008
MF 13 x 0,5	13,0	38	10	12,93	B-121401032	
MF 13 x 1,0	13,0	38	10	12,88	B-121401033	
MF 13 x 1,5	13,0	38	10	12,85	B-121401034	
MF 14 x 0,5	14,0	38	10	13,93	B-121401035	
MF 14 x 0,75	14,0	38	10	13,90	B-121401036	
MF 14 x 1,0	14,0	38	10	13,88	B-121401037	
MF 14 x 1,25	14,0	38	10	13,86	B-121401038	B-121402009
MF 14 x 1,5	14,0	38	10	13,85	B-121401039	B-121402010
MF 15 x 0,75	15,0	38	10	14,90	B-121401040	
MF 15 x 1,0	15,0	38	10	14,88	B-121401041	
MF 15 x 1,5	15,0	38	10	14,85	B-121401042	
MF 16 x 0,5	16,0	45	14	15,93	B-121401043	
MF 16 x 0,75	16,0	45	14	15,90	B-121401044	
MF 16 x 1,0	16,0	45	14	15,88	B-121401045	B-121402011
MF 16 x 1,25	16,0	45	14	15,86	B-121401046	
MF 16 x 1,5	16,0	45	14	15,85	B-121401047	B-121402012
MF 17 x 1,0	17,0	45	14	16,88	B-121401048	
MF 17 x 1,5	17,0	45	14	16,85	B-121401049	
MF 18 x 0,5	18,0	45	14	17,93	B-121401050	
MF 18 x 0,75	18,0	45	14	17,90	B-121401051	
MF 18 x 1,0	18,0	45	14	17,88	B-121401052	
MF 18 x 1,25	18,0	45	14	17,86	B-121401053	
MF 18 x 1,5	18,0	45	14	17,85	B-121401054	B-121402013
MF 18 x 2,0	18,0	45	14	17,82	B-121401055	
MF 19 x 1,0	19,0	45	14	18,88	B-121401056	
MF 19 x 1,5	19,0	45	14	18,85	B-121401057	

Terraja Métrica Fina | Derecha / Izquierda

MF	D	D1	H	D2	TERRAJA	TERRAJA IZQUIERDA
MF 20 x 0,5	20,0	45	14	19,93	B-121401058	
MF 20 x 0,75	20,0	45	14	19,90	B-121401059	
MF 20 x 1,0	20,0	45	14	19,88	B-121401060	
MF 20 x 1,25	20,0	45	14	19,86	B-121401061	
MF 20 x 1,5	20,0	45	14	19,85	B-121401062	B-121402014
MF 20 x 2,0	20,0	45	14	19,82	B-121401063	
MF 21 x 1,0	21,0	45	14	20,88	B-121401064	
MF 21 x 1,5	21,0	45	14	20,85	B-121401065	
MF 22 x 0,5	22,0	55	16	21,93	B-121401066	
MF 22 x 0,75	22,0	55	16	21,90	B-121401067	
MF 22 x 1,0	22,0	55	16	21,88	B-121401068	
MF 22 x 1,25	22,0	55	16	21,86	B-121401069	
MF 22 x 1,5	22,0	55	16	21,85	B-121401070	B-121402015
MF 22 x 2,0	22,0	55	16	21,82	B-121401071	
MF 23 x 1,0	23,0	55	16	22,88	B-121401072	
MF 23 x 1,5	23,0	55	16	22,85	B-121401073	
MF 24 x 0,5	24,0	55	16	23,93	B-121401074	
MF 24 x 0,75	24,0	55	16	23,90	B-121401075	
MF 24 x 1,0	24,0	55	16	23,88	B-121401076	
MF 24 x 1,25	24,0	55	16	23,86	B-121401077	
MF 24 x 1,5	24,0	55	16	23,85	B-121401078	B-121402016
MF 24 x 2,0	24,0	55	16	22,82	B-121401079	B-121402017
MF 25 x 1,0	25,0	55	16	24,88	B-121401080	
MF 25 x 1,5	25,0	55	16	24,85	B-121401081	
MF 26 x 1,0	26,0	55	16	25,88	B-121401082	
MF 26 x 1,5	26,0	55	16	25,85	B-121401083	
MF 26 x 2,0	26,0	55	16	25,82	B-121401084	
MF 27 x 1,0	27,0	65	18	26,88	B-121401085	
MF 27 x 1,5	27,0	65	18	26,85	B-121401086	
MF 27 x 2,0	27,0	65	18	26,82	B-121401087	
MF 28 x 1,0	28,0	65	18	27,88	B-121401088	
MF 28 x 1,5	28,0	65	18	27,85	B-121401089	
MF 28 x 2,0	28,0	65	18	27,82	B-121401090	
MF 29 x 1,5	29,0	65	18	28,85	B-121401091	
MF 30 x 1,0	30,0	65	18	29,88	B-121401092	
MF 30 x 1,5	30,0	65	18	29,85	B-121401093	
MF 30 x 2,0	30,0	65	18	29,82	B-121401094	B-121402018
MF 30 x 2,5	30,0	65	18	29,79	B-121401095	B-121402019
MF 30 x 3,0	30,0	65	25	29,76	B-121401096	B-121402020
MF 32 x 1,0	32,0	65	18	31,88	B-121401098	B-121402021
MF 32 x 1,5	32,0	65	18	31,85	B-121401097	B-121402022
MF 32 x 2,0	32,0	65	18	31,82	B-121401099	B-121402023
MF 32 x 3,0	32,0	65	25	31,77	B-121401100	
MF 33 x 1,5	33,0	65	18	32,85	B-121401101	
MF 33 x 2,0	33,0	65	18	32,82	B-121401102	
MF 33 x 3,0	33,0	65	25	32,76	B-121401103	
MF 34 x 1,0	34,0	65	18	33,88	B-121401104	
MF 34 x 1,5	34,0	65	18	33,85	B-121401105	
MF 34 x 2,0	34,0	65	18	33,82	B-121401106	
MF 35 x 1,0	35,0	65	18	34,88	B-121401107	
MF 35 x 1,5	35,0	65	18	34,85	B-121401108	
MF 35 x 2,0	35,0	65	18	34,82	B-121401109	
MF 36 x 1,0	36,0	65	18	35,88	B-121401110	
MF 36 x 1,5	36,0	65	18	35,85	B-121401111	
MF 36 x 2,0	36,0	65	18	35,82	B-121401112	
MF 36 x 3,0	36,0	65	25	35,76	B-121401113	
MF 37 x 1,5	37,0	65	18	36,85	B-121401114	

Terraja Métrica Fina | Derecha

MF	D	D1	H	D2	TERRAJA
MF 38 x 1,0	38,0	75	20	37,88	B-121401115
MF 38 x 1,5	38,0	75	20	37,85	B-121401116
MF 38 x 2,0	38,0	75	20	37,82	B-121401117
MF 38 x 3,0	38,0	75	30	37,77	B-121401118
MF 39 x 1,5	39,0	75	20	38,85	B-121401119
MF 39 x 2,0	39,0	75	20	38,82	B-121401120
MF 39 x 3,0	39,0	75	30	38,76	B-121401121
MF 40 x 1,0	40,0	75	20	39,88	B-121401122
MF 40 x 1,5	40,0	75	20	39,85	B-121401123
MF 40 x 2,0	40,0	75	20	39,82	B-121401124
MF 40 x 3,0	40,0	75	30	39,76	B-121401125
MF 42 x 1,0	42,0	75	20	41,88	B-121401126
MF 42 x 1,5	42,0	75	20	41,85	B-121401127
MF 42 x 2,0	42,0	75	20	41,82	B-121401128
MF 42 x 3,0	42,0	75	30	41,76	B-121401129
MF 44 x 1,5	44,0	90	22	43,85	B-121401130
MF 44 x 2,0	44,0	90	22	43,82	B-121401131
MF 45 x 1,0	45,0	90	22	44,88	B-121401132
MF 45 x 1,5	45,0	90	22	44,85	B-121401133
MF 45 x 2,0	45,0	90	22	44,82	B-121401134
MF 45 x 3,0	45,0	90	36	44,76	B-121401135
MF 46 x 1,5	46,0	90	22	45,85	B-121401136
MF 48 x 1,0	48,0	90	22	47,88	B-121401137
MF 48 x 1,5	48,0	90	22	47,85	B-121401138
MF 48 x 2,0	48,0	90	22	47,82	B-121401139
MF 48 x 3,0	48,0	90	36	47,46	B-121401140
MF 50 x 1,5	50,0	90	22	49,85	B-121401141
MF 50 x 2,0	50,0	90	22	49,82	B-121401142
MF 50 x 3,0	50,0	90	36	49,76	B-121401143
MF 52 x 1,5	52,0	90	22	51,85	B-121401144
MF 52 x 2,0	52,0	90	22	51,82	B-121401145
MF 52 x 3,0	52,0	90	36	51,76	B-121401146
MF 54 x 1,5	54,0	105	22	53,92	B-121401147
MF 54 x 2,0	54,0	105	22	53,91	B-121401148
MF 54 x 3,0	54,0	105	36	53,88	B-121401149
MF 54 x 4,0	54,0	105	36	53,85	B-121401150
MF 55 x 1,5	55,0	105	22	54,85	B-121401151
MF 55 x 2,0	55,0	105	22	54,82	B-121401152
MF 55 x 3,0	55,0	105	36	54,76	B-121401153
MF 55 x 4,0	55,0	105	36	54,73	B-121401154
MF 56 x 1,5	56,0	105	22	55,85	B-121401155
MF 56 x 2,0	56,0	105	22	55,82	B-121401156
MF 56 x 3,0	56,0	105	36	55,76	B-121401157
MF 56 x 4,0	56,0	105	36	55,73	B-121401158
MF 58 x 1,5	58,0	105	22	57,92	B-121401159
MF 58 x 2,0	58,0	105	22	57,91	B-121401160
MF 58 x 3,0	58,0	105	36	57,88	B-121401161
MF 58 x 4,0	58,0	105	36	57,85	B-121401162
MF 60 x 1,5	60,0	105	22	59,92	B-121401163
MF 60 x 2,0	60,0	105	22	59,91	B-121401164
MF 60 x 3,0	60,0	105	36	59,88	B-121401165
MF 60 x 4,0	60,0	105	36	59,85	B-121401166
MF 62 x 1,5	62,0	105	22	61,92	B-121401167
MF 62 x 2,0	62,0	105	22	61,91	B-121401168
MF 62 x 3,0	62,0	105	36	61,88	B-121401169
MF 62 x 4,0	62,0	105	36	61,85	B-121401170
MF 63 x 1,5	63,0	105	22	62,92	B-121401171
MF 64 x 1,5	64,0	120	22	63,92	B-121401172
MF 64 x 2,0	64,0	120	22	63,91	B-121401173
MF 64 x 3,0	64,0	120	36	63,88	B-121401174
MF 64 x 4,0	64,0	120	36	63,85	B-121401175
MF 65 x 1,5	65,0	120	22	64,92	B-121401176
MF 65 x 2,0	65,0	120	22	64,91	B-121401177
MF 65 x 3,0	65,0	120	36	64,88	B-121401178
MF 65 x 4,0	65,0	120	36	64,85	B-121401179
MF 68 x 1,5	68,0	120	22	67,92	B-121401180
MF 68 x 2,0	68,0	120	22	67,91	B-121401181
MF 68 x 3,0	68,0	120	36	67,88	B-121401182
MF 68 x 4,0	68,0	120	36	67,85	B-121401183
MF 70 x 1,5	70,0	120	22	69,92	B-121401184
MF 70 x 2,0	70,0	120	22	69,91	B-121401185
MF 70 x 3,0	70,0	120	36	69,88	B-121401186
MF 70 x 4,0	70,0	120	36	69,85	B-121401187
MF 72 x 1,5	72,0	120	22	71,92	B-121401188
MF 72 x 2,0	72,0	120	22	71,91	B-121401189
MF 72 x 3,0	72,0	120	36	71,88	B-121401190
MF 72 x 4,0	72,0	120	36	71,85	B-121401191
MF 74 x 1,5	74,0	120	22	73,92	B-121401192
MF 74 x 2,0	74,0	120	22	73,91	B-121401193
MF 74 x 3,0	74,0	120	36	73,88	B-121401194
MF 74 x 4,0	74,0	120	36	73,85	B-121401195
MF 75 x 1,5	75,0	120	22	74,92	B-121401196
MF 75 x 2,0	75,0	120	22	74,91	B-121401197
MF 75 x 3,0	75,0	120	36	74,88	B-121401198
MF 75 x 4,0	75,0	120	36	74,85	B-121401199
MF 76 x 1,5	76,0	120	22	75,92	B-121401200
MF 76 x 2,0	76,0	120	22	75,91	B-121401201
MF 76 x 3,0	76,0	120	36	75,88	B-121401202
MF 76 x 4,0	76,0	120	36	75,85	B-121401203
MF 78 x 1,5	78,0	120	22	77,92	B-121401204
MF 78 x 2,0	78,0	120	22	77,91	B-121401205
MF 78 x 3,0	78,0	120	36	77,88	B-121401206
MF 78 x 4,0	78,0	120	36	77,85	B-121401207
MF 80 x 1,5	80,0	120	22	79,92	B-121401208
MF 80 x 2,0	80,0	120	22	79,91	B-121401209
MF 80 x 3,0	80,0	120	36	79,88	B-121401210
MF 80 x 4,0	80,0	120	36	79,85	B-121401211
MF 82 x 1,5	82,0	130	25	81,92	B-121401212
MF 82 x 2,0	82,0	130	25	81,91	B-121401213
MF 82 x 3,0	82,0	130	36	81,88	B-12140B-1214
MF 82 x 4,0	82,0	130	36	81,85	B-121401215
MF 84 x 1,5	84,0	130	25	83,92	B-121401216
MF 84 x 2,0	84,0	130	25	83,91	B-121401217
MF 84 x 3,0	84,0	130	36	83,88	B-121401218
MF 84 x 4,0	84,0	130	36	83,85	B-121401219
MF 85 x 1,5	85,0	130	25	84,92	B-121401220
MF 85 x 2,0	85,0	130	25	84,91	B-121401221
MF 85 x 3,0	85,0	130	36	84,88	B-121401222
MF 85 x 4,0	85,0	130	36	84,85	B-121401223
MF 86 x 1,5	86,0	140	22	85,92	B-121401224
MF 86 x 2,0	86,0	140	22	85,91	B-121401225
MF 86 x 3,0	86,0	140	22	85,88	B-121401226
MF 86 x 4,0	86,0	140	22	85,85	B-121401227
MF 88 x 1,5	88,0	140	22	87,92	B-121401228
MF 88 x 2,0	88,0	140	22	87,91	B-121401229
MF 88 x 3,0	88,0	140	22	87,88	B-121401230
MF 88 x 4,0	88,0	140	22	87,85	B-121401231

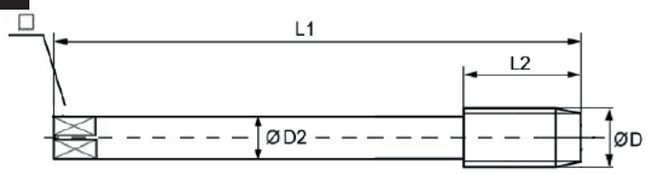
Terraja Métrica Fina | Derecha

MF	D	D1	H	D2	TERRAJA
MF 90 x 1,5	90,0	140	22	89,92	B-121401232
MF 90 x 2,0	90,0	140	22	89,91	B-121401233
MF 90 x 3,0	90,0	140	22	89,88	B-121401234
MF 90 x 4,0	90,0	140	22	89,85	B-121401235
MF 92 x 1,5	92,0	140	22	91,92	B-121401236
MF 92 x 2,0	92,0	140	22	91,91	B-121401237
MF 92 x 3,0	92,0	140	22	91,88	B-121401238
MF 92 x 4,0	92,0	140	22	91,85	B-121401239
MF 95 x 1,5	95,0	140	22	94,92	B-121401240
MF 95 x 2,0	95,0	140	22	94,91	B-121401241
MF 95 x 3,0	95,0	140	22	94,88	B-121401242
MF 95 x 4,0	95,0	140	22	94,85	B-121401243
MF 96 x 1,5	96,0	140	22	95,92	B-121401244
MF 96 x 2,0	96,0	140	22	95,91	B-121401245
MF 96 x 3,0	96,0	140	22	95,88	B-121401246
MF 96 x 4,0	96,0	140	22	95,85	B-121401247

MF	D	D1	H	D2	TERRAJA
MF 98 x 1,5	98,0	150	25	94,92	B-121401248
MF 98 x 2,0	98,0	150	25	97,91	B-121401249
MF 98 x 3,0	98,0	150	25	97,88	B-121401250
MF 98 x 4,0	98,0	150	25	97,85	B-121401251
MF 100 x 1,5	100,0	150	25	99,92	B-121401252
MF 100 x 2,0	100,0	150	25	99,91	B-121401253
MF 100 x 3,0	100,0	150	25	99,88	B-121401254
MF 100 x 4,0	100,0	150	25	99,85	B-121401255
MF 105 x 1,5	105,0	150	25	104,92	B-121401256
MF 105 x 2,0	105,0	150	25	104,91	B-121401257
MF 105 x 3,0	105,0	150	25	104,88	B-121401258
MF 105 x 4,0	105,0	150	25	104,85	B-121401259
MF 110 x 1,5	110,0	160	25	109,92	B-121401260
MF 110 x 2,0	110,0	160	25	109,91	B-121401261
MF 110 x 3,0	110,0	160	25	109,88	B-121401262
MF 110 x 4,0	110,0	160	25	109,85	B-121401263

Macho Métrica - Pasante B / Pasante C | Izquierda

- DIN 13
- ISO 2 - 6 H
- HSSE
- Forma B - 4-5
- Forma C - 3-4

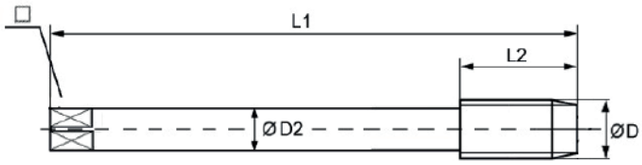


M	D1	D2	L1	L2	□	FORMA B Rosca Izquierda	FORMA C Rosca Izquierda
DIN 371							
M 3 x 0,5	3,0	3,5	56	11	2,7	B-110402001	B-110502001
M 4 x 0,7	4,0	4,5	63	13	3,4	B-110402002	B-110502002
M 5 x 0,8	5,0	6,0	70	16	4,9	B-110402003	B-110502003
M 6 x 1,0	6,0	6,0	80	19	4,9	B-110402004	B-110502004
M 7 x 1,0	7,0	7,0	80	19	5,5	B-110402005	-
M 8 x 1,25	8,0	8,0	90	22	6,2	B-110402006	B-110502005
M 10 x 1,5	10,0	10,0	100	24	8,0	B-110402007	B-110502006
DIN 376							
M 3 x 0,5	3,0	2,2	56	11	-	B-110402008	
M 4 x 0,7	4,0	2,8	63	13	2,1	B-110402009	
M 5 x 0,8	5,0	3,5	70	16	2,7	B-110402010	
M 6 x 1,0	6,0	4,5	80	19	3,4	B-110402011	
M 8 x 1,25	8,0	6,0	90	22	4,9	B-110402012	
M 10 x 1,5	10,0	7,0	100	24	5,5	B-110402013	
M 12 x 1,75	12,0	9,0	110	29	7,0	B-110402014	B-110502007
M 14 x 2,0	14,0	11,0	110	30	9,0	B-110402015	B-110502008
M 16 x 2,0	16,0	12,0	110	32	9,0	B-110402016	B-110502009
M 18 x 2,5	18,0	14,0	125	34	11,0	B-110402017	B-110502010
M 20 x 2,5	20,0	16,0	140	34	12,0	B-110402018	B-110502011
M 22 x 2,5	22,0	18,0	140	34	14,5	B-110402019	B-110502012
M 24 x 3,0	24,0	18,0	160	38	14,5	B-110402020	B-110502013
M 27 x 3,0	27,0	20,0	160	38	16,0	B-110402021	
M 30 x 3,5	30,0	22,0	180	45	18,0	B-110402022	
M 33 x 3,5	33,0	25,0	180	50	20,0	B-110402023	
M 36 x 4,0	36,0	28,0	200	56	22,0	B-110402024	
M 39 x 4,0	39,0	32,0	200	60	24,0	B-110402025	
M 42 x 4,5	42,0	32,0	200	60	24,0	B-110402026	
M 45 x 4,5	45,0	36,0	220	65	29,0	B-110402027	
M 48 x 5,0	48,0	36,0	250	70	29,0	B-110402028	
M 52 x 5,0	52,0	40,0	250	70	32,0	B-110402029	



Macho Métrica - Ciego C | Izquierda

- DIN 13
- ISO 2 - 6 H
- HSSE
- Forma C - 2-3



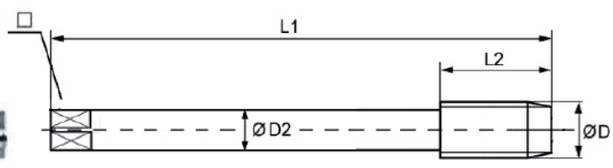
M	D1	D2	L1	L2	□	FORMA C Rosca Izquierda
DIN 371						
M 3 x 0,5	3,0	3,5	56	6	2,7	B-110602001
M 4 x 0,7	4,0	4,5	63	7	3,4	B-110602002
M 5 x 0,8	5,0	6,0	70	8	4,9	B-110602003
M 6 x 1,0	6,0	6,0	80	10	4,9	B-110602004
M 8 x 1,25	8,0	8,0	90	14	6,2	B-110602005
M 10 x 1,5	10,0	10,0	100	16	8,0	B-110602006
DIN 376						
M 3 x 0,5	3,0	2,2	56	6	-	B-110602007
M 4 x 0,7	4,0	2,8	63	7	2,1	B-110602008
M 5 x 0,8	5,0	3,5	70	8	2,7	B-110602009
M 6 x 1,0	6,0	4,5	80	10	3,4	B-110602010
M 8 x 1,25	8,0	6,0	90	14	4,9	B-110602011
M 10 x 1,5	10,0	7,0	100	16	5,5	B-110602012
M 12 x 1,75	12,0	9,0	110	18	7,0	B-110602013
M 14 x 2,0	14,0	11,0	110	20	9,0	B-110602014
M 16 x 2,0	16,0	12,0	110	22	9,0	B-110602015
M 18 x 2,5	18,0	14,0	125	25	11,0	B-110602016
M 20 x 2,5	20,0	16,0	140	25	12,0	B-110602017
M 22 x 2,5	22,0	18,0	140	27	14,5	B-110602018
M 24 x 3,0	24,0	18,0	160	30	14,5	B-110602019
M 27 x 3,0	27,0	20,0	160	30	16,0	B-110602020
M 30 x 3,5	30,0	22,0	180	35	18,0	B-110602021
M 33 x 3,5	33,0	25,0	180	35	20,0	B-110602022
M 36 x 4,0	36,0	28,0	200	40	22,0	B-110602023
M 39 x 4,0	39,0	32,0	200	40	24,0	B-110602024
M 42 x 4,5	42,0	32,0	200	45	24,0	B-110602025
M 45 x 4,5	45,0	36,0	220	45	29,0	B-110602026
M 48 x 5,0	48,0	36,0	250	50	29,0	B-110602027
M 52 x 5,0	52,0	40,0	250	50	32,0	B-110602028



Macho Métrica (Tuerquero)

- DIN 13
- ISO 2 - 6H
- HSSE



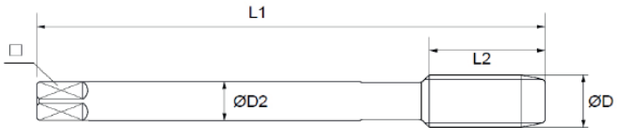


M	D1	D2	L1	L2	□	Tuerquero
M 3 x 0,5	3,0	2,2	70	22	-	B-110901001
M 4 x 0,7	4,0	2,8	90	25	2,1	B-110901002
M 5 x 0,8	5,0	3,5	100	28	2,7	B-110901003
M 6 x 1,0	6,0	4,5	110	32	3,4	B-110901004
M 8 x 1,25	8,0	6,0	125	40	4,9	B-110901005
M 10 x 1,5	10,0	7,0	140	45	5,5	B-110901006
M 12 x 1,75	12,0	9,0	180	50	7,0	B-110901007
M 14 x 2,0	14,0	11,0	200	56	9,0	B-110901008
M 16 x 2,0	16,0	12,0	200	63	9,0	B-110901009
M 18 x 2,5	18,0	14,0	220	63	11,0	B-110901010
M 20 x 2,5	20,0	16,0	250	70	12,0	B-110901011
M 22 x 2,5	22,0	18,0	280	80	14,5	B-110901012
M 24 x 3,0	24,0	18,0	280	80	14,5	B-110901013

Rosca Métrica Izquierda (Machos)

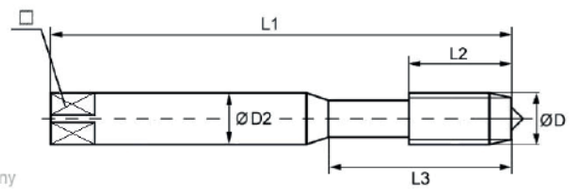
- Forma C
- DIN 13
- ISO 2 - 6H
- HSSG
- Rosca Izquierda





M - MF	D1	D2	L1	L2	□	SET IZQUIERDA
M 3 x 0,5	3,0	3,5	40	11	2,7	B-110302001
M 4 x 0,7	4,0	4,5	45	13	3,4	B-110302002
M 5 x 0,8	5,0	6,0	50	16	4,9	B-110302003
M 6 x 1,0	6,0	6,0	50	19	4,9	B-110302004
MF 6 x 0,75	6,0	6,0	50	14	4,9	B-120302001
M 8 x 1,25	8,0	6,0	56	22	4,9	B-110302005
MF 8 x 0,75	8,0	6,0	50	19	4,9	B-120302002
MF 8 x 1	8,0	6,0	56	22	4,9	B-120302003
M 10 x 1,5	10,0	7,0	70	24	5,5	B-110302006
MF 10 x 1,0	10,0	7,0	63	20	5,5	B-120302004
MF 10 x 1,25	10,0	7,0	70	24	5,5	B-120302005
M 12 x 1,75	12,0	9,0	75	29	7,0	B-110302007
MF 12 x 1,0	12,0	9,0	70	22	7,0	B-120302006
MF 12 x 1,25	12,0	9,0	70	22	7,0	B-120302007
MF 12 x 1,5	12,0	9,0	70	22	7,0	B-120302008
M 14 x 2,0	14,0	11,0	80	30	9,0	B-110302008
MF 14 x 1,25	14,0	11,0	70	22	9,0	B-120302009
MF 14 x 1,5	14,0	11,0	70	22	9,0	B-120302010
M 16 x 2,0	16,0	12,0	80	32	9,0	B-110302009
MF 16 x 1,0	16,0	12,0	70	22	9,0	B-120302011
MF 16 x 1,5	16,0	12,0	70	22	9,0	B-120302012
M 18 x 2,5	18,0	14,0	95	40	11,0	B-110302010
MF 18 x 1,5	18,0	14,0	80	22	11,0	B-120302013
M 20 x 2,5	20,0	16,0	95	40	12,0	B-110302011
MF 20 x 1,5	20,0	16,0	80	22	12,0	B-120302014
M 22 x 2,5	22,0	18,0	100	40	14,5	B-110302012
MF 22 x 1,5	22,0	18,0	80	22	14,5	B-120302015
M 24 x 3,0	24,0	18,0	110	50	14,5	B-110302013
MF 24 x 1,5	24,0	18,0	90	22	14,5	B-120302016
MF 24 x 2,0	24,0	18,0	90	22	14,5	B-120302017
M 27 x 3,0	27,0	20,0	110	50	16,0	B-110302014
M 30 x 3,5	30,0	22,0	125	56	18,0	B-110302015
MF 30 x 1,5	30,0	22,0	90	22	18,0	B-120302018
MF 30 x 2,0	30,0	22,0	90	22	18,0	B-120302019
M 33 x 3,5	33,0	25,0	125	56	20,0	B-110302016
M 36 x 4,0	36,0	28,0	150	63	22,0	B-110302017
M 39 x 4,0	39,0	32,0	150	63	24,0	B-110302018
M 42 x 4,5	42,0	32,0	150	63	24,0	B-110302019
M 45 x 4,5	45,0	36,0	160	70	29,0	B-110302020
M 48 x 5,0	48,0	36,0	180	75	29,0	B-110302021
M 52 x 5,0	52,0	40,0	180	75	32,0	B-110302022

Macho Métrica - Forma B - Recto | Serie Larga



- DIN 13
- ISO 2 - 6 H
- HSSE
- Forma B - 4-5

Modelo L1=100

M	D1	D2	L1	L2	□	FORMA B Serie Larga Recto
DIN 371						
M 3 x 0,5	3,0	3,5	100	11	2,7	B-110414001
M 4 x 0,7	4,0	4,5	100	13	3,4	B-110414002
M 5 x 0,8	5,0	6,0	100	16	4,9	B-110414003
M 6 x 1,0	6,0	6,0	100	19	4,9	B-110414004
M 8 x 1,25	8,0	8,0	100	22	6,2	B-110414005
M 10 x 1,5	10,0	10,0	100	24	8,0	B-110414006



Modelo L1=120

M	D1	D2	L1	L2	□	FORMA B Serie Larga Recto
DIN 371						
M 3 x 0,5	3,0	3,5	120	11	2,7	B-110415001
M 4 x 0,7	4,0	4,5	120	13	3,4	B-110415002
M 5 x 0,8	5,0	6,0	120	16	4,9	B-110415003
M 6 x 1,0	6,0	6,0	120	19	4,9	B-110415004
M 8 x 1,25	8,0	8,0	120	22	6,2	B-110415005
M 10 x 1,5	10,0	10,0	120	24	8,0	B-110415006

Modelo L1=150

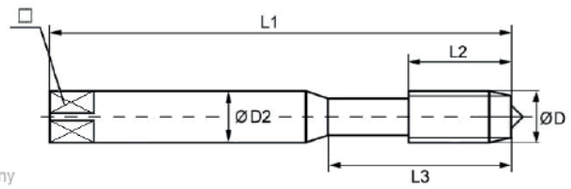
M	D1	D2	L1	L2	□	FORMA B Serie Larga Recto
DIN 371						
M 3 x 0,5	3,0	3,5	150	11	2,7	B-110416001
M 4 x 0,7	4,0	4,5	150	13	3,4	B-110416002
M 5 x 0,8	5,0	6,0	150	16	4,9	B-110416003
M 6 x 1,0	6,0	6,0	150	19	4,9	B-110416004
M 8 x 1,25	8,0	8,0	150	22	6,2	B-110416005
M 10 x 1,5	10,0	10,0	150	24	8,0	B-110416006

Macho Métrica - Forma B - Recto | Sobremedida

- DIN 13
- ISO 2 - 7G - Sobremedida para tratamientos térmicos
- HSSE
- Forma B - 4-5

M	D1	D2	L1	L2	□	FORMA B
DIN 371						
M 3 x 0,5	3,0	3,5	56	11	2,7	B-110418001
M 4 x 0,7	4,0	4,5	63	13	3,4	B-110418002
M 5 x 0,8	5,0	6,0	70	16	4,9	B-110418003
M 6 x 1,0	6,0	6,0	80	19	4,9	B-110418004
M 8 x 1,25	8,0	8,0	90	22	6,2	B-110418005
M 10 x 1,5	10,0	10,0	100	24	8,0	B-110418006
DIN 376						
M 12 x 1,75	12,0	9,0	110	29	7,0	B-110418007

Macho Métrica - Forma C - Ciego | Serie Larga



- DIN 13
- ISO 2 - 6 H
- HSSE
- Forma C - 2-3

Modelo L1=100

M	D1	D2	L1	L2	□	FORMA C Serie Larga Ciego
DIN 371						
M 3 x 0,5	3,0	3,5	100	6	2,7	B-110614001
M 4 x 0,7	4,0	4,5	100	7	3,4	B-110614002
M 5 x 0,8	5,0	6,0	100	8	4,9	B-110614003
M 6 x 1,0	6,0	6,0	100	10	4,9	B-110614004
M 8 x 1,25	8,0	8,0	100	14	6,2	B-110614005
M 10 x 1,5	10,0	10,0	100	16	8,0	B-110614006



Modelo L1=120

M	D1	D2	L1	L2	□	FORMA C Serie Larga Ciego
DIN 371						
M 3 x 0,5	3,0	3,5	120	6	2,7	B-110615001
M 4 x 0,7	4,0	4,5	120	7	3,4	B-110615002
M 5 x 0,8	5,0	6,0	120	8	4,9	B-110615003
M 6 x 1,0	6,0	6,0	120	10	4,9	B-110615004
M 8 x 1,25	8,0	8,0	120	14	6,2	B-110615005
M 10 x 1,5	10,0	10,0	120	16	8,0	B-110615006

Modelo L1=150

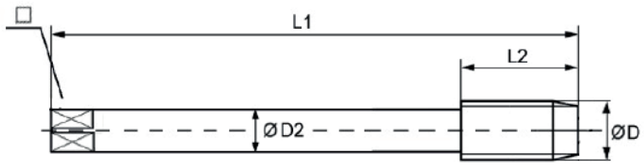
M	D1	D2	L1	L2	□	FORMA C Serie Larga Ciego
DIN 371						
M 3 x 0,5	3,0	3,5	150	6	2,7	B-110616001
M 4 x 0,7	4,0	4,5	150	7	3,4	B-110616002
M 5 x 0,8	5,0	6,0	150	8	4,9	B-110616003
M 6 x 1,0	6,0	6,0	150	10	4,9	B-110616004
M 8 x 1,25	8,0	8,0	150	14	6,2	B-110616005
M 10 x 1,5	10,0	10,0	150	16	8,0	B-110616006

Macho Métrica - Forma C - Recto | Sobremedida

- DIN 13
- ISO 2 - 7G - Sobremedida para tratamientos térmicos
- HSSE
- Forma C - 2-3

M	D1	D2	L1	L2	□	FORMA C
DIN 371						
M 3 x 0,5	3,0	3,5	56	6	2,7	B-110618001
M 4 x 0,7	4,0	4,5	63	7	3,4	B-110618002
M 5 x 0,8	5,0	6,0	70	8	4,9	B-110618003
M 6 x 1,0	6,0	6,0	80	10	4,9	B-110618004
M 8 x 1,25	8,0	8,0	90	14	6,2	B-110618005
M 10 x 1,5	10,0	10,0	100	16	8,0	B-110618006
DIN 376						
M 12 x 1,75	12,0	9,0	110	18	7,0	B-110618007

Rosca BSP "G" - Machos



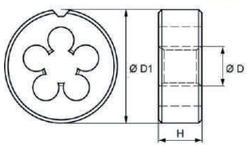
- DIN ISO 228 - Clase 2B
- Forma B - 4-5
- HSSEE

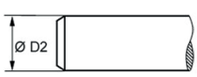
BSP "G"	D1	D2	L1	L2	□	FORMA C
BSP 1.3/8 x 11	44,32	36,0	140	40	29,0	B-130301011
BSP 1.5/8 x 11	52,00	40,0	140	40	32,0	B-130301013
BSP 2" x 11	59,61	45,0	160	40	35,0	B-130301015
BSP 2.1/4 x 11	65,71	50,0	160	40	39,0	B-130301016
BSP 2.1/2 x 11	75,18	50,0	160	40	39,0	B-130301017
BSP 2.3/4 x 11	81,53	50,0	160	40	39,0	B-130301018
BSP 3" x 11	87,88	50,0	160	40	39,0	B-130301019
BSP 3.1/2 x 11	100,3	56,0	180	45	44,0	B-130301020
BSP 4" x 11	113,0	56,0	180	45	44,0	B-130301021



BSP "G"	D1	D2	L1	L2	□	FORMA C - IZQUIERDA
BSP 1/8 x 28	9,73	7,0	63	20	5,5	B-130302001
BSP 1/4 x 19	13,16	11,0	70	22	9,0	B-130302002
BSP 3/8 x 19	16,66	12,0	70	22	9,0	B-130302003
BSP 1/2 x 14	20,95	16,0	80	22	12,0	B-130302004
BSP 5/8 x 14	22,91	18,0	80	22	14,5	B-130302005
BSP 3/4 x 14	26,44	20,0	90	22	16,0	B-130302006
BSP 1" x 11	33,25	25,0	100	25	20,0	B-130302007
BSP 1.1/8 x 11	37,90	28,0	125	40	22,0	B-130302008
BSP 1.1/4 x 11	41,91	32,0	125	40	24,0	B-130302009
BSP 1.1/2 x 11	47,80	36,0	140	40	29,0	B-130302011
BSP 1.3/4 x 11	53,74	40,0	140	40	32,0	B-130302012
BSP 1.3/8 x 11	44,32	36,0	140	40	29,0	B-130302010
BSP 2" x 11	59,61	45,0	160	40	35,0	B-130302013

Rosca BSP "G" - Terraja

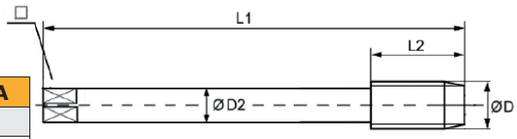




BSP	D	D1	H	D2	TERRAJA	TERRAJA IZQUIERDA
BSP 1/8 x 28	9,73	30	11	9,62	B-131401001	B-131402001
BSP 1/4 x 19	13,16	38	10	13,03	B-131401002	B-131402002
BSP 3/8 x 19	16,66	45	14	16,54	B-131401003	B-131402003
BSP 1/2 x 14	20,95	45	14	20,81	B-131401004	B-131402004
BSP 5/8 x 14	22,91	55	16	22,77	B-131401005	B-131402005
BSP 3/4 x 14	26,44	55	16	26,30	B-131401006	B-131402006
BSP 7/8 x 14	30,20	65	18	30,06	B-131401007	B-131402007
BSP 1" x 11	33,25	65	18	33,07	B-131401008	B-131402008
BSP 1.1/8 x 11	37,90	75	20	37,72	B-131401009	B-131402009
BSP 1.1/4 x 11	41,91	75	20	41,73	B-131401010	B-131402010
BSP 1.3/8 x 11	44,32	90	22	44,14	B-131401011	B-131402011
BSP 1.1/2 x 11	47,80	90	22	47,62	B-131401012	B-131402012
BSP 1.5/8 x 11	52,00	90	22	51,82	B-131401013	B-131402013
BSP 1.3/4 x 11	53,74	105	22	53,57	B-131401014	B-131402014
BSP 2" x 11	59,61	90	22	59,43	B-131401015	B-131402015
BSP 2" x 11	59,61	105	22	59,43	B-131401016	
BSP 2.1/4 x 11	65,71	120	22	65,49	B-131401017	
BSP 2.1/2 x 11	75,18	120	22	74,97	B-131401018	
BSP 2.3/4 x 11	81,53	120	22	81,32	B-131401019	
BSP 3" x 11	87,88	130	25	87,67	B-131401020	
BSP 3.1/2 x 11	100,33	150	25	100,11	B-131401021	
BSP 4" x 11	113,03	160	25	112,81	B-131401022	

Rosca UNC -Machos

• ANSI B1.1 | - Forma C - 2-3 | - HSSEE - Clase 2B

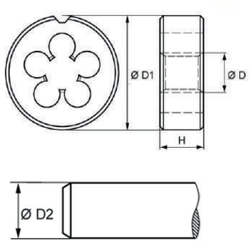




UNC	D1	D2	L1	L2	□	SET MANO DERECHA
UNC 1.1/8 x 7	28,58	22	132	56	18,0	B-140301020
UNC 1.1/4 x 7	31,75	22	132	56	18,0	B-140301021
UNC 1.3/8 x 6	34,93	28	150	63	22,0	B-140301022
UNC 1.1/2 x 6	38,10	32	150	63	24,0	B-140301023
UNC 1.5/8 x 5	41,28	32	160	70	24,0	B-140301024
UNC 1.3/4 x 5	44,45	36	160	70	29,0	B-140301025
UNC 1.7/8 x 4,5	47,63	36	190	80	29,0	B-140301026
UNC 2'' x 4,5	50,80	40	190	80	32,0	B-140301027
UNC 2.1/4 x 4,5	57,15	45	220	80	35,0	B-140301028
UNC 2.1/2 x 4	63,50	50	220	80	39,0	B-140301029
UNC 2.3/4 x 4	69,85	50	240	80	39,0	B-140301030
UNC 3" x 4	73,20	50	260	80	39,0	B-140301031

UNC	D1	D2	L1	L2	□	SET MANO IZQUIERDA
UNC No 6 x 32	3,51	4,0	45	14	3,0	B-140301006
UNC No 8 x 32	4,17	4,5	45	14	3,4	B-140301007
UNC No 10 x 24	4,83	6,0	50	16	4,9	B-140301008
UNC No 12 x 24	5,49	6,0	50	18	4,9	B-140301009
UNC 1/4 x 20	6,35	6,0	50	19	4,9	B-140301010
UNC 5/16 x 18	7,94	6,0	56	22	4,9	B-140301011
UNC 3/8 x 16	9,53	7,0	70	24	5,5	B-140301012
UNC 7/16 x 14	11,11	8,0	70	24	6,2	B-140301013
UNC 1/2 x 13	12,70	9,0	75	29	7,0	B-140301014
UNC 9/16 x 12	14,29	11,0	80	30	9,0	B-140301015
UNC 5/8 x 11	15,88	12,0	80	32	9,0	B-140301016
UNC 3/4 x 10	19,05	14,0	95	40	11,0	B-140301017
UNC 7/8 x 9	22,23	18,0	100	40	14,5	B-140301018
UNC 1'' x 8	25,40	18,0	110	50	14,5	B-140301019

Rosca UNC - Terraja

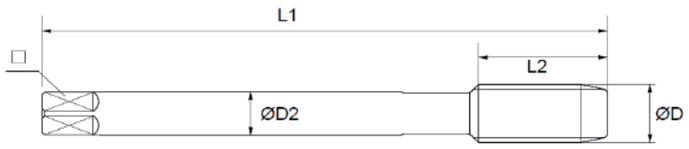


UNC	D	D1	H	D2	TERRAJA	TERRAJA IZQUIERDA
UNC No 1 x 64	1,85	16	5	1,79	B-141401001	
UNC No 2 x 56	2,18	16	5	2,12	B-141401002	
UNC No 3 x 48	2,52	16	5	2,44	B-141401003	
UNC No 4 x 40	2,85	20	5	2,76	B-141401004	
UNC No 5 x 40	3,18	20	5	3,09	B-141401005	
UNC No 6 x 32	3,51	20	7	3,41	B-141401006	B-141402001
UNC No 8 x 32	4,17	20	7	4,07	B-141401007	B-141402002
UNC No 10 x 24	4,83	20	7	4,71	B-141401008	B-141402003
UNC No 12 x 24	5,49	20	7	5,37	B-141401009	
UNC 1/4 x 20	6,35	20	7	6,22	B-141401010	B-141402004
UNC 5/16 x 18	7,94	25	9	7,80	B-141401011	B-141402005
UNC 3/8 x 16	9,53	30	11	9,37	B-141401012	B-141402006
UNC 7/16 x 14	11,11	30	11	10,95	B-141401013	B-141402007
UNC 1/2 x 13	12,70	38	14	12,52	B-141401014	B-141402008
UNC 9/16 x 12	14,29	38	14	14,10	B-141401015	B-141402009
UNC 5/8 x 11	15,88	45	18	15,68	B-141401016	B-141402010
UNC 3/4 x 10	19,05	45	18	18,84	B-141401017	B-141402011
UNC 7/8 x 9	22,23	55	22	22,00	B-141401018	B-141402012
UNC 1" x 8	25,40	55	22	25,16	B-141401019	B-141402013
UNC 1.1/8 x 7	28,58	65	25	28,31	B-141401020	
UNC 1.1/4 x 7	31,75	65	25	31,49	B-141401021	
UNC 1.3/8 x 6	34,93	65	25	34,63	B-141401022	
UNC 1.1/2 x 6	38,10	65	25	37,80	B-141401023	
UNC 1.1/2 x 6	38,10	75	30	37,80	B-141401024	
UNC 1.5/8 x 5	41,28	75	30	40,95	B-141401025	
UNC 1.3/4 x 5	44,45	90	36	44,12	B-141401026	
UNC 1.7/8 x 4,5	47,63	90	36	47,30	B-141401027	
UNC 2" x 4,5	50,80	90	36	50,45	B-141401028	

Rosca - 8 UN

- Paso Unificado 8-UN - Clase 2B
- Forma C - 2-3
- HSSEG

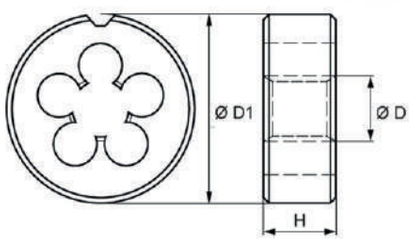






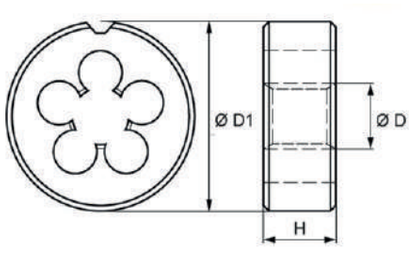
8-UN	D1	D2	L1	L2	□	SET MANO	FORMA C
UN 1.1/16 x 8	26,99	20,0	138	48	16,0	B-180301001	180501001
UN 1.1/8 x 8	28,58	20,0	138	48	16,0	B-180301002	180501002
UN 1.3/16 x 8	30,16	22,4	151	51	18,0	B-180301003	180501003
UN 1.1/4 x 8	31,75	22,4	151	51	18,0	B-180301004	180501004
UN 1.5/16 x 8	33,34	25,0	162	57	20,0	B-180301005	180501005
UN 1.3/8 x 8	34,93	25,0	162	57	20,0	B-180301006	180501006
UN 1.1/2 x 8	38,10	28,0	170	60	22,4	B-180301007	180501007
UN 1.5/8 x 8	41,28	28,0	170	60	22,4	B-180301008	180501008
UN 1.3/4 x 8	44,45	31,5	187	67	25,0	B-180301009	180501009
UN 1.7/8 x 8	47,63	31,5	187	67	25,0	B-180301010	180501010
UN 2" x 8	50,80	35,5	200	70	28,0	B-180301011	180501011
UN 2.1/8 x 8	53,98	35,5	200	70	28,0	B-180301012	180501012
UN 2.1/4 x 8	57,15	40,0	221	76	31,5	B-180301013	180501013
UN 2.1/2 x 8	63,50	40,0	224	79	31,5	B-180301014	180501014
UN 2.3/4 x 8	69,85	45,0	234	79	35,5	B-180301015	180501015
UN 3" x 8	76,20	50,0	258	83	40,0	B-180301016	180501016
UN 3.1/4 x 8	82,55	50,0	261	86	40,0	B-180301017	180501017
UN 3.1/2 x 8	88,90	50,0	261	86	40,0	B-180301018	180501018
UN 3.3/4 x 8	95,25	56,0	279	89	45,0	B-180301019	180501019
UN 4" x 8	101,60	56,0	279	89	45,0	B-180301020	180501020

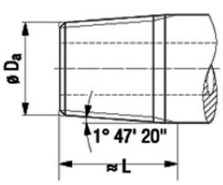
8-UN	D	D1	H	D2	TERRAJA
UN 1.1/8 x 8	28.58	65	25	28.33	B-181401001
UN 1.1/4 x 8	3175	65	25	31.51	B-181401002
UN 1.1/4 x 8	34.96	65	25	34.68	B-181401003
UN 1.3/8 x 8	38.10	75	20	37.85	B-181401004
UN 1.1/2 x 8	44.45	90	22	44.20	B-181401005
UN 2" x 8	50.80	90	22	50.55	B-181401006



Terraja NPT

8-UN	D	D1	H	D2	TERRAJA
NPT 1/16 x 27	7,90	25	9	7,58 x 8,4	B-241401001
NPT 1/8 x 27	10,24	30	11	9,93 x 8,5	B-241401002
NPT 1/4 x 18	13,62	38	14	13,18 x 12,7	B-241401003
NPT 3/8 x 18	17,06	45	14	16,60 x 12,9	B-241401004
NPT 1/2 x 14	21,22	45	18	20,63 x 16,8	B-241401005
NPT 5/8 x 14	23,90	55	22		B-241401006
NPT 3/4 x 14	26,57	55	22	25,95 x 17,1	B-241401007
NPT 7/8 x 14	29,90	65	25		B-241401008
NPT 1" x 11,5	33,23	65	25	32,51 x 21,3	B-241401009
NPT 1.1/4 x 11,5	41,99	75	26	41,23 x 21,9	B-241401010
NPT 1.1/2 x 11,5	48,05	90	27	47,30 x 22,3	B-241401011
NPT 2" x 11,5	60,09	105	28	59,31 x 23,1	B-241401012

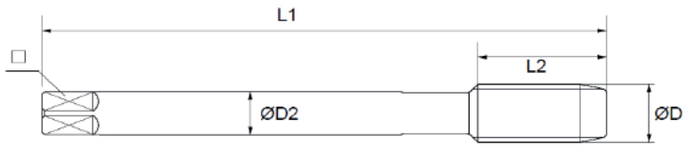




Rosca - 11 UN

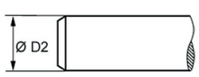
- Paso Unificado 8-UN - Clase 2B
- Forma C - 2-3
- HSSEG



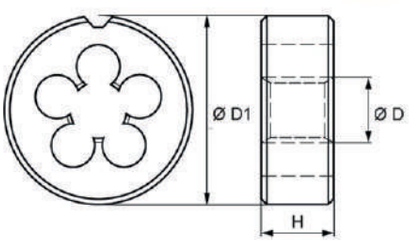


12-UN	D1	D2	L1	L2	□	SET MANO	FORMA C
UN 1/2 x 12	12,70	9,0	75	25	7,0	B-190301001	
UN 5/8 x 12	15,88	12,0	80	25	9,0	B-190301002	
UN 11/16 x 12	17,46	14,0	80	25	11,0	B-190301003	
UN 3/4 x 12	19,05	14,0	80	25	11,0	B-190301004	
UN 13/16 x 12	20,64	16,0	80	25	12,0	B-190301005	
UN 7/8 x 12	22,23	18,0	80	25	14,5	B-190301006	
UN 15/16 x 12	23,81	18,0	90	25	14,5	B-190301007	
UN 1.1/16 x 12	26,99	20,0	90	28	16,0	B-190301008	
UN 1.3/16 x 12	30,16	22,0	90	28	18,0	B-190301009	
UN 1.5/16 x 12	33,34	28,0	125	32	22,0	B-190301010	
UN 1.7/16 x 12	36,51	28,0	125	32	22,0	B-190301011	
UN 1.5/8 x 12	41,28	32,0	125	32	24,0	B-190301012	B-190501001
UN 1.3/4 x 12	44,45	36,0	125	32	29,0	B-190301013	B-190501002
UN 1.7/8 x 12	47,63	36,0	140	32	29,0	B-190301014	B-190501003
UN 2 x 12	50,80	40,0	140	32	32,0	B-190301015	B-190501004
UN 2.1/8 x 12	53,98	35,5	200	70	28,0		B-190501005
UN 2.1/4 x 12	57,15	40,0	221	76	31,5		B-190501006
UN 2.1/2 x 12	63,50	40,0	224	79	31,5		B-190501007
UN 2.3/4 x 12	69,85	45,0	234	79	35,5		B-190501008
UN 3" x 12	76,20	50,0	258	83	40,0		B-190501009
UN 3.1/4 x 12	82,55	50,0	261	86	40,0		B-190501010
UN 3.1/2 x 12	88,90	50,0	261	86	40,0		B-190501011
UN 3.3/4 x 12	95,25	56,0	279	89	45,0		B-190501012
UN 4" x 12	101,60	56,0	279	89	45,0		B-190501013



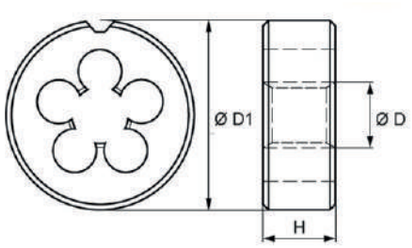


12-UN	D	D1	H	D2	TERRAJA
UN 1.1/16 x 12	26,99	65	18	26,80	B-191401001
UN 1.5/16 x 12	33,34	65	18	33,15	B-191401002
UN 1.5/8 x 12	41,28	75	20	41,09	B-191401003
UN 1.3/4 x 12	44,45	90	22	44,26	B-191401004
UN 2" x 12	50,80	90	22	50,61	B-191401005



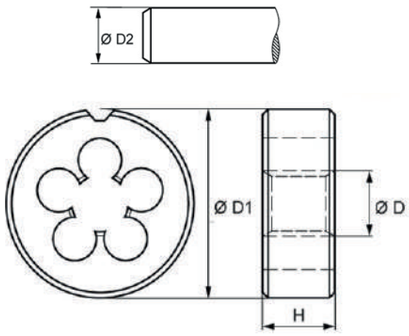
Terraja PG

PG	D1	H	D2	□	TERRAJA
PG 7 x 20	12,50	38	10	12,50	B-321401001
PG 9 x 18	15,20	45	14	15,20	B-321401002
PG 11 x 18	18,60	45	14	18,60	B-321401003
PG 13,5 x 18	20,40	45	14	20,40	B-321401004
PG 16 x 18	22,50	55	16	22,50	B-321401005
PG 21 x 16	28,30	65	18	28,30	B-321401006
PG 29 x 16	37,00	65	18	37,00	B-321401007
PG 36 x 16	47,00	90	22	47,00	B-321401008
PG 42 x 16	54,00	105	22	54,00	B-321401009
PG 48 x 16	59,30	105	22	59,30	B-321401010



Rosca VG - Terraja

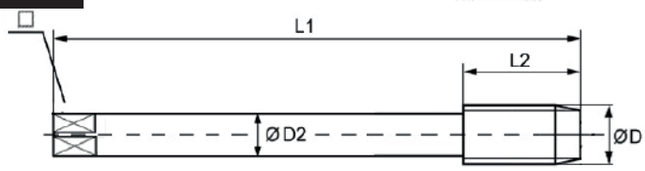
VG	D	D1	H	D2	TERRAJA
VG 5 x 36	5,15	20	7	5,15	B-391401001
VG 5,2 x 24	5,23	20	7	5,23	B-391401002
VG 6 x 32	5,98	20	7	5,98	B-391401003
VG 8 x 32	7,68	25	9	9,60	B-391401004
VG 10 x 28	10,27	30	11	10,27	B-391401005
VG 12 x 26	12,17	30	11	12,17	B-391401006



Rosca RD - Machos

- DIN 405
- Forma C - 2-3
- HSSEG

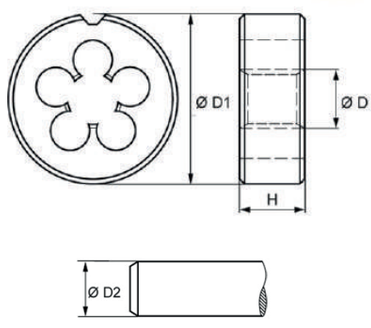




RD	D1	D2	L1	L2	□	FORMA C
Rd 8 x 1/10	8,25	6,0	90	26	4,9	B-350501001
Rd 9 x 1/10	9,25	7,0	90	26	5,5	B-350501002
Rd 10 x 1/10	10,25	7,0	100	28	5,5	B-350501003
Rd 11 x 1/10	11,25	8,0	100	28	6,2	B-350501004
Rd 12 x 1/10	12,25	9,0	110	28	7,0	B-350501005
Rd 14 x 1/8	14,32	11,0	110	32	9,0	B-350501006
Rd 16 x 1/8	16,32	12,0	110	32	9,0	B-350501007
Rd 18 x 1/8	18,32	14,0	125	32	11,0	B-350501008
Rd 20 x 1/8	20,32	16,0	140	32	12,0	B-350501009
Rd 22 x 1/8	22,32	18,0	140	32	14,5	B-350501010
Rd 24 x 1/8	24,32	18,0	160	34	14,5	B-350501011
Rd 26 x 1/8	26,32	20,0	160	36	16,0	B-350501012
Rd 28 x 1/8	28,32	20,0	160	36	16,0	B-350501013
Rd 30 x 1/8	30,32	22,0	180	36	18,0	B-350501014
Rd 32 x 1/8	32,82	25,0	180	36	20,0	B-350501015
Rd 34 x 1/8	34,32	28,0	200	36	22,0	B-350501016
Rd 36 x 1/8	36,32	28,0	200	36	22,0	B-350501017
Rd 38 x 1/8	38,32	28,0	200	38	22,0	B-350501018
Rd 40 x 1/6	40,42	32,0	200	50	24,0	B-350501019

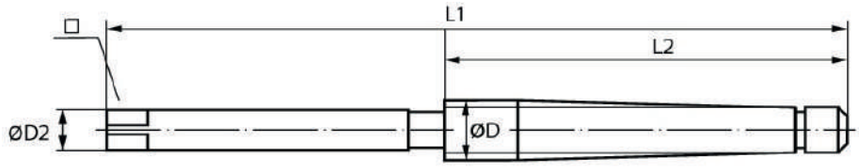
Rosca RD - Terraja

RD	D	D1	H	D2	TERRAJA
Rd 10 x 1/10	10,25	38	14	9,84	B-351401001
Rd 11 x 1/10	11,25	38	14	10,84	B-351401002
Rd 12 x 1/10	12,25	38	14	11,84	B-351401003
Rd 14 x 1/8	14,32	45	18	13,82	B-351401004
Rd 16 x 1/8	16,32	45	18	15,82	B-351401005
Rd 18 x 1/8	18,32	45	18	17,82	B-351401006
Rd 20 x 1/8	20,32	55	22	19,82	B-351401007
Rd 22 x 1/8	22,32	55	22	21,82	B-351401008
Rd 24 x 1/8	24,32	55	22	23,82	B-351401009
Rd 26 x 1/8	26,32	65	25	25,82	B-351401010
Rd 28 x 1/8	28,32	65	25	27,82	B-351401011
Rd 30 x 1/8	30,32	65	25	29,82	B-351401012
Rd 32 x 1/8	32,82	65	25	31,82	B-351401013



Rosca TR Trapezoidal - Machos

- DIN 103 - Clase 7H
- HSSEG

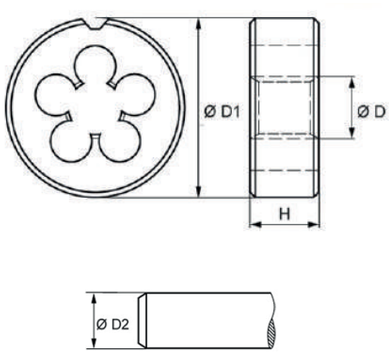




TR	D1	L1	L2	□	DERECHAS	IZQUIERDAS
TR 10 x 2	7,0	110,0	63	5,5	B-230901001	B-230902001
TR 10 x 3	7,0	125,0	75	5,5	B-230901002	B-230902002
TR 12 x 3	8,0	165,0	111	6,2	B-230901003	B-230902003
TR 14 x 3	10,0	140	85	8,0	B-230901004	B-230902004
TR 14 x 4	10,0	170	112	8,0	B-230901005	B-230902005
TR 16 x 4	11,0	180	116	9,0	B-230901006	B-230902006
TR 18 x 4	12,0	190	120	9,0	B-230901007	B-230902007
TR 20 x 4	14,0	200	124	11,0	B-230901008	B-230902008
TR 22 x 4	16,0	210	130	12,0	B-230901009	
TR 22 x 5	16,0	235	155	12,0	B-230901010	B-230902009
TR 24 x 5	18,0	245	160	14,5	B-230901011	B-230902010
TR 26 x 5	20,0	255	165	16,0	B-230901012	B-230902011
TR 28 x 5	22,0	265	170	18,0	B-230901013	B-230902012
TR 30 x 6	22,0	290	185	18,0	B-230901014	B-230902013
TR 32 x 6	25,0	300	191	20,0	B-230901015	B-230902014
TR 36 x 6	28,0	310	200	22,0	B-230901016	B-230902015

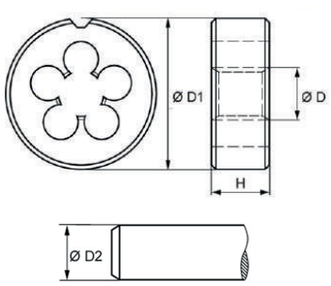
Rosca TR Trapezoidal - Terraja

TR	D1	H	D2	TERRAJA	TERRAJA IZQUIERDA
TR 10 x 2	38,0	14	9,91	B-231401001	B-231402001
TR 10 x 3	38,0	14	9,88	B-231401002	
TR 12 x 2	38,0	14	11,91	B-231401003	
TR 12 x 3	38,0	14	11,88	B-231401004	B-231402004
TR 14 x 2	38,0	14	13,91	B-231401005	
TR 14 x 3	45,0	18	13,88	B-231401006	B-231402006
TR 14 x 4	45,0	18	13,85	B-231401007	B-231402007
TR 16 x 2	45,0	18	15,91	B-231401008	
TR 16 x 4	45,0	18	15,85	B-231401009	B-231402009
TR 18 x 2	45,0	18	17,91	B-231401010	
TR 18 x 4	45,0	18	17,85	B-231401011	B-231402011
TR 20 x 2	45,0	18	19,91	B-231401012	
TR 20 x 4	55,0	22	19,85	B-231401013	B-231402013
TR 22 x 5	55,0	22	21,84	B-231401014	B-231402014
TR 24 x 5	65,0	25	23,84	B-231401015	B-231402015
TR 26 x 5	65,0	25	25,84	B-231401016	B-231402016
TR 28 x 5	65,0	25	27,84	B-231401017	B-231402017
TR 30 x 6	65,0	25	29,82	B-231401018	B-231402018



Rosca NPSM - Terraja

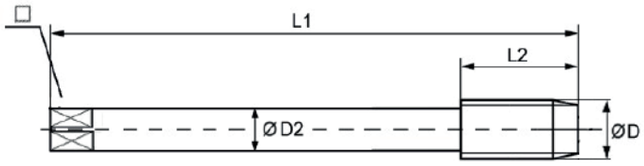
NPSM	D	D1	H	D2	TERRAJA
NPSM 1/8 x 27	10,24	30	11	9,99	B-261401001
NPSM 1/4 x 18	13,62	38	10	13,25	B-261401002
NPSM 3/8 x 18	17,06	45	14	16,70	B-261401003
NPSM 1/2 x 14	21,22	45	14	20,78	B-261401004
NPSM 3/4 x 14	26,57	55	16	26,14	B-261401005



Rosca NPS - Machos

- Forma C - 2-3
- HSSG



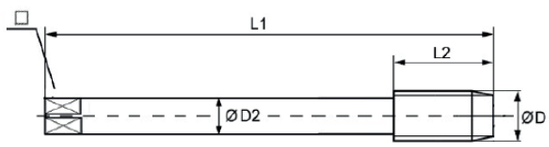


NPS	D1	D2	L1	L2	□	FORMA C
NPS 1/16 x 27	7,90	8,0	54	18	6,0	B-260101001
NPS 1/8 x 27	10,24	8,0	55	19	6,0	B-260101002
NPS 1/4 x 18	13,62	11,0	62	28	9,0	B-260101003
NPS 3/8 x 18	17,06	14,0	65	28	11,0	B-260101004
NPS 1/2 x 14	21,22	18,0	80	35	14,0	B-260101005
NPS 3/4 x 14	26,57	23,0	85	35	17,0	B-260101006
NPS 1'' x 11,5	33,23	26,0	95	45	21,0	B-260101007
NPS 1,1/4 x 11,5	41,99	32,0	105	45	26,0	B-260101008
NPS 1,1/2 x 11,5	48,05	38,0	110	45	29,0	B-260101009
NPS 2'' x 11,5	60,09	46,0	120	50	35,0	B-260101010

Rosca RC (BSPT) - Machos

- DIN 2999
- Forma B - 2-3
- HSSG



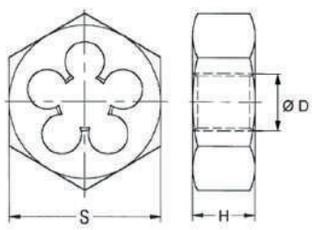


RC - BSPT	D1	D2	L1	L2	□	FORMA C
RC 1/8 x 28	9,73	8,0	55	19	6,0	B-270101001
RC 1/4 x 19	13,16	11,0	62	28	9,0	B-270101002
RC 3/8 x 19	16,66	14,0	65	28	11,0	B-270101003
RC 1/2 x 14	20,95	18,0	80	35	14,0	B-270101004
RC 3/4 x 14	26,44	23,0	85	35	17,0	B-270101005
RC 1'' x 11	33,25	26,0	95	45	21,0	B-270101006

Rosca BSPT - Terraja

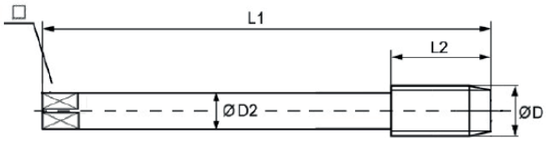
R	D	D1	H	TERRAJA
R 1/8 x 28	9,73	27	11	B-271501001
R 1/4 x 19	13,16	36	14	B-271501002
R 3/8 x 19	16,66	41	15	B-271501003
R 1/2 x 14	20,95	50	19	B-271501004
R 3/4 x 14	26,44	60	20	B-271501005
R 1" x 11	33,25	60	25	B-271501006
R 1.1/4 x 11	41,91	85	26	B-271501007
R 1.1/2 x 11	47,80	85	26	B-271501008
R 2" x 11	59,61	100	31	B-271501009





Rosca BA - Machos Mano

- Norma BS93
- Forma C - 2-3
- HSSG

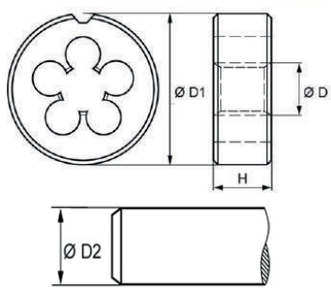


BA	D1	D2	L1	L2	□	SET MANO
BA 0	6,00	6,3	66	19,0	5,0	B-290313001
BA 1	5,30	5,6	62	17,0	4,5	B-290313002
BA 2	4,70	5,0	58	16,0	4,0	B-290313003
BA 3	4,10	4,5	53	13,0	3,6	B-290313004
BA 4	3,60	3,6	50	13,0	2,8	B-290313005
BA 5	3,20	3,2	48	11,0	2,5	B-290313006
BA 6	2,80	2,8	45	9,5	2,2	B-290313007



Rosca BA - Terraja

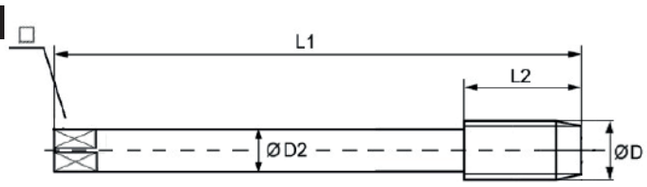
BA	D	D1	H	D2	TERRAJA
BA 0	6,00	20,6	6,35	5,90	B-291401001
BA 1	5,30	20,6	6,35	5,21	B-291401002
BA 2	4,70	20,6	6,35	4,61	B-291401003
BA 3	4,10	20,6	6,35	4,02	B-291401004
BA 4	3,60	20,6	6,35	3,52	B-291401005
BA 5	3,20	20,6	6,35	3,14	B-291401006
BA 6	2,80	20,6	6,35	2,74	B-291401007
BA 7	2,50	20,6	6,35	2,44	B-291401008
BA 8	2,20	20,6	6,35	2,15	B-291401009
BA 10	1,70	20,6	6,35	1,66	B-291401010



Rosca UNS - Machos

- TPI - Clase 2B
- Forma C - 2-3
- HSSG

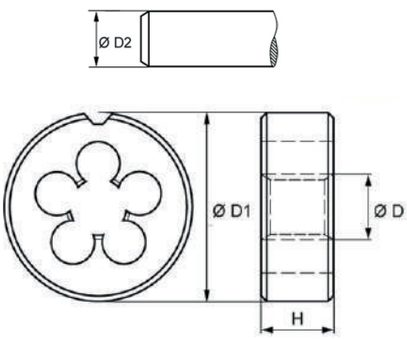




UNS	D1	D2	L1	L2	□	FORMA C
UNS 1/4 x 24	6,35	6,3	66	19	5,0	B-160501001
UNS 1/4 x 36	6,35	6,3	66	19	5,0	B-160501002
UNS 1/4 x 40	6,35	6,3	66	19	5,0	B-160501003
UNS 3/8 x 27	9,53	10,0	80	24	8,0	B-160501004
UNS 7/16 x 24	11,11	8,0	85	25	6,3	B-160501005
UNS 1/2 x 24	12,70	9,0	89	29	7,1	B-160501006
UNS 5/8 x 27	15,88	12,5	102	32	10,0	B-160501007
UNS 3/4 x 24	19,05	14,0	112	37	11,2	B-160501008
UNS 7/8 x 18	22,23	16,0	118	38	12,5	B-160501009
UNS 1" x 14	25,40	18,0	130	45	14,0	B-160501010

Rosca UNS - Terraja

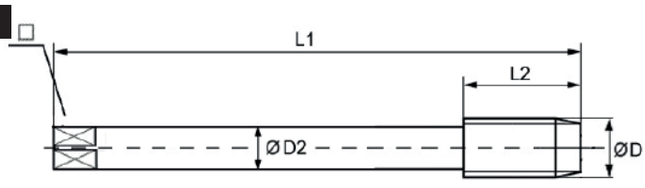
UNS	D	D1	H	D2	TERRAJA
UNS 1/4 x 24	6,35	20	7	6,24	B-161401001
UNS 1/4 x 36	6,35	20	5	6,26	B-161401002
UNS 1/4 x 40	6,35	20	5	6,27	B-161401003
UNS 7/16 x 24	11,11	30	11	11,00	B-161401005
UNS 1/2 x 24	12,70	38	10	12,59	B-161401006
UNS 5/8 x 27	15,88	45	14	15,76	B-161401007
UNS 7/8 x 18	22,23	55	16	22,08	B-161401008
UNS 1" x 14	25,40	55	16	25,23	B-161401009



Rosca VG - Machos

- DIN 7756
- Forma D - 4-5 | Forma C - 2-3
- HSSG





VG - DIN 2181	D1	D2	L1 DIN 2181	L1 DIN 374	L2	□	FORMA D DIN 2181	FORMA C DIN 374
VG 5 x 36	5,15	6,0	50	70	12	4,9	B-390301001	B-390501001
VG 5,2 x 24	5,23	6,0	56	80	17	4,9	B-390301002	B-390501002
VG 6 x 32	5,98	6,0	56	80	14	4,9	B-390301003	B-390501003
VG 8 x 32	7,68	7,0	56	80	16	5,5	B-390301004	B-390501004
VG 10 x 28	10,27	8,0	63	90	18	6,2	B-390301005	B-390501005
VG 12 x 26	12,17	9,0	70	100	22	7,0	B-390301006	B-390501006

Kit Reparacion Roscas - Metrica

Referencia	Medida	Cód. Útil	Cód. Varilla	Diámetro Broca	Insertos 1.5D Incluidos
B4001	M 2 X 0.4	EBW01	BZ001	2.1	20
B4002	MF 2.2 X 0.45	EBW01	BZ001	2.3	20
B4003	MF 2.5 X 0.45	EBW02	BZ002	2.6	20
B4005	M 3 X 0.5	EBW03	BZ003	3.2	20
B4006	MF 3.5 X 0.6	EBW03	BZ003	3.7	20
B4007	M 4 X 0.7	EBW04	BZ003	4.2	20
B4009	M 5 X 0.8	EBW05	BZ004	5.2	20
B0675	MF 6 X 0.75	EBW06	BZ005	6.3	20
B4010	M 6 X 1	EBW06	BZ006	6.3	10
B4011	M 7 x 1	EBW06	BZ006	7.3	20
B0875	MF 8 X 0.75	EBW08	BZ008	8.3	10
B4013	MF 8 X 1	EBW08	BZ008	8.3	20
B4012	M 8 X 1.25	EBW08	BZ008	8.3	20
B0091	MF 9 X 1	EBW08	BZ008	9.3	10
B4014	M 9 X 1.25	EBW08	BZ008	9.3	15
B4018	MF 10 X 1	EBW10	BZ010	10.3	15
B4017	MF 10 X 1.25	EBW10	BZ010	10.3	15
B4016	M 10 X 1.5	EBW10	BZ010	10.4	15
B0111	MF 11 X 1	EBW10	BZ010	11.4	5
B1125	MF 11 X 1.25	EBW10	BZ010	11.4	5
B4019	M 11 X 1.5	EBW10	BZ010	11.4	10
B4024	MF 12 X 1	EBW12	BZ012	12.3	10
B4023	MF 12 X 1.25	EBW12	BZ012	12.3	10
B4022	MF 12 X 1.5	EBW12	BZ012	12.4	10
B4021	M 12 X 1.75	EBW12	BZ012	12.4	10
B1315	MF 13 X 1.25	EBW12	-	13.25	5
B1325	MF 13 X 1.5	EBW12	-	13.25	5
B4031	MF 14 X 1	EBW14	-	14.4	10
B4030	MF 14 X 1.25	EBW14	-	14.4	10
B4029	MF 14 X 1.5	EBW14	-	14.4	10
B4028	M 14 X 2	EBW14	-	14.5	10
B1515	MF 15 X 1.5	EBW14	-	-	5
B1520	MF 15 X 2	EBW14	-	-	5
B4033	MF 16 X 1.5	EBW14	-	-	10
B4032	M 16 X 2	EBW14	-	-	10
B4036	MF 18 X 1.5	EBW18	-	-	5
B4035	MF 18 X 2	EBW18	-	-	5
B4034	M 18 X 2.5	EBW18	-	-	5
B4039	MF 20 X 1.5	EBW20	-	-	5
B4038	MF 20 X 2	EBW20	-	-	5
B4037	M 20 X 2.5	EBW20	-	-	5
B4042	MF 22 X 1.5	EBW22	-	-	5
B4041	MF 22 X 2	EBW22	-	-	5
B4040	M 22 X 2.5	EBW22	-	-	5
B4045	MF 24 X 1.5	EBW24	-	-	5
B4044	MF 24 X 2	EBW24	-	-	5
B4043	M 24 X 3	EBW24	-	-	5
B4046	M 30 X 3.5	EBW30	-	-	5
B0392	MF 39 X 2	EBW39	-	-	5
B0394	M 39 X 4	EBW39	-	-	5
B0422	MF 42 X 2	EBW42	-	-	5
B0423	MF 42 X 3	EBW42	-	-	5
B0424	M 42 X 4	EBW42	-	-	5

• Los Kits incluyen broca previa al roscado, macho de roscado, util para insertar los insertos y varias unidades de baercoils. (Excepto los que no se indican codigo o diametro de broca)
Se disponen tambien packs de recambios de todos los tamaños y longitudes.



Kit Reparacion Roscas – Kit Machos Mano

Referencia	Medida	Cod. Util	Insertos 1.5D Incluidos
B4049	MF 26 X 1.5	EBW26	5
B4052	MF 27 X 1.5	EBW26	5
B4051	MF 27 X 2	EBW27	5
B4050	M 27 X 3	EBW27	5
B4053	MF 28 X 1.5	EBW27	5
B4056	MF 30 X 1.5	EBW27	5
B4055	MF 30 X 2	EBW27	5
B4054	M 30 X 3.5	EBW27	5
B4058	MF 33 X 2	EBW28	5
B4057	M 33 X 3.5	EBW28	5
B4063	MF 36 X 1.5	EBW30	5
B4062	MF 36 X 2	EBW30	5
B4061	MF 36 X 3	EBW30	5
B0364	M 36 X 4	EBW30	5

• Los Kits incluyen broca previa al roscado, macho de roscado (Manual) , util para insertar los insertos y varias unidades de baercoils.
(Excepto los que no se indican codigo o diametro de broca)
Se disponen tambien packs de recambios de todos los tamaños y longitudes.



Kit Reparacion Roscas Metrica – Mix

Referencia	Medida	Cod. Util	Cod. Util	Diametro Broca	Insertos 1.5xD	Insertos 2xD	Insertos 2.5xD
B40052	M 3 x 0,5	EBW03	BZ003	3,2 mm	10	5	5
B40072	M 4 x 0,7	EBW04	BZ004	4,2 mm	10	5	5
B40092	M 5 x 0,8	EBW05	BZ005	5,2 mm	10	5	5
B40102	M 6 x 1,0	EBW06	BZ006	6,3 mm	10	5	5
B40112	M 7 x 1,0	EBW07	BZ006	7,3 mm	10	5	5
B40132	MF 8 x 1,0	EBW08	BZ008	8,3 mm	10	5	5
B40122	M 8 x 1,25	EBW08	BZ008	8,3 mm	10	5	5
B40182	MF 10 x 1,0	EBW10	BZ010	10,3 mm	10	5	5
B40172	MF 10 x 1,25	EBW10	BZ010	10,3 mm	10	5	5
B40162	M10 x 1,5	EBW10	BZ010	10,4 mm	10	5	5
B40232	MF 12 x 1,25	EBW12	BZ012	12,3 mm	10	5	5
B40222	MF 12 x 1,5	EBW12	BZ012	12,4 mm	5	5	5
B40212	M12 x 1,75	EBW12	BZ012	12,4 mm	5	5	5
B40292	MF 14 x 1,5	EBW14	-	14,4 mm	3	3	3
B40282	M14 x 2,0	EBW14	-	14,4 mm	3	3	3

Kit Reparacion Roscas Metrica – Mix



Referencia UNC	Medida	Cod. Util	Insertos 1.5D Incluidos
B4117	UNC 1-1/8 X 7	EBW26	10
B4118	UNC 1-1/4 X 7	EBW30	10
B4119	UNC 1-3/8 X 6	EBW31	10
B4120	UNC 1-1/2 X 6	EBW36	10

Referencia UNC	Medida	Cod. Util	Insertos 1.5D Incluidos
B4137	UNF 1-1/8 X 12	EBW30	5
B4138	UNF 1-1/4 X 12	EBW31	5
B4139	UNF 1-3/8 X 12	EBW36	5
B4140	UNF 1-1/2 X 12	EBW39	5

Kit Reparacion Roscas – UNC / UNF



• Los Kits incluyen broca previa al roscado, macho de roscado, util para insertar los insertos y varias unidades de baercoils.
(Excepto los que no se indican codigo o diametro de broca)
Se disponen tambien packs de recambios de todos los tamaños y longitudes.



Referencia UNC	Medida	Cód. Útil	Cód. Varilla	Diametro Broca	Insertos 1.5D Incluidos	Insertos 2xD Incluidos	Insertos 2.5xD Incluidos
B4348	UNC 3 X 48	EBW02	BZ002	2,6	10	5	5
B4101	UNC 4 X 40	EBW03	BZ003	3	20	5	5
B4106	UNC 5 X 40	EBW03	BZ003	3,4	20	5	5
B4102	UNC 6 X 32	EBW03	BZ003	3,7	20	5	5
B4103	UNC 8 X 32	EBW04	BZ004	4,5	20	5	5
B4104	UNC 10 X 24	EBW04	BZ004	5,2	20	5	5
B4105	UNC 12 X 24	EBW05	BZ005	5,8	10	5	5
B4107	UNC 1/2 X 20	EBW06	BZ006	6,7	20	5	5
B4108	UNC 5/66 X 18	EBW07	BZ006	8,3	20	5	5
B4109	UNC 3/8 X 16	EBW08	BZ008	9,9	15	5	5
B4110	UNC 7/16 X 14	EBW10	BZ010	11,6	10	5	5
B4111	UNC 1/2 X 13	EBW12	BZ012	13	10	5	5
B4112	UNC 9/16 X 12	EBW14	-	-	10	5	5
B4113	UNC 5/8 X 11	EBW14	-	-	10	3	3
B41116	UNC 11/16 X 11	EBW16	-	-	5	3	3
B4114	UNC 3/4 X 10	EBW18	-	-	5	-	-
B4115	UNC 7/8 X 9	EBW22	-	-	5	-	-
B4116	UNC 1 X 8	EBW24	-	-	5	-	-
B4116	UNC 1 X 8	EBW24	-	-	5	-	-

Referencia UNF	Medida	Cód. Útil	Cód. Varilla	Diametro Broca	Insertos 1.5D Incluidos	Insertos 2xD Incluidos	Insertos 2.5xD Incluidos
B41201	UNF 2 X 64	EBW01	BZ001	2,3	10	5	5
B4356	UNF 3 X 56	EBW02	BZ002	2,6	10	5	5
B41202	UNF 4 X 48	EBW03	BZ003	3	20	5	5
B4121	UNF 6 X 40	EBW03	BZ003	3,7	20	5	5
B4122	UNF 8 X 36	EBW04	BZ004	4,4	20	5	5
B4123	UNF 10 X 32	EBW05	BZ005	5,1	20	5	5
B4125	UNF 1/4 X 28	EBW06	BZ006	6,6	20	5	5
B4126	UNF 5/16 X 24	EBW06	BZ006	8,2	20	5	5
B4127	UNF 3/8 X 24	EBW08	BZ008	9,8	15	5	5
B4128	UNF 7/16 X 20	EBW010	BZ0010	11,5	10	5	5
B4129	UNF 1/2 X 20	EBW012	BZ0012	13	10	5	5
B4130	UNF 9/16 X 18	-	-	-	10	5	5
B4131	UNF 5/8 X 18	-	-	-	10	5	5
B4132	UNF 3/4 X 16	-	-	-	5	3	3
B4133	UNF 7/8 X 14	-	-	-	5	3	3
B4134	UNF – 1 X 12	-	-	-	5	-	-
B41351	UNF 1 X 14	-	-	-	5	-	-

Kit Reparacion Roscas – Kit Machos Mano BSW / BSF



• Los Kits incluyen broca previa al roscado, macho de roscado, util para insertar los insertos y varias unidades de baercoils.
(Excepto los que no se indican codigo o diametro de broca)
Se disponen tambien packs de recambios de todos los tamaños y longitudes

Referencia BSW	Medida	Cód. Útil	Insertos 1.5D Incluidos
B4154	BSW 1-1/8 X 7	EBW26	5
B4155	BSW 1-1/4 X 7	EBW30	5
B4156	BSW 1-3/8 X 6	EBW31	5
B4157	BSW 1-1/2 X 6	EBW36	5

Referencia BSW	Medida	Cód. Útil	Insertos 1.5D Incluidos
B4179	BSF 1-1/8 X 9	EBW30	5
B4180	BSF 1-1/4 X 9	EBW31	5
B4181	BSF 1-3/8 X 8	EBW36	5
B4182	BSF 1-1/2 X 8	EBW39	5

Kit Reparacion Roscas – BSW / BSF

• Los Kits incluyen broca previa al roscado, macho de roscado, util para insertar los insertos y varias unidades de baercoils.
(Excepto los que no se indican codigo o diametro de broca)
Se disponen tambien packs de recambios de todos los tamaños y longitudes.

Referencia BSW	Medida	Cód. Útil	Cód. Varilla	Diametro Broca	Insertos 1.5D Incluidos
B4141	BSW 1/8 X 40	EBW03	BZ003	3,4	20
B4142	BSW 3/6 X 24	EBW05	BZ005	5	20
B4143	BSW 1/4 X 20	EBW06	BZ006	6,7	20
B4144	BSW 5/16 X 18	EBW07	BZ006	8,3	20
B4145	BSW 3/8 X 16	EBW08	BZ008	9,9	15
B4146	BSW 7/16 X 14	EBW10	BZ010	11,6	10
B4147	BSW 1/2 X 12	EBW12	BZ012	13	10
B4148	BSW 9/16 X 12	EBW14	-	-	5
B4149	BSW 5/8 X 11	EBW14	-	-	5
B4153	BSW 11/16 X 11	EBW16	-	-	5
B4150	BSW 3/4 X 10	EBW18	-	-	5
B4151	BSW 7/8 X 9	EBW22	-	-	5
B4152	BSW 1” X 8	EBW24	-	-	4



Referencia BSF	Medida	Cód. Útil	Cód. Varilla	Diametro Broca	Insertos 1.5D Incluidos
B4162	BSF 3/16 X 32	EBW04	BZ004	5	20
B4177	BSF 7/32 X 28	EBW05	BZ005	5,8	10
B4163	BSF 1/4 X 26	EBW06	BZ006	6,6	20
B4178	BSF 9/32 X 26	EBW06	BZ006	7,3	10
B4165	BSF 5/16 X 22	EBW07	BZ008	8,3	20
B4166	BSF 3/8 X 20	EBW08	BZ008	9,9	15
B4167	BSF 7/16 X 18	EBW10	BZ010	11,5	10
B4168	BSF 1/2 X 16	EBW12	BZ012	13	10
B4169	BSF 9/16 X 16	EBW14	-	-	5
B4170	BSF 5/8 X 14	EBW14	-	-	5
B4171	BSF 11/16 X 14	EBW16	-	-	5
B4172	BSF 3/4 X 12	EBW18	-	-	5
B4173	BSF 13/16 X 12	EBW18	-	-	5
B4174	BSF 7/8 X 11	EBW22	-	-	5
B4176	BSF 1” X 10	EBW24	-	-	4



Kit Reparacion Roscas – Kit Machos Mano BSW / BSF





Referencia	Medida	Cód. Útil	Cód. Varilla	Diametro Broca	Insertos 1.5D Incluidos
B4190	G 1/8 X 28	EBW10	BZ010	9,9	5
B4191	G 1/4 X 19	EBW12	BZ012	13,5	5
B4192	G 3/8 X 19	EBW14	-	17	5
B4193	G 1/2 X 14	EBW22	-	-	5
B4194	G 5/8 X 14	EBW24	-	-	5
B4195	G 3/4 X 14	EBW26	-	-	5
B4196	G 7/8 X 14	EBW30	-	-	5
B4197	G 1" X 11	EBW36	-	-	5
B4198	G 1-1/4 X 11	EBW42	-	-	5
B4199	G 1-1/2 X 11	EBW50	-	-	5

Kit Reparacion Roscas – BA - BSB – BSC

Referencia	Medida	Cód. Útil	Cód. Varilla	Diametro Broca	Insertos 1.5D Incluidos
B4201	BA 0	EBW06	BZ006	6,2	10
B4202	BA 1	EBW05	BZ005	5,5	10
B4203	BA 2	EBW05	BZ005	4,9	10
B4204	BA 3	EBW04	BZ004	4,3	5
B4205	BA 4	EBW03	BZ003	3,8	5
B4206	BA 5	EBW03	BZ003	3,2	5
B4207	BA 6	EBW02	BZ002	2,9	5

Referencia	Medida	Cód. Útil	Cód. Varilla	Diametro Broca	Insertos 1.5D Incluidos
B4208	BSB 1/4 X 26	EBW06	BZ006	6,6	5
B4209	BSB 5/16 X 26	EBW07	BZ006	8,2	5
B4210	BSB 3/8 X 26	EBW08	BZ008	9,8	5
B4211	BSB 7/16 X 26	EBW10	BZ010	11,5	5
B4212	BSB 1/2 X 26	EBW12	BZ012	13	5

Referencia	Medida	Cód. Útil	Cód. Varilla	Diametro Broca	Insertos 1.5D Incluidos
B4220	BSC 5/16 X 26	EBW07	BZ006	8,2	10
B4221	BSC 3/8 X 26	EBW08	BZ008	9,8	10
B4222	BSC 7/16 X 26	EBW10	BZ010	11,5	5
B4223	BSC 1/2 X 26	EBW12	BZ012	13	5

Kit Reparacion Roscas - NPT

Referencia	Medida	Cód. Útil	Insertos 1.5D Incluidos	Insertos 2.5xD
B4231	NPT 1/8 X 27	EBW10	10	10
B4232	NPT 1/4 X 18	EBW14	10	10
B4233	NPT 3/8 X 18	EBW14	10	10
B4234	NPT 1/2 X 14	EBW22	5	5
B4235	NPT 3/4 X 14	EBW26	5	5
B4236	NPT 1" X 11.5	EBW36	5	5

Kit Reparacion Roscas – 8 UN

Referencia	Medida	Cód. Útil	Insertos 1.5D Incluidos
B4240	1-1/8 X 8	EBW26	5
B4241	1-1/4 X 8	EBW30	5
B4242	1-3/8 X 8	EBW31	5
B4243	1-1/2 X 8	EBW36	4
B4244	1-5/8 X 8	EBW39	4
B4245	1-3/4 X 8	EBW42	4
B4246	1-7/8 X 8	EBW42	4
B4247	2" X 8	EBW42	4



KITS Mixtos de Baercoils



• Los Kits incluyen broca previa al roscado, macho de roscado, util para insertar los insertos y varias unidades de baercoils.
(Excepto los que no se indican codigo o diametro de broca)
Se disponen tambien packs de recambios de todos los tamaños y longitudes.



Referencia	Medida	Cód. Útil	Cód. Varilla	Diametro Broca	Insertos 1.5D Incluidos	Insertos 2.5D Incluidos
B5101	M3 X 0.5	EBW03	BZ003	3,2	10	5
	M4 X 0.7	EBW04	BZ004	4,2	10	5
	M5 X 0.8	EBW05	BZ005	5,2	10	5
	M6 X 1	EBW06	BZ006	6,3	10	5
	M8 X 1.25	EBW08	BZ008	8,3	10	5
	M10 X 1.5	EBW10	BZ010	10,4	5	5
	M12 X 1.75	EBW12	BZ012	12,4	5	5

Referencia	Medida	Cód. Útil	Cód. Varilla	Diametro Broca	Insertos 1.5D Incluidos	Insertos 2.5D Incluidos
B5104	M5 X 0.8	EBW05	BZ005	5,2	10	5
	M6 X 1	EBW06	BZ006	6,3	10	5
	M8 X 1.25	EBW08	BZ008	8,3	10	5
	M10 X 1.5	EBW10	BZ010	10,4	5	5
	M12 X 1.75	EBW12	BZ012	12,4	5	5

Referencia	Medida	Cód. Útil	Cód. Varilla	Diametro Broca	Insertos 1.5D Incluidos	Insertos 2.5D Incluidos
B5131	M5 X 0.8	EBW05	BZ005	5.2	10	5
	M6 X 1	EBW06	BZ006	6.3	10	5
	M8 X 1.25	EBW08	BZ008	8.3	10	5

Referencia	Medida	Cód. Útil	Cód. Varilla	Diametro Broca	Insertos 1.5D Incluidos	Insertos 2.5D Incluidos
B5130	M6 X 1	EBW06	BZ006	6,3	10	5
	M8 X 1.25	EBW08	BZ008	8,3	10	5
	M10 X 1.2	EBW10	BZ010	10,4	5	5



KITS de Baercoils



• Los Kits incluyen broca previa al roscado, macho de roscado, util para insertar los insertos y varias unidades de baercoils.
(Excepto los que no se indican codigo o diametro de broca)
Se disponen tambien packs de recambios de todos los tamaños y longitudes

Referencia	Medida	Cód. Útil	Cód. Varilla	Diametro Broca	Insertos 1.5D Incluidos
B5120	UNC 1/4 X 20	EBW06	BZ006	6.7	25
	UNC 5/16 X 18	EBW07	BZ008	8.3	25
	UNC 3/8 X 16	EBW08	BZ008	9.9	25
KIT UNC 1/4 - 1/2	UNC 7/16 X 14	EBW10	BZ010	11.6	10
	UNC 1/2 X 13	EBW12	BZ012	13	10

Referencia	Medida	Cód. Útil	Cód. Varilla	Diametro Broca	Insertos 1.5D Incluidos
B5121	UNF 1/4 X 28	EBW06	BZ006	6.6	25
	UNF 5/16 X 24	EBW07	BZ008	8.3	25
	UNF 3/8 X 24	EBW08	BZ008	9.9	25
KIT UNF 1/4 - 1/2	UNF 7/16 X 20	EBW10	BZ010	11.5	10
	UNF 1/2 X 20	EBW12	BZ012	13	10

Referencia	Medida	Cód. Útil	Cód. Varilla	Diametro Broca	Insertos 1.5D Incluidos
B5122	BSW 1/4 X 20	EBW06	BZ006	6.7	25
	BSW5/16 X 18	EBW07	BZ008	8.3	25
	BSW 3/8 X 16	EBW08	BZ008	9.9	25
KIT BSW 1/4 - 1/2	BSW 7/16 X 14	EBW010	BZ010	11.6	10
	BSW 1/2 X 12	EBW012	BZ012	13	10

Referencia	Medida	Cód. Útil	Cód. Varilla	Diametro Broca	Insertos 1.5D Incluidos
B5123	BSF 1/4 X 26	EBW06	BZ006	6.6	25
	BSF 5/16 X 22	EBW07	BZ008	8.3	25
	BSF 3/8 X 20	EBW08	BZ008	9.9	25
KIT UNC 1/4 - 1/2	BSF 7/16 X 18	EBW10	BZ010	11.5	10
	BS 1/2 X 16	EBW12	BZ012	13	10

Referencia	Medida	Cód. Útil	Cód. Varilla	Diametro Broca	Insertos 1.5D Incluidos
B5124	G - BSP 1/8 X 28	EBW06	BZ006	6.6	25
	G – BSP 1/4 X 19	EBW07	BZ008	8.3	25
	G – BSP 3/8 X 19	EBW08	BZ008	9.9	25
KIT UNC 1/4 - 1/2	G – BSP 1/2 X 14	EBW10	BZ010	11.5	10

Referencia	Medida	Cód. Útil	Cód. Varilla	Diametro Broca	Insertos 1.5D Incluidos
B5125	BS 0	EBW06	BZ006	6.2	5
	BA 2	EBW05	BZ005	4.9	5
KIT UNC 1/4 - 1/2	BA 4	EBW03	BZ003	3.8	5
	BA 6	EBW02	BZ002	2.9	5

Referencia	Medida	Cód. Útil	Cód. Varilla	Diametro Broca	Insertos 1.5D Incluidos
B5126	NPT 1/8 X 27	EBW10	-	-	5
	BPT 1/4 X 19	EBW14	-	-	5
KIT UNC 1/4 - 1/2	NPT 3/8 X 18	EBW14	-	-	5
	NPT ½ X 14	EBW22	-	-	5

KITS ESPECIALES	Medida	Cód. Útil	Cód. Varilla	Diametro Broca	Insertos 1.5D Incluidos
B4225	UNEF 1/4 X 32	EBW06	BZ006	6.6	10
B4226	HARLEY1/4 X 24	EBW06	BZ006	6.6	10
B4227	HARLEY 7/16 X 16	EBW10	BZ010	11.5	10
B4228	CUMMINS 11/16 X 16	EBW14	-	-	10
B4229	CARBURETOR 7/8 X 20	EBW22	-	-	10
B4230	CARBURETOR 1” X 20	EBW24	-	-	10

Insertos de Roscado con Ranura - Baerfix



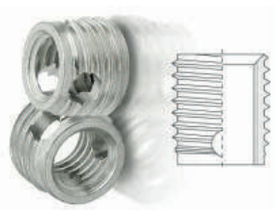
- Modelo Acero: Fabricados en acero tratado y recubiertos en Zinc según norma RohS
- Modelo Inoxidable: Fabricados segun norma en Inoxidable 1.4305 (AISI 303)
- Modelo Láton: Fabricados segun norma en Latón

Referencia Acero	Referencia Inox	Referencia Latón	Rosca Interior	Rosca Exterior	Longitud	Unidades/Pack
1-FE02	-	-	M 2 x 0,4*	M 4,5 x 0,5	6 mm	100
1-FE025	-	-	M 2,5 x 0,45	M 4,5 x 0,5	6 mm	100
1-FE03	1-FA03	1-FMS43	M 3 x 0,5	M 5 x 0,5	6 mm	100
1-FE04	1-FA44	1-FMS44	M 4 x 0,7	M 6,5 x 0,75	8 mm	100
1-FE05	1-FA45	1-FMS45	M 5 x 0,8	M 8 x 1,0	10 mm	100
1-FE069	-	-	M 6 x 1,0	M 9 x 1,0	12 mm	100
1-FE06	1-FA46	1-FMS46	M 6 x 1,0	M 10 x 1,5	14 mm	100
1-FE08	1-FA48	1-FMS48	M 8 x 1,25	M 12 x 1,5	15 mm	100
1-FE10	1-FA410	1-FMS410	M 10 x 1,5	M 14 x 1,5	18 mm	100
1-FE125	-	-	M 12 x 1,5	M 16 x 1,5	22 mm	100
1-FE12	1-FA412	-	M 12 x 1,75	M 16 x 1,5	22 mm	100
1-FE14	-	-	M 14 X 2	M 18 X 1.5	24 MM	50
FE145	-	-	M 14 X 1.5	M 18 X 1.5	24 MM	5
1-FE16	1-FA416	-	M 16 x 2,0	M 20 x 1,5	22 mm	50
FE18	-	-	M 18 x 2,5	M 22 x 1,5	24 mm	50
FE20	1-FA420	-	M 20 x 2,5	M 26 x 1,5	27 mm	50
FE22	-	-	M 22 x 2,5	M 26 x 1,5	30 mm	50
FE24	-	-	M 24 x 3,0	M 30 x 1,5	30 mm	50

Modelos UNC	Rosca Interior	Rosca Exterior	Longitud	Unidades/Pack
FE74	UNC 1/4 x 20*	M 10 x 1,5	14 mm	10
FE75	UNC 5/16 x 18*	M 12 x 1,5	15 mm	10
FE76	UNC 3/8 x 16*	M 14 x 1,5	18 mm	5
FE77	UNC 7/16 x 14*	M 16 x 1,5	22 mm	5
FE78	UNC 1/2 x 13*	M 18 x 1,5	22 mm	5

Modelos UNF	Rosca Interior	Rosca Exterior	Longitud	Unidades/Pack
FE84	UNF 1/4 x 28*	M 10 x 1,5	14 mm	10
FE85	UNF 5/16 x 24*	M 12 x 1,5	15 mm	10
FE86	UNF 3/8 x 24*	M 14 x 1,5	18 mm	5
FE87	UNF 7/16 x 20*	M 16 x 1,5	22 mm	5
FE88	UNF 1/2 x 20*	M 18 x 1,5	22 mm	5

Baerfix – Insertos de Roscado Taladrado



- Fabricados en acero tratado y recubiertos en Zinc según norma RohS o en Inoxidable AISI 306

Referencia Acero	Referencia Inoxidable	Rosca Interior	Rosca Exterior	Longitud	Unidades/Pack
1-FEL03	1-FAL03	M 3 x 0,5	M 5 x 0,6	4 mm	100
1-FEL04	1-FAL04	M 4 x 0,7	M 6,5 x 0,8	6 mm	100
1-FEL05	1-FAL05	M 5 x 0,8	M 8 x 1.0	7 mm	100
1-FEL06	1-FAL06	M 6 x 1,0	M 10 x 1,25	8 mm	100
1-FEL08	1-FAL08	M 8 x 1,25	M 12 x 1,5	9 mm	100
1-FEL10	1-FAL10	M10 x 1.5	M14 x 1.5	10 mm	100
1-FEL12	1-FAL12	M12 X 1.75	M16 X 1.75	12 MM	100
1-FEL16		M16 x 2.0	M20 x 2.0	24 mm	50

Kits Insertos de Roscado con Ranura - Baerfix

• Fabricados en acero tratado y recubiertos en Zinc según norma RohS

Kit	Métrica	Código Recambio	Útil	Ø Broca	Insertos
F001	M 2 x 0,4	EBS02*		4,20 mm	5
F002	M 2,5 x 0,45	EBS025*		4,20 mm	5
F003	M 3 x 0,5	KEBW03	NUT	4,70 mm	5
F004	M 4 x 0,7	KEBW04	NUT	6,10 mm	5
F005	M 5 x 0,8	KEBW05	NUT	7,50 mm	5
F006	M 6 x 1,0	KEBW06	NUT	9,30 mm	5
F008	M 8 x 1,25	KEBW08	NUT	11,40 mm	5
F010	M 10 x 1,5	KEBW10	NUT	13,25 mm	5
F0125	M 12 x 1,5	KEBW1215	NUT	15,25 mm	5
F012	M 12 x 1,75	KEBW12	NUT	15,25 mm	5
F0145	M 14 x 1,5	BEBW1415*		17,00 mm	5
F014	M 14 x 2,0	BEBW1420*		17,00 mm	5
F016	M 16 x 2,0	EBS16**		19,00 mm	5
F018	M 18 x 2,5	EBS18**		21,00 mm	5
F020	M 20 x 2,5	EBS20**		25,00 mm	5
F312	M3 a M12	-	-	-	-
F512	M5 a M12	-	-	-	-
F310	M3 a M10	-	-	-	-
Kits UNF					
FF001	UNF 1/4 x 28	KEBW31	NUT	9,30 mm	5
FF002	UNF 5/16 x 24	KEBW32	NUT	11,40 mm	5
FF003	UNF 3/8 x 24	KEBW33	NUT	13,25 mm	5
FF004	UNF 7/16 x 20	KEBW34	NUT	15,25 mm	5
FF005	UNF 1/2 x 20	BEBW35*		17,00 mm	5
FF300	UNF1/4 a UNF1/2	-	-	-	-
Kits UNC					
FC001	UNC 1/4 x 20	KEBW21	NUT	9,30 mm	5
FC002	UNC 5/16 x 18	KEBW22	NUT	11,40 mm	5
FC003	UNC 3/8 x 16	KEBW23	NUT	13,25 mm	5
FC004	UNC 7/16 x 14	KEBW24	NUT	15,25 mm	5
FC005	UNC 1/2 x 13	BEBW25*		17,00 mm	5
FC300	UNC1/4 a UNC1/2	-	-	-	-





Insertos de Roscado Baercoils - Métrica

	Pack	1,0 D	1,5 D	2,0 D	2,5 D	3,0 D
M 2 x 0,4	100	1-B7202-1	1-B7202-15	1-B7202-2	1-B7202-25	1-B7202-3
M 2,2 x 0,45	100	1-B7203-1	1-B7203-15	1-B7203-2	1-B7203-25	1-B7203-3
M 2,5 x 0,45	100	1-B7204-1	1-B7204-15	1-B7204-2	1-B7204-25	1-B7204-3
M 3 x 0,5	100	1-B7205-1	1-B7205-15	1-B7205-2	1-B7205-25	1-B7205-3
M 3,5 x 0,6	100	1-B7206-1	1-B7206-15	1-B7206-2	1-B7206-25	1-B7206-3
M 4 x 0,7	100	1-B7207-1	1-B7207-15	1-B7207-2	1-B7207-25	1-B7207-3
M 5 x 0,8	100	1-B7208-1	1-B7208-15	1-B7208-2	1-B7208-25	1-B7208-3
M 6 x 1,0	100	1-B7209-1	1-B7209-15	1-B7209-2	1-B7209-25	1-B7209-3
M 7 x 1,0	100	1-B7210-1	1-B7210-15	1-B7210-2	1-B7210-25	1-B7210-3
MF 8 x 0,75	100	1-BE875-1	1-BE875-15	1-BE875-2	-	-
MF 8 x 1,0	100	1-B7212-1	1-B7212-15	1-B7212-2	1-B7212-25	1-B7212-3
M 8 x 1,25	100	1-B7211-1	1-B7211-15	1-B7211-2	1-B7211-25	1-B7211-3
MF 9 x 1,0	100	1-BE91-1	1-BE91-15	1-BE91-2	-	-
M 9 x 1,25	100	1-B7213-1	1-B7213-15	1-B7213-2	1-B7213-25	1-B7213-3
MF 10 x 1,0	100	1-B7217-1	1-B7217-15	1-B7217-2	1-B7217-25	1-B7217-3
MF 10 x 1,25	100	1-B7216-1	1-B7216-15	1-B7216-2	1-B7216-25	1-B7216-3
M 10 x 1,5	100	1-B7215-1	1-B7215-15	1-B7215-2	1-B7215-25	1-B7215-3

Insertos de Roscado Baercoils - Métrica



	Pack	1,0 D	1,5 D	2,0 D	2,5 D	3,0 D
MF 11 x 1,0	100	1-BE111-1	1-BE111-15	1-BE111-2	-	-
MF 11 x 1,25	100	-	1-BE1125-15	1-BE1125-2	-	-
M 11 x 1,5	100	1-B7219-1	1-B7219-15	1-B7219-2	1-B7219-25	1-B7219-3
MF 12 x 1,0	100	1-B7224-1	1-B7224-15	1-B7224-2	1-B7224-25	1-B7224-3
MF 12 x 1,25	100	1-B7223-1	1-B7223-15	1-B7223-2	1-B7223-25	1-B7223-3
MF 12 x 1,5	100	1-B7222-1	1-B7222-15	1-B7222-2	1-B7222-25	1-B7222-3
M 12 x 1,75	100	1-B7221-1	1-B7221-15	1-B7221-2	1-B7221-25	1-B7221-3
MF 13 x 1,25	50	1-BE1325-1	1-BE1325-15	1-BE1325-2	-	-
MF 13 x 1,5	50	1-BE1315-1	1-BE1315-15	1-BE1315-2	-	-
MF 14 x 1,0	50	1-B7228-1	1-B7228-15	1-B7228-2	1-B7228-25	1-B7228-3
MF 14 x 1,25	50	1-B7227-1	1-B7227-15	1-B7227-2	1-B7227-25	1-B7227-3
MF 14 x 1,5	50	1-B7226-1	1-B7226-15	1-B7226-2	1-B7226-25	1-B7226-3
M14 x 2,0	50	1-B7225-1	1-B7225-15	1-B7225-2	1-B7225-25	1-B7225-3
MF 15 x 1,5	50	1-BE1515-1	1-BE1515-15	1-BE1515-2	-	-
MF 16 x 1,5	50	1-B7235-1	1-B7235-15	1-B7235-2	1-B7235-25	1-B7235-3
M 16 x 2,0	50	1-B7234-1	1-B7234-15	1-B7234-2	1-B7234-25	1-B7234-3
MF 18 x 1,5	25	1-B7238-1	1-B7238-15	1-B7238-2	1-B7238-25	1-B7238-3
MF 18 x 2,0	25	1-B7237-1	1-B7237-15	1-B7237-2	1-B7237-25	1-B7237-3
M 18 x 2,5	25	1-B7236-1	1-B7236-15	1-B7236-2	1-B7236-25	1-B7236-3
MF 20 x 1,5	25	1-B7241-1	1-B7241-15	1-B7241-2	1-B7241-25	1-B7241-3
MF 20 x 2,0	25	1-B7240-1	1-B7240-15	1-B7240-2	1-B7240-25	1-B7240-3
M 20 x 2,5	25	1-B7239-1	1-B7239-15	1-B7239-2	1-B7239-25	1-B7239-3
MF 22 x 2,0	25	1-B7243-1	1-B7243-15	1-B7243-2	1-B7243-25	1-B7243-3
MF 22 X 1,5	25	1-B7244-1	1-B7244-15	1-B7244-2	1-B7244-25	1-B7244-3
M 22 x 2,5	25	1-B7242-1	1-B7242-15	1-B7242-2	1-B7242-25	1-B7242-3
MF 24 x 1,5	25	1-B7247-1	1-B7247-15	1-B7247-2	1-B7247-25	1-B7247-3
MF 24 x 2,0	25	1-B7246-1	1-B7246-15	1-B7246-2	1-B7246-25	1-B7246-3
M 24 x 3,0	25	1-B7245-1	1-B7245-15	1-B7245-2	1-B7245-25	1-B7245-3
MF 26 x 1,5	5	-	1-B7349-15	-	-	-
MF 27 x 1,5	5	-	1-B7352-15	-	-	-
MF 27 x 2,0	5	-	1-B7351-15	-	-	-
M 27 x 3,0	5	1-BE273-1	1-BE273-15	1-BE273-2	-	-
MF 28 x 1,5	5	1-B7353-1	1-B7353-15	-	-	-
MF 30 x 1,5	5	1-B7356-1	1-B7356-15	-	-	-
MF 30 x 2,0	5	1-B7355-1	1-B7355-15	-	-	-
M 30 x 3,5	5	1-B7354-1	1-B7354-15	1-B7354-2	-	-
MF 33 x 2,0	5	1-B7358-1	1-B7358-15	-	-	-
M 33 x 3,5	5	1-B7357-1	1-B7357-15	1-B7357-2	-	-
MF 36 x 1,5	5	-	1-B7363-15	-	-	-
MF 36 x 2,0	5	-	1-B7362-15	-	-	-
MF 36 x 3,0	5	-	1-B7361-15	-	-	-
M 36 x 4,0	5	1-BE364-1	1-BE364-15	1-BE364-2	-	-
MF 39 x 2,0	5	-	1-BE392-15	-	-	-
M 39 x 4,0	5	-	1-BE394-15	-	-	-
MF 42 x 2,0	5	-	1-BE422-15	-	-	-
MF 42 x 3,0	5	-	1-BE423-15	-	-	-
MF 42 x 4,0	5	-	1-BE424-15	-	-	-

Baercoils G - BSP

	Pack	1,0 D	1,5 D	2,0 D	2,5 D	3,0 D
G 1/8 x 28	100	1-B8380-1	1-B8380-15	1-B8380-2	1-B8380-25	1-B8380-3
G 1/4 x 19	100	1-B8381-1	1-B8381-15	1-B8381-2	1-B8381-25	1-B8381-3
G 3/8 x 19	50	1-B8382-1	1-B8382-15	1-B8382-2	1-B8382-25	1-B8382-3
G 1/2 x 14	25	1-B8383-1	1-B8383-15	1-B8383-2	1-B8383-25	1-B8383-3
G 5/8 x 14	10	1-B8384-1	1-B8384-15	1-B8384-2	1-B8384-25	-
G 3/4 x 14	5	1-B8385-1	1-B8385-15	1-B8385-2	1-B8385-25	-
G 7/8 x 14	5	1-B8386-1	1-B8386-15	1-B8386-2	-	-
G 1" x 11	5	1-B8387-1	1-B8387-15	1-B8387-2	-	-

Baercoils BA

	Pack	1,0 D	1,5 D	2,0 D	2,5 D	3,0 D
BA 0	100	1-B6370-1	1-B6370-15	1-B6370-2	1-B6370-25	1-B6370-3
BA 1	100	1-B6371-1	1-B6371-15	1-B6371-2	1-B6371-25	1-B6371-3
BA 2	100	1-B6372-1	1-B6372-15	1-B6372-2	1-B6372-25	1-B6372-3
BA 3	100	-	1-B6373-15	-	-	-
BA 4	100	1-B6374-1	1-B6374-15	1-B6374-2	1-B6374-25	1-B6374-3
BA 6	100	1-B6376-1	1-B6376-15	1-B6376-2	1-B6376-25	1-B6376-3

Baercoils BSW

	Pack	1,0 D	1,5 D	2,0 D	2,5 D	3,0 D
BSW 1/8 x 40	100	1-B8241-1	1-B8241-15	1-B8241-2	1-B8241-25	1-B8241-3
BSW 3/16 x 24	100	1-B8242-1	1-B8242-15	1-B8242-2	1-B8242-25	1-B8242-3
BSW 1/4 x 20	100	1-B8243-1	1-B8243-15	1-B8243-2	1-B8243-25	1-B8243-3
BSW 5/16 x 18	100	1-B8244-1	1-B8244-15	1-B8244-2	1-B8244-25	1-B8244-3
BSW 3/8 x 16	100	1-B8245-1	1-B8245-15	1-B8245-2	1-B8245-25	1-B8245-3
BSW 7/16 x 14	100	1-B8246-1	1-B8246-15	1-B8246-2	1-B8246-25	1-B8246-3
BSW 1/2 x 12	100	1-B8247-1	1-B8247-15	1-B8247-2	1-B8247-25	1-B8247-3
BSW 9/16 x 12	50	1-B8248-1	1-B8248-15	1-B8248-2	1-B8248-25	1-B8248-3
BSW 5/8 x 11	50	1-B8249-1	1-B8249-15	1-B8249-2	1-B8249-25	1-B8249-3
BSW 3/4 x 10	25	1-B8251-1	1-B8251-15	1-B8251-2	1-B8251-25	1-B8251-3
BSW 7/8 x 9	10	1-B8253-1	1-B8253-15	1-B8253-2	1-B8253-25	1-B8253-3
BSW 1" x 8	10	1-B8255-1	1-B8255-15	1-B8255-2	1-B8255-25	1-B8255-3
BSW 1.1/8" x 7	10	1-B8256-1	1-B8256-15	1-B8256-2	-	-
BSW 1.1/4" x 7	10	1-B8257-1	1-B8257-15	1-B8257-2	-	-
BSW 1.3/8" x 6	10	-	1-B8258-15	-	-	-
BSW 1.1/2" x 6	10	1-B8259-1	1-B8259-15	1-B8259-2	-	-

Baercoils BSF

	Pack	1,0 D	1,5 D	2,0 D	2,5 D	3,0 D
BSF 3/16 x 32	100	1-B8262-1	1-B8262-15	1-B8262-2	1-B8262-25	1-B8262-3
BSF 1/4 x 26	100	1-B8263-1	1-B8263-15	1-B8263-2	1-B8263-25	1-B8263-3
BSF 5/16 x 22	100	1-B8265-1	1-B8265-15	1-B8265-2	1-B8265-25	1-B8265-3
BSF 3/8 x 20	100	1-B8266-1	1-B8266-15	1-B8266-2	1-B8266-25	1-B8266-3
BSF 7/16 x 18	100	1-B8267-1	1-B8267-15	1-B8267-2	1-B8267-25	1-B8267-3
BSF 1/2 x 16	100	1-B8268-1	1-B8268-15	1-B8268-2	1-B8268-25	1-B8268-3
BSF 9/16 x 16	100	1-B8269-1	1-B8269-15	1-B8269-2	1-B8269-25	1-B8269-3
BSF 5/8 x 14	50	1-B8270-1	1-B8270-15	1-B8270-2	1-B8270-25	1-B8270-3
BSF 3/4 x 12	50	1-B8272-1	1-B8272-15	1-B8272-2	1-B8272-25	1-B8272-3
BSF 7/8 x 11	25	1-B8274-1	1-B8274-15	1-B8274-2	1-B8274-25	1-B8274-3
BSF 1" x 10	10	1-B8276-1	1-B8276-15	1-B8276-2	1-B8276-25	1-B8276-3
BSF 1.1/8" x 9	10	1-B8277-1	1-B8277-15	-	-	-
BSF 1.1/4" x 9	10	1-B8278-1	1-B8278-15	-	-	-
BSF 1.1/2" x 8	10	-	1-B8279-15	1-B8279-2	-	-

Baercoils UNF - UNC

	Pack	1,0 D	1,5 D	2,0 D	2,5 D	3,0 D
UNF 2 x 64	100	1-B8287-1	1-B8287-15	1-B8287-2	1-B8287-25	1-B8287-3
UNF 3 x 56	100	1-B8288-1	1-B8288-15	1-B8288-2	-	1-B8288-3
UNF 4 x 48	100	1-B8290-1	1-B8290-15	1-B8290-2	1-B8290-25	1-B8290-3
UNF 5 x 44	100	1-B8289-1	1-B8289-15	1-B8289-2	1-B8289-25	1-B8289-3
UNF 6 x 40	100	1-B8291-1	1-B8291-15	1-B8291-2	1-B8291-25	1-B8291-3
UNF 8 x 36	100	1-B8292-1	1-B8292-15	1-B8292-2	1-B8292-25	1-B8292-3
UNF 10 X 32	100	1-B8293-1	1-B8293-15	1-B8293-2	1-B8293-25	1-B8293-3
UNF 1/4 X 28	100	1-B8225-1	1-B8225-15	1-B8225-2	1-B8225-25	1-B8225-3
UNF 5/16 X 24	100	1-B8226-1	1-B8226-15	1-B8226-2	1-B8226-25	1-B8226-3
UNF 3/8 X 24	100	1-B8227-1	1-B8227-15	1-B8227-2	1-B8227-25	1-B8227-3
UNF 7/16 X 20	100	1-B8228-1	1-B8228-15	1-B8228-2	1-B8228-25	1-B8228-3
UNF 1/2 X 20	100	1-B8229-1	1-B8229-15	1-B8229-2	1-B8229-25	1-B8229-3
UNF 9/16 X 18	50	1-B8230-1	1-B8230-15	1-B8230-2	1-B8230-25	1-B8230-3
UNF 5/8 X 18	50	1-B8231-1	1-B8231-15	1-B8231-2	1-B8231-25	1-B8231-3
UNF 3/4 X 16	25	1-B8233-1	1-B8233-15	1-B8233-2	1-B8233-25	1-B8233-3
UNF 7/8 X 14	10	1-B8235-1	1-B8235-15	1-B8235-2	1-B8235-25	1-B8235-3
UNF 1"	10	1-B8237-1	1-B8237-15	1-B8237-2	1-B8237-25	1-B8237-3
UNF 1-1/8 X 12	5	-	1-B8238-15	-	-	-
UNF 1-1/4 X 12	5	-	1-B8239-15	-	-	-
UNF 1-3/8 X 12	5	-	1-B8240-15	-	-	-
UNF 1-1/2 X 12	5	-	1-B8241-15	-	-	-

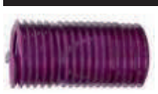
	Pack	1,0 D	1,5 D	2,0 D	2,5 D	3,0 D
UNC 2 X 56	100	1-B8200-1	1-B8200-15	1-B8200-2	1-B8200-25	1-B8200-3
UNC 3 X 48	100	1-B8213-1	1-B8213-15	1-B8213-2	-	1-B8213-3
UNC 4 X 40	100	1-B8201-1	1-B8201-15	1-B8201-2	1-B8201-25	1-B8201-3
UNC 5 X 40	100	1-B8202-1	1-B8202-15	1-B8202-2	1-B8202-25	1-B8202-3
UNC 6 X 32	100	1-B8203-1	1-B8203-15	1-B8203-2	1-B8203-25	1-B8203-3
UNC 8 X 32	100	1-B8204-1	1-B8204-15	1-B8204-2	1-B8204-25	1-B8204-3
UNC 10 X 24	100	1-B8205-1	1-B8205-15	1-B8205-2	1-B8205-25	1-B8205-3
UNC 12 X 24	100	1-B8206-1	1-B8206-15	1-B8206-2	1-B8206-25	1-B8206-3
UNC 1/4 X 20	100	1-B8207-1	1-B8207-15	1-B8207-2	1-B8207-25	1-B8207-3
UNC 5/16 X 18	100	1-B8208-1	1-B8208-15	1-B8208-2	1-B8208-25	1-B8208-3
UNC 3/8 X 16	100	1-B8209-1	1-B8209-15	1-B8209-2	1-B8209-25	1-B8209-3
UNC 7/16 X 14	100	1-B8210-1	1-B8210-15	1-B8210-2	1-B8210-25	1-B8210-3
UNC 1/2 X 13	100	1-B8211-1	1-B8211-15	1-B8211-2	1-B8211-25	1-B8211-3
UNC 9/16 X 12	50	1-B8212-1	1-B8212-15	1-B8212-2	1-B8212-25	1-B8212-3
UNC 5/8 X 11	50	1-B8214-1	1-B8214-15	1-B8214-2	1-B8214-25	1-B8214-3
UNC 3/4 X 10	25	1-B8215-1	1-B8215-15	1-B8215-2	1-B8215-25	1-B8215-3
UNC 7/8 X 9	10	1-B8218-1	1-B8218-15	1-B8218-2	1-B8218-25	1-B8218-3
UNC 1" X 8	10	1-B8219-1	1-B8219-15	1-B8219-2	1-B8219-25	1-B8219-3
UNC 1-1/8 X 7	5	-	1-B8320-15	-	-	-
UNC 1-1/4 X7	5	-	1-B8321-15	-	-	-
UNC 1-3/8 X 6	5	-	1-B8322-15	-	-	-
UNC 1-1/2 X 6	5	-	1-B8323-15	-	-	-

Baercoils Autoblocantes - BSW - BSF



	Pack	1,0 D	1,5 D	2,0 D	2,5 D	3,0 D
BSW 3/16 x 24	100	-	1-B6242-15	1-B6242-2	1-B6242-25	1-B6242-3
BSW 1/4 x 20	100	-	1-B6243-15	1-B6243-2	1-B6243-25	1-B6243-3
BSW 5/16 x 18	100	1-B6244-1	1-B6244-15	1-B6244-2	1-B6244-25	1-B6244-3
BSW 3/8 x 16	100	1-B6245-1	1-B6245-15	1-B6245-2	-	-
BSW 7/16 x 14	100	-	1-B6246-15	1-B6246-2	1-B6246-25	
BSW 1/2 x 12	100	1-B6247-1	1-B6247-15	1-B6247-2	1-B6247-25	1-B6247-3
BSW 5/8 x 11	50	1-B6249-1	-	-	-	-
	Pack	**1,0 D**	**1,5 D**	**2,0 D**	**2,5 D**	**3,0 D**
BSF 1/4 x 26	100	1-B6263-1	1-B6263-15	1-B6263-2	1-B6263-25	1-B6263-3
BSF 5/16 x 22	100	1-B6265-1	1-B6265-15	1-B6265-2	1-B6265-25	1-B6265-3
BSF 3/8 x 20	100	1-B6266-1	1-B6266-15	1-B6266-2	1-B6266-25	1-B6266-3
BSF 7/16 x 18	100	1-B6267-1	1-B6267-15	1-B6267-2	1-B6267-25	-
BSF 1/2 x 16	100	1-B6268-1	1-B6268-15	1-B6268-2	1-B6268-25	-
BSF 9/16 x 16	50	1-B6269-1	1-B6269-15	-	-	-
BSF 5/8 x 14	50	1-B6270-1	1-B6270-15	1-B6270-2	-	-
BSF 3/4 x 12	25	1-B6272-1	1-B6272-15	1-B6272-3	-	-
BSF 7/8 x 11	10	-	1-B6274-15	-	-	-
BSF 1" x 10	10	-	1-B6276-15	1-B6276-2	-	-

Baercoils Autoblocantes - UNF - UNC



	Pack	1,0 D	1,5 D	2,0 D	2,5 D	3,0 D
UNF 6 x 40	100	1-B6291-1	1-B6291-15	1-B6291-2	-	1-B6291-3
UNF 8 x 36	100	1-B6292-1	1-B6292-15	1-B6292-2	1-B6292-25	-
UNF 10 x 32	100	1-B6293-1	1-B6293-15	1-B6293-2	1-B6293-25	1-B6293-3
UNF 1/4 x 28	100	1-B6225-1	1-B6225-15	1-B6225-2	1-B6225-25	1-B6225-3
UNF 5/16 x 24	100	1-B6226-1	1-B6226-15	1-B6226-2	1-B6226-25	1-B6226-3
UNF 3/8 x 24	100	1-B6227-1	1-B6227-15	1-B6227-2	1-B6227-25	-
UNF 7/16 x 20	100	1-B6228-1	1-B6228-15	1-B6228-2	1-B6228-25	1-B6228-3
UNF 1/2 x 20	100	-	1-B6229-15	1-B6229-2	1-B6229-25	1-B6229-3
UNF 9/16 x 18	50	1-B6230-1	1-B6230-15	1-B6230-2	-	-
UNF 5/8 x 18	50	1-B6231-1	1-B6231-15	1-B6231-2	1-B6231-25	1-B6231-3
UNF 3/4 x 16	25	1-B6233-1	1-B6233-15	1-B6233-2	1-B6233-25	1-B6233-3
UNF 7/8 x 14	10	1-B6235-1	1-B6235-15	1-B6235-2	-	-
UNF 1" x 12	10	1-B6237-1	1-B6237-15	1-B6237-2	-	-
	Pack	**1,0 D**	**1,5 D**	**2,0 D**	**2,5 D**	**3,0 D**
UNC 2 x 56	100	-	1-B6200-15	1-B6200-2	1-B6200-25	-
UNC 4 x 40	100	1-B6201-1	1-B6201-15	1-B6201-2	1-B6201-25	1-B6201-3
UNC 6 x 32	100	1-B6203-1	1-B6203-15	1-B6203-2	1-B6203-25	1-B6203-3
UNC 8 x 32	100	1-B6204-1	1-B6204-15	1-B6204-2	1-B6204-25	1-B6204-3
UNC 10 x 24	100	-	1-B6205-15	1-B6205-2	1-B6205-25	1-B6205-3
UNC 1/4 x 20	100	1-B6207-1	1-B6207-15	1-B6207-2	1-B6207-25	1-B6207-3
UNC 5/16 x 18	100	1-B6208-1	1-B6208-15	1-B6208-2	1-B6208-25	1-B6208-3
UNC 3/8 x 16	100	1-B6209-1	1-B6209-15	1-B6209-2	1-B6209-25	1-B6209-3
UNC 7/16 x 14	100	1-B6210-1	1-B6210-15	1-B6210-2	1-B6210-25	1-B6210-3
UNC 1/2 x 13	100	1-B6211-1	1-B6211-15	1-B6211-2	1-B6211-25	1-B6211-3
UNC 5/8 x 11	50	1-B6214-1	1-B6214-15	1-B6214-2	1-B6214-25	1-B6214-3
UNC 3/4 x 10	25	1-B6216-1	1-B6216-15	1-B6216-2	-	-
UNC 7/8 x 9	10	1-B6218-1	1-B6218-15	1-B6218-2	-	-
UNC 1" x 8	10	1-B6219-1	1-B6219-15	1-B6219-2	1-B6219-25	-

Baercoils Autoblocantes - BA



	Pack	1,0 D	1,5 D	2,0 D	2,5 D	3,0 D
BA 0	100	1-B6470-1	1-B6470-15	1-B6470-2	1-B6470-25	1-B6470-3
BA 2	100	1-B6471-1	1-B6471-15	1-B6471-2	1-B6471-25	1-B6471-3
BA 3	100	-	1-B6472-15	-	-	-
BA 4	100	1-B6473-1	1-B6473-15	1-B6473-2	1-B6473-25	1-B6473-3
BA 6	100	1-B6474-1	1-B6474-15	1-B6474-2	1-B6474-25	1-B6474-3

Baercoils Autoblocantes - Métrica

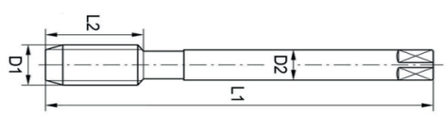


	Pack	1,0 D	1,5 D	2,0 D	2,5 D	3,0 D
M 2 X 0.4	100	1-B6102-1	1-B6102-15	1-B6102-2	1-B6102-25	1-B6102-3
M 2.2 X 0.45	100	1-B6125-1	1-B6125-15	1-B6125-2	1-B6125-25	1-B6125-3
M 2.5 X 0.45	100	1-B6126-1	-	-	-	-
M 3 X 0.5	100	1-B6103-1	1-B6103-15	1-B6103-2	1-B6103-25	-
M 3.5 X 0.6	100	1-B6135-1	1-B6135-15	1-B6135-2	1-B6135-25	1-B6135-3
M 4 X 0.7	100	1-B6104-1	1-B6104-15	1-B6104-2	1-B6104-25	1-B6104-3
M 5 X 0.8	100	1-B6105-1	1-B6105-15	1-B6105-2	1-B6105-25	1-B6105-3
M 6 X 1	100	1-B6106-1	1-B6106-15	1-B6106-2	1-B6106-25	1-B6106-3
M 7 X 1	100	1-B6107-1	1-B6107-15	1-B6107-2	1-B6107-25	1-B6107-3
MF 8 X 1	100	1-B6181-1	1-B6181-15	1-B6181-2	1-B6181-25	1-B6181-3
M 8 X 1.25	100	1-B6108-1	1-B6108-15	1-B6108-2	1-B6108-25	1-B6108-3
MF 10 X 1.25	100	1-B6101-1	1-B6101-15	1-B6101-2	1-B6101-25	1-B6101-3
M 10 X 1.5	100	1-B6110-1	1-B6110-15	1-B6110-2	1-B6110-25	1-B6110-3
MF 12 X 1.25	100	-	1-B6112-15	1-B6112-2	1-B6112-25	-
MF 12 X 1.5	100	-	1-B6115-15	1-B6115-2	-	-
M 12 X 1.75	100	1-B6127-1	1-B6127-15	1-B6127-2	1-B6127-25	1-B6127-3
M 14 X 2	50	1-B6114-1	1-B6114-15	1-B6114-2	1-B6114-25	1-B6114-3
M 16 X 2	50	1-B6116-1	1-B6116-15	1-B6116-2	1-B6116-25	1-B6116-3
M 18 X 2.5	25	1-B6119-1	1-B6119-15	-	-	-
MF 20 X 1.5	25	1-B6120-1	1-B6120-15	1-B6120-2	-	-
M 20 X 2.5	25	1-BS7240-1	1-BS7240-15	1-BS7240-2	1-BS7240-25	-
MF 24 X 2	25	-	-	1-B7246-2	-	-
M 24 X 3	25	1-BS7245-1	1-BS7245-15	1-BS7245-2	1-BS7245-25	-
M 30 X 3.5	5	1-BS7354-1	1-BS7354-15	1-BS7354-2	-	-
M 36 X 4	5	-	1-BES364-15	1-BES364-2	-	-

Machos para Helicoils - MÉTRICA

• Macho mano/máquina HSSE - Forma D - Pasante/Ciego



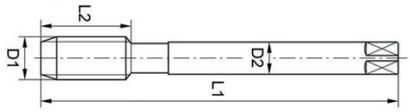


Referencia	Medida	D1	D2	L1	L2	o	Ø Broca
B3001	M 2 x 0,4	2,52	2,8	44,5	9,5	2,24	2,1
B3002	M 2,2 x 0,45	2,79	3,15	48	11	2,5	2,3
B3003	M 2,5 x 0,45	3,09	3,15	48	11	2,5	2,6
B3005	M 3 x 0,5	3,65	4	53	13	3,15	3,2
B3006	M 3,5 x 0,6	4,28	4,5	53	13	3,55	3,7
B3007	M 4 x 0,7	4,91	5	58	16	4	4,2
B3008	M 5 x 0,8	6,04	6,3	66	19	5	5,3
B3071	MF 6 x 0,75	6,98	8	72	22	6,3	6,2

Machos para Helicoils - MÉTRICA

• Macho mano/máquina HSSE - Forma D - Pasante/Ciego

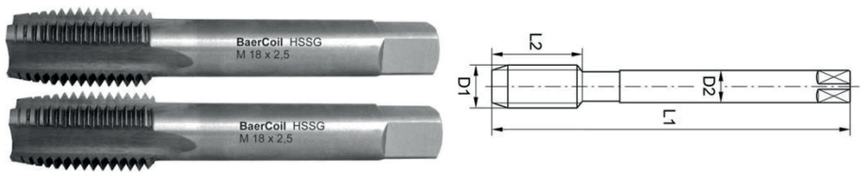




Referencia	Medida	D1	D2	L1	L2	o	Ø Broca
B3009	M 6 x 1,0	7,3	8	72	22	6,3	6,3
B3010	M 7 x 1,0	8,3	9	72	22	7,1	7,3
B3072	MF 8 x 0,75	8,9	9,6	77	33	7,2	8,2
B3012	MF 8 x 1,0	9,3	10	80	24	8	8,3
B3011	M 8 x 1,25	9,62	10	80	24	8	8,3
B3073	MF 9 x 1,0	10,3	8,2	90	35	6,1	9,3
B3013	M 9 x 1,25	10,62	8	85	25	6,3	9,3
B3017	MF 10 x 1,0	11,3	8	85	25	6,3	10,3
B3016	MF 10 x 1,25	11,62	8	85	25	6,3	10,3
B3015	M 10 x 1,5	11,95	9	89	29	7,1	10,4
B3074	MF 11 x 1,0	12,25	9,3	86	42	6,9	11,3
B3075	MF 11 x 1,25	12,62	9	89	29	7,1	11,3
B3018	M 11 x 1,5	12,95	9	89	29	7,1	11,4
B3023	MF 12 x 1,0	13,3	10,9	91	42	8,1	12,3
B3022	MF 12 x 1,25	13,62	11,2	95	30	9	12,3
B3021	MF 12 x 1,5	13,95	11,2	95	30	9	12,4
B3020	M 12 x 1,75	14,27	11,2	95	30	9	12,4
B3076	MF 13 x 1,25	14,62	11,3	95	32	8,9	13,4
B3077	MF 13 x 1,5	14,95	12,5	102	32	11,2	13,4
B3078	M 13 x 1,75	15,25	12,5	102	32	11,2	13,4
B3030	MF 14 x 1,0	15,3	12,5	102	32	10	14,4
B3029	MF 14 x 1,25	15,57	12,5	102	32	10	14,4
B3028	MF 14 x 1,5	15,95	12,5	102	32	10	14,5
B3027	M 14 x 2,0	16,6	12,5	102	32	10	14,5
B3079	MF 15 x 1,5	16,95	12,5	102	32	10	15,5
B3080	M 15 x 2,0	17,6	14	112	37	11,2	15,5
B3034	MF 16 x 1,5	17,95	14	104	29	11,2	16,5
B3033	M 16 x 2,0	18,6	14	112	37	11,2	16,5
B3037	MF 18 x 1,5	19,95	14	104	29	11,2	18,5
B3036	MF 18 x 2,0	20,6	16,6	113	51	12,4	18,5
B3035	M 18 x 2,5	21,25	16	118	38	12,5	18,5
B3040	MF 20 x 1,5	21,95	16	113	33	12,5	20,5
B3039	MF 20 x 2,0	22,6	16	113	33	12,5	20,5
B3038	M 20 x 2,5	23,25	16	118	38	12,5	20,5
B3043	MF 22 x 1,5	23,95	19,3	124	58	14,4	22,5
B3042	MF 22 x 2,0	24,6	20,3	130	64	15,2	22,5
B3041	M 22 x 2,5	25,25	20,3	130	64	15,2	22,5
B3046	MF 24 x 1,5	26,02	18	120	35	14	24,5
B3045	MF 24 x 2,0	26,6	20	127	37	16	24,5
B3044	M 24 x 3,0	27,9	23	138	66	17	24,5
B3056	MF 30 x 1,5	31,95	22,4	137	37	18	30,5
B3081	MF 30 x 3,0	33,9	22,4	137	37	18	30,5
B3054	M 30 x 3,5	34,55	25	162	57	20	30,5
B3066	MF 39 x 2,0	41,6	31,5	187	67	25	39,5
B3065	MF 39 x 3,0	42,9	31,5	187	67	25	39,5
B3064	M 39 x 4,0	44,2	31,5	187	67	25	39,5
B3070	MF 42 x 2,0	44,6	35,5	200	70	28	42,5
B3069	MF 42 x 3,0	45,9	35,5	200	70	28	42,8
B3068	MF 42 x 4,0	47,2	35,5	200	70	28	43
B3067	M 42 x 4,5	47,85	35,5	200	70	28	43

Machos para Helicoils - Juego de mano - MÉTRICA

• Juego macho mano 2 piezas HSSE - Forma C - Pasante/Ciego



Referencia	Medida	D1	D2	L1	L2	o	Ø Broca
B3049	M 26 x 1,5	27,95	20	127	37	16	26,5
B3052	MF 27 x 1,5	28,95	20	127	37	16	27,5
B3051	MF 27 x 2,0	29,6	20	127	37	16	27,5
B3050	M 27 x 3,0	30,9	22,4	151	51	18	27,5
B3053	MF 28 x 1,5	29,95	20	127	37	16	28,5
B3056	MF 30 x 1,5	31,95	22,4	137	37	18	30,5
B3055	MF 30 x 2,0	32,6	22,4	137	37	18	30,5
B3054	M 30 x 3,5	34,55	25	162	57	20	30,5
B3058	MF 33 x 2,0	35,6	25	144	37	20	33,5
B3057	M 33 x 3,5	37,55	25	162	57	20	33,5
B3063	MF 36 x 1,5	37,95	28	150	39	22,4	36,5
B3062	MF 36 x 2,0	38,6	28	150	39	22,4	36,5
B3061	MF 36 x 3,0	39,9	28	170	60	22,4	36,5
B3060	M 36 x 4,0	41,2	28	170	60	22,4	36,5
B3066	MF 39 x 2,0	41,6	31,5	187	67	25	39,5
B3065	MF 39 x 3,0	42,9	31,5	187	67	25	39,5
B3064	M 39 x 4,0	44,2	31,5	187	67	25	39,5
B3070	MF 42 x 2,0	44,6	35,5	200	70	28	42,5
B3069	MF 42 x 3,0	45,9	35,5	200	70	28	42,8
B3068	MF 42 x 4,0	47,2	35,5	200	70	28	43
B3067	M 42 x 4,5	47,85	35,5	200	70	28	43

Machos para Helicoils - UNC

Referencia	Medida	D1	D2	L1	L2	o	Ø Broca
B3100	UNC 2 x 56	2,77	3,2	48	10	2,5	2,3
B3121	UNC 3 x 48	3,2	4	53	13	3,15	2,6
B3101	UNC 4 x 40	3,67	4	53	13	3,15	3
B3102	UNC 5 x 40	4	4	53	13	3,15	3,4
B3103	UNC 6 x 32	4,54	5	58	16	4	3,7
B3104	UNC 8 x 32	5,2	5,6	62	17	4,5	4,4
B3105	UNC 10 x 24	6,2	6,3	66	19	5	5,1
B3106	UNC 12 x 24	6,86	7,1	66	19	5,6	5,7
B3107	UNC 1/4 x 20	8	8	73	30	6	6,7
B3108	UNC 5/16 x 18	9,77	9,6	77	33	7,2	8,3
B3109	UNC 3/8 x 16	11,59	9,3	85	42	6,9	9,9
B3110	UNC 7/16 x 14	13,47	10,8	91	43	8,1	11,6
B3111	UNC 1/2 x 13	15,24	12,1	96	46	9	13
B3112	UNC 9/16 x 12	17,03	14	112	37	11,2	14,8
B3113	UNC 5/8 x 11	18,87	14	112	37	11,2	16,5
B3122	UNC 11/16x11	20,5	14	112	37	11,2	18,5
B3114	UNC 3/4 x 10	22,35	16	118	38	12,5	19,75
B3115	UNC 7/8 x 9	25,89	18	130	45	14	23
B3116	UNC 1" x 8	29,52	20	138	48	16	26,25

Machos para Helicoils - BA

Referencia	Medida	D1	D2	L1	L2	o	Ø Broca
B3321	BA 0	7,12	7,1	66	19	5,6	6,2
B3322	BA 1	6,33	6,3	66	19	5	5,5
B3323	BA 2	5,61	6,3	66	19	5	4,9
B3324	BA 3	4,92	5	58	16	4	4,2
B3325	BA 4	4,35	4,5	53	13	3,6	3,8
B3326	BA 5	3,87	4	53	13	3,2	3,3
B3327	BA 6	3,4	3,6	50	13	2,8	2,9

Machos para Helicoils - UNF

Referencia	Medida	D1	D2	L1	L2	o	Ø Broca
B3150	UNF 3 x 56	3,1	4	53	13	3,15	2,6
B3151	UNF 4 x 48	3,53	4	53	13	3,15	3
B3152	UNF 6 x 40	4,33	4,5	53	13	3,55	3,7
B3153	UNF 8 x 36	5,08	5,6	62	17	4,5	4,4
B3154	UNF 10 x 32	5,86	6,3	66	19	5	5,1
B3155	UNF 1/4 x 28	7,53	8	73	30	6	6,6
B3156	UNF 5/16 x 24	9,31	9,6	78	33	7,2	8,2
B3157	UNF 3/8 x 24	10,9	8,1	80	36	6,1	9,8
B3158	UNF 7/16 x 20	12,76	9,25	84	43	6,9	11,5
B3159	UNF 1/2 x 20	14,35	10,8	91	43	8,1	13
B3160	UNF 9/16 x 18	16,12	12,5	104	29	10	14,8
B3161	UNF 5/8 x 18	17,71	14	104	29	11,2	16,3
B3162	UNF 3/4 x 16	21,11	14	104	29	11,2	19,5
B3163	UNF 7/8 x 14	24,58	18	120	35	14	22,8
B3164	UNF 1" x 12	28,15	20	127	37	16	26

Machos para Helicoils - G - BSP

Referencia	Medida	D1	D2	L1	L2	o	Ø Broca
B3311	G 1/8 x 28	10,82	8	59	15	6,3	10
B3312	G 1/4 x 19	14,74	11,2	67	19	9	13,5
B3313	G 3/8 x 19	18,25	14	75	21	11,2	17
B3314	G 1/2 x 14	23,09	16	87	26	12,5	21,5
B3315	G 5/8 x 14	25,05	18	91	26	14	23,5
B3316	G 3/4 x 14	28,59	20	96	28	16	27
B3318	G 7/8 x 14	32,35	22,4	102	29	18	30,5
B3317	G 1" x 11	35,96	25	109	33	20	33,5
B3319	G 1.1/4 x 11	44,63	36	125	40	29	42,5
B3320	G 1.1/2 x 11	50,53	36	140	40	29	48,5

Machos para Helicoils - Juego de mano - UNC/UNF

Referencia	Medida	D1	D2	L1	L2	o	Ø Broca
B3117	UNC 1.1/8 x 7	33,29	22,4	151	51	18	29,5
B3118	UNC 1.1/4 x 7	36,46	25	162	57	20	33
B3119	UNC 1.3/8 x 6	40,42	28	170	60	22,4	36
B3120	UNC 1.1/2 x 6	43,6	31,5	187	67	25	39
B3166	UNF 1.1/8 x 12	31,32	22,4	137	37	18	29
B3167	UNF 1.1/4 x 12	34,5	25	144	39	20	32,5
B3168	UNF 1.3/8 x 12	37,68	28	150	39	22,4	35,5
B3169	UNF 1.1/2 x 12	40,85	28	150	39	22,4	38,5

Machos para Helicoils - BSW

Referencia	Medida	D1	D2	L1	L2	o	Ø Broca
B3201	BSW 1/8 x 40	3,93	4	53	13	3,15	3,4
B3202	BSW 3/16 x 24	6,01	6,3	56	19	6	5,1
B3203	BSW 1/4 x 20	7,84	8	72	22	7,2	6,7
B3204	BSW 5/16 x 18	9,59	10	80	24	6,9	8,3
B3205	BSW 3/8 x 16	11,39	8	85	25	8,1	9,9
B3206	BSW 7/16 x 14	13,24	11,2	95	30	9	11,6
B3207	BSW 1/2 x 12	15,17	12,5	102	32	10	13
B3208	BSW 9/16 x 12	16,76	12,5	102	32	10	14,8
B3209	BSW 5/8 x 11	18,57	14	112	37	11,2	16,7
B3210	BSW 11/16x11	20,2	14	112	37	11,2	18,5
B3211	BSW 3/4 x10	22,02	16	118	38	12,5	20
B3212	BSW 7/8 x 9	25,52	18	130	45	14	23
B3213	BSW 1 x 8	29,1	20	138	48	16	26,5
B3214	BSW 1.1/8 x 7	32,8	22,4	151	51	18	29,5
B3215	BSW 1.1/4 x 7	35,97	25	162	57	20	33
B3216	BSW 1.3/8 x 6	39,88	28	170	60	22,4	36
B3217	BSW 1.1/2 x 6	43,02	31,5	187	67	25	39

Machos para Helicoils - BSF

Referencia	Medida	D1	D2	L1	L2	o	Ø Broca
B3251	BSF 3/16 x 32	5,71	6,3	66	19	5	5
B3269	BSF 7/32 x 28	6,63	7,1	66	19	5,6	5,8
B3253	BSF 1/4 x 26	7,51	8	72	22	6,3	6,6
B3270	BSF 9/32 x 26	8,31	9	72	22	7,1	7,3
B3255	BSF 5/16 x 22	9,3	10	80	24	8	8,3
B3256	BSF 3/8 x 20	11,02	8	85	25	6,3	9,9
B3257	BSF 7/16 x 18	12,78	9	89	29	7,1	11,6
B3258	BSF 1/2 x 16	14,57	11,2	95	30	9	13
B3259	BSF 9/16 x 16	16,16	12,5	102	32	10	14,8
B3260	BSF 5/8 x 14	18,01	14	112	37	11,2	16,4
B3261	BSF 11/16x 14	1.960	14	112	37	11,2	18
B3262	BSF 3/4 x 12	21,53	16	118	38	12,5	19,5
B3271	BSF 13/16x 12	23,12	16	118	38	12,5	21
B3264	BSF 7/8 x 11	24,94	18	130	45	14	22,7
B3265	BSF 1” x 10	28,38	20	138	48	16	26,5
B3265	BSF 1.1/8 x 9	31,88	22,4	137	37	18	29,5
B3266	BSF 1.1/4 x 9	35,06	25	144	39	20	32,5
B3267	BSF 1.3/8 x 8	38,64	28	150	39	22,4	36
B3268	BSF 1.1/2 x 8	41,82	28	150	39	22,4	39

Machos para Helicoils - BSB

Referencia	Medida	D1	D2	L1	L2	o	Ø Broca
B3341	BSB 1/4 x 26	7,5	8	69	19	6,3	6,5
B3342	BSB 5/16 x 26	9,1	10	76	20	8	8,2
B3343	BSB 3/8 x 26	10,7	8	82	22	6,3	9,8
B3344	BSB 7/16 x 26	12,3	9	84	24	7,1	11,5
B3345	BSB 1/2 x 26	13,9	11,2	90	25	9	12,8

Machos para Helicoils - BSC

Referencia	Medida	D1	D2	L1	L2	o	Ø Broca
B3331	BSC 5/16 x 26	9,1	10	76	20	8	8,2
B3332	BSC 3/8 x 26	10,7	8	82	22	6,3	9,8
B3333	BSC 7/16 x 26	12,3	9	84	24	7,1	11,5
B3334	BSC 1/2 x 26	13,9	11,2	90	25	9	12,8

Machos para Helicoils - NPT

Referencia	Medida	D1	D2	L1	L2	o	Ø Broca
B3370	NPT 1/8 x 27	-	7	65	19	5,5	9,9
B3371	NPT 1/4 x 19	-	11	70	25	9	13,5
B3372	NPT 3/8 x 18	-	12	75	26	9	17
B3373	NPT 1/2 x 14	-	16	80	31	12	21,5
B3374	NPT 3/4 x 14	-	20	100	33	16	27
B3375	NPT 1" x 11,5	-	25	110	38	20	33,5

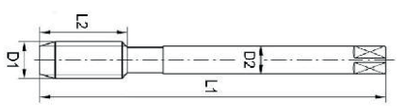
Machos para Helicoils - 8 UN

Referencia	Medida	D1	D2	L1	L2	o	Ø Broca
B3360	1.1/8 x 8	-	20	138	59	16	28,5
B3361	1.1/4 x 8	-	22,4	151	51	18	32
B3362	1.3/8 x 8	-	25	162	57	20	35
B3363	1.1/2 x 8	-	28	170	60	22,4	38
B3364	1.5/8 x 8	-	28	170	60	22,4	41
B3365	1.3/4 x 8	-	31,5	187	67	25	44,5
B3366	1.7/8 x 8	-	31,5	187	67	25	47,5
B3367	2" x 8	-	35,5	200	70	28	51

Machos para Helicoils - Métrica (ECO)

• **HSSE**- Forma B - Agujeros pasantes





Referencia	Medida	D1	D2	L1	L2	o	Ø Broca
B3505	M 3 X 0.5	3,65	4	53	13	3,15	3,2
B3506	M 3.5 X 0.6	4,28	4,5	53	13	3,55	3,7
B3507	M 4 X 0.7	4,91	5	58	16	4	4,2
B3508	M 5 X 0.8	6,04	6,3	66	19	5	5,3
B3509	M 6 X 1	7,3	8	72	22	6,3	6,3
B3510	M 7 X 1	8,3	9	72	22	7,1	7,3
B9512	M 8 X 1	9,3	10	80	24	8	8,3
B9511	M 8 X 1.25	9,62	10	80	24	8	8,3
B3517	M 10 X 1	11,2	8	85	25	6,3	10,3
B3515	M 10 X 1.5	11,95	9	89	29	7,1	10,4
B3522	M 12 X 1.25	13,62	11,2	95	30	9	12,3
B3521	M 12 X 1.5	13,95	11,2	95	30	9	142,4
B3520	M 12 X 1.75	14,27	11,2	95	30	9	12,4
B3529	M 14 X 1.25	15,57	12,5	102	32	10	14,4
B3528	M 14 X 1.5	15,95	12,5	102	32	10	14,5
B3527	M 14 X 2	16,6	12,5	102	32	10	14,5
B3533	M 16 X 2	18,6	14	112	37	11,2	16,5

Machos para Helicoils - Métrica (ECO)

• **HSSE** - Forma C - Agujeros ciegos



Referencia	Medida	D1	D2	L1	L2	o	Ø Broca
B3704	M 2 x 0,4	2,52	2,8	44,5	9,5	2,24	2,1
B3705	M 3 x 0,5	3,65	4	53	13	3,15	3,2
B3706	M 3,5 x 0,6	4,28	4,5	53	13	3,55	3,7
B3707	M 4 x 0,7	4,91	5	58	16	4	4,2
B3708	M 5 x 0,8	6,04	6,3	66	19	5	5,3
B3709	M 6 x 1,0	7,3	8	72	22	6,3	6,3
B3710	M 7 x 1,0	8,3	9,65	72	33	7,3	7,3
B3712	M 8 x 1,0	9,3	10	80	24	8	8,3
B3711	M 8 x 1,25	9,62	10	80	24	8	8,3
B3717	M 10 x 1,0	11,2	8	85	25	6,3	10,3
B3715	M 10 x 1,5	11,95	9	89	29	7,1	10,4
B3722	M 12 x 1,25	13,62	11,2	95	30	9	12,3
B3721	M 12 x 1,5	13,95	11,2	95	30	9	12,4
B3720	M 12 x 1,75	14,27	11,2	95	30	9	12,4
B3729	M 14 x 1,25	15,57	12,5	102	32	10	14,4
B3728	M 14 x 1,5	15,95	12,5	102	32	10	14,5
B3727	M 14 x 2,0	16,6	12,5	102	32	10	14,5
B3733	M 16 x 2,0	18,6	14	112	37	11,2	16,5
B3737	M 18 x 1,5	19,95	16,5	113	51	12,4	18,5

Machos para Helicoils - Métrica - De Laminación



Referencia	Medida	D1	D2	L1	L2	o	Ø Broca
B3601	M 2 x 0,4	2,54	2,8	50	9	2,1	2,35
B3603	M 2,5 x 0,45	3,11	3,5	56	10	2,7	2,9
B3605	M 3 x 0,8	3,68	4,5	63	12	3,4	3,4
B3607	M 4 x 0,7	4,94	6	70	14	4,9	4,6
B3608	M 5 x 0,8	6,07	6	80	16	4,9	5,65
B3609	M 6 x 1,0	7,34	8	90	18	6,2	6,85
B3611	M 8 x 1,25	9,67	10	99	20	8	9,05
B3615	M 10 x 1,5	11,99	9	100	22	7	11,3
B3620	M 12 x 1,75	14,33	11	110	25	9	13,5

Ultil para insertar Baercoils



Referencia	M	M	UNC / UNF	BSW / BSF	BA/NPT G- (BSP)	UNEF/HARLEY	Long.	o
EBW03	M 3 x 0,5	M 3,5 x 0,6	UNC 4 x 40 UNC 5 x 40 UNC 6 x 32 UNF 4 x 48 UNF 6 x 40	BSW 1/8 x 40	5BA		100	5
EBW04			UNC 8 x 32 UNC 10 x 24 UNF 8 x 36	BSF 3/16 x 32	4 BA 3 BA		100	5
EBW05	M 5 x 0,8		UNC 12 x 24 UNF 10 x 32	BSW 3/16 x 24 BSF 7/32 x 28	2 BA 1 BA		100	5
EBW06	M 6 x 1,0 M 6 x 0,75		UNC 1/4 x 20 UNF 1/4 x 28	BSW 1/4 x 20 BSF 1/4 x 26 BSF 9/32 x 26	0 BA	UNEF 1/4 x 32 Harley 1/4 x 24 BSB 1/4 x 26	100	5
EBW07	M 7 x 1,0		UNC 5/16 x 18 UNF 5/16 x 24	BSW 5/16 x 18 BSF 5/16 x 22		BSC 5/16 x 26 BSB 5/16 x 26	100	7
EBW08	M 8 x 1,25 M 8 x 1,0 M 8 x 0,75	M 9 x 1,25 M 9 x 1,0	UNC 3/8 x 16 UNF 3/8 x 24	BSW 3/8 x 16 BSF 3/8 x 20		BSC 3/8 x 26 BSB 3/8 x 26	100	7
EBW10	M 10 x 1,5 M 10 x 1,25 M 10 x 1,0	M 11 x 1,5 M 11 x 1,25 M 11 x 1,0	UNC 7/16 x 14 UNF 7/16 x 20	BSW 7/16 x 14 BSF 7/16 x 18	G 1/8 x 28 NPT 1/8 x 27	Harley 7/16 x 16 BSC 7/16 x 26 BSB 7/16 x 26	100	7
EBW12	M 12 x 1,75 M 12 x 1,5 M 12 x 1,25	M 12 x 1,0 M 13 x 1,5 M 13 x 1,25	UNC 1/2 x 13 UNF 1/2 x 20	BSW 1/2 x 12 BSF 1/2 x 16	G 1/4 x 19	BSC 1/2 x 26 BSB 1/2 x 26	100	7
EBW14	M 14 x 2,0 M 14 x 1,5 M 14 x 1,25 M 14 x 1,0	M15 x 2,0 M15 x 1,5 M 16 x 2,0 M16 x 1,5	UNC 9/16 x 12 UNC 5/8 X 11 UNF 9/16 x 18 UNF 5/8 x 18	BSW 9/16 X 12 BSW 5/8 X 11 BSF 9/16 X 16 BSF 5/8 X 14	G 3/8 X 19 NPT 1/4 X 19	11/16 X 16	100	7



Referencia	M	UNC / UNF	BSW / BSF	G (BSP) / NPT	8 -UN
EBW01	M 2 x 0,4 M 2,2 x 0,45	UNC 2 x 56 UNF 2 x 64	-	-	-
EBW02	M 2,5 x 0,45	UNC 3 x 48 UNF 3 x 56	-	BA 6	-
EBW18	M 18 x 2,5 M 18 x 2,0 M 18 x 1,5	UNC 3/4 x 10	BSW 3/4 x 10 BSF 3/4 x 12 BSF 13/16 x 12	-	-
EBW20	M 20 x 2,5 M 20 x 2,0 M 20 x 1,5	UNF 3/4 x 16	-	-	-
EBW22	M 22 x 2,5 M 22 x 2,0 M 22 x 1,5	UNC 7/8 x 9 UNF 7/8 x 14	BSW 7/8 x 9 BSF 7/8 x 11	G 1/2 x 14 NPT 1/2 x 14	-
EBW24	M 24 x 3,0 M 24 x 2,0 M 24 x 1,5	UNC 1" x 8 UNF 1" x 12 UNF 1" x 14	BSW 1" x 8 BSF 1" x 10	-	1" x 20
EBW26	M 26 x 1,5 M 27 x 2,0 M 27 x 1,5	UNC 1.1/8" x 7	BSW 1.1/8" x 7	G 3/4 x 14 NPT 3/4 x 14	UN 1,1/8" x 8
EBW28	M 28 x 1,5				
EBW30	M 30 x 3,5 M 30 x 3,0	UNC 1.1/4" x 7 UNF 1.1/8" x 12	BSW 1.1/4" x 7 BSF 1.1/8" x 9	-	UN 1,1/4" x 8
EBW31	M 30 x 1,5 M 30 x 2,0	UNC 1.3/8" x 6 UNF 1.1/4" x 12	BSW 1.3/8" x 6 BSF 1.1/4" x 9	G 7/8 x 14	UN 1,3/8" x 8
EBW33	M 33 x 3,5 M 33 x 2,0				
EBW36	M 36 x 4,0 M 36 x 3,0	UNC 1.1/2" x 6 UNF 1.3/8" x 12	BSW 1.1/2" x 6 BSF 1.3/8" x 8	G 1" x 11 NPT 1" x 11,5	UN 1,1/2" x 8
EBW39	M 36 x 1,5 M 39 x 4,0 M 39 x 3,0 M 39 x 2,0	UNF 1.1/2" x 12	BSF 1.1/2" x 8	-	UN 1,5/8" x 8
EBW42	M 42 X 4,5 M 42 x 4,0 M 42 x 3,0 M 42 x 2,0	-	-	G 1.1/4 x 11	UN 1,3/4" x 8 UN 1,7/8" x 8 UN 2" x 8

Útil extractor Baercoils



Referencia	M	UNC / UNF	BSW / BSF	-	-
B7051	M2 A M4	UNC 2 X 56 UNC 8 X 32 UNF 2 X 64 UNF 8 X 36	BSW 1/8	BA3 A BA6	-
B7052	M3 A M10	UNC 4 X 40 UNC 3/8 UNF 4 X 48 UNF 3/8	BSW 3/16 BSW 3/8 BSF 3/16 BSF 3/8	BA 0 A BA 2 G 1/8 BSB ¼ X 26 BSB 3/8 X 26 BSC 5/16 X 26 BSC 3/8 X 26	NPT 1/8 X 27 UNEF 1/4 X 32 HARLEY 1/4 X 24
B7053	M11 A M24	UNC 3/8 UNC 1” UNF 3/8 UNF 1” UNF 1” X 14	BSW 3/8 BSW 1” BSF 3/8 BSF 1”	G1/4 X 19 G 5/8 X 14 BSB 3/8 X 26 BSB 1/2 X 26 BSB 3/8 X 26 BSB 1/2 X 26 NPT 1/4 X 19 NPT 1/2 X 14	HARLEY 7/16 X 16 CUMMINS 11/16 X 16 CARBURETOR 7/8 X 20 CARBURETOR 1ª X 20
B7054	M20 A M39	UNC 1”-1/8 UNC 1”-1/2 UNF 1”-1/8 UNF 1”-1/8	BSW 1”-1/8 BSW1”-1/2 BSF 1”-1/8 BSF 1”-1/2	G1/2 G 1” NPT 1/2 NPT 1”	UN 1”-1/8 UN 1”-1/2
B7055	M38 A M65				UN 1”-5/8 UN 2”

Útil manual para insertos Baerfix



Referencia	Modelo	Longitud	Llave	Amarre
KEBW03	M 3 x 0,5	46,00 mm	5,50 mm	1/4“
KEBW04	M 4 x 0,7	48,00 mm	7,00 mm	1/4“
KEBW05	M 5 x 0,8	57,00 mm	8,00 mm	1/4“
KEBW06	M 6 x 1,0	62,00 mm	10,00 mm	1/4“
KEBW07	M 7 x 1,0	72,00 mm	11,00 mm	1/4“
KEBW08	M 8 x 1,25	72,00 mm	13,00 mm	1/4“
KEBW1010	M 10 x 1,0	77,00 mm	17,00 mm	1/4“
KEBW10	M 10 x 1,5	82,00 mm	17,00 mm	1/4“
KEBW1212	M 12 x 1,25	79,00 mm	19,00 mm	1/4“
KEBW1215	M 12 x 1,5	79,00 mm	19,00 mm	1/4“
KEBW12	M 12 x 1,75	92,00 mm	19,00 mm	1/4“
BEBW1415	M 14 x 1,5	114,00 mm	19,00 mm	12 mm
BEBW1420	M 14 x 2,0	114,00 mm	19,00 mm	12 mm
1-KEBW21	UNC 1/4 x 20	62,00 mm	7/16 ''	1/4“
1-KEBW22	UNC 5/16 x 18	67,00 mm	1/2 ''	1/4“
1-KEBW23	UNC 3/8 x 16	77,00 mm	9/16 ''	1/4“
1-KEBW24	UNC 7/16 x 14	87,00 mm	11/16 ''	1/4“
BEBW25	UNC 1/2 x 13	117,00 mm	3/4 ''	10 mm
1-KEBW31	UNF 1/4 x 28	62,00 mm	7/16 ''	1/4“
1-KEBW33	UNF 3/8 x 24	77,00 mm	9/16 ''	1/4“
1-KEBW34	UNF 7/16 x 20	87,00 mm	11/16 ''	1/4“
BEBW35	UNF 1/2 x 20	117,00 mm	3/4 ''	10 mm

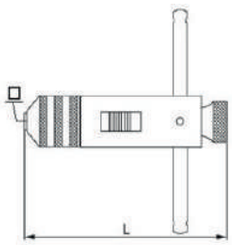
Útil máquina para insertos Baerfix



Referencia	Métrica	D1	D2	L	Cuadradillo
MEBW03	M 3 x 0,5	8 mm	20 mm	90 mm	6,2 mm
MEBW04	M 4 x 0,7	8 mm	20 mm	90 mm	6,2 mm
MEBW05	M 5 x 0,8	12 mm	26 mm	119 mm	10 mm
MEBW06	M 6 x 1,0	12 mm	26 mm	119 mm	10 mm
MEBW08	M 8 x 1,25	12 mm	26 mm	119 mm	10 mm
MEBW10	M 10 x 1,5	16 mm	34 mm	148 mm	12 mm
MEBW12	M 12 x 1,75	16 mm	34 mm	148 mm	12 mm
MEBW14	M 14 x 2,0	22 mm	48 mm	176 mm	18 mm
MEBW16	M 16 x 2,0	22 mm	48 mm	176 mm	18 mm
MEBW18	M 18 x 2,5	22 mm	48 mm	176 mm	18 mm
MEBW20	M 20 x 2,5	22 mm	48 mm	176 mm	18 mm
MEBW22	M 22 x 2,5	36 mm	59 mm	190 mm	29 mm
MEBW24	M 24 x 3,0	36 mm	59 mm	190 mm	29 mm

Giramachos y Volvedores





Referencia	Modelo	Para M	Para INCH	Cuadradillo	Longitud
491625001	1	M3-M10	1/8 – 3/8	2.4-5.5	85
491625002	2	M5-M12	7/32 – 1/2	4.5-80	100
491625010	10	M3-M10	1/8 – 3/8	2.4-5.5	250
491625020	20	M5-M12	7/32 – 1/2	4.5-8.0	300



Referencia	Modelo	Para M	Para INCH	Para GAS	Cuadradillo	Longitud
491723000	0	M 1 - M8	1/16 - 1/4		2,0 - 5,0	130
491723010	1	M 1 - M10	1/16 - 3/8	G 1/8	2,0 - 6,3	176
491723015	1.1/2	M 1 - M12	1/16 - 1/2	G 1/8	2,1 - 8,0	176
491723020	2	M 4 - M12	5/32 - 1/2	G 1/8	3,0 - 9,0	280
491723030	3	M 5 - M20	7/32 - 3/4	G 1/8 - G 1/2	4,9 - 12	380
491723040	4	M 11 - M27	7/16 - 1''	G 1/4 - G 3/4	5,5 - 16	505
491723050	5	M 13 - M32	1/2 - 1.1/4	G 1/4 - G 1''	7,0 - 20	700
491724060	6	M18 – M42	3/4 - 1.1/2	G1/2 – G1.1/4	11 – 24	1000
491724070	7	M27 – M52	1.1/8 – 2	G3/4 – G1.3/4	16 – 32	1250
491724080	8	M27 – M64	1.1/8 - 3	G3/4 – G3	16 - 40	1250

Giramachos y Volvedores

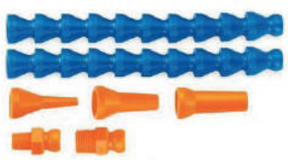


Referencia	Modelo	Medidas para M	Medidas para	Longitud
491823001	16 x 5	M 1 - M 2,6	BSW 1/16 - BSW 3/32	160
491823002	20 x 5	M 3 - M 4	BSW 1/8 - BSW 5/32	200
491823003	20 x 7	M 4.5 - M 6	BSW 3/16 - BSW 1/4	200
491823004	25 x 9	M 7 - M 9	BSW 5/16	224
491823005	30 x 11	M 10 - M 11	BSW 3/8 - BSW 7/16	280
491823006	38 x 10	MF 12 - MF 15	G 1/4	315
491823007	38 x 14	M 12 - M 14	BSW 1/2 - BSW 9/16	315
491823008	45 x 14	MF 16 - MF 20	G 3/8-1/2	450
491823009	45 x 18	M 16 - M 20	BSW 5/8 - BSW 13/16	450
491823010	55 x 16	MF 22 - MF 26	G 5/8 - G 3/4	560
491823011	55 x 22	M 22 - M 24	BSW 7/8 - BSW 1''	560
491823012	65 x 18	MF 27 - MF 36	G 7/8 - G 1''	630
491823013	65 x 25	M 27 - M 36	BSW 1.1/8 - BSW 1.3/8	630
491823014	13/16''	20,6 x 6,35	13/16 x 1/4	200
491823015	1''	25,4 x 9,5	1'' x 3/8	224
491823016	1.5/16''	33,4 x 11,1	1.5/16 x 7/16	270
491823017	1.1/2''	38,1 x 12,7	1.1/2 x 1/2	315
491823018	2''	50,8 x 15,9	2'' x 5/8	560
491823019	2.1/4''	57,1 x 17,5	2.1/4 x 11/16	560
491823020	2.1/2''	63,5 x 19,0	2.1/2 x 3/4	630
491823021	3''	76,2 x 22,2	3'' x 7/8	900
491823022	3.1/2''	88,9 x 25,4	3.1/2'' x 1''	900
491823023	4''	101,6 x 25,4	4'' x 1''	1000

Mangueras de 1/4 – Diámetro Interior 6

- Caudal de presión 2 a 3.5 Bar – 900l/hora. Temperatura de fusión 165º - Temperatura máxima de trabajo 76ºC.
- Absolutamente hermético y resistente a las vibraciones. Inalterable a los agentes químicos estándar.

Referencia: 82020A



20 Rótulas articuladas (Long. Total 300 mm)
3 Bocas de salida (1.6–3.17–6.35 mm)
2 Racores 1/4 y 1/8

Referencia: 82021



20 Rótulas articuladas
Longitud Total: 300 mm

Referencia: 82051



Rollo de 1524 cm de Rótulas

Referencia		Descripción
	**82022**	Boquilla salida ø1.6 mm 4 Und
	82042	Boquilla salida ø1.6 mm 50 Und
	**82023**	Boca de salida ø3,17 4 Und
	82043	Boca de salida ø3,17 50 Und
	**82024**	Boca de salida ø6,35 4 Und
	82044	Boca de salida ø6,35 50 Und
	**82223**	Boca salida ø1,60 - 90º 4 Und
	82243	Boca salida ø1,60 - 90º 20 Und
	**82224**	Boca salida ø3,17 90º 4 Und
	82244	Boca salida ø3,17 90º 20 Und
	**82225**	Boca salida ø6,35 - 90º 4 Und
	82245	Boca salida ø6,35 - 90º 20 Und
	**82226**	Boca salida 90º - 6 Agujeros ø2,5 2 Und
	82246	Boca salida 90º - 6 Agujeros 2,5 20 Und
	**82017**	Boca salida plana recta 2 Und
	82037	Boca salida plana recta 20 Und
	**82054**	Boca plana 11x1 2 Und
	82074	Boca plana 11x1 20 Und
	**82027**	Boca de salida plana 24x0,8 2 Und
	82047	Boca de salida plana 24x0,8 20 Und
	**82326**	Juego de 4 boquillas salida 90º ø1.60 – ø3.17 ø6.35 mm – Plana 6 agujeros
	**82220**	Juego que contiene: 4 Tubos de prolongación, 90 mm 4 Bridas de fijación

Referencia		Descripción
	**82053**	Boca plana 20 2 Und
	82073	Boca plana 20 20 Und
	**82025A**	Racor de 1/8 NPT 4 Und
	82035A	Racor de 1/8 NPT 50 Und
	**82026A**	Racor de 1/4 NPT 4 Und
	82036A	Racor de 1/4 NPT 50 Und
	**82028**	Ramificación Y 1/4 2 Und
	82038	Ramificación Y 1/4 20 Und
	**82062**	Conector 1/4 hembra NPTF 4 Und
	82082	Conector 1/4 hembra NPTF 50 Und
	**82011**	Enlace recto 1/4 4 Und
	82031	Enlace recto 1/4 20 Und
	**82013**	Conector 5/8 hembra UNF 4 Und
	82033	Conector 5/8 hembra UNF 20 Und
	**82014**	Conector 7/16 hembra UNF 4 Und
	82034	Conector 7/16 hembra UNF 20 Und
	**82012**	Racor hembra 1/8 NPT - 1/4 4 Und
	82032	Racor hembra 1/8 NPT - 1/4 20 Und
	**82222**	Bridas de fijación 4 Und
	82242	Bridas de fijación 20 Und
	**62420**	Codo macho hembra 1/4 2 Und
	62430	Codo macho hembra 1/4 20 Und
	**82221**	4 Tubos de prolongación fijos de 90 mm
	82241	20 Tubos de prolongación fijos de 90 mm

Mangueras de 1/4 – Diámetro Interior 6

- Caudal de presión 2 a 3.5 Bar – 900l/hora. Temperatura de fusión 165º - Temperatura máxima de trabajo 76ºC.
- Absolutamente hermético y resistente a las vibraciones. Inalterable a los agentes químicos estándar.

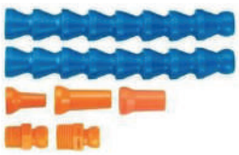
Referencia		Descripción
	**82055**	Boca plana 11x1,5 2 Und
	82075	Boca plana 11x1,5 20 Und
	**82056**	Boca plana - 7 agujeros ø1 2 Und
	82076	Boca plana - 7 agujeros ø1 20 Und
	**82057**	Boca plana - 5 agujeros ø1 2 Und
	82077	Boca plana - 5 agujeros ø1 20 Und
	**62426**	Conexión en T 1/4 2 Und
	62436	Conexión en T 1/4 20 Und
	**62422**	Conexión salida central 1/4 4 Und
	62442	Conexión salida central 1/4 20 Und
	**62424**	Tapones cierre 1/4 4 und
	62444	Tapones cierre 1/4 20 und
	**82227**	Boca plana - 20 agujeros 2 Und
	82247	Boca plana - 20 agujeros 20 Und
	**82228**	Boca plana - 20 agujeros ø1.5 2 Und
	82248	Boca plana - 20 agujeros ø1.5 20 Und
	**82229**	Boca plana - 20 agujeros ø1 2 Und
	82249	Boca plana - 20 agujeros ø1 20 Und
	**26171**	Pinza de montaje 1/4

Referencia		Descripción
	**62423**	Anillo de 15 conexiones de salida con 1 tapón de cierre
	**82721A**	Grifo macho 1/4 NPT Adaptador 2 Und
	82731A	Grifo macho 1/4 NPT Adaptador 10 Und
	**82722**	Grifo en línea 1/4 2 Und
	82732	Grifo en línea 1/4 10 Und
	**82723A**	Grifo macho 1/4 NPT 2 Und
	82723A	Grifo macho 1/4 NPT 10 Und
	**82724A**	Grifo hembra 1/4 NPT 2 Und
	82774A	Grifo hembra 1/4 NPT 10 Und
	**82725**	Válvula de retención 1/4 2 Und
	82745	Válvula de retención 1/4 10 Und
	**52400**	Conjunto conector modular 1/4
	**52410**	Conjunto conector modular 1/4 con grifo
	**52416**	Soporte conector modular 1/4

Mangueras de 3/8 – Diámetro Interior 9 mm

- Caudal de presión 0.7 a 1.5 Bar – 3700l/hora. Temperatura de fusión 165º - Temperatura máxima de trabajo 65ºC.
- Absolutamente hermético y resistente a las vibraciones. Inalterable a los agentes químicos estándar.

Referencia: 83430A



8 Rótulas articuladas
3 Bocas salida ø16 – ø20
1 Racor 3/8 NPT

Referencia: 83031



20 Rótulas articuladas

Referencia: 83051



Rótulas articuladas
Longitud Total: 762 cm

Referencia: 83091



Rótulas articuladas
Longitud Total: 1524 cm

Referencia		Descripción
	**83032**	Bocas de salida ø6.35 - 3/8 4 Und
	83052	Bocas de salida ø6.35 - 3/8 50 Und
	**83033**	Boca salida ø9,30 - 3/8 4 Und
	83053	Boca salida ø9,30 - 3/8 50 Und
	**83034**	Boca salida ø12,7 - 3/8 4 Und
	83054	Boca salida ø12,7 - 1/2 50 Und
	**83035A**	Racor 3/8 NPT 4 Und
	83055A	Racor 3/8 NPT 50 Und
	**83036A**	Racor 1/2 NPT 4 Und
	83056A	Racor 1/2 NPT 50 Und
	**83037**	Boca salida plana 32x4,5 - 3/8 2 Und
	83057	Boca salida plana 32x4,5 - 3/8 20 Und
	**83038**	Ramificación Y 3/8 2 Und
	83058	Ramificación Y 3/8 20 Und

Referencia		Descripción
	**83011**	Adaptador 3/8 4 Und
	83041	Adaptador 3/8 20 Und
	**84445**	Válvula de retención 3/8 2 Und
	84465	Válvula de retención 3/8 10 Und
	**83651**	Adaptador 3/8 a 1/4 2 Und
	83851	Adaptador 3/8 a 1/4 10 Und
	**83722**	Válvula conexión línea 2 Und
	83742	Válvula conexión línea 10 Und
	**83723A**	Válvula conexión macho NPT 2 Und
	83743A	Válvula conexión macho NPT 10 Und
	**83724A**	Válvula conexión hembra 2 Und
	83744A	Válvula conexión hembra NPT 10 Und
	**26176**	Pinza de montaje - 3/8

Mangueras de 1/2 – Diámetro Interior 12 mm

- Caudal de presión 1.5 a 2 Bar – 1800l/hora. Temperatura de fusión 165º - Temperatura máxima de trabajo 76ºC.
- Absolutamente hermético y resistente a las vibraciones. Inalterable a los agentes químicos estándar.

Referencia: 84040A



12 Rótulas articuladas
3 Bocas de salida
(6.35-9.30-12.7mm)
2 Racores 1/2 y 3/8

Referencia: 84041



Pack de 2 Rótulas articuladas
Longitud: 13.5 cm

Referencia: 84081



Rótulas articuladas Long.
Total: 1524 cm

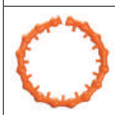
Referencia		Descripción
	84044	Bocas de salida ø6.35 mm 4 Und
	84064	Bocas de salida ø6.35 mm 50 Und
	84042	Boca salida ø9,30 - 1/ 2 4 Und
	84062	Boca salida ø9,30 - 1/ 2 50 Und
	84043	Boca salida ø12,7 - 1/2 4 Und
	84063	Boca salida ø12,7 - 1/2 50 Und
	84443	Boca salida 90º - ø6,35 - 1/2 4 Und
	84463	Boca salida 90º - ø6,35 - 1/2 50 Und
	84055	Boca salida plana 1/2 2 Und
	84075	Boca salida plana 1/2 20 Und
	84056	Boca salida plana - 7 agujeros ø2 2 Und
	84076	Boca salida plana - 7 agujeros ø2 20 Und
	84057	Boca salida plana - 5 agujeros ø3 2 Und
	84077	Boca salida plana - 5 agujeros ø3 20 Und
	84058	Boca salida 32 - 1/2 2 Und
	84078	Boca salida 32 - 1/2 20 Und
	84059	Boca salida 41 - 1/2 2 Und
	84079	Boca salida 41 - 1/2 20 Und
	84047	Boca salida plana 32x4,5 2 Und
	84067	Boca salida plana 32x4,5 20 Und
	84050	Boca salida plana 42x3 2 Und
	84070	Boca salida plana 42x3 20 Und

Referencia		Descripción
	84444	Boca salida 90º ø9,3 - 1/2 4 Und
	84464	Boca salida 90º ø9,3 - 1/2 50 Und
	84445	Boca salida 90º ø12,7 - 1/2 4 Und
	84465	Boca salida 90º ø12,7 - 1/2 50 Und
	84446	Boca salida peine 1/2 2 Und
	84466	Boca salida peine 1/2 20 Und
	84054	Boca salida plana 1/2 2 Und
	84074	Boca salida plana 1/2 20 Und
	84011	Adaptador 1/2 4 Und
	84031	Adaptador 1/2 20 Und
	64620	Codo macho hembra 1/2 2 Und
	64640	Codo macho hembra 1/2 20 Und
	64626	Conexión T 1/2 2 Und
	64646	Conexión T 1/2 20 Und
	64622	Conexión con salida central 1/2 4 Und
	64642	Conexión con salida central 1/2 20 Und
	64624	Tapón 1/2 2 Und
	64644	Tapón 1/2 20 Und
	84722	Grifo en línea 1/2 2 Und
	84742	Grifo en línea 1/2 10 Und
	84723A	Grifo macho 1/2 NPT 2 Und
	84743A	Grifo macho 1/2 NPT 10 Und

Mangueras de 1/2 – Diámetro Interior 12 mm

- Caudal de presión 1.5 a 2 Bar – 1800l/hora. Temperatura de fusión 165º - Temperatura máxima de trabajo 76ºC.
- Absolutamente hermético y resistente a las vibraciones. Inalterable a los agentes químicos estándar.

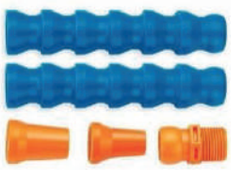
Referencia		Descripción
	**84052**	Boca salida plana 60x3 2 Und
	84072	Boca salida plana 60x3 20 Und
	**84447**	Boca plana - 20 agujeros ø2 2 Und
	84467	Boca plana - 20 agujeros 20 Und
	**84046A**	Conector 3/8 NPT 4 Und
	84066A	Conector 3/8 NPT 50 Und
	**84045A**	Conector 1/2 NPT 4 Und
	84065A	Conector 1/2 NPT 50 Und
	**84048**	Ramificación Y 1/2 a 1/2 2 Und
	84068	Ramificación Y 1/2 a 1/2 20 Und
	**84049**	Ramificación Y 1/2 a 1/4 2 Und
	84069	Ramificación Y 1/2 a 1/4 20 Und
	**84651**	Reducción 1/2 a 1/4 2 Und
	84851	Reducción 1/2 a 1/4 20 Und
	**84441**	4 Tubos de prolongación fijos
	84461	20 Tubos de prolongación fijos
	**84346**	Set de 4 Bocas de salida a 90º
	**26172**	Pinza de montaje 1/2

Referencia		Descripción
	**84724A**	Grifo hembra 1/2 NPT 2 Und
	84744A	Grifo hembra 1/2 NPT 10 Und
	**84725**	Válvula de retención 1/2 2 Und
	84745	Válvula de retención 1/2 10 Und
	**84346**	Surtido de 4 Bocas 18x2 – 18x3 - 18x5 y 18x7
	**54400**	Conjunto conector modular 1/2
	**54410**	Conjunto conector modular 1/2 Con grifo
	**54416**	Soporte conector modular 1/2 Set 4
	**84440**	1 Set Tubos prolongación + 4 Bridas 1/2
	**64643**	Anillo de 15 Conexiones de salida con 1 tapón de cierre
	**84442**	Bridas de fijación 4 Und
	84462	Bridas de fijación 20 Und
	**84021**	Acoplamiento para montaje de 1/2 2 Und

Mangueras de 3/4 – Diámetro Interior 20 mm

- Caudal de presión 0.7 a 1.5 Bar – 3700l/hora. Temperatura de fusión 165º - Temperatura máxima de trabajo 76ºC.
- Absolutamente hermético y resistente a las vibraciones. Inalterable a los agentes químicos estándar.

Referencia: 86060A



12 Rótulas articuladas
(Long. Total 350 mm)
2 Bocas salida ø16 – ø20
1 Racor 3/4 NPT

Referencia: 86061



20 Rótulas articuladas Longitud:
15 cm

Referencia: 86081



Rótulas articuladas
Longitud Total: 1524 cm

Referencia: 86091



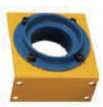
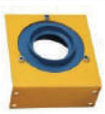
Rótulas articuladas
Longitud Total: 2500 cm

Referencia		Descripción
	**86063**	Boca de salida ø15.9 4 Und
	**86064A**	Racor de 3/4 NPT 4 Und
	86074A	Racor de 3/4 NPT 50 Und
	**86021**	Acoplamiento recto para imán 2 Und
	**86022**	Base Magnética para Pantalla ø65x10
	**86023**	Acoplamiento Lateral de Pantalla 2 Und
	**86067**	Boca plana 75x2 2 Und
	86077	Boca plana 75x2 2 Und
	**86068**	Ramificación Y 3/4 2 Und
	86078	Ramificación Y 3/4 20 Und
	**86069**	Reducción Doble 3/4 a 1/2 2 Und
	86079	Reducción Doble 3/4 a 1/2 30 Und

Referencia		Descripción
	**86062**	Boca de salida ø19 4 Und
	**86051**	Reducción 3/4 a 1/2 - 3/4 2 Und
	86071	Reducción 3/4 a 1/2 - 3/4 20 Und
	**86011**	Enlace Recto 3/4 4 Und
	86031	Enlace Recto 3/4 20 Und
	**66620**	Codo 3/4 2 Und
	66640	Codo 3/4 20 Und
	**86722**	Grifo en línea 3/4 – 3/4 2 Und
	86742	Grifo en línea 3/4 – 3/4 10 Und
	**86723A**	Grifo macho 3/4 NPT - 3/4 2 Und
	86743A	Grifo macho 3/4 NPT - 3/4 10 Und
	**86724A**	Grifo hembra 3/4 NPT - 3/4 2 Und
	86744A	Grifo hembra 3/4 NPT - 3/4 10 Und
	**26177**	Pinza de montaje 3/4

Sistemas de Aspiración 2 1/2”

- La manguera de aspiración Loc-Line esta diseñada para acoplar a sistemas de aspiración con el fin de aspirar humo, polvo, serrín, etc.
- Su fácil montaje hace que su utilización sea muy polivalente en múltiples aplicaciones como: humos de soldadura, rectificadora, electroerosión, maderas...
- Temperatura de fusión: 165º - Temperatura máxima de trabajo: 65º - Resistencia superficial 1000 E3ohm.

Referencia		Descripción
	89091	9 Rótulas
	89191	18 Rótulas
	89291	180 Rótulas
	89094	Boca aspiración ø115 1 Und
	89194	Boca aspiración ø115 10 Und
	89092	Boca aspiración 153 x 89 1 Und
	89192	Boca aspiración 153 x 89 10 Und
	89093	Boca aspiración ovalada 1 Und
	89193	Boca aspiración ovalada 10 Und
	89095	Adaptador para tubo metálico de 3” (76.20 mm) 1 Und
	89195	Adaptador para tubo metálico de 3” (76.20 mm) 10 Und
	89101	Adaptador aspiradora 1 Und
	89102	Adaptador aspiradora 1 Und

Referencia		Descripción
	89722	Válvula en línea 1 Und
	89742	Válvula en línea 10 Und
	81206	Adaptador aspiradora 1 Und
	89228	Adaptador aspiradora 10 Und
	89097	Adaptador aspiradora 1 Und
	89197	Adaptador aspiradora 10 Und
	89099	Adaptador para tubo 1 Und
	89199	Adaptador para tubo 10 Und
	89038	Reductor Y para tubo 4ª a 2,5” 1 Und
	89098	Adaptador aspiradora 1 Und
	89198	Adaptador aspiradora 10 Und
		Ejemplo de aplicación del sistema de aspiración

Pantallas y Lanzas con Soporte Magnético

	Referencia	Descripción	Referencia	Descripción
	**34101**	Conjunto Completo Soporte + Pantalla 150 x 200	34101-8P	Recambio Pantalla 150x200
	34102	Conjunto Completo Soporte + Pantalla 190 x 250	34102-10P	Recambio Pantalla 190x250
	34103	Conjunto Completo Soporte + Pantalla 215 x 300	34103-12P	Recambio Pantalla 215x300

		Referencia	Descripción
		**88003**	Soporte Magnético y Lanza 1/4 - 180 mm
		88005	Soporte Magnético y Lanza 1/4 con grifo – 180 mm
		88103	Soporte Magnético y Lanza 1/4 – 365 mm
		88105	Soporte Magnético y Lanza 1/4 Con Grifo – 365 mm

Lanzas con Soporte Magnético

	Referencia	Descripción
 	87011	Soporte Magnético y 3 Lanzas 1/4 con grifo - 365 mm
	87002	Soporte Magnético y 2 Lanzas 1/4 con grifo - 365 mm

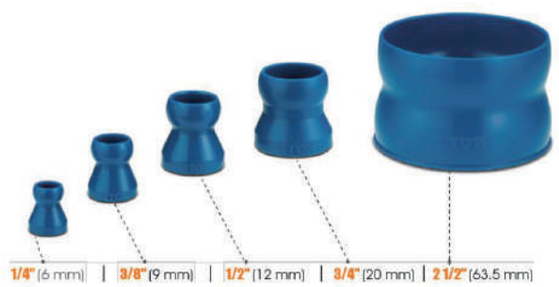
	Referencia	Descripción
 	**62720A**	Lanza 365 mm + Adaptador Hembra 1/4 NPT y Boca 6.35 mm
	62721A	Lanza 365 mm + Adaptador Macho 1/4 NPT y Boca 6.35 mm

	Referencia	Descripción
 	**63720A**	Lanza 315 mm + Adaptador Hembra 3/8 NPT y Boca 6.35 mm
	63721A	Lanza 315 mm + Adaptador Macho 3/8 NPT y Boca 6.35 mm

	Referencia	Descripción
 	**64720A**	Lanza 290 mm + Adaptador Hembra 1/2 NPT y Boca 6.35 mm
	62721A	Lanza 290 mm + Adaptador Macho 1/2 NPT y Boca 6.35 mm

	Referencia	Descripción
 	**66720A**	Lanza 325 mm + Adaptador Hembra 3/4 NPT y Boca 6.35 mm
	66721A	Lanza 325 mm + Adaptador Macho 3/4 NPT y Boca 6.35 mm

Información Técnica Jeton



Modelo	Características	
1/4"	2-3 kg/cm³	900l/h
3/8"	2-3 kg/cm³	1500l/h
1/2"	1.4-2 kg/cm³	1700l/h
3/4"	0.7-1.4 kg/cm³	1900l/h

¿Cómo Calcular las Longitudes?

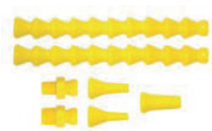


Modelo	
1/4"	10.2 mm + (14.8 mm x B) + 35.2 mm = Total
3/8"	12.7 mm + (17.3 mm x B) + 39.2 mm = Total
1/2"	14.8 mm + (21.1 mm x B) + 37.8 mm = Total
3/4"	14.2 mm + (23.7 mm x B) + 43 mm = Total

Mangueras Resistente Ácidos de 1/4 – Diámetro Interior 6

• Caudal de presión 2 a 3.5 Bar – 900l/hora. Temperatura de fusión 165º - Temperatura máxima de trabajo 76ºC.

Referencia: 45463



20 Rótulas articuladas
3 Bocas de salida
(1.6 – 3.17 6.35 mm)
2 Racores 1/4 y 1/8

Referencia: 52021



20 Rótulas articuladas
Longitud Total: 280 mm

Referencia: 52051



Rollo de 1.524 cm
de Rótulas

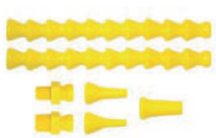
Referencia		Descripción
	52022	Boca de salida ø1.6 mm - 4 Und
	52042	Boca de salida ø1.6 mm - 50 Und
	52024	Boca de salida ø6.35 mm - 4 Und
	52044	Boca de salida ø6.35 mm - 50 Und
	52025A	Racor de 1/8 NPT - 4 Und
	52035A	Racor de 1/8 NPT - 50 Und
	52028	Ramificación Y - 2 Und
	52038	Ramificación Y - 20 Und
	52420	Codos a 90º - 2 Und
	52430	Codos a 90º - 20 Und

Referencia		Descripción
	52403	Boca de salida ø3.17 mm - 4 Und
	52043	Boca de salida ø3.17 mm - 50 Und
	52027	Salida boca plana doble 24 x 0.8 2 Und
	52047	Salida boca plana doble 24x0.8 20 Und
	52026A	Racor de 1/4 NPT - 4 Und
	52036A	Racor de 1/4 NPT - 50 Und
	52011	Enlace Recto - 4 Und
	52031	Enlace Recto - 20 Und
	52426	Conexión en T - 2 Und
	52436	Conexión en T - 20 Und

Mangueras Resistente Ácidos de 1/2 – Diámetro Interior 12

• Caudal de presión 1.5 a 2 Bar – 1800l/hora. Temperatura de fusión 165º - Temperatura máxima de trabajo 76ºC.

Referencia: 56863



20 Rótulas articuladas
3 Bocas de salida
(6.35 – 9.30 12.7 mm)
2 Racores 1/4 y 1/8

Referencia: 54041



12 Rótulas articuladas
Longitud Total: 270 mm

Referencia: 54081



690 Rótulas articuladas
Longitud Total: 15 m

	Código	Descripción
	54044	Boca de salida ø6.35 mm - 4 Und
	54064	Boca de salida ø6.35 mm - 50 Und
	54043	Boca de salida ø12.7 mm - 4 Und
	54063	Boca de salida ø12.7 mm - 50 Und
	54045A	Racor de 1/2 NPT - 4 Und
	54065A	Racor de 1/2 NPT - 20 Und
	54048	Ramificación Y - 2 Und
	54068	Ramificación Y - 20 Und
	54049	Reducción doble 1/2 a 1/4 - 2 Und
	54069	Reducción doble 1/2 a 1/4 - 20 Und
	54626	Conexión en T - 2 Und
	54646	Conexión en T - 20 Und

	Código	Descripción
	54042	Boca de salida ø9.30 mm - 4 Und
	54062	Boca de salida ø9.30 mm - 50 Und
	54047	Salida Plana doble 24 x 0.8 - 2 Und
	54067	Salida Plana doble 24 x 0.8 - 20 Und
	54050	Boca de salida 32 x 4.5 - 2 Und
	54070	Boca de salida 32 x 4.5 - 20 Und
	54651	Reducción 1/2 a 1/4 - 2 Und
	54851	Reducción 1/2 a 1/4 - 20 Und
	54620	Codo a 90º - 2 Und
	54640	Codo a 90º - 20 Und

Sistema de Alta Preción Ajustable

- Presión: 30kg/cm2

Modelo JTSP





Modelo JTASP

Referencia JTSP	Modelo	D	Rosca	L	L1	D1	B1	Hexágono
JTSP-1-8-20-4	Ø4-20L	4	1/8″	20	10	6	6	17
JTSP-1-8-20-2	Ø2-20L	2	1/8″	20	10	6	6	17
JTSP-1-8-20-1	Ø1-20L	1	1/8″	20	10	6	6	17
JTSP-1-8-40-4	Ø4-40L	4	1/8″	40	10	6	6	17
JTSP-1-8-40-2	Ø2-40L	2	1/8″	40	10	6	6	17
JTSP-1-8-40-1	Ø1-40L	1	1/8″	40	10	6	6	17
JTSP-1-8-60-4	Ø4-60L	4	1/8″	60	10	6	6	17
JTSP-1-8-60-2	Ø2-60L	2	1/8″	60	10	6	6	17
JTSP-1-8-60-1	Ø1-60L	1	1/4″	60	10	6	6	17
JTSP-1-4-20-4	Ø4-20L	4	1/4″	20	10	6	6	17
JTSP-1-4-20-2	Ø2-20L	2	1/4″	20	10	6	6	17
JTSP-1-4-20-1	Ø1-20L	1	1/4″	20	10	6	6	17
JTSP-1-4-40-4	Ø4-40L	4	1/4″	40	10	6	6	17
JTSP-1-4-40-2	Ø2-40L	2	1/4″	40	10	6	6	17
JTSP-1-4-40-1	Ø1-40L	1	1/4″	40	10	6	6	17
JTSP-1-4-60-4	Ø4-60L	4	1/4″	60	10	6	6	17
JTSP-1-4-60-2	Ø2-60L	2	1/4″	60	10	6	6	17
JTSP-1-4-60-1	Ø1-60L	1	1/4″	60	10	6	6	17
JTSP-3-8-30-6	Ø6-30L	6	3/8″	30	13	8	10	24
JTSP-3-8-50-6	Ø6-50L	6	3/8″	50	13	8	10	24
JTSP-3-8-70-6	Ø6-70L	6	3/8″	70	13	8	10	24
JTSP-1-2-40-8	Ø8-40L	8	1/2″	40	18	10	12	32
JTSP-1-2-60-8	Ø8-60L	8	1/2″	60	18	10	12	32
JTSP-1-2-80-8	Ø8-80L	8	1/2″	80	18	10	12	32

Referencia JTASP	Modelo	D	Rosca	L	D1	B1	Hexágono	
JTASP-1-8-10-4	Ø4-10L	4	1/8″	10	6	6	17	
JTASP-1-8-10-2	Ø2-10L	2	1/8″	10	6	6	17	
JTASP-1-8-10-1	Ø1-10L	1	1/8″	10	6	6	17	
JTASP-1-8-30-4	Ø4-30L	4	1/8″	30	6	6	17	
JTASP-1-8-30-2	Ø2-30L	2	1/8″	30	6	6	17	
JTASP-1-8-30-1	Ø1-30L	1	1/8″	30	6	6	17	
JTASP-1-8-50-4	Ø4-50L	4	1/8″	50	6	6	17	
JTASP-1-8-50-2	Ø2-50L	2	1/8″	50	6	6	17	
JTASP-1-8-50-1	Ø1-50L	1	1/8″	50	6	6	17	
JTASP-1-4-40-4	Ø4-10L	4	1/8″	10	6	6	17	
JTASP-1-4-40-2	Ø2-10L	2	1/4″	10	6	6	17	
JTASP-1-4-40-1	Ø1-10L	1	1/4″	10	6	6	17	
JTASP-1-4-30-4	Ø4-30L	4	1/4″	30	6	6	17	
JTASP-1-4-30-2	Ø2-30L	2	1/4″	30	6	6	17	
JTASP-14-30-1	Ø1-30L	1	1/4″	30	6	6	17	
JTASP-1-4-50-4	Ø4-50L	4	1/4″	50	6	6	17	
JTASP-1-4-50-2	Ø2-50L	2	1/4″	50	6	6	17	
JTASP-1-4-50-1	Ø1-50L	1	1/4″	50	6	6	17	
JTASP-3-8-10-4	Ø4-10L	4	3/8″	10	6	6	17	
JTASP-3-8-10-2	Ø2-10L	2	3/8″	10	6	6	17	
JTASP-3-8-10-1	Ø1-10L	1	3/8″	10	6	6	17	
JTASP-3-8-30-4	Ø4-30L	4	3/8″	30	6	6	17	
JTASP-3-8-30-2	Ø2-30L	2	3/8″	30	6	6	17	
JTASP-3-8-30-1	Ø1-30L	1	3/8″	30	6	6	17	
JTASP-3-8-50-4	Ø4-50L	4	3/8″	50	6	6	17	
JTASP-3-8-50-2	Ø2-50L	2	3/8″	50	6	6	17	
JTASP-3-8-50-1	Ø1-50L	1	3/8″	50	6	6	17	

Mangos + Cuchillas para Rebarbado

Referencia		Descripción
EL1100GT		Set de Cuchillas B: (2.6 mm) Incluye: Mango + Extensión + 1 Cuchilla B10 y 1 Cuchilla B20
EL1200GT		Set de Cuchillas E: (3.2 mm) Incluye: Mango + Extensión + 1 Cuchilla GT-E100, 1 Cuchilla GT-E200 y 1 Cuchilla GT-E300
EL1300GT		Set de Cuchillas C: Avellanado Incluye: Mango + Extensión + 1 Cuchilla GT-C20 (ø20 mm)
EL1400GT		Set de Cuchillas N: Chavetero Incluye: Mango + Extensión + Cuchilla GT-N80K
EL1601GT		Set de Cuchillas T: Rasqueta Triangular Incluye: Mango + Extensión + Cuchilla GT-T60 + Funda Protectora
EL1600GT		Set de Cuchillas T: Rasqueta Triangular Incluye: Mango + Extensión + Cuchilla GT-T40 + Funda Protectora
EL1500GT		Set de Cuchillas T: Mini Rasqueta Incluye: Mango + Extensión + Cuchilla GT-D50 + Funda Protectora
EL1501GT		Set de Cuchillas T: Rasqueta Interior Incluye: Mango + Extensión + Cuchilla GT-D66
EL7500GT		Set de Cuchillas C: Avellanado Rotativo Incluye: Mango + Cuchilla GT-C20
EL1705GT		Set de Cuchillas C: Ranuras Incluye: Mango + Extensión + Cuchilla GT-L5
EL1703GT		Set de Cuchillas C: Ranuras Incluye: Mango + Extensión + Cuchilla GT-L3
DB2000GT		Set de Cuchillas N: Incluye: Mango + 2 Cuchillas GT-N80
SC8000GT		Mango Rasqueta + Cuchilla T80 Mango de Aluminio Hexagonal
EL6000GT		Set de Cuchillas E: (3.2 mm) Incluye: Mango + 1 Cuchilla GT-E100 + 1 Cuchilla GT-E200 + 1 Cuchilla GT-E300
EL6500GT		Set de Cuchillas C: Avellanado Rotativo Incluye: Mango + Cuchilla GT-BC1650 (ø16.5 mm)
RB1000GT		Mango Aluminio + Cuchilla GT-E100 (ø3.2 mm)
EO1000GT		Mango Aluminio con clip de un solo uso con Cuchilla GT-E100 (ø3.2 mm)
EO2000GT		Mango Aluminio con soporte plástico y clip + Cuchilla GT-E100 (ø3.2 mm)
NB1108GT		Set de Mango Tipo E (ø3.2 mm) Incluye: Mango + Cuchilla GT-E100S – GT-E200S
RD1040GT		Set Avellanado Tipo C Incluye: Mango + Cuchilla GT-BC1040 de Avellanado 0-10.4 mm

Mangos + Cuchillas para Rebarbado

Referencia		Descripción
RD4000GT		Set de Avellanado Exterior Tipo C Incluye: Mango + Cuchilla GT-EX2000 de Avellanado 4-18 mm
KW2000GT		Set de Avellanado Ranuras Incluye: Mango + Cuchilla GT-BO1000 para roscas/ranuras
TC1000GT		Set de Avellanado Roscas Interiores Incluye: Mango + Cuchilla GT-BC1000
RC2200GT		Avellanador Largo Reversible con Mango + Cuchilla GT-BR2200 – Rango 10-22 mm
RC2000GT		Avellanador Reversible con Mango + Cuchilla GT-BR2000 – Rango 5.5-10 mm
RC1000GT		Avellanador Mini Reversible con Mango + Cuchilla GT-BR100 – Rango 3-5.5 mm
YT1100GT		Mango con Rasqueta Mini y Cuchilla GT-D75
YT1200GT		Mango con Rasqueta Ajustable y Cuchilla GT-T80
SG1000GT		Kit Mango Doble Adaptador B + E Incluye: Mango con Cuchilla GT-100S + Cuchilla GT-B10S
RB1401GT		Mango Plástico con Cuchilla GT-E100 (ø3.2 mm)
EL5100GT		Kit Uso General Incluye: 1 Mango + Dos Extensiones para Cuchillas E y B + 1 Cuchilla de cada modelo GT-E100 - GT-E200 – GT-E300 – GT-B10 – GT-B20-GT-B30
EL5065GT		Kit Cerámico Incluye: 1 Mango + Cuchilla GT-CR6001 (65º) para materiales plásticos blandos
EL5075GT		Kit Cerámico Incluye: 1 Mango + Cuchilla GT-CR61001 (75º) para materiales duros blandos
CR1100GT		Mango y Cuchilla de un solo uso para plásticos
CR2000GT		Kit Cerámico Incluye: 1 Mango + 1 Cuchilla en forma de radio R250 mm para todo tipo de plásticos
DB5000GT		Kit Cerámico Incluye: 1 Mango de doble cuchilla para plástico y cuchilla para uso en plásticos
EB1000GT		Mango ergonómico con cuchillas 3.2mm modelo E-100
EB2000GT		Mango ergonómico con cuchilla de 2.6mm modelo B10
EB3000GT		Mango ergonómico con cuuchilla GT-CR26001
EB4000GT		Mango ergonómico con cuchilla rasqueta modelo GT-D50

Kits de Rebarbado

Referencia: NB1200GT1

Set Mango para Cuchillas Tipo E (ø3.2mm)
Con 20 Cuchillas GT-E100



Referencia: SG2000GT1

Set Mango para Cuchillas
Tipo E (ø3.2 mm) y B (ø2.6 mm)
Con 11 Cuchillas GT-E100S + 11 Cuchillas GT-B105



Referencia: EL8300GT

Set Mango Telescópico
Tipo B (ø2.6 mm) con 5 Cuchillas GT-B10
y 5 Cuchillas GT-B-20



Referencia: EL8350GT

Set Mango Telescópico
Tipo E (ø3.2 mm) con 5 Cuchillas GT-E100
y 5 Cuchillas GT-E-200



Referencia: YT3000GT

Set Rasqueta y Lima Diamantada
Incluye Mango y 7 Limas/Rasquetas



Referencia: SP1010GT

Set Pro Grattec
Incluye: 1 Mango Aluminio
para Cuchillas E + 6 Cuchillas
de diferentes tipos



Referencia: CR5510GT

Set Cerámico incluye:
1 Mango
+ 5 Cuchillas GT-CR6001 (65º)
+ 5 Cuchillas GT-CR61001 (75º)



Referencia: SP1700GT

Grattec 7 Piezas: Kit con 7 Mangos
y sus 7 cuchillas y extensiones



Referencia: EL2000GT

Grattec Box: Kit Universal
con 2 Mangos, 6 Extensiones
y sus cuchillas correspondientes



Referencia: RB4000GT

Súper Set: 1 Mango Aluminio + 1 Cuchilla
GT-E100 + 1 Cuchilla GT-D50



Referencia: YT2000GT1

Set Mango para Cuchillas Tipo D
Con 1 Rasqueta Triangular GT-D75 y
GT-T80



Referencia: EB7001GT

Set de rebarbado para sistemas 3D compuesto
por los modelos:
EB1000 + EB2000 + EB3000 + EB4000

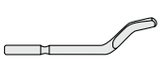


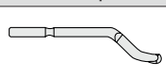
Cuchillas Grattec Tipo B (ø2.6 mm) - Pack 10 Und

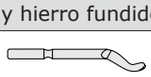
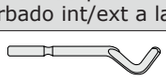
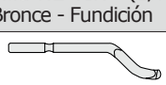
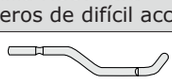
Referencia: GT-B10	Referencia: GT-B10L	Referencia: GT-B10S	Referencia: GT-B10TIN	Referencia: GT-B10D
Uso General	Uso General Izquierda	Cuchilla Cobalto M35	Cuchilla con Recubrimiento	Cuchilla Diamantada
				

Referencia: GT-B10C	Referencia: GT-B20	Referencia: GT-B20C	Referencia: GT-B30	Referencia: GT-B60
Cuchilla Metal Duro	Materiales Blandos Uso Derecha/Izquierda	Cuchilla metal duro para mat. templados y plástico	Interior y Exterior a la vez	Para zonas interiores
				

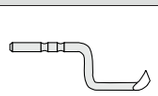
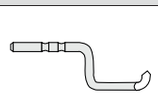
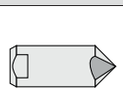
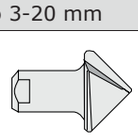
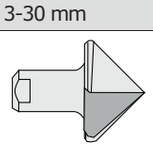
Cuchillas Grattec Tipo E (ø3.2 mm) - Pack 10 Und

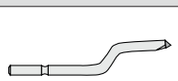
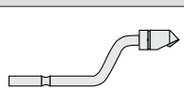
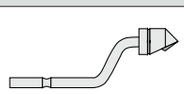
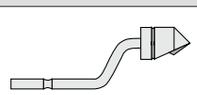
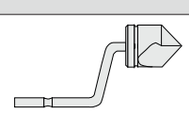
Refv erencia: GT-E100	Referencia: GT-E100L	Referencia: GT-100TIN	Referencia: GT-100D	Referencia: GT-E100C
Cuchilla E100 Uso General	Cuchilla E100-L Uso General Izquierda	Cuchilla E100-Recubierta Uso General	Cuchilla diamantada para cerámica y vidrio	Cuchilla metal duro para mat. templados y plástico
				

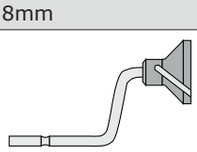
Referencia: GT-E101	Referencia: GT-E101L	Referencia: GT-E101TIN	Referencia: GT-E150	Referencia: GT-E200
Cuchilla HSS para aceros y aluminio	Cuchilla HSS para uso Izquierda/Zurdos	Cuchilla N2 *(L/R) Uso Bronce - Fundición	Cuchilla HSS Resistencia para agujeros de ø1.5mm	Cuchilla HSS Para Derechas e Izquierdas
				

Referencia: GT-E200C	Referencia: GT-E202	Referencia: GT-E300	Referencia: GT-E350	Referencia: GT-E600
Cuchilla metal duro para mat. templados y plastico	Cuchilla Hss Para latón y hierro fundido.	Cuchilla HSS para rebarbado int/ext a la vez	Cuchilla N2 TIN *(L/R) Uso Bronce - Fundición	Cuchilla HSS. Para agujeros de difícil acceso
				

Cuchillas Grattec Tipo C (Avellanado)

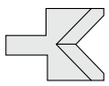
Referencia: GT-BC100	Referencia: GT-BO100	Referencia: GT-C12	Referencia: GT-C20	Referencia: GT-C30
Cuchilla interior para roscas de más de 9mm	Cuchillas Ranuras Angulo hasta 3mm de ancho	Cuchilla C12 - 90º Rango 1-12 mm	Cuchilla C20 - 90º Rango 3-20 mm	Cuchilla C30 - 90º Rango 3-30 mm
				

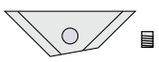
Referencia: GT-BC3200	Referencia: GT-BC6300	Referencia: GT-BC8300	Referencia: GT-BC1040	Referencia: GT-BC1650
Cuchilla HSS - 0-3mm	Cuchilla HSS - 0-6.3mm	Cuchilla HSS - 0-8.3mm	Cuchilla HSS - 0-10.4mm	Cuchilla HSS - 0-16.5 mm
				

Referencia: GT-EX2000	Referencia: GT-EX30011
Cuchilla HSS Externa 4-18mm	Cuchilla HSS Externa 8-28mm
	

NOTA: Cuchillas compatibles con los mangos de otras marcas

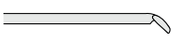
Cuchillas Grattec Tipo L - Tipo BR

Referencia: GT-L1	Referencia: GT-L3	Referencia: GT-L4	Referencia: GT-L5	Referencia: GT-L6
Cuchilla L1 Para claflán 45º	Cuchilla L3 Para Chapa 1-8 mm	Cuchilla L4 Pequeñas esquinas 2.5 mm	Cuchilla L5 Ranuras hasta 5 mm	Cuchilla L6 Limpieza esquinas
				

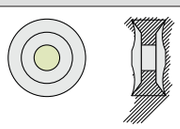
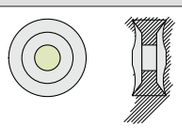
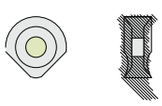
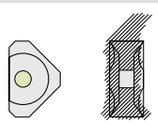
Referencia: GT-L7	Referencia: GT-BR2200	Referencia: GT-BR2000	Referencia: GT-GR1000
Cuchilla L7 Doble Ranura	Cuchilla BR2200 Para agujeros 10-22	Cuchilla BR2000 Para agujeros 5.5-10	Cuchila BR1000 Para agujeros 3-5.5
			

Cuchillas Grattec Tipo D/Tipo T (Rasquetas)

Referencia: GT-D50	Referencia: GT-D55	Referencia: GT-D75	Referencia: GT-T40	Referencia: GT-T60
Cuchilla D50 Rasqueta 3x2x50	Cuchilla GT-D55 Rasqueta Metal Duro	Cuchilla D75 Rasqueta 3.2x75	Cuchilla T40 Rasqueta 5x40	Cuchilla T60 Rasqueta 7x60
				

Referencia: GT-D66	Referencia: GT-D77	Referencia: GT-T80
Cuchilla D66 Rasqueta 3.5x50 a 45º	Cuchilla D77 Rasqueta 3.5x75 a 45º	Cuchilla T80 Rasqueta Doble 80x4.5
		

Cuchillas Grattec Tipo N

Referencia: GT-N80	Referencia: GT-N80M42	Referencia: GT-N80K	Referencia: GT-N80KM42	Referencia: GT-N90K
Cuchilla N80	Cuchilla N80M42	Cuchilla N80K	Cuchilla N80KM42	Cuchilla N90K
				

Cuchillas Grattec Tipo CR

Referencia: GT-CR22001	Referencia: GT-CR25001	Referencia: GT-CR51001	Referencia: GT-CR60001	Referencia: GT-CR61001
Cuchilla Cerámica CR22001	Cuchilla Cerámica CR25001	Cuchilla Cerámica CR51001	Cuchilla Cerámica CR6001	Cuchilla Cerámica CR61001
				

Referencia: GT-CR2600
Cuchilla Cerámica CR2600


NOTA: Cuchillas compatibles con los mangos de otras marcas

Mangos Grattec

Referencia		Descripción
YT1000GT		Mango para Cuchillas tipo Rasqueta
NB1000GT		Mango para Cuchillas tipo E (ø3.2 mm)
SG3000GT		Mango para Cuchillas tipo E (ø3.2 mm) y B (ø2.6 mm)
EL5000GT		Mango para Cuchillas GT-CR6001 y GT-CR6101
EL2100GT		Mango para Cuchillas Tipo E (ø3.2 mm) con almacén interior de cuchillas
EL1000GT		Mango para Cuchillas de todo tipo, libre para poner cualquier adaptador y con almacén interior de cuchillas
EB1000GT		Mango para Cuchillas de todo tipo, y recambio del kit EB7001GT

Mangos compatibles con las cuchillas de otras marcas

Soportes Magnéticos HOLDTEC



Con ajuste fino superior **Con ajuste fino en la base magnética**

Sistema mecánico con bloque en todas las articulaciones a través de la rueda central.

Referencia	D	L1	L2	L1+L2+L3	N	W x L x H	Ajuste Fino
HT2100	M-5	80	50	201	320	30 X 40 X 35	Superior
HT3200	M-8	110	80	261	800	50 X 60 X 55	Superior
HT4300	M-8	140	110	321	800	50 X 60 X 55	Superior
HT2110	M-5	80	50	152	320	30 X 40 X 35	Base
HT3210	M-8	110	80	212	800	50 X 60 X 55	Base
HT4310	M-8	140	110	272	800	50 X 60 X 55	Base

Sistemas de Recogevirutas HOOKY

Referencia:	Descripción	Referencia:	
SP2510GT	Modelo Gancho Longitud: 300 mm	SP2730GT	Modelo con Pala Longitud: 300 mm
SP2560GT	Modelo Gancho Longitud: 500 mm	SP2740GT	Modelo con Pala Longitud: 500 mm

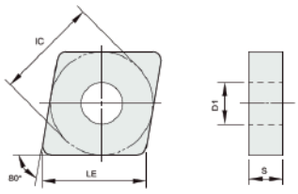




Referencia:	SP2600GT
Pala de recambio para recogevirutas	

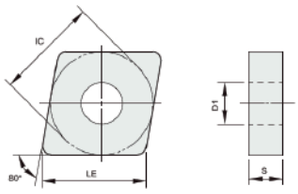


Placas Torneado – CN...



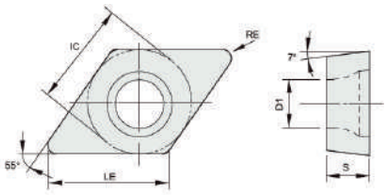
Modelo		Dimensiones					P	P	P	P	P	M	M	M	M	K	K	K	S
		LE	IC	S	D1	Radio	OC2015	OC2025	OC2115	OC2125	OC2325	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105
	**Acabado Fino Aceros**																		
	CNMG120404-OPF	12,9	12,7	4,76	5,16	0,4			▲	•									
	CNMG120408-OPF	12,9	12,7	4,76	5,16	0,8			▲	•									
	**Acabado Fino Inox**																		
	CNMG120404-OMF	12,9	12,7	4,76	5,16	0,4						•	•	▲	•				
	CNMG120408-OMF	12,9	12,7	4,76	5,16	0,8						•	•	▲	•				
	**Acabado Fino Inox**																		
	CNMG090304-MSF	9,7	9,525	3,18	3,81	0,4						•	•	▲	•				
	CNMG120404-MSF	12,9	12,7	4,76	5,16	0,4						•	•	▲	•				
	**Desbaste Medio Acero**																		
	CNMG120404-OPM	12,9	12,7	4,76	5,16	0,4			•	▲									
	CNMG120408-OPM	12,9	12,7	4,76	5,16	0,8			•	▲									
	CNMG120412-OPM	12,9	12,7	4,76	5,16	1,2			•	▲									
	CNMG120416-OPM	12,9	12,7	4,76	5,16	1,6			•	▲									
	CNMG160608-OPM	16,1	15,875	6,35	6,35	0,8			•	▲									
	CNMG160612-OPM	16,1	15,875	6,35	6,35	1,2			•	▲									
	CNMG160616-OPM	16,1	15,875	6,35	6,35	1,6			•	▲									
	CNMG190608-OPM	19,3	19,05	6,35	7,94	0,8			•	▲									
	**Desbaste Fuerte Acero / Inox**																		
	CNMG120404-OMM	12,9	12,7	4,76	5,16	0,4				•		•	•	▲	•				
	CNMG120408-OMM	12,9	12,7	4,76	5,16	0,8				•		•	•	▲	•				
	CNMG160608-OMM	16,1	15,875	6,35	6,35	0,8				•		•	•	▲	•				
	**Desbaste Medio Inox**																		
	CNMG090308-MF	9,7	9,525	3,18	3,81	0,8						•	•	▲	•				
	CNMG120408-MF	12,9	12,7	4,76	5,16	0,8						•	•	▲	•				
	CNMG120412-MF	12,9	12,7	4,76	5,16	1,2						•	•	▲	•				
	CNMG160612-MF	16,1	15,875	6,35	6,35	1,6													
	**Materiales Especiales**																		
	CNMG120404-OSM	12,9	12,7	4,76	5,16	0,4													•
	CNMG120408-OSM	12,9	12,7	4,76	5,16	0,8													•
	CNMG120412-OSM	12,9	12,7	4,76	5,16	1,2													•

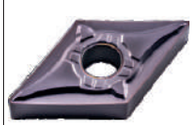
Placas Torneado – CN...



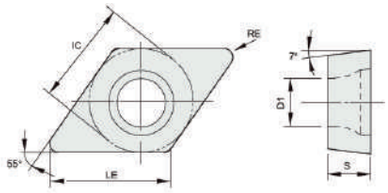
Modelo		Dimensiones					P	P	P	P	P	M	M	M	M	K	K	K	S
		LE	IC	S	D1	Radio	OC2015	OC2025	OC2115	OC2125	OC2325	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105
	**Desbaste Acero/Fundición**																		
	CNMG120408-OPR	12,9	12,7	4,76	5,16	0,8		•	•	▲								•	
	CNMG120412-OPR	12,9	12,7	4,76	5,16	1,2		•	•									•	
	CNMG120416-OPR	12,9	12,7	4,76	5,16	1,6		•	•	▲								•	
	CNMG160608-OPR	16,1	15,875	6,35	6,35	0,8		•	•									•	
	CNMG160612-OPR	16,1	15,875	6,35	6,35	1,2		•	•	▲								•	
	CNMG160616-OPR	16,1	15,875	6,35	6,35	1,6		•	•									•	
	CNMG190608-OPR	19,3	19,05	6,35	7,94	0,8		•	•	▲								•	
	CNMG190612-OPR	19,3	19,05	6,35	7,94	1,2		•	•									•	
	CNMG190616-OPR	19,3	19,05	6,35	7,94	1,6		•	•	▲								•	
	**Desbaste Acero / Fundición**																		
	CNMG190616-PR	19,3	19,05	6,35	7,94	1,6		•	•	▲								•	
	**Placa Neutra Acero / Fundición**																		
	CNMG120404	12.9	12.7	4.76	5.16	0.4		•	•	•							•	▲	•	
	CNMG120408	12.9	12.7	4.76	5.16	0.8		•	•	•							•	▲	•	
	CNMG120412	12.9	12.7	4.76	5.16	1.2		•	•	•							•	▲	•	
	CNMG160608	16.1	15.875	6.35	6.35	0.8		•	•	•							•	▲	•	
	CNMG160612	16.1	15.875	6.35	6.35	1.2		•	•	•							•	▲	•	
	CNMG160616	16.1	15.875	6.35	6.35	1.6		•	•	•							•	▲	•	
	CNMG190608	19.3	19.05	6.35	7.94	0.8		•	•	•							•	▲	•	
	CNMG190612	19.3	19.05	6.35	7.94	1.2		•	•	•							•	▲	•	
	CNMG190616	19.3	19.05	6.35	7.94	1.6		•	•	•							•	▲	•	
	**Placa Neutra Fundición**																		
	CNMA120404	12.9	12.7	4.76	5.16	0.4											•	▲	•	
	CNMA120408	12.9	12.7	4.76	5.16	0.8											•	▲	•	
	CNMA120412	12.9	12.7	4.76	5.16	1.2											•	▲	•	
	CNMA120416	12.9	12.7	4.76	5.16	1.6											•	▲	•	
	CNMA160608	16.1	15.875	6.35	6.35	0.8											•	▲	•	
	CNMA160612	16.1	15.875	6.35	6.35	1.2											•	▲	•	
	CNMA160616	16.1	15.875	6.35	6.35	1.6											•	▲	•	
	CNMA160620	16.1	15.875	6.35	6.35	2.0											•	▲	•	
	CNMA160630	16.1	15.875	6.35	6.35	3.0											•	▲	•	
	CNMA190612	19.3	15.875	6.35	7.94	1.2											•	▲	•	
	CNMA190616	19.3	15.875	6.35	7.94	1.6											•	▲	•	

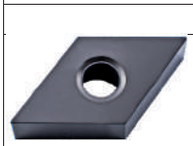
Placas Torneado – DN...



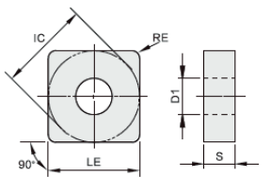
Modelo		Dimensiones					P	P	P	P	P	M	M	M	M	K	K	K	S
		LE	IC	S	D1	Radio	OC2015	OC2025	OC2115	OC2125	OC2325	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105
	**Acabado Fino Aceros**																		
	DNMG110404-OPF	11.6	9.525	4.76	3.81	0.4		▲	•										
	DNMG110408-OPF	11.6	9.525	4.76	3.81	0.8		▲	•										
	DNMG150404-OPF	15.5	12.7	4.76	5.16	0.4		▲	•										
	DNMG150408-OPF	15.5	12.7	4.76	5.16	0.8		▲	•										
	DNMG150604-OPF	15.5	12.7	6.35	5.16	0.4		▲	•										
	DNMG150608-OPF	15.5	12.7	6.35	5.16	0.8		▲	•										
	**Acabado Fino Inox**																		
	DNMG110404-MSF	11.6	9.525	4.76	3.81	0.4						•	▲	•					
	DNMG150404-MSF	15.5	12.7	4.76	5.16	0.4						•	▲	•					
	**Desbaste Fino Inox**																		
	DNMG150604-OMF	15.5	12.7	6.35	5.16	0.4						•	▲	•					
	DNMG150608-OMF	15.5	12.7	6.35	5.16	0.8						•	▲	•					
	**Desbaste Medio Acero - Fundición**																		
	DNMG110404-OPM	11.6	9.525	4.76	3.81	0.4		•	▲										
	DNMG110408-OPM	11.6	9.525	4.76	3.81	0.8		•	▲										
	DNMG110412-OPM	11.6	9.525	4.76	3.81	1.2		•	▲								•		
	DNMG150404-OPM	15.5	12.7	4.76	5.16	0.4		•	▲								•		
	DNMG150408-OPM	15.5	12.7	4.76	5.16	0.8		•	▲								•		
	DNMG150412-OPM	15.5	12.7	4.76	5.16	1.2		•	▲								•		
	DNMG150604-OPM	15.5	12.7	6.35	5.16	0.4		•	▲								•		
	DNMG150608-OPM	15.5	12.7	6.35	5.16	0.8		•	▲								•		
	DNMG150612-OPM	15.5	12.7	6.35	5.16	1.2		•	▲								•		
	**Desbaste Acero - Inox**																		
	DNMG110404-OMM	11.6	9.525	4.76	3.81	0.4			•	▲		•	▲	•					
	DNMG110408-OMM	11.6	9.525	4.76	3.81	0.8			•	▲		•	▲	•					
	DNMG150404-OMM	15.5	12.7	4.76	5.16	0.4			•	▲		•	▲	•					
	DNMG150408-OMM	15.5	12.7	4.76	5.16	0.8			•	▲		•	▲	•					
	DNMG150604-OMM	15.5	12.7	6.35	5.16	0.4			•	▲		•	▲	•					
	DNMG150608-OMM	15.5	12.7	6.35	5.16	0.8			•	▲		•	▲	•					
	**Desbaste Medio Acero - Inox**																		
	DNMG110408-MF	11.6	9.525	4.76	3.81	0.8				•		•	•	▲	•				
	DNMG150408-MF	15.5	12.7	4.76	5.16	0.8				•		•	•	▲	•				
	DNMG150608-MF	15.5	12.7	6.35	5.16	0.8				•		•	•	▲	•				

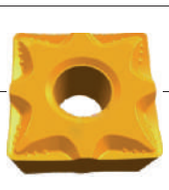
Placas Torneado – DN...



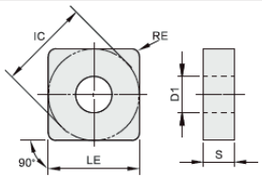
Modelo		Dimensiones					P	P	P	P	P	M	M	M	M	K	K	K	S
		LE	IC	S	D1	Radio	OC2015	OC2025	OC2115	OC2125	OC2325	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105
	**Desbaste Acero**																		
	DNMG150408-OPR	15.5	12.7	4.76	5.16	0.8		•	•	▲									
	DNMG150412-OPR	15.5	12.7	4.76	5.16	1.2		•	•	▲									
	DNMG150608-OPR	15.5	12.7	6.35	5.16	0.8		•	•	▲									
	DNMG150612-OPR	15.5	12.7	6.35	5.16	1.2		•	•	▲									
	DNMG150616-OPR	15.5	12.7	6.35	5.16	1.6		•	•	▲									
	**Placa Neutra Acero - Fundición**																		
	DNMG150604	15.5	12.7	6.35	5.16	0.4			•	•						•	▲	•	
	DNMG150608	15.5	12.7	6.35	5.16	0.8			•	•						•	▲	•	
	DNMG150612	15.5	12.7	6.35	5.16	1.2			•	•						•	▲	•	
	DNMG190608	19.3	15.9	6.35	7.94	0.8			•	•						•	▲	•	
	DNMG190612	19.3	15.9	6.35	7.94	1.2			•	•						•	▲	•	
	**Placa Neutra Fundición**																		
	DNMA110416	11.6	9.525	4.76	3.81	1.6										•	▲	•	
	DNMA150404	15.5	12.7	4.76	5.16	0.4										•	▲	•	
	DNMA150408	15.5	12.7	4.76	5.16	0.8										•	▲	•	
	DNMA150604	15.5	12.7	6.35	5.16	0.4										•	▲	•	
	DNMA150608	15.5	12.7	6.35	5.16	0.8										•	▲	•	
	DNMA150612	15.5	12.7	6.35	5.16	1.2										•	▲	•	
	DNMA150616	15.5	12.7	6.35	5.16	1.6										•	▲	•	

Placas Torneado – SN...



Modelo		Dimensiones					P	P	P	P	P	M	M	M	M	K	K	K	S
		LE	IC	S	D1	Radio	OC2015	OC2025	OC2115	OC2125	OC2325	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105
	**Acabado Fino Aceros**																		
	SNMG120404-OPF	12.7	12.7	4.76	5.16	0.4		▲	•										
	SNMG120408-OPF	12.7	12.7	4.76	5.16	0.8		▲	•										
	**Desbaste Fino Inox**																		
	SNMG120408-OMF	12.7	12.7	4.76	5.16	0.8						•	•	▲	▲				

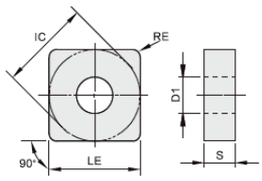
Placas Torneado – SN...

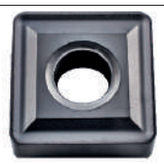


Modelo		Dimensiones					P	P	P	P	P	M	M	M	M	K	K	K	S
		LE	IC	S	D1	Radio	OC2015	OC2025	OC2115	OC2125	OC2325	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105
	Desbaste Medio Acero - Fundición																		
	SNMG120404-OPM	12.7	12.7	4.76	5.16	0.4			•	▲							•		
	SNMG120408-OPM	12.7	12.7	4.76	5.16	0.8			•	▲							•		
	SNMG120412-OPM	12.7	12.7	4.76	5.16	1.2			•	▲							•		
	SNMG150608-OPM	15.9	15.9	6.35	6.35	0.8			•	▲							•		
	SNMG150612-OPM	15.9	15.9	6.35	6.35	1.2			•	▲							•		
	SNMG190612-OPM	19.1	19.1	6.35	7.94	1.2			•	▲							•		
	**Desbaste Medio Inox**											•	•	▲	•				
	SNMG120404-OMM	12.7	12.7	4.76	5.16	0.4						•	•	▲	•				
	SNMG120408-OMM	12.7	12.7	4.76	5.16	0.8						•	•	▲	•				
	SNMG120412-OMM	12.7	12.7	4.76	5.16	1.2						•	•	▲	•				
	SNMG150608-OMM	15.9	15.9	6.35	6.35	1.2						•	•	▲	•				
	**Desbaste Medio Inox**																		
	SNMG120408-MF	12.7	12.7	4.76	5.16	0.8						•	•	▲	•				
	**Materiales Especiales**																		
	SNMG120408-OSM	12.7	12.7	4.76	5.16	0.8													•
	**Desbaste**																		
	SNMG120408-OPR	12.7	12.7	4.76	5.16	0.8		•	•	▲									
	SNMG120412-OPR	12.7	12.7	4.76	5.16	1.2		•	•	▲									
	SNMG150608-OPR	15.9	15.9	6.35	6.35	0.8		•	•	▲									
	SNMG150612-OPR	15.9	15.9	6.35	6.35	1.2		•	•	▲									
	SNMG190612-OPR	19.1	19.1	6.35	7.94	1.2		•	•	▲									
	SNMG190616-OPR	19.1	19.1	6.35	7.94	1.6		•	•	▲									

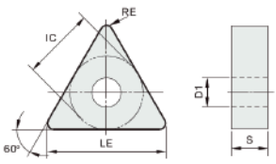
Modelo		Dimensiones					P	P	P	P	P	M	M	M	M	K	K	K	S
		LE	IC	S	D1	Radio	OC2025	OC2115	OC2125	OC2315	OC2325	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105
	**Gran Desbaste (1 Cara)**																		
	SNMM190624-PR/YR	19.05	19.05	6.35	7.94	2.4				•									
	SNMM250924-PR/YR	25.4	25.4	9.52	9.13	2.4				•									

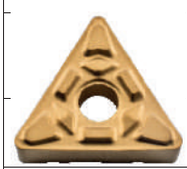
Placas Torneado – SN...



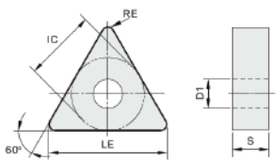
Modelo		Dimensiones					P	P	P	P	P	M	M	M	M	K	K	K	S
		LE	IC	S	D1	Radio	OC2015	OC2025	OC2115	OC2125	OC2325	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105
	Placa Neutra Acero - Fundición																		
	SNMG090304	9.525	9.525	3.18	3.81	0.4					•								
	SNMG090308	9.525	9.525	3.18	3.81	0.8					•								
	SNMG120404	12.7	12.7	4.76	5.16	0.4					•								
	SNMG120408	12.7	12.7	4.76	5.16	0.8					•								
	SNMG120412	12.7	12.7	4.76	5.16	1.2					•								
	SNMG120416	12.7	12.7	4.76	5.16	1.6					•								
	SNMG150608	15.9	15.9	6.35	6.35	0.8					•								
	SNMG150612	15.9	15.9	6.35	6.35	1.2					•								
	SNMG190612	19.1	19.1	6.35	7.94	1.2			•	•	▲								
	SNMG190616	19.1	19.1	6.35	7.94	1.6			•	•	▲								
	SNMG250724	25.4	25.4	7.94	9.12	2.4			•	•	▲								
	SNMG250924	25.4	25.4	9.525	9.12	2.4			•	•	▲								
	Placa Neutra Fundición																		
	SNMA120408	12.7	12.7	4.76	5.16	0.8											▲	•	
	SNMA120412	12.7	12.7	4.76	5.16	1.2											▲	•	
	SNMA120416	12.7	12.7	4.76	5.16	1.6											▲	•	
	SNMA150608	15.9	15.9	6.35	6.35	0.8											▲	•	
	SNMA150612	15.9	15.9	6.35	6.35	1.2											▲	•	
	SNMA190612	19.1	19.1	6.35	7.94	1.2											•	•	
	SNMA190616	19.1	19.1	6.35	7.94	1.6											•	•	

Placas Torneado – TN...



Modelo		Dimensiones					P	P	P	P	P	M	M	M	M	K	K	K	S
		LE	IC	S	D1	Radio	OC2015	OC2025	OC2115	OC2125	OC2325	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105
	Acabado Fino Aceros																		
	TNMG160404-OPF	16.5	9.525	4.76	3.81	0.4			▲	•	▲								
	TNMG160408-OPF	16.5	9.525	4.76	3.81	0.8			▲	•	▲								
	Desbaste Fino Inox																		
	TNMG160404-OMF	16.5	9.525	4.76	3.81	0.4						•	•	▲	•				
	TNMG160408-OMF	16.5	9.525	4.76	3.81	0.8						•	•	▲	•				

Placas Torneado – TN...

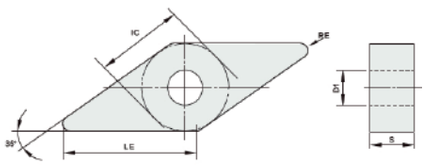


Modelo		Dimensiones					P	P	P	P	P	M	M	M	M	K	K	K	S
		LE	IC	S	D1	Radio	OC2015	OC2025	OC2115	OC2125	OC2325	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105
	**Acabado Fino Inox**																		
	TNMG160404-MSF	16.5	9.525	4.76	3.81	0.4						•	•	▲	•				
	**Desbaste Medio Acero - Fundición**																		
	TNMG160404-OPM	16.5	9.525	4.76	3.81	0.4			•	▲	▲						•		
	TNMG160408-OPM	16.5	9.525	4.76	3.81	0.8			•	▲	▲						•		
	TNMG160412-OPM	16.5	9.525	4.76	3.81	1.2			•	▲	▲						•		
	TNMG220404-OPM	22	12.7	4.76	5.16	0.4			•	▲	▲						•		
	TNMG220408-OPM	22	12.7	4.76	5.16	0.8			•	▲	▲						•		
	TNMG220412-OPM	22	12.7	4.76	5.16	1.2			•	•	▲						•		
	TNMG220416-OPM	22	12.7	4.76	5.16	1.6			•	•	▲						•		
	**Desbaste Medio Acero - Inox**																		
	TNMG160404-OMM	16.5	9.525	4.76	3.81	0.4				•	▲	•	•	▲	•				
	TNMG160408-OMM	16.5	9.525	4.76	3.81	0.8				•	▲	•	•	▲	•				
	TNMG160412-OMM	16.5	9.525	4.76	3.81	1.2				•	▲	•	•	▲	•				
	TNMG220404-OMM	22	12.7	4.76	5.16	1.2				•	▲	•	•	▲	•				
	TNMG220408-OMM	22	12.7	4.76	5.16	0.8				•	▲	•	•	▲	•				
	TNMG220412-OMM	22	12.7	4.76	5.16	1.2				•	▲	•	•	▲	•				
	**Desbaste Medio Inox**																		
	TNMG160404-MF	16.5	9.525	4.76	3.81	0.4						•	•	▲	•				
	TNMG160408-MF	16.5	9.525	4.76	3.81	0.8						•	•	▲	•				
	TNMG160412-MF	16.5	9.525	4.76	3.81	1.2						•	•	▲	•				
	**Desbaste Acero - Fundición**																		
	TNMG160404-OPR	16.5	9.525	4.76	3.81	0.4		•	•	▲	▲						•		
	TNMG160408-OPR	16.5	9.525	4.76	3.81	0.8		•	•	▲	▲						•		
	TNMG160412-OPR	16.5	9.525	4.76	3.81	1.2		•	•	▲	▲						•		
	TNMG220408-OPR	22	12.7	4.76	5.16	0.8		•	•	▲	▲						•		
	TNMG220412-OPR	22	12.7	4.76	5.16	1.2		•	•	▲	▲						•		
	TNMG220416-OPR	22	12.7	4.76	5.16	1.6		•	•	▲	▲						•		
	TNMG270612-OPR	27.5	15.9	6.35	6.35	1.2		•	•	▲	▲						•		
	**Placa Neutra Acero - Fundición**																		
	TNMG160408	16.5	9.525	4.76	3.81	0.8		•	•	▲	▲					•	▲	•	
	TNMG160412	16.5	9.525	4.76	3.81	1.2		•	•	▲	▲					•	▲	•	
	TNMG220404	22	12.7	4.76	5.16	0.4		•	•	▲	▲					•	▲	•	
	TNMG220408	22	12.7	4.76	5.16	0.8		•	•	▲	▲					•	▲	•	
	TNMG220412	22	12.7	4.76	5.16	1.2		•	•	▲	▲					•	▲	•	
	TNMG220416	22	12.7	4.76	5.16	1.6		•	•	▲	▲					•	▲	•	

Placas Torneado – TN...

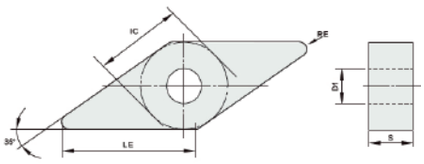
Modelo		Dimensiones					P	P	P	P	P	M	M	M	M	K	K	K	S
		LE	IC	S	D1	Radio	OC2015	OC2025	OC2115	OC2125	OC2325	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105
	**Placa Neutra Fundición**																		
	TNMA160404	16.5	9.525	4.76	3.81	0.4										•	▲	•	
	TNMA160408	16.5	9.525	4.76	3.81	0.8										•	▲	•	
	TNMA160412	16.5	9.525	4.76	3.81	1.2										•	▲	•	
	TNMA160416	16.5	9.525	4.76	3.81	1.6										•	▲	•	
	TNMA220404	22	12.7	4.76	5.16	0.4										•	▲	•	
	TNMA220408	22	12.7	4.76	5.16	0.8										•	▲	•	
	TNMA220412	22	12.7	4.76	5.16	1.2										•	▲	•	
	TNMA220416	22	12.7	4.76	5.16	1.6										•	▲	•	
	**Placa Positiva Fina**																		
	TNMG160404L-ZC	16.5	9.525	4.76	3.81	0.4		•	•	•	•				•				
	TNMG160404R-ZC	16.5	9.525	4.76	3.81	0.8		•	•	•	•				•				
	TNMG160408L-ZC	16.5	9.525	4.76	3.81	0.4		•	•	•	•				•				
	TNMG160408R-ZC	16.5	9.525	4.76	3.81	0.8		•	•	•	•				•				

Placas Torneado – VN...



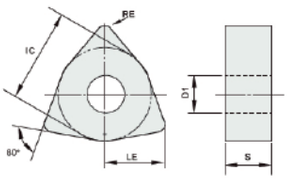
Modelo		Dimensiones					P	P	P	P	P	M	M	M	M	K	K	K	S
		LE	IC	S	D1	Radio	OC2015	OC2025	OC2115	OC2125	OC2325	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105
	**Acabado Fino Aceros**																		
	VNMG160404-OPF	16.6	9.525	4.76	3.81	0.4			▲	•	▲								
	VNMG160408-OPF	16.6	9.525	4.76	3.81	0.8			▲	•	▲								
	**Desbaste Medio Acero - Fundición**																		
	VNMG160404-OPM	16.6	9.525	4.76	3.81	0.4			•	▲	▲						•		
	VNMG160408-OPM	16.6	9.525	4.76	3.81	0.8			•	▲	▲						•		
	VNMG160412-OPM	16.6	9.525	4.76	3.81	1.2			•	▲	▲						•		
	**Desbaste Medio Inox**																		
	VNMG160404-MSF	16.6	9.525	4.76	3.81	0.4						•	•	▲	•				
	**Desbaste Medio Acero - Inox**																		
	VNMG160404-OMM	16.6	9.525	4.76	3.81	0.4				•	▲	•	•	▲	•				
	VNMG160408-OMM	16.6	9.525	4.76	3.81	0.8				•	▲	•	•	▲	•				
	**Desbaste Acero - Fundición**																		
	VNMG160408-OPR	16.6	9.525	4.76	3.81	0.4		•	•	▲	▲						•		
	VNMG160412-OPR	16.6	9.525	4.76	3.81	0.8		•	•	▲	▲						•		

Placas Torneado – VN...



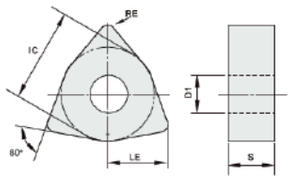
Modelo	Dimensiones					P	P	P	P	P	M	M	M	M	K	K	K	S
	LE	IC	S	D1	Radio	OC2015	OC2025	OC2115	OC2125	OC2325	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105
Desbaste Medio Inox																		
VNMG160408-MF	16.6	9.525	4.76	3.81	0.8						•	•	▲	•				
Placa Neutra Acero - Fundición																		
VNMG160404	16.6	9.525	4.76	3.81	0.4		•	•							•	▲	•	
VNMG160408	16.6	9.525	4.76	3.81	0.8		•	•							•	▲	•	
Placa Neutra Fundición																		
VNMA160404	16.6	9.525	4.76	3.81	0.4										•	▲	•	
VNMA160408	16.6	9.525	4.76	3.81	0.8										•	▲	•	

Placas Torneado – WN...



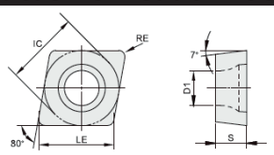
Modelo	Dimensiones					P	P	P	P	P	M	M	M	M	K	K	K	S
	LE	IC	S	D1	Radio	OC2015	OC2025	OC2115	OC2125	OC2325	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105
Acabado Fino Aceros																		
WNMG060404-OPF	6.5	9.525	3.97	3.81	0.4			▲	•	▲								
WNMG060408-OPF	6.5	9.525	3.97	3.81	0.8			▲	•	▲								
WNMG080404-OPF	8.7	12.7	4.76	5.16	0.8			▲	•	▲								
WNMG080408-OPF	8.7	12.7	4.76	5.16	1.2			▲	•	▲								
Desbaste Fino Inox																		
WNMG060408-OMF	6.5	9.525	4.76	3.81	0.8						•	•	▲	•				
WNMG080404-OMF	8.7	12.7	4.76	5.16	0.4						•	•	▲	•				
WNMG080408-OMF	8.7	12.7	4.76	5.16	0.8						•	•	▲	•				
Acabado Fino Inox																		
WNMG060304-MSF	6.5	9.525	3.18	3.81	0.4						•	•	▲	•				
WNMG060404-MSF	6.5	9.525	4.76	3.81	0.4						•	•	▲	•				
WNMG080404-MSF	8.7	12.7	4.76	5.16	0.4						•	•	▲	•				

Placas Torneado – WN...



Modelo		Dimensiones					P	P	P	P	P	M	M	M	M	K	K	K	S
		LE	IC	S	D1	Radio	OC2015	OC2025	OC2115	OC2125	OC2325	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105
	Desbaste Medio Acero - Fundición																		
	WNMG060408-OPM	6.5	9.525	4.76	3.81	0.4			•	▲	▲						•		
	WNMG080404-OPM	8.7	12.7	4.76	5.16	0.4			•	▲	▲						•		
	WNMG080408-OPM	8.7	12.7	4.76	5.16	0.8			•	▲	▲						•		
	WNMG080412-OPM	8.7	12.7	4.76	5.16	1.2			•	▲	▲						•		
	Desbaste Medio Acero - Inox																		
	WNMG060408-OMM	6.5	9.525	4.76	3.81	0.8				•		•	•	▲	•				
	WNMG060412-OMM	6.5	9.525	4.76	3.81	1.2				•		•	•	▲	•				
	WNMG080404-OMM	8.7	12.7	4.76	5.16	0.4				•		•	•	▲	•				
	WNMG080408-OMM	8.7	12.7	4.76	5.16	0.8				•		•	•	▲	•				
	WNMG080412-OMM	8.7	12.7	4.76	5.16	1.2				•		•	•	▲	•				
	Desbaste Medio Inox																		
	WNMG060408-MF	6.5	9.525	4.76	3.81	0.8						•	•	▲	•				
	WNMG080408-MF	8.7	12.7	4.76	5.16	0.8						•	•	▲	•				
	WNMG080412-MF	8.7	12.7	4.76	5.16	1.2						•	•	▲	•				
	Desbaste Acero - Fundición																		
	WNMG080408-OPR	8.7	12.7	4.76	5.16	0.8		•	•	▲	▲						•		
	WNMG080412-OPR	8.7	12.7	4.76	5.16	1.2		•	•	▲	▲						•		
	Placa Neutra Acero - Fundición																		
	WNMG080404	8.7	12.7	4.76	5.16	0.4		•	•	•	▲					•	▲	•	
	WNMG080408	8.7	12.7	4.76	5.16	0.8		•	•	•	▲					•	▲	•	
	WNMG080412	8.7	12.7	4.76	5.16	1.2		•	•	•	▲					•	▲	•	
	Placa Neutra Fundición																		
	WNMA060404	6.5	9.525	4.76	3.81	0.4										•	▲	•	
	WNMA060412	6.5	9.525	4.76	3.81	1.2										•	▲	•	
	WNMA080408	8.7	12.7	4.76	5.16	0.8										•	▲	•	
	WNMA080412	8.7	12.7	4.76	5.16	1.2										•	▲	•	
	WNMA080416	8.7	12.7	4.76	5.16	1.6										•	▲	•	

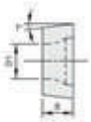
Placas Torneado – CC...



Modelo		Dimensiones					P	P	P	P	P	M	M	M	M	K	K	K	S
		LE	IC	S	D1	Radio	OC2015	OC2025	OC2115	OC2125	OC2325	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105
	Acabado Fino Acero - Inox																		
	CCMT060202-OTF	6.4	6.35	2.38	2.8	0.2			▲	•	▲			▲	•				
	CCMT060204-OTF	6.4	6.35	2.38	2.8	0.4			▲	•	▲			▲	•				
	CCMT09T302-OTF	9.7	9.525	3.97	4.4	0.2			▲	•	▲			▲	•				
	CCMT09T304-OTF	9.7	9.525	3.97	4.4	0.4			▲	•	▲			▲	•				
	CCMT09T308-OTF	9.7	9.525	3.97	4.4	0.8			▲	•	▲			▲	•				
	CCMT120404-OTF	12.9	12.7	4.76	5.56	0.4			▲	•	▲			▲	•				
	CCMT120408-OTF	12.9	12.7	4.76	5.56	0.8			▲	•	▲			▲	•				
	Semi-Acabado-Desbaste Acero - Inox - Fundición																		
	CCMT060204-OTM	6.4	6.35	2.38	2.8	0.4			•	▲	▲			•	•		•		
	CCMT060208-OTM	6.4	6.35	2.38	2.8	0.8			•	▲	▲			•	•		•		
	CCMT09T304-OTM	9.7	9.525	3.97	4.4	0.4			•	▲	▲			•	•		•		
	CCMT09T308-OTM	9.7	9.525	3.97	4.4	0.8			•	▲	▲			•	•		•		
	CCMT120404-OTM	12.9	12.7	4.76	5.56	0.4			•	▲	▲			•	•		•		
	CCMT120408-OTM	12.9	12.7	4.76	5.56	0.8			•	▲	▲			•	•		•		
	CCMT120412-OTM	12.9	12.7	4.76	5.56	1.2			•	▲	▲			•	•		•		
	Acabado Inox																		
	CCMT060202-MSF	6.4	6.35	2.38	2.8	0.4							•	▲	•				
	CCMT060204-MSF	9.7	9.525	3.97	4.4	0.4							•	▲	•				
	CCMT09T304-MSF	9.7	9.525	3.97	4.4	0.8							•	▲	•				
	CCMT09T308-MSF	12.9	12.7	4.76	5.56	0.4							•	▲	•				
	CCMT120404-MSF	12.9	12.7	4.76	5.56	0.8							•	▲	•				
	Desbaste Acero - Fundición																		
	CCMT060208-OTR	6.4	6.35	2.38	2.8	0.8			•	▲	▲						▲	•	
	CCMT09T304-OTR	9.7	9.525	3.97	4.4	0.4			•	▲	▲						▲	•	
	CCMT09T308-OTR	9.7	9.525	3.97	4.4	0.8			•	▲	▲						▲	•	
	CCMT120408-OTR	12.9	12.7	4.76	5.56	0.8			•	▲	▲						▲	•	
	CCMT120412-OTR	12.9	12.7	4.76	5.56	1.2			•	▲	▲						▲	•	

Placas Torneado – DC...

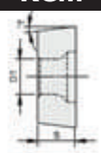




Modelo		Dimensiones					P	P	P	P	P	M	M	M	M	K	K	K	S
		LE	IC	S	D1	Radio	OC2015	OC2025	OC2115	OC2125	OC2325	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105
	**Acabado Fino Acero - Inox**																		
	DCMT070202-OTF	7.8	6.35	2.38	2.8	0.2			▲	•	▲			▲	•				
	DCMT070204-OTF	7.8	6.35	2.38	2.8	0.4			▲	•	▲			▲	•				
	DCMT070208-OTF	7.8	6.35	2.38	2.8	0.8			▲	•	▲			▲	•				
	DCMT11T302-OTF	11.6	9.525	3.97	4.4	0.2			▲	•	▲			▲	•				
	DCMT11T304-OTF	11.6	9.525	3.97	4.4	0.4			▲	•	▲			▲	•				
	DCMT11T308-OTF	11.6	9.525	3.97	4.4	0.8			▲	•	▲			▲	•				
	**Semi-Acabado-Desbaste Acero - Inox - Fundición**																		
	DCMT070204-OTM	7.8	6.35	2.38	2.8	0.4			•	▲	▲			•	•		•		
	DCMT070208-OTM	7.8	6.35	2.38	2.8	0.8			•	▲	▲			•	•		•		
	DCMT11T304-OTM	11.6	9.525	3.97	4.4	0.4			•	▲	▲			•	•		•		
	DCMT11T308-OTM	11.6	9.525	3.97	4.4	0.8			•	▲	▲			•	•		•		
	**Desbaste Acero - Fundición**																		
	DCMT11T304-OTR	11.6	9.525	3.97	4.4	0.4			•	▲	▲						▲	•	
	DCMT11T308-OTR	11.6	9.525	3.97	4.4	0.8			•	▲	▲						▲	•	
	DCMT11T312-OTR	11.6	9.525	3.97	4.4	1.2			•	▲	▲						▲	•	

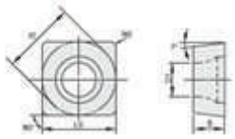
Placas Torneado – RC...





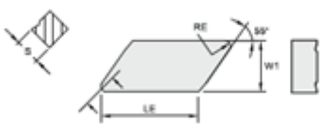
Modelo		Dimensiones					P	P	P	P	P	M	M	M	M	K	K	K	S
		LE	IC	S	D1	Radio	OC2015	OC2025	OC2115	OC2125	OC2325	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105
	**Semi-Acabado Acero - Inox**																		
	RCMT0803MO	8.0	8.0	3.18	3.36			•		▲	▲	▲							
	RCMT1606MO	16	16	6.35	5.5			•		▲	▲	▲							
	**Semi-Acabado-Desbaste Acero - Inox - Fundición**																		
	RCMX0803MO	8.0	8.0	3.2	3.36			•		▲	▲	▲					•		
	RCMX1003MO	10	10	3.18	3.6			•		▲	▲	▲					•		
	RCMX1204MO	12	12	4.76	4.4			•		▲	▲	▲					•		
	RCMX1606MO	16	16	6.35	5.5			•		▲	▲	▲					•		
	RCMX2006MO	20	20	6.35	6.5			•		▲	▲	▲					•		
	RCMX2507MO	25	25	7.94	7.2			•		▲	▲	▲					•		
	RCMX3209MO	32	32	9.52	9.5			•		▲	▲	▲					•		

Placas Torneado – SC...



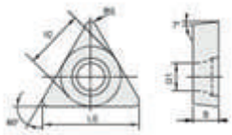
Modelo	Dimensiones					P	P	P	P	P	M	M	M	M	K	K	K	S
	LE	IC	S	D1	Radio	OC2015	OC2025	OC2115	OC2125	OC2325	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105
Acabado Fino Acero - Inox																		
SCMT09T302-OTF	9.525	9.525	3.97	4.4	0.2			▲	•	▲			▲	•				
SCMT09T304-OTF	9.525	9.525	3.97	4.4	0.4			▲	•	▲			▲	•				
SCMT09T308-OTF	9.525	9.525	3.97	4.4	0.8			▲	•	▲			▲	•				
Semi-Acabado-Desbaste Acero - Inox - Fundición																		
SCMT09T304-OTM	9.525	9.525	3.97	4.4	0.4			•	▲	▲			•	•		•		
SCMT09T308-OTM	9.525	9.525	3.97	4.4	0.8			•	▲	▲			•	•		•		
SCMT120404-OTM	12.7	12.7	4.76	5.56	0.4			•	▲	▲			•	•		•		
SCMT120408-OTM	12.7	12.7	4.76	5.56	0.8			•	▲	▲			•	•		•		
SCMT120412-OTM	12.7	12.7	4.76	5.56	1.2			•	▲	▲			•	•		•		
Desbaste Acero - Fundición																		
SCMT09T304-OTR	9.525	9.525	3.97	4.4	0.4			•	▲	▲						▲	•	
SCMT09T308-OTR	9.525	9.525	3.97	4.4	0.8			•	▲	▲						▲	•	
SCMT09T312-OTR	9.525	9.525	3.97	4.4	1.2			•	▲	▲						▲	•	
SCMT120404-OTR	12.7	12.7	4.76	5.56	0.4			•	▲	▲						▲	•	
SCMT120408-OTR	12.7	12.7	4.76	5.56	0.8			•	▲	▲						▲	•	
SCMT120412-OTR	12.7	12.7	4.76	5.56	1.2			•	▲	▲						▲	•	

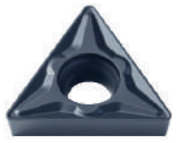
Placas Torneado – KN...



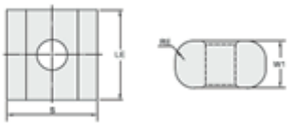
Modelo	Dimensiones					P	P	P	P	P	M	M	M	M	K	K	K	S
	LE	IC	S	D1	Radio	OC2015	OC2025	OC2115	OC2125	OC2325	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105
Semi-Acabado																		
KNUX160405L11	16.2	9.525	4.76	2.2	0.5		•		•				•				•	
KNUX160405R11	16.2	9.525	4.76	2.2	0.5		•		•				•				•	

Placas Torneado – TC...



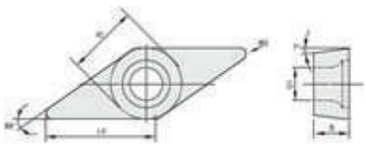
Modelo		Dimensiones					P	P	P	P	P	M	M	M	M	K	K	K	S
		LE	IC	S	D1	Radio	OC2015	OC2025	OC2115	OC2125	OC2325	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105
	**Acabado Fino Acero - Inox**																		
	TCMT110202-OTF	11	6.35	2.38	2.8	0.2			▲	•	▲			▲	•				
	TCMT110204-OTF	11	6.35	2.38	2.8	0.4			▲	•	▲			▲	•				
	TCMT16T304-OTF	16.5	9.525	3.97	4.4	0.4			▲	•	▲			▲	•				
	TCMT16T308-OTF	16.5	9.525	3.97	4.4	0.8			▲	•	▲			▲	•				
	**Semi-Acabado-Desbaste Acero - Inox - Fundición**																		
	TCMT090204-OTM	9.6	5.56	2.38	2.5	0.4			•	▲	▲			•	•		•		
	TCMT090208-OTM	9.6	5.56	2.38	2.5	0.8			•	▲	▲			•	•		•		
	TCMT110204-OTM	11	6.35	2.38	2.8	0.4			•	▲	▲			•	•		•		
	TCMT110208-OTM	11	6.35	2.38	2.8	0.8			•	▲	▲			•	•		•		
	TCMT16T304-OTM	16.5	9.525	3.97	4.4	0.4			•	▲	▲			•	•		•		
	TCMT16T308-OTM	16.5	9.525	3.97	4.4	0.8			•	▲	▲			•	•		•		
	TCMT16T312-OTM	16.5	9.525	3.97	4.4	1.2			•	▲	▲			•	•		•		
	**Desbaste Acero - Fundición**																		
	TCMT16T304-OTR	16.5	9.525	3.97	4.4	0.4			•	▲	▲						▲	•	
	TCMT16T308-OTR	16.5	9.525	3.97	4.4	0.8			•	▲	▲						▲	•	
	TCMT16T312-OTR	16.5	9.525	3.97	4.4	1.2			•	▲	▲						▲	•	
	TCMT220408-OTR	22	12.7	4.76	5.5	0.8			•	▲	▲						▲	•	

Placas Torneado – 175...



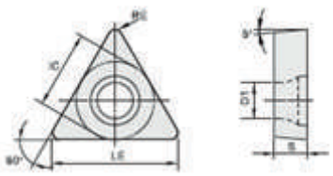
Modelo		Dimensiones					P	P	P	P	P	M	M	M	M	K	K	K	S
		LE	IC	S	D1	Radio	OC2015	OC2025	OC2115	OC2125	OC2325	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105
	**Gran Desbaste Acero**																		
	175.32-191940-22	19.1	10	19.1	6.35	4	•	•		•	▲			•				•	
	175.32-191940-24	19.1	10	19.1	6.35	4	•	•		•	▲			•				•	
	175.32-191940-28	19.1	10	19.1	6.35	4	•	•		•	▲								

Placas Torneado – VC... / VB...



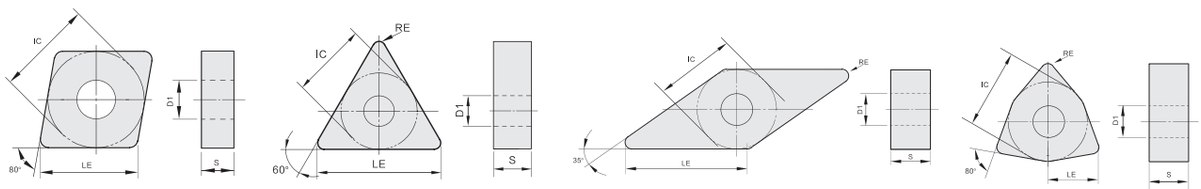
Modelo	Dimensiones					P	P	P	P	P	M	M	M	M	K	K	K	S
	LE	IC	S	D1	Radio	OC2015	OC2025	OC2115	OC2125	OC2325	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105
Acabado Fino Acero - Inox																		
VCMT110302-OTF	11	6.35	3.18	2.8	0.2			▲	●				▲	●				
VCMT110304-OTF	11	6.35	3.18	2.8	0.4			▲	●				▲	●				
VCMT160404-OTF	16.5	9.525	4.76	4.4	0.4			▲	●				▲	●				
Semi-Acabado-Desbaste Acero - Inox - Fundición																		
VCMT160404-OTM	16.5	9.525	4.76	3.81	0.4			●	▲				▲	●				
VCMT160408-OTM	16.5	9.525	4.76	3.81	0.8			●	▲				▲	●				
Desbaste Medio Materiales especiales																		
VCMT160408-OSM	16.5	9.525	4.76	4.4	0.8													●
Acabado Fino Materiales especiales																		
VCGT160408-OSF	16.5	9.525	4.76	4.4	0.8													●
Acabado Fino Acero - Inox																		
VBMT160404-OTF	16.5	9.525	4.76	4.4	0.4			▲	●	▲			▲	●				
VBMT160408-OTF	16.5	9.525	4.76	4.4	0.8			▲	●	▲			▲	●				
Semi-Acabado-Desbaste Acero - Inox - Fundición																		
VBMT110304-OTM	11	6.35	3.18	2.8	0.4			●	▲	▲			▲	●			●	
VBMT110308-OTM	11	6.35	3.18	2.8	0.8			●	▲	▲			▲	●			●	
VBMT160404-OTM	16.5	9.525	4.76	4.4	0.4			●	▲	▲			▲	●			●	
VBMT160408-OTM	16.5	9.525	4.76	4.4	0.8			●	▲	▲			▲	●			●	
VBMT160412-OTM	16.5	9.525	4.76	4.4	1.2			●	▲	▲			▲	●			●	
Desbaste Medio Materiales especiales																		
VBMT160404-OTR	16.5	9.525	4.76	4.4	1.2			●	▲	▲						▲	●	
VBMT160408-OTR	16.5	9.525	4.76	4.4	1.2			●	▲	▲						▲	●	
VBMT160412-OTR	16.5	9.525	4.76	4.4	1.2			●	▲	▲						▲	●	
Acabado Fino Materiales especiales																		
VBMT160404-OSM	16.5	9.525	4.76	4.4	1.2			●	▲	▲						▲	●	
VBMT160408-OSM	16.5	9.525	4.76	4.4	0.8			●	▲	▲						▲	●	

Placas Torneado – TB... / TP...



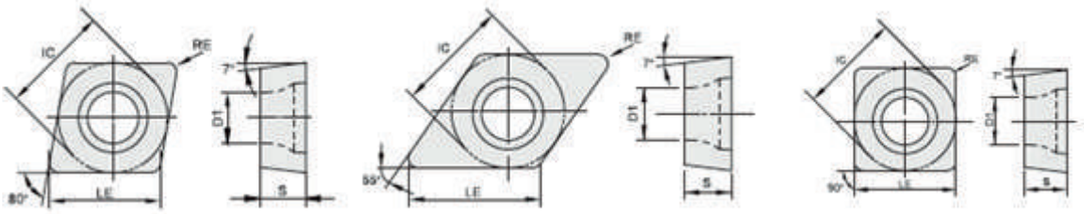
Modelo		Dimensiones					P	P	P	P	P	M	M	M	M	K	K	K	S
		LE	IC	S	D1	Radio	OC2015	OC2025	OC2115	OC2125	OK6320	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105
	**Acabados Finos**																		
	TBGH060102L	6.4	3.97	1.59	2.2	0.2					▲		•						
	TBGH060104L	6.4	3.97	1.59	2.2	0.4					▲		•						
	TBGH060202L	6.4	3.97	2.38	2.2	0.2					▲		•						
	TBGH060202R	6.4	3.97	2.38	2.2	0.2					▲		•						
	**Acabados Finos**																		
	TPGH080202L	8.2	4.76	2.38	2.4	0.2					▲		•						
	TPGH080204L	8.2	4.76	2.38	2.4	0.4					▲		•						
	TPGH090202L	9.3	5.56	2.38	2.8	0.2					▲		•						
	TPGH090204L	9.6	5.56	2.38	2.8	0.4					▲		•						
	TPGH110302L	11	6.35	3.18	3.18	0.2					▲		•						
	TPGH110304L	11	6.35	3.18	3.18	0.4					▲		•						
	TPGH11T302L	11	6.35	3.97	3.18	0.2					▲		•						
	TPGH11T302R	11	6.35	3.97	3.18	0.2					▲		•						
	TPGH11T304L	11	6.35	3.97	3.18	0.4					▲		•						

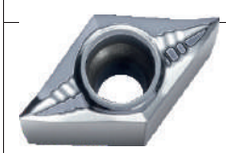
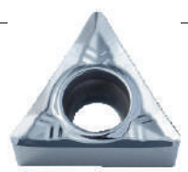
Placas de Cermet



Modelo		Dimensiones					Calidades	
		LE	ΦI.C	S	D1	RE		
	CNMG120408-SAL	12.9	12.9	4.76	5.16	0.8	OKE6210	OKE6220
	TNMG160404-SAL	16.5	9.525	4.76	3.81	0.4	OKE6210	OKE6220
	TNMG160408-SAL	16.5	9.525	4.76	3.81	0.8		
	VNMG160408-SAL	16.6	9.525	4.76	3.81	0.8	OKE6210	OKE6220
	WNMG080404-SAL	8.7	12.7	4.76	5.16	0.4	OKE6210	OKE6220
	WNMG080408-SAL	8.7	12.7	4.76	5.16	0.8		

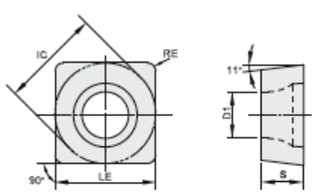
Placas de Aluminio Torneado / Fresado

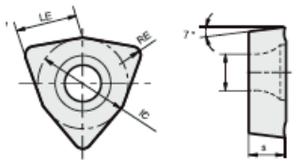


Modelo		Dimensiones					Calidad	Rompevirutas
		L	ΦI.C	S	Φd	r		
	CCGX060202-NL	6.4	6.35	2.38	2.8	0.2	OK434	**NL** Adecuado materiales de aluminio y aleaciones
	CCGX060204-NL	6.4	6.35	2.38	2.8	0.4		
	CCGX09T302-NL	9.7	9.525	3.97	4.4	0.2		
	CCGX09T304-NL	9.7	9.525	3.97	4.4	0.4		
	CCGX09T308-NL	9.7	9.525	3.97	4.4	0.8		
	CCGX120404-NL	12.9	12.7	4.76	5.56	0.4		
	CCGX120408-NL	12.9	12.7	4.76	5.56	0.8		
	DCGX070202-NL	7.8	6.35	2.38	2.8	0.2	OK434	**NL** Adecuado materiales de aluminio y aleaciones
	DCGX070204-NL	7.8	6.35	2.38	2.8	0.4		
	DCGX11T302-NL	11.6	9.525	3.97	4.4	0.2		
	DCGX11T304-NL	11.6	9.525	3.97	4.4	0.4		
	DCGX11T308-NL	11.6	9.525	3.97	4.4	0.8		
	SCGX09T304-NL	9.525	9.525	3.97	4.4	0.4	OK434	**NL** Adecuado materiales de aluminio y aleaciones
	SCGX09T308-NL	9.525	9.525	3.97	4.4	0.8		
	SCGX120408-NL	12.7	12.7	4.76	5.56	0.8		
	TCGX090204-NL	9.6	5.56	2.38	2.5	0.4	OK434	**NL** Adecuado materiales de aluminio y aleaciones
	TCGX110202-NL	11	6.35	2.38	2.8	0.2		
	TCGX110204-NL	11	6.35	2.38	2.8	0.4		
	TCGX16T304-NL	16.5	9.525	3.97	4.4	0.4		
	TCGX16T308-NL	16.5	9.525	3.97	4.4	0.8		
	VCGX110302-NL	11	6.35	3.18	2.8	0.2	OK434	**NL** Adecuado materiales de aluminio y aleaciones
	VCGX110304-NL	11	6.35	3.18	2.8	0.4		
	VCGX160402-NL	16.6	9.525	4.76	4.4	0.2		
	VCGX160404-NL	16.6	9.525	4.76	4.4	0.4		
	VCGX160408-NL	16.6	9.525	4.76	4.4	0.8		
	VCGX160412-NL	16.6	9.525	4.76	4.4	1.2		
	VCGX220530-NL	22	12.7	5.56	5.5	3		

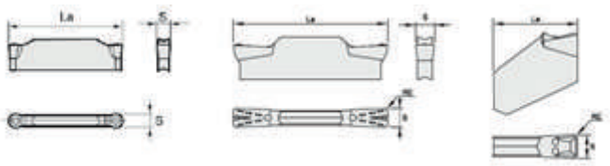
Placas de Taladrado SPGT... | WCMX...

Modelo		Dimensiones					Calidades	
		D	I	S	R	D1	OP1315	OP1215
		L	I.W	S	Φd	r		
	SPGT050204-OPM	5	5	2.38	2.2	0.4	▲	•
	SPGT060204-OPM	6	6	2.38	2.6	0.4	▲	•
	SPGT07T308-OPM	7.94	7.94	3.97	2.8	0.8	▲	•
	SPGT090408-OPM	9.8	9.8	4.3	4.1	0.8	▲	•
	SPGT110408-OPM	11.5	11.5	4.76	4.6	0.8	▲	•
	SPGT140512-OPM	14.3	14.3	5.2	5.75	1.2	▲	•
	WCMX030208-ZK	3.8	5.56	2.38	2.8	0.8	▲	•
	WCMX040208-ZK	4.3	6.35	2.38	3.1	0.8	▲	•
	WCMX050308-ZK	5.4	7.94	3.18	3.2	0.8	▲	•
	WCMX06T308-ZK	6.4	9.525	3.97	3.7	0.8	▲	•
	WCMX080412-ZK	8.6	12.7	4.76	4.3	1.2	▲	•



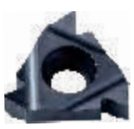


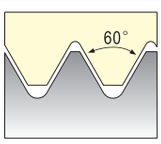
Placas Ranurado



Modelo		Dimensiones			P	P	P	M	M	M	K	K	Rompevirutas
		S0 +0.1	R±0.1	La MAX	OP2202	OC2025	OC4020	OP1315	OP1215	OP1205	OP2302	PC2202	
	QRFW025-MP	2.5	-	20.5			•	•	•				Forma Radio Dos Cortes
	QRGW03-MP	3	-	20.5			•	•	•				
	QRHW04-MP	4	-	25.5			•	•	•				
	QRJW05-MP	5	-	25.5			•	•	•				
	QRKW06-MP	6	-	25.5			•	•	•				
	QTED02503N-MG	2.5	0.3	20.5			•	•	•				Forma Recta Dos Cortes
	QTFD0303N-MG	3	0.3	20.5			•	•	•				
	QTGD0404N-MG	4	0.4	25.5			•	•	•				
	QTHD0504N-MG	5	0.4	25.5			•	•	•				
	QTKD0608N-MG	6	0.8	25.5			•	•	•				
	ZQMX3N11-1E	3.1	0.3	11			•	•	•				Forma Recta Un Corte
	ZQMX4N11-1E	4.1	0.3	11			•	•	•				
	ZQMX5N11-1E	5.1	0.3	11			•	•	•				
	ZQMX6N11-1E	6.4	0.3	11			•	•	•				
	MGMN200-T	2.0	-	-		•			▲				Forma Recta Dos Cortes
	MGMN250-T	2.5	-	-		•			▲				
	MGMN300-M	3.0	-	-		•			▲				
	MGMN400-M	4.0	-	-		•			▲				
	MGMN500-M	5.0	-	-		•			▲				

Roscado General 60º Perfil Parcial

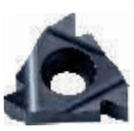


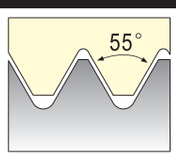


Exterior Derecha	Exterior Izquierda	Paso mm	Paso TPI
RT1601G-A60M	LT1601G-A60M	0.5-1.5	48-16
RT1601G-AG60M	LT1601G-AG60M	0.5-3.0	48-8
RT1601G-G60M	LT1601G-G60M	1.76-3	14-8
RT2201G-N60M	LT2201G-N60M	3.5-5.0	7-5

Interior Derecha	Interior Izquierda	Paso mm	Paso TPI
RT1101L-AG60M	LT1101L-AG60M	0.5-3.0	48-8
RT1601L-A60M	LT1601L-A60M	0.5-1.5	48-16
RT1601L-G60M	LT1601L-G60M	1.75-3	14-18
RT2201L-N60M	LT2201L-N60M	3.5-5.0	7-5

Roscado General 55º Perfil Parcial

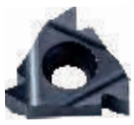


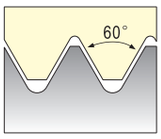


Exterior Derecha	Exterior Izquierda	Paso mm	Paso TPI
RT1601G-A55M	LT1601G-A55M	0.5-1.5	48-16
RT1601G-AG55M	LT1601G-AG55M	0.5-3.0	48-8
RT1601G-G55M	LT1601H-G55M	1.75-3.0	14-8
RT2201G-N55M	LT2201G-N55M	3.5-5.0	7-5

Interior Derecha	Interior Izquierda	Paso mm	Paso TPI
RT1601L-A55M	LT1601L-A55M	0.5-1.5	48-16
RT1601L-AG55M	LT1601L-AG55M	1.0-3.0	48-8
RT1601L-G55M	LT1601L-G55M	1.75-3.0	14-8
RT2201L-N55M	LT2201L-N55M	3.5-5.0	7-5

Roscado General 60º Perfil Completo





Exterior Derecha	Exterior Izquierda	Paso mm	Paso TPI
RT1601G-050ISOM	LT1601G-050ISOM	0.50	0.31
RT1601G-075ISOM	LT1601G-075ISOM	0.75	0.46
RT1601G-080ISOM	LT1601G-080ISOM	0.80	0.49
RT1601G-100ISOM	LT1601G-100ISOM	1.00	0.61
RT1601G-125ISOM	LT1601G-125ISOM	1.25	0.77
RT1601G-150ISOM	LT1601G-150ISOM	1.50	0.92
RT1601G-175ISOM	LT1601G-175ISOM	1.75	1.07
RT1601G-200ISOM	LT1601G-200ISOM	2.00	1.23
RT1601G-250ISOM	LT1601G-250ISOM	2.50	1.53
RT1601G-300ISOM	LT1601G-300ISOM	3.00	1.84
RT1601G-350ISOM	LT1601G-350ISOM	3.50	2.15
RT2201G-350ISOM	LT2201G-350ISOM	3.50	2.15
RT2201G-400ISOM	LT2201G-400ISOM	4.00	2.45
RT2201G-450ISOM	LT2201G-450ISOM	4.50	2.76
RT2201G-500ISOM	LT2201G-500ISOM	5.00	3.07

Interior Derecha	Interior Izquierda	Paso mm	Paso TPI
RT1601L-050ISOM	LT1601L-050ISOM	0.50	0.29
RT1601L-075ISOM	LT1601L-075ISOM	0.75	0.43
RT1601L-080ISOM	LT1601L-080ISOM	0.80	0.46
RT1601L-100ISOM	LT1601L-100ISOM	1.00	0.58
RT1601L-125ISOM	LT1601L-125ISOM	1.25	0.72
RT1601L-150ISOM	LT1601L-150ISOM	1.50	0.87
RT1601L-175ISOM	LT1601L-175ISOM	1.75	1.01
RT1601L-200ISOM	LT1601L-200ISOM	2.00	1.15
RT1601L-250ISOM	LT1601L-250ISOM	2.50	1.44
RT1601L-300ISOM	LT1601L-300ISOM	3.00	1.73
RT1601L-350ISOM	LT1601L-350ISOM	3.50	2.02
RT2201L-350ISOM	LT2201L-350ISOM	3.50	2.02
RT2201L-400ISOM	LT2201L-400ISOM	4.00	2.31
RT2201L-450ISOM	LT2201L-450ISOM	4.50	2.60
RT2201L-500ISOM	LT2201L-500ISOM	5.00	2.89

Set Roscado 60º - Perfil Completo

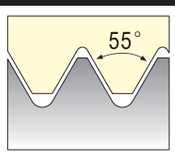
• Cada ser incluye dos insertos de cada medida entre las indicadas.

SET ROSCADO			
RT1601G-SET1	LT1601G-SET1	1 A 2 MM	
RT1601G-SET2	LT1601G-SET2	2 A 3 MM	-

SET ROSCADO			
RT1601L-SET1	LT1601L-SET1	1 A 2 MM	
RT1601L-SET2	LT1601L-SET2	2 A 3 MM	-

Roscado General 55º Perfil Completo

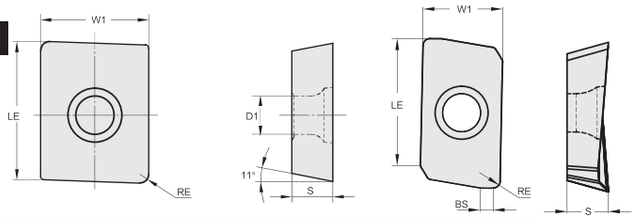


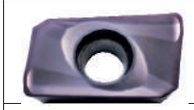
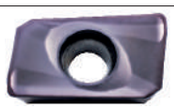


Exterior Derecha	Exterior Izquierda	Paso mm	Paso TPI
RT1601G-48WM	LT1601G-48WM	48	0.34
RT1601G-40WM	LT1601G-40WM	40	0.41
RT1601G-32WM	LT1601G-32WM	32	0.51
RT1601G-28WM	LT1601G-28WM	28	0.58
RT1601G-26WM	LT1601G-26WM	26	0.63
RT1601G-24WM	LT1601G-24WM	24	0.68
RT1601G-20WM	LT1601G-20WM	20	0.81
RT1601G-19WM	LT1601G-19WM	19	0.90
RT1601G-16WM	LT1601G-16WM	16	1.02
RT1601G-14WM	LT1601G-14WM	14	1.16
RT1601G-12WM	LT1601G-12WM	12	1.36
RT1601G-11WM	LT1601G-11WM	11	1.48
RT1601G-10WM	LT1601G-10WM	10	1.63
RT1601G-9WM	LT1601G-9WM	9	1.81
RT1601G-8WM	LT1601G-8WM	8	2.03
RT2201G-7WM	LT2201G-7WM	7	2.41
RT2201G-6WM	LT2201G-6WM	6	2.71
RT2201G-5WM	LT2201G5-WM	5	3.25

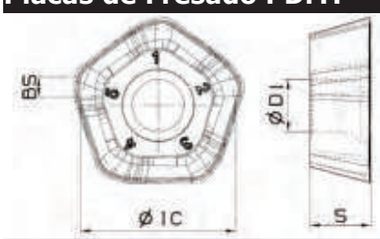
Interior Derecha	Interior Izquierda	Paso mm	Paso TPI
RT1601L-48WM	LT1601L-48WM	48	0.34
RT1601L-40WM	LT1601L-40WM	40	0.41
RT1601L-32WM	LT1601L-32WM	32	0.51
RT1601L-28WM	LT1601L-28WM	28	0.58
RT1601L-26WM	LT1601L-26WM	26	0.63
RT1601L-24WM	LT1601L-24WM	24	0.68
RT1601L-20WM	LT1601L-20WM	20	0.81
RT1601L-19WM	LT1601L-19WM	19	0.90
RT1601L-16WM	LT1601L-16WM	16	1.02
RT1601L-14WM	LT1601L-14WM	14	1.16
RT1601L-12WM	LT1601L-12WM	12	1.36
RT1601L-11WM	LT1601L-11WM	11	1.48
RT1601L-10WM	LT1601L-10WM	10	1.63
RT1601L-9WM	LT1601L-9WM	9	1.81
RT1601L-8WM	LT1601L-8WM	8	2.03
RT2201L-7WM	LT2201L-7WM	7	2.41
RT2201L-6WM	LT2201L-6WM	6	2.71
RT2201L-5WM	LT2201L-5WM	5	3.25

Placas de Fresado APKT... | APMT... | ADKT...



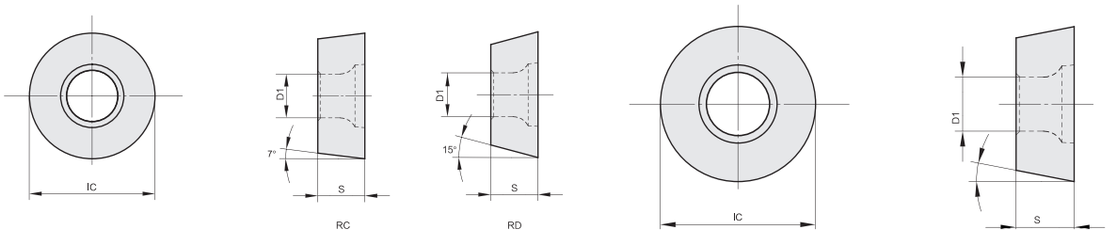
Modelo		Dimensiones					Calidades					
		LE	W1	S	D1	RE	OP1315	OP1215	OP2202	OP1030	OC4025	OC4035
		D	I	S	R	D1						
	APKT1035PDER	9.52	6.35	3.22	2.5	0.4	•	▲	•	•	•	•
	APMT1135PDER-H	11.39	6.2	3.5	2.8	0.8	▲	•	•	•	•	•
	APKT11T304-ZM	12.32	6.49	3.6	2.8	0.4	▲	•	•	•	•	•
	APKT11T308-ZM	12.32	6.49	3.6	2.8	0.8	▲	•	•	•	•	•
	ADKT150412-OPM	15.875	12.7	4.76	5.4	1.2	▲	•	•	•	•	•
	ADKT150412-HT-1	15.875	12.7	4.76	5.4	1.2	▲	•	•	•	•	•
	APMT160408PDER-M	17.12	9.2	4.76	4.4	0.8	▲	•	•	•	•	•
	APMT1604PDER-H	17.12	9.2	4.76	4.4	0.8	▲	•	•	•	•	•
	APMT160408-ZM	17.56	9.5	5.76	4.4	0.8	▲	•	•	•	•	•

Placas de Fresado PDMT



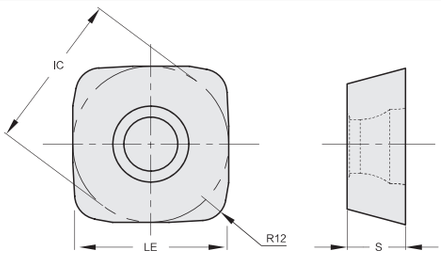
Modelo		Dimensiones				Calidades					
		d	t	ap	a	OP1315	OP1215	OP2202	OP1030	OC4035	OC4225
	PDMT1305ZDSR-SAM	11.46	7.6	13	2	•	•	•	▲		

Placas de Fresado RCKT... | RCKW... | RCKX... | RPEW...



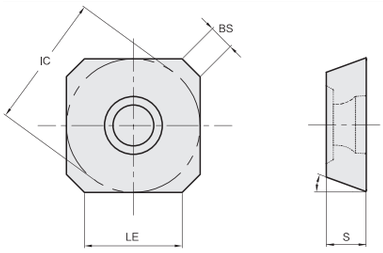
Modelo		Dimensiones					Calidades					
		IC	S	D1			OP1315	OP1215	OP2202	OP1030	OC4025	OC4035
	RCKT1204MO-OPR	12	4.76	4.4			▲	●	●	●	●	●
	RCKT1606MO-OPR	16	6.35	5.56			▲	●	●	●	●	●
	RCKT1606MO-OPM	16	6.35	5.56			▲	●	●	●	●	●
	RDKW0803MO-BG	8	3.18	3.4			▲	●	●	●	●	●
	RDKW10T3MO-BG	10	3.97	4.4			▲	●	●	●	●	●
	RDKW1204MO-BG	12	4.76	4.4			▲	●	●	●	●	●
	RDKW1604MO-BG	16	4.76	5.2			▲	●	●	●	●	●
	RDKW1605MO-BG	16	5.56	5.56			▲	●	●	●	●	●
	RDKW1606MO-BG	16	6.35	5.56			▲	●	●	●	●	●
	RDKX10T3MO-BG	10	3.97	4.4			▲	●	●	●	●	●
	RDKX1204MO-BG	12	4.76	4.4			▲	●	●	●	●	●
	RDKX1606MO-BG	16	6.35	5.56			▲	●	●	●	●	●
	RPEW0802MO-BG	8	2.38	3.5			▲	●	●	●	●	●
	RPEW1003MO-BG	10	3.18	4.6			▲	●	●	●	●	●

Placas de Fresado SD...



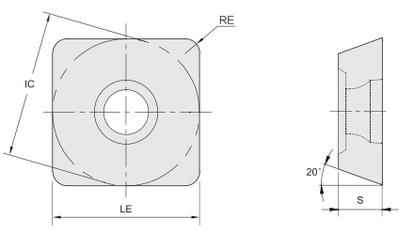
Modelo		Dimensiones						Calidades					
		IC	LE	D1	S	RE	a	OP1315	OP1215	OP2202	OP1030	OC4025	OC4035
	SDMT09T312-OPM	8.525	9.525	4	3.97	1.2	15°	▲	●	●	●	●	●
	SDMT120412-OPM	12.7	12.7	4.4	4.76	2	15°	▲	●	●	●	●	●

Placas de Fresado SEET12T3...



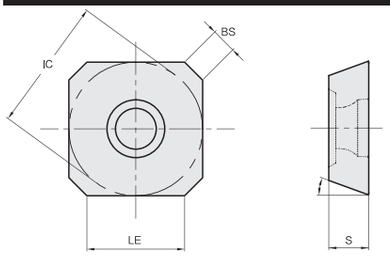
Modelo		Dimensiones					Calidades					
		LE	IC	S	D1	BS	OP1315	OP1215	OP2202	OP1030	OC4025	OC4035
	SEET12T3-OPF	13.4	13.4	3.97	4.1	2.55	▲	●	●	●	●	●
	SEET12T3-OPM	13.4	13.4	3.97	4.1	2.55	▲	●	●	●	●	●
	SEET12T3-OPR	13.4	13.4	3.97	4.1	2.55	▲	●	●	●	●	●

Placas de Fresado SEET...



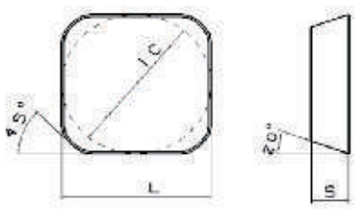
Modelo		Dimensiones					Calidades					
		LE	IC	S	D1	BS	OP1315	OP1215	OP2202	OP1030	OC4025	OC4035
	SEET09T308PER-OPR	9.525	9.525	4.01	3.3	0.786	▲	●	●	●	●	●
	SEET120308PER-OPF	13.29	13.29	4.042	4.1	0.784	▲	●	●	●	●	●
	SEET120308PER-OPM	13.29	13.29	4.042	4.1	0.784	▲	●	●	●	●	●

Placas de Fresado SEKT1204...



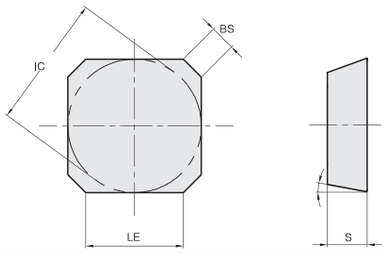
Modelo		Dimensiones					Calidades					
		LE	IC	S	D1	BS	OP1315	OP1215	OP2202	OP1030	OC4025	OC4035
	SEKT1204AFTN-XM	-	12.7	12.7	4.85	2.10	●	▲	●	●	●	●

Placas de Fresado SEKN1203...



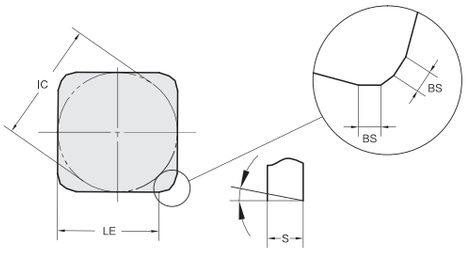
Modelo		Dimensiones					Calidades					
		LE	IC	S	D1	BS	OP1315	OP1215	OP2202	OP1030	OC4025	OC4035
	SEKN1203AFTN	12.7	12.7	3.18	-	-	●	▲	●	●	●	●

Placas de Fresado SPKR...



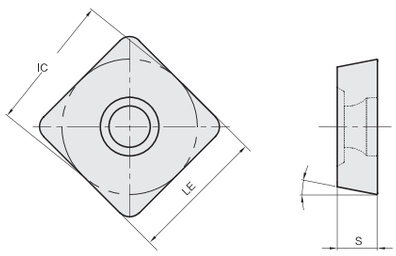
Modelo		Dimensiones					Calidades					
		LE	IC	S	D1	BS	OP1315	OP1215	OP2202	OP1030	OC4025	OC4035
	SPKR1504EDL-YR	15.875	15.875	4.51		1.4	▲	●	●	●	●	●
	SPKR1504EDR-YR	15.875	15.875	4.51		1.4	▲	●	●	●	●	●

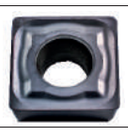
Placas de Fresado SPKN...



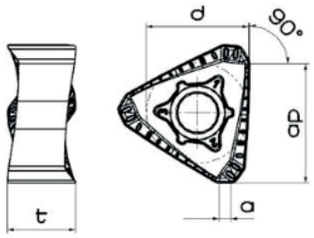
Modelo		Dimensiones					Calidades					
		LE	IC	S	D1	BS	OP1315	OP1215	OP2202	OP1030	OC4025	OC4035
	SPKN1203EDSKR	12.7	12.7	3.18		1.481	▲	●	●	●	●	●
	SPKN1203EDSKL	12.7	12.7	3.18		1.481	▲	●	●	●	●	●
	SPKN1504EDL	15.875	15.875	4.76		1.4	▲	●	●	●	●	●
	SPKN1504EDR	15.875	15.875	4.76		1.4	▲	●	●	●	●	●
	SPKN1504EDS11PL	15.875	15.875	4.76		1.4	▲	●	●	●	●	●
	SPKN1504EDS11PR	15.875	15.875	4.76		1.4	▲	●	●	●	●	●

Placas de Fresado SPMT...



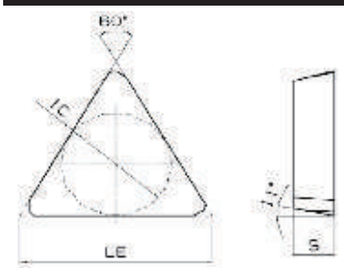
Modelo		Dimensiones					Calidades					
		LE	W1	S	D1	RE	OP1315	OP1215	OP2202	OP1030	OC4025	OC4035
	SPMT120408-OPM	12.7	12.7	4.76	5.5	0.8	▲	●	●	●	●	●
	SPMT090308	9.525	9.525	3.18	3.5	0.8	▲	●	●	●	●	●
	SPMT120408	12.7	12.7	4.78	5.5	0.8	▲	●	●	●	●	●
	SPMT120408-MM	12.7	12.7	4.76	5.5	0.8	▲	●	●	●	●	●
	SPMT120408-HT-1	12.7	12.7	4.76	5.5	0.8	▲	●	●	●	●	●

Placas de Fresado TNGX



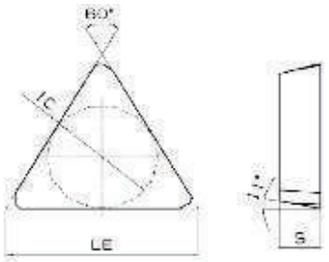
Modelo		Dimensiones				Calidades					
		d	t	ap	a	OP1315	OP1215	OP2202	OP1030	OP1325	OC4225
	TNGX1306PNFR	11.46	7.6	13	2	•	•	•	•	▲	•

Placas de Fresado TPUN



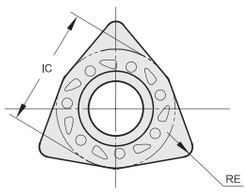
Modelo		Dimensiones				Calidades					
		IC	IE	S	BS	OP1315	OP1215	OP2202	OP1030	OP1325	OC4225
	TPUN160308	16.50	9.52	3.18	0.8			▲			

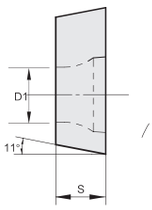
Placas de Fresado TPKN...



Modelo		Dimensiones				Calidades					
		IC	IE	S	BS	OP1315	OP1215	OP2202	OP1030	OC4025	OC4035
	TPKN2204PDSKR	22	12.7	4.76	-	•	▲	•	•	•	•

Placas de Fresado WP...





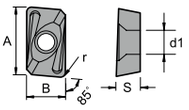
Modelo		Dimensiones						Calidades					
		IC	LE	D1	S	RE	α	OP1315	OP1215	OP2202	OP1030	OC4025	OC4035
	WPGT060415ZSR	9.525	1.5	4.2	4.4	11°	-	▲	•	•	•	•	•
	WPGT080520ZSR	12.85	2	5.5	5.5	11º	-	▲	•	•	•	•	•
	WPGT080615ZSR	12.85	1.5	6.35	5.5	11°	-	▲	•	•	•	•	•

Placas de Fresado ROHX

Modelo		Dimensiones					Calidades					
		ΦI.C	L	S	Φd	R	OP1315	OP1215	OP2202	OP1030	OC4025	OC4035
	ROHX1203	12	8.5	3	4	-	▲	•	•	•	•	•
	ROHX1604	16	11.3	4	5	-	▲	•	•	•	•	•
	ROHX2005	20	14.1	5	5	-	▲	•	•	•	•	•

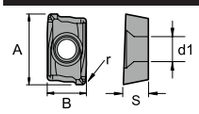


Placas de Fresado APKT...



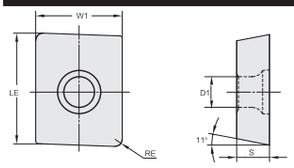
Modelo		Dimensiones					Calidades
		A	B	S	r	d1	
	APKT100304-MXG	10.5	6.7	3.5	0.4	2.8	NP1232 / NP1233
	APKT100308-MXG	10.5	6.7	3.5	0.8	2.8	NP1232 / NP1233

Placas de Fresado AXMT...



Modelo		Dimensiones					Calidades
		A	B	S	r	d1	
	AXMT123508-MRX	12.18	6.93	3.58	0.8	3.4	NP1232 / NP1233
	AXMT170508-MRX	17.50	10.2	5.56	0.8	4.6	NP1232 / NP1233
	AXMT170516-MRX	17.50	10.2	5.56	1.6	4.6	NP1232 / NP1233

Placas de Fresado ADKT...

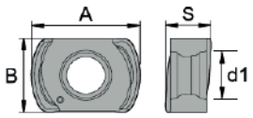


Modelo		Dimensiones					Calidades
		LE	W1	S	D1	RE	
	ADKT1505PDR	9.65	14.20	5.65	4.45	0.8	NP1215
	APKT170408PDR	10.70	18.50	5.70	0.80	4.70	NP1215

Placas de Fresado BPKT...

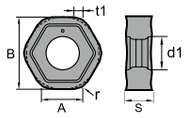
Modelo		Dimensiones					Calidades
		d	a	ap	-	-	
	BPKT100404-RM	6.9	4	7			NP1315 / NP2202
	BPKT150508-RM	10.7	5	11			NP1315 / NP2202

Placas de Fresado (Alto Avance) BXNMX...



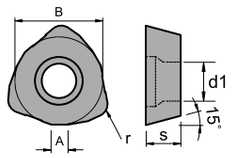
Modelo		Dimensiones					Calidades
		A	B	S	r	d1	
	BXMX0603-MXG	9.0	6.38	3.75	-	3.2	NP1232 / NP1233
	BXMX0603-MRX	9.0	6.38	3.75	-	3.2	NP1232 / NP1233
	BXMG0904-MXG	11.9	9.18	4.8	-	4.2	NP1232 / NP1233

Placas de Fresado HXMX...



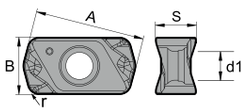
Modelo		Dimensiones						Calidades
		A	B	S	r	d1	t1	
	HXMX0704-SXG	6.8	12.7	4.45	1.2	4.9	1.4	NP1232 / NP1233

Placas de Fresado JDMX...



Modelo		Dimensiones					Calidades
		A	B	S	r	d1	
	JDMX120420-MRX	2.5	12.0	4.76	2.0	4.75	NP1232 / NP1233
	JDMX140520-MRX	2.8	1.4	5.56	2.0	5.75	NP1232 / NP1233

Placas de Fresado LNMU

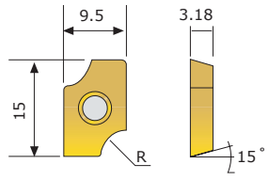


Modelo		Dimensiones					Calidades
		A	B	T	r	-	
	LNMU0303ZER-MXJ	11.60	6	4.30	1.2		NP1315

Placa de radio NXDCW1503F

- Venta de placas en caja de 5 Unidades
- Modelo Set - 1 placa de cada modelo

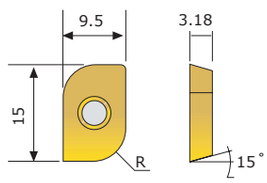
Referencia	Ancho	Alto	Espesor	Radio
NXDCW1503F-R1	9.5	15	3.18	1
NXDCW1503F-R15	9.5	15	3.18	1.5
NXDCW1503F-R2	9.5	15	3.18	2
NXDCW1503F-R25	9.5	15	3.18	2.5
NXDCW1503F-R3	9.5	15	3.18	3
NXDCW1503F-R35	9.5	15	3.18	3.5
NXDCW1503F-R4	9.5	15	3.18	4
NXDCW1503F-SET				1 - 1.5 - 2 - 2.5 - 3 - 3.5 - 4



Placa de radio NXDCW1503M

- Venta de placas en caja de 5 Unidades
- Modelo Set - 1 placa de cada modelo

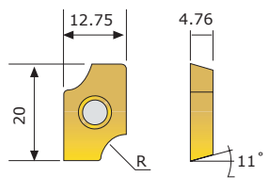
Referencia	Ancho	Alto	Espesor	Radio
NXDCW1503M-R1	9.5	15	3.18	1
NXDCW1503M-R15	9.5	15	3.18	1.5
NXDCW1503M-R2	9.5	15	3.18	2
NXDCW1503M-R25	9.5	15	3.18	2.5
NXDCW1503M-R3	9.5	15	3.18	3
NXDCW1503M-R35	9.5	15	3.18	3.5
NXDCW1503M-R4	9.5	15	3.18	4
NXDCW1503M-RSET				1 - 1.5 - 2 - 2.5 - 3 - 3.5 - 4



Placa de radio NXPCW2004F

- Venta de placas en caja de 5 Unidades
- Modelo Set - 1 placa de cada modelo

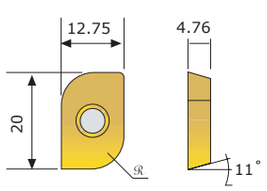
Referencia	Ancho	Alto	Espesor	Radio
NXPCW2004F-R45	12.75	20	4.76	4.5
NXPCW2004F-R5	12.75	20	4.76	5.0
NXPCW2004F-R55	12.75	20	4.76	5.5
NXPCW2004F-R6	12.75	20	4.76	6.0
NXPCW2004F-R65	12.75	20	4.76	6.5
NXPCW2004F-R7	12.75	20	4.76	7.0
NXPCW2004F-RSET				4.5 - 5 - 5.5 - 6 - 6.5 - 7



Placa de radio NXPCW2004M

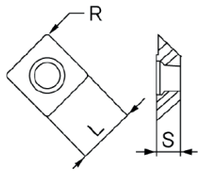
- Venta de placas en caja de 5 Unidades
- Modelo Set - 1 placa de cada modelo

Referencia	Ancho	Alto	Espesor	Radio
NXPCW2004M-R45	12.75	20	4.76	4.5
NXPCW2004M-R5	12.75	20	4.76	5.0
NXPCW2004M-R55	12.75	20	4.76	5.5
NXPCW2004M-R6	12.75	20	4.76	6.0
NXPCW2004M-R65	12.75	20	4.76	6.5
NXPCW2004M-R7	12.75	20	4.76	7.0
NXPCW2004M-RSET				4.5 - 5 - 5.5 - 6 - 6.5 - 7



Placas para Chaflanado / Punteado NCCX





- Venta de placas en caja de 5 Unidades
- Modelo PMC - Set con 4 Placas Acero, 2 de Inoxidable y 2 de Fundición

Referencia	L	S	R	Para Materiales	Cantidad/Caja
NDXP11T308-P	11	3.97	0.8	Acero	5 Unidades
NDXP11T308-M	11	3.97	0.8	Inoxidable	5 Unidades
NDXP11T308-C	11	3.97	0.8	Fundición	5 Unidades
NDXP11T308-PMC	11	3.97	0.8	Acero - Inoxidable y Fundición	4 - Uso Acero 2 - Inoxidable 2 - Fundición

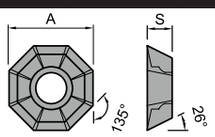
Placas para Punteado NQCX

- Venta de placas en caja de 5 Unidades
- Modelo Set - Set con 2 Placas de cada medida

Referencia	D	L	T	Ángulo
NXXN4-200	2	20.6	4	60º
NXXN4-250	2.5	20.6	4	60º
NXXN4-300	3	20.6	4	60º
NXXN4-400	4	20.6	4	60º
NXXN4-SET	2-2.5-3-4	20.6	4	60º

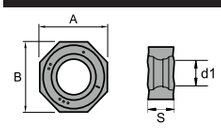


Placas de Fresado OFXT05T3



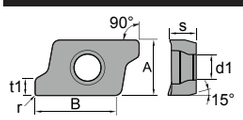
Modelo		Dimensiones					Calidades
		A	B	S	r	d1	
	OFXT05T3-MGX	12.7	-	3.8	0.6	4.6	NP1232 / NP1233
	OFXT05T3-RGX	12.7	-	3.8	0.6	4.6	NP1232 / NP1233

Placas de Fresado ONMX0505



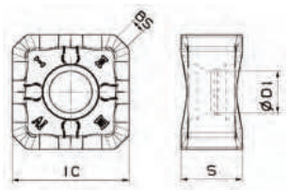
Modelo		Dimensiones					Calidades
		A	B	S	r	d1	
	ONMX0505-RGX	12.7	12.7	6.4	-	6	NP1232 / NP1233

Placas de Fresado RTX07... / RTX10...



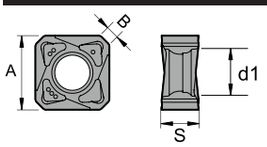
Modelo		Dimensiones					Calidades
		A	B	S	r	d1	
	RTX070204-RXG	4.30	6.40	2.38	0.4	2.2	NP1233
	RTX100308-RXG	6.35	9.3	3.4	0.8	2.9	NP1233

Placas de Fresado SNBX...



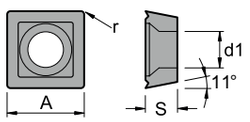
Modelo		Dimensiones					Calidades
		d	I	s	r	d1	
	SNBX1206-A1	12.70	12.70	6.35	0.80	4.40	NP1215

Placas de Fresado SNXX...



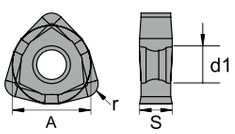
Modelo		Dimensiones					Calidades
		d	I	s	r	d1	
	SNXX1205-MXG	12.7	1.5	6.4	-	6	NP1233
	SNXX1205-RXG	12.7	1.5	6.4	-	6	NP1233

Placas de Taladrado SPMG...



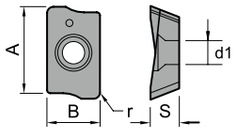
Modelo		Dimensiones					Calidades
		A	B	S	r	d1	
	SPMG050204	5	5	2.38	0.4	2.2	NP1232
	SPMG060204	6	6	2.38	0.4	2.7	NP1232
	SPMG07T308	8	7	3.97	0.8	2.8	NP1232
	SPMG090408	9.8	9.8	4.30	0.8	3.7	NP1232
	SPMG110408	11.5	11.5	4.98	0.8	4.2	NP1232

Placas de Fresado WNMX...



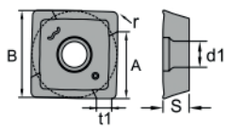
Modelo		Dimensiones					Calidades
		d	I	s	r	d1	
	WNMX09T316-MXG	9.525	-	3.97	1.6	3.6	NP1233
	WNMX130516-MXG	12.7	-	6.02	1.6	4.7	NP1233

Placas de Fresado X390...



Modelo		Dimensiones					Calidades
		d	I	s	r	d1	
	X39011T308-MXG	11	6.9	3.59	0.8	2.8	NP1233
	X39011T320-MXG	11	6.9	3.59	2.0	2.8	NP1233
	X390180612-SXG	15.4	11	6.33	1.2	4.2	NP1233
	X390180612-MXG	15.4	11	6.33	1.2	4.2	NP1233

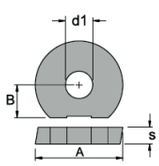
Placas de Fresado X490...



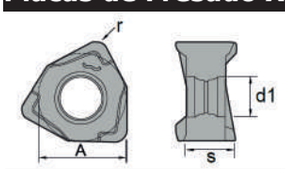
Modelo		Dimensiones					Calidades
		A	B	S	R	d1	
	X49008T308-SXG	5.6	8.5	3.3	0.5	2.8	NP1233
	X490140408-SXG	10.3	13.8	3.9	0.8	4.1	NP1233

Placas de Fresado W32...

Modelo		Dimensiones					Calidades
		A	B	S	d1		
	WP3212-NX	12	6	2.5	5		NP1233
	WP3216-NX	16	6	3	5		NP1233
	WP3220-NX	20	6	3	5		NP1233
	WP3225-NX	25	9	4	6		NP1233
	WP3232-NX	32	10	5	8		NP1233
	WP3212-SX	12	6	2.5	5		NP1233
	WP3216-SX	16	6	3	5		NP1233
	WP3220-SX	20	6	3	5		NP1233
	WP3225-SX	25	9	4	6		NP1233
	WP3232-SX	32	10	5	8		NP1233



Placas de Fresado XNMX...



Modelo		Dimensiones					Calidades
		A	S	-	r	d1	
	XNMX040304-SXG	6.70	3.285		0.4	3.15	NP1232 / NO1233
	XNMX040304-MXG	6.70	3.285		0.8	3.15	NP1232 / NO1233
							NP1232 / NO1233
	XNMX080608-MXG	12.53	6.50		0.8	4.50	NP1232 / NO1233
	XNMX080608-RXG	12.53	6.50		0.8	4.50	NP1232 / NO1233

Placa Para Porta de Fresado-Marcado 60º XCEX11T3

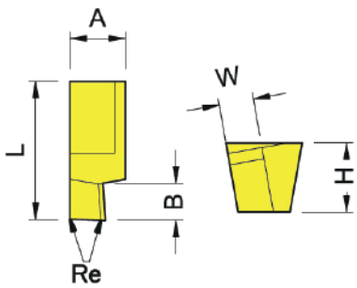
- Venta de placas en caja de 10 Unidades

Referencia	Radio	Calidad Acero	Calidad Inox	Calidad Fundición	Cantidad/Caja
XCEX11T3-01	0.1	PX	PM	PK	10
XCEX11T3-02	0.2	PX	PM	PK	10
XCEX11T3-04	0.4	PX	PM	PK	10
XCEX11T3-08	0.8	PX	PM	PK	10
XCEX11T3-SET	0.1 A 0.8	PX	PM	PK	2 de cada

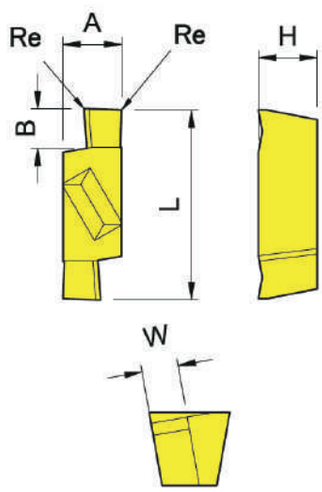


Placa XGVR Para Ranurado Interior/Exterior

Referencia	W	B	R	A	L	H
XGVR-100SS	1.00	2.3	0.2	3.6	9.0	3.0
XGVR-125SS	1.25					
XGVR-145SS	1.45					
XGVR-200SS	2.00					
XGVR-250SS	2.50					
XGVR-300SS	3.00					
XGVR-100S	1.00	2.3	0.2	4.0	11.0	4.0
XGVR-125S	1.25					
XGVR-145S	1.45					
XGVR-185A	1.85					
XGVR-200S	2.00					
XGVR-250S	2.50					
XGVR-340S	3.40					
XGVR-100A	1.00	2.3	0.2	4.0	12.0	5.0
XGVR-125A	1.25					
XGVR-145A	1.45					
XGVR-185A	1.85					
XGVR-200A	2.00					
XGVR-250A	2.50					
XGVR-300A	3.00					
XGVR-340A	3.40					
XGVR-145B	1.45	2.8	0.2	4.5	15.5	5.5
XGVR-185B	1.85	2.8				
XGVR-200B	2.00	3.2				
XGVR-230B	2.30	3.2				
XGVR-250B	2.50	3.2				
XGVR-280B	2.80	3.2				
XGVR-300B	3.00	4.2				
XGVR-340B	3.40	4.2				
XGVR-400B	4.00	4.2				
XGVR-280C	2.8	4.50	0.2	5.8	21.0	6.5
XGVR-300C	3.00	4.50				
XGVR-340C	3.40	5.50				
XGVR-400C	4.00	5.50				
XGVR-430C	4.30	6.30				
XGVR-460C	4.60	6.30				
XGVR-500C	5.00	6.30				



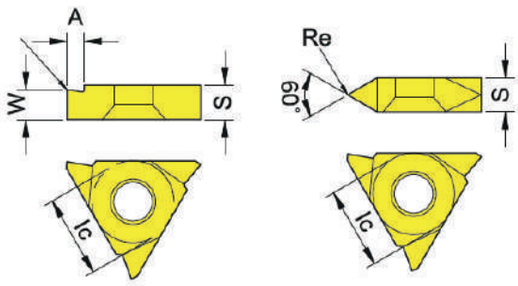
- Modelo SS y S
- Para Portaherramientas XGIVR/L



- Modelo A / B / C
- Para Portaherramientas XGIVR/L

Placa XMGTR Para Ranurado Interior/Exterior

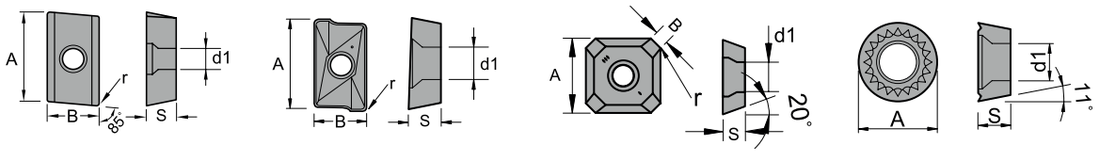
Referencia	W	A	Ic	S
XMGTR16-050C	0.5	1.5	9.525	2.0
XMGTR16-060C	0.6	1.5		
XMGTR16-070C	0.7	2.00		
XMGTR16-075C	0.75	2.00		
XMGTR16-080C	0.80	2.00		
XMGTR16-095C	0.95	2.00		
XMGTR16-100C	1.00	2.50		
XMGTR16-110C	1.10	2.50		
XMGTR16-120C	1.20	2.50		
XMGTR16-130C	1.30	2.50		

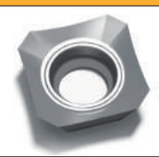


Placa XMGTR Para Roscado Laterial Exterior

Referencia	Ic	S	Re/Rc	Paso
XMTTR16-1015	9.525	3.18	0.1	1.0-1.50
XMTTR16-17520	9.525	3.18	0.2	1.75-2

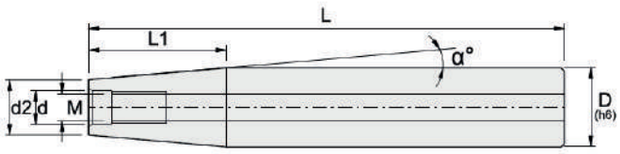
Placas de Aluminio Para Torneado / Fresado



Modelo		Dimensiones					Calidad Aluminio
		A	B	S	d1	r	
	SEKT1204-NL	13.4	13.4	3.97	4.1	2.55	NXK-343
	APKT1003-NL	10.5	6.7	3.5	0.4	2.8	NXK-343
	APKT1035-NL	9.52	6.35	3.22	2.5	0.4	NXK-343
	APGT1135PDER-NL	11.39	6.2	3.5	2.8	0.4	NXK-343
	ADKT150508-NL	14.20	9.65	5.65	4.4	0.8	NXK-343
	APKT160402-NL	16.3	9.525	5.25	4.4	0.2	NXK-343
	APKT160404-NL	16.3	9.525	5.25	4.4	0.4	NXK-343
	APKT160408PDFR	16.3	9.525	5.25	4.4	0.8	NXK-343
	RCGT1004MO	-	10	-	-	-	NXK-343
	RCGT1204MO	-	12	4.76	4.4	0.4	

Alargadores Metal Duro - Cónico

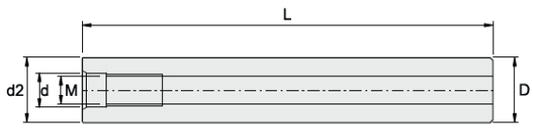




Referencia	d2	d	aº	L1	L	D	M
SMD06.05	9.8	5.5	1º	60	150	12	M5
SDM06.06	9.8	5.5	1º	60	150	12	M6
SDM06.061	11.8	6.5	1.5º	70	150	16	M6
SDM06.08	15.5	8.5	1.5º	90	200	20	M8
SDM06.10	19.8	10.5	1.5º	90	200	25	M10
SDM06.12	24.5	12.5	2º	90	200	32	M12

Alargadores Metal Duro - Recto

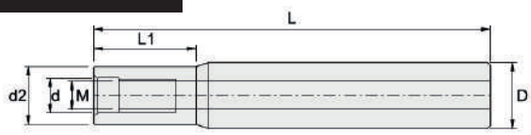




Referencia	d2	d	L	D	M
SDM07.05	10	5.5	75	10	M5
SDM07.051	10	5.5	100	10	M5
SDM07.052	10	5.5	150	10	M5
SDM07.06	10	5.5	100	10	M6
SDM07.061	10	5.5	150	10	M6
SDM07.062	11	6.5	100	11	M6
SDM07.063	11	6.5	150	11	M6
SDM07.064	12	6.5	75	12	M6
SDM07.065	12	6.5	100	12	M6
SDM07.066	12	6.5	150	12	M6
SDM07.067	12	6.5	200	12	M6
SDM07.08	15	8.5	100	15	M8
SDM07.081	15	8.5	150	15	M8
SDM07.082	15	8.5	200	15	M8
SDM07.083	16	8.5	100	16	M8
SDM07.084	16	8.5	150	16	M8
SDM07.085	16	8.5	200	16	M8
SDM07.086	16	8.5	250	16	M8
SDM07.10	20	10.5	100	20	M10
SDM07.101	20	10.5	150	20	M10
SDM07.102	20	10.5	200	20	M10
SDM07.103	20	10.5	250	20	M10
SDM07.104	20	10.5	300	20	M10
SDM07.12	25	12.5	100	25	M12
SDM07.121	25	12.5	150	25	M12
SDM07.122	25	12.5	200	25	M12
SDM07.123	25	12.5	250	25	M12
SDM07.124	25	12.5	300	25	M12
SDM07.16	32	17.0	200	32	M16
SDM07.161	32	17.0	300	32	M16
SDM07.162	32	17.0	350	32	M16
SDM07.163	32	17.0	400	32	M16

Alargadores Metal Duro - Cuello Rebajado

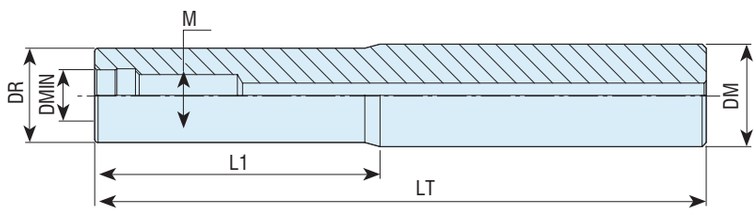




Referencia	d2	d	L1	L	D	M
SDM08.06	11.5	6.5	24	100	12	M6
SDM08.061	11.5	6.5	40	100	12	M6
SDM08.062	11.5	6.5	60	100	12	M6
SDM08.063	11.5	6.5	24	150	12	M6
SDM08.064	11.5	6.5	100	150	12	M6
SDM08.08	13	8.5	32	150	16	M8
SDM08.081	15	8.5	30	150	16	M8
SDM08.082	15	8.5	100	150	16	M8
SDM08.083	15	8.5	40	200	16	M8
SDM08.084	15	8.5	120	200	16	M8
SDM08.10	17	10.5	40	150	20	M10
SDM08.101	19	10.5	40	150	20	M10
SDM08.102	19	10.5	100	150	20	M10
SDM08.103	19	10.5	40	200	20	M10
SDM08.104	19	10.5	120	200	20	M10
SDM08.12	24	12.5	48	150	25	M12
SDM08.121	24	12.5	100	150	25	M12
SDM08.122	24	12.5	48	200	25	M12
SDM08.123	24	12.5	100	200	25	M12

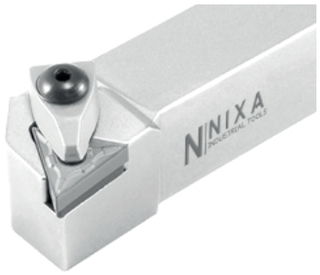
Alargadores Acero Rápido Tratado - Rebajado

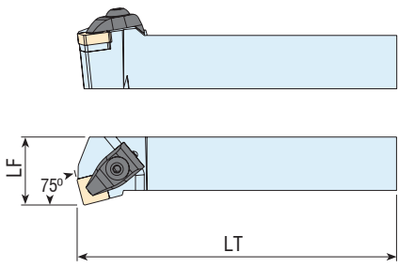


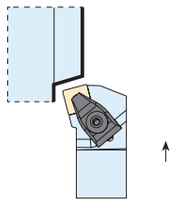


Referencia	DM	M	DMIN	DR	LT	L1
SDM10.08	16	M-8	8.5	13	100	40
SDM10.081	16	M-8	8.5	15	130	70
SDM10.10	20	M-10	10.5	18	130	70
SDM10.101	20	M-10	10.5	18	160	80
SDM10.12	25	M-12	12.5	23	150	70
SDM10.121	25	M-12	12.5	23	200	100
SDM10.122	25	M-12	12.5	23	250	150
SDM10.16	32	M-16	17	30	150	70
SDM10.161	32	M-16	17	30	200	100
SDM10.162	32	M-16	17	30	250	150
SDM10.163	32	M-16	17	30	300	200

TCKNR/L - 75º

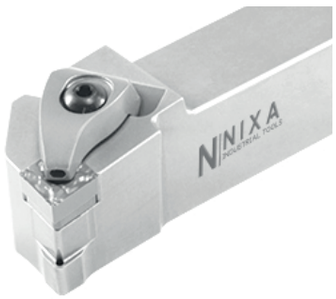


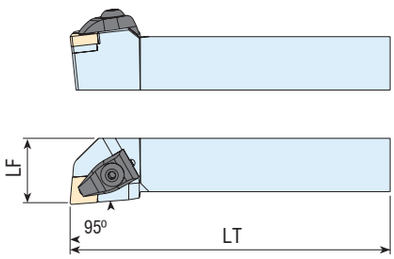


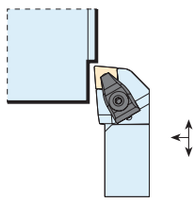


REFERENCIA	LF	WF	INSERTO	BRIDA PLACA	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA	ANILLO	ARANDELA	LLAVE
TCKNR/L 2020-K12	125	25	CNM..1204..	BDA-02	TAB-018	PB-015	TPB-002	MDP-015	MDP-009	LLA-3
TCKNR/L 2525-M12	150	32								
TCKNR/L 3232-P12	170	40								
TCKNR/L 2525-M16	150	32	CNM..1606..	BDA-04	TAB-013	PB-016	TPB-003	MDP-016	MDP-010	LLA-5
TCKNR/L 3232-P16	170	40								

TCLNR/L - 95º

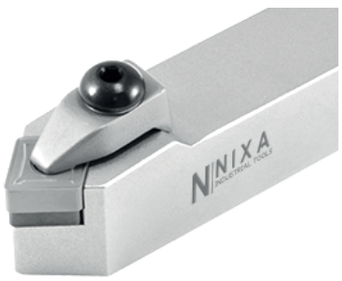


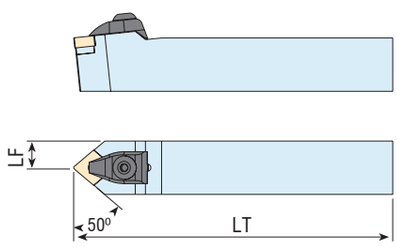


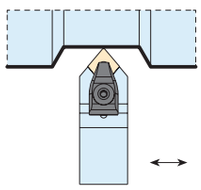


REFERENCIA	LF	WF	INSERTO	BRIDA PLACA	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA	ANILLO	ARANDELA	LLAVE
TCLNR/L 2020-K12	125	25	CNM..1204..	BDA-02	TAB-018	PB-015	TPB-002	MDP-015	MDP-009	LLA-3
TCLNR/L 2525-M12	150	32								
TCLNR/L 3232-P12	170	40								
TCLNR/L 4040-S12	250	50								
TCLNR/L 2525-M16	150	32	CNM..1606..	BDA-04	TAB-013	PB-016	TPB-003	MDP-016	MDP-010	LLA-5
TCLNR/L 3232-P16	170	40								

TCMNN - 50º



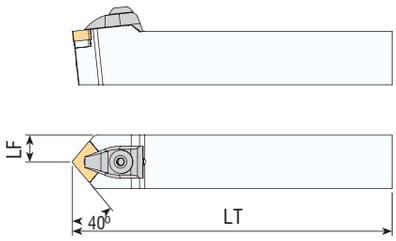


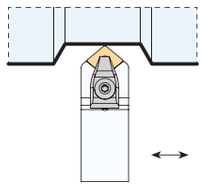


REFERENCIA	LF	WF	INSERTO	BRIDA PLACA	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA	ANILLO	ARANDELA	LLAVE
TCMNN 2020-K12	100	8	CNM..1204..	BDA-02	TAB-018	PB-015	TPB-002	MDP-015	MDP-009	LLA-3
TCMNN 2525-M12	125	10								
TCMNN 3232-P12	150	12.5								
TCMNN 2525-M16	170	16	CNM..1606..	BDA-04	TAB-013	PB-016	TPB-003	MDP-016	MDP-010	LLA-5
TCMNN 3232-P16	150	12.5								
TCLNR/L 3232-P16	170	40								

TCZNN - 40º



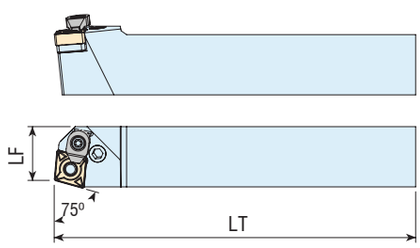


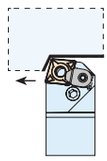


REFERENCIA	LF	WF	INSERTO	BRIDA PLACA	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA	ANILLO	ARANDELA	LLAVE
TCZNN 2020-K12	125	10	CNM..1204..	BDA-02	TAB-018	PB-015	TPB-002	MDP-015	MDP-009	LLA-3
TCZNN 2525-M12	150	12.5								
TCZNN 3232-P12	170	16								
TCZNN 2525-M16	150	12.5	CNM..1606..	BDA-04	TAB-013	PB-016	TPB-003	MDP-016	MDP-010	LLA-5
TCZNN 3232-P16	170	16								

PCBNR/L - 75º



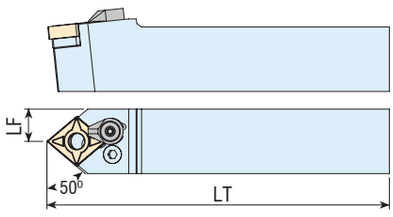


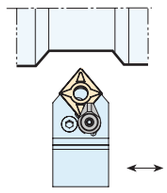


REFERENCIA	LF	WF	INSERTO	PALANCA PLACA	TORNILLO BRIDA	PLACA BASE	CASQUILLO PLACA BASE	BRIDA PLACA	TORNILLO BRIDA	LLAVE
PCBNR/L 2020-K12	125	17.5	CNM..1204..	PDP-002	TPA-025	PB-015	MDP-005	BDA-18	TDA-066	LLA-3
PCBNR/L 2525-M12	150	22.5								
PCBNR/L 3232-P12	170	29.5								
PCBNR/L 2525-M16	150	22	CNM..1606..	PDP-004	TPA-026	PB-016	MDP-006	BDA-22	TPB-003	LLA-5
PCBNR/L 3232-P16	170	27								
PCBNR/L 3232-P19	170	27	CNM..1906..	PDP-005	TPA-027	PB-017	MDP-007	BDA-22	TPB-003	LLA-5
PCBNR/L 4040-S19	250	37								
PCBNR/L 4040-S25	250	37	CNM..2509	PDP-006	TPA-028	PB-018	MDP-008	BDA-17	TPB-005	ALLEN 7

PCMNN - 50º



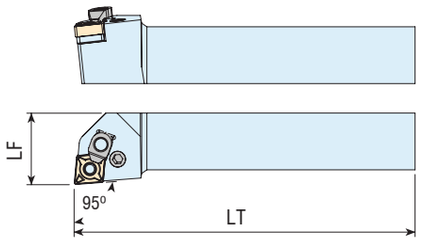


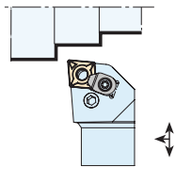


REFERENCIA	LF	WF	INSERTO	PALANCA PLACA	TORNILLO BRIDA	PLACA BASE	CASQUILLO PLACA BASE	BRIDA PLACA	TORNILLO BRIDA	LLAVE
PCMNN 2020-K12	125	10	CNM..1204..	PDP-002	TPA-025	PB-015	MDP-005	BDA-18	TDA-066	LLA-3
PCMNN 2525-M12	150	12.5								
PCMNN 3232-P12	170	16								
PCMNN 2525-M16	150	12.5	CNM..1606..	PDP-004	TPA-026	PB-016	MDP-006	BDA-22	TPB-003	LLA-5
PCMNN 3232-P16	170	16								
PCMNN 3232-P19	170	16	CNM..1906..	PDP-005	TPA-027	PB-017	MDP-007	BDA-22	TPB-003	LLA-5
PCMNN 4040-S19	250	20								
PCMNN 4040-S25	250	20	CNM..2509	PDP-006	TPA-028	PB-018	MDP-008	BDA-17	TPB-005	ALLEN 7

PCLNR/L - 95º

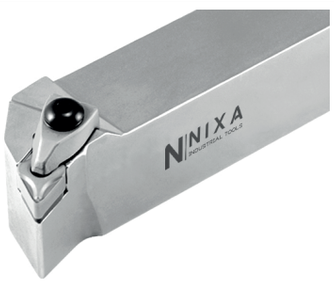


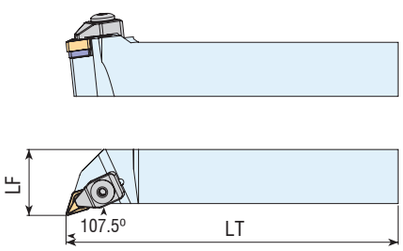


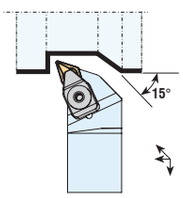


REFERENCIA	LF	WF	INSERTO	PALANCA PLACA	TORNILLO BRIDA	PLACA BASE	CASQUILLO PLACA BASE	BRIDA PLACA	TORNILLO BRIDA	LLAVE
PCLNR/L 1616-H09	100	20	CNM..0903	PDP-001	TPA-024	PB-014	MDP-003	-	-	LLA-2
PCLNR/L 2020-K09	125	25								
PCLNR/L 2525-M09	150	32								
PCLNR/L 1616-H12	100	20	CNM..1204..	PDP-002	TPA-025	PB-015	MDP-005	-	-	LLA-3
PCLNR/L 2020-K12	125	25	CNM..1204..	PDP-002	TPA-025	PB-015	MDP-005	BDA-18	TDA-066	LLA-3
PCLNR/L 2525-M12	150	32								
PCLNR/L 3232-P12	170	40								
PCLNR/L 2525-M16	150	32	CNM..1606..	PDP-004	TPA-026	PB-016	MDP-006	BDA-22	TPB-003	LLA-5
PCLNR/L 3232-P16	170	40								
PCLNR/L 2525-M19	150	32	CNM..1906..	PDP-005	TPA-027	PB-017	MDP-007	BDA-22	TPB-003	LLA-5
PCLNR/L 3232-P19	170	40								
PCLNR/L 4040-S19	250	50								
PCLNR/L 4040-S25	250	50	CNM..2509	PDP-006	TPA-028	PB-018	MDP-008	BDA-17	TPB-005	ALLEN 7

TDHNR/L - 107.5º

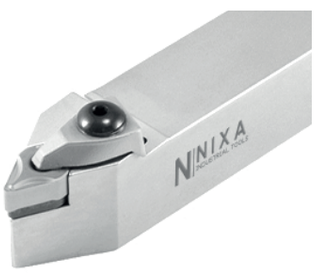


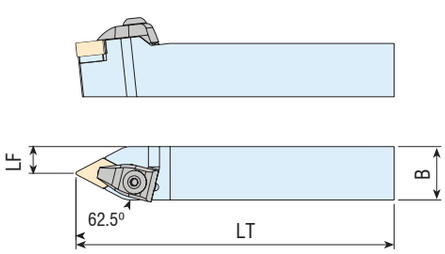


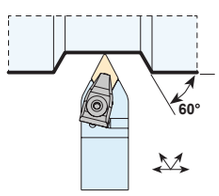


REFERENCIA	LF	WF	INSERTO	BRIDA PLACA	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA	ANILLO	ARANDELA	LLAVE
TDHNR/L 2020-K15	125	31	DNM..1506..	BDA-02	TAB-018	PB-036	TPB-002	MDP-015	MDP-009	LLA-3
TDHNR/L 2525-M15	150	32								
TDHNR/L 3232-P15	170	40								

TDNNN - 62.5º

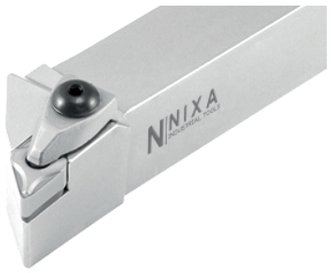


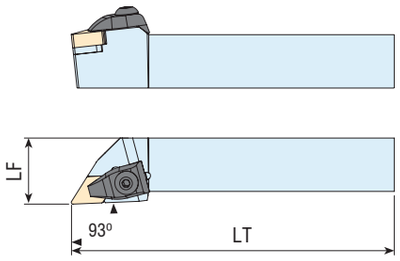


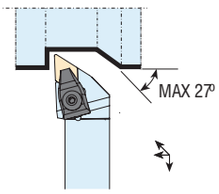


REFERENCIA	LF	WF	INSERTO	BRIDA PLACA	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA	ANILLO	ARANDELA	LLAVE
TDNNN 2020-K11	125	10	DNM..1104..	BDA-01	TAB-001	PB-034	TPB-009	-	MDP-009	LLA-3
TDNNN 2525-M11	150	12.5								
TDNNN 2020-K15	125	10	DNM..1506..	BDA-02	TAB-018	PB-036	TPB-002	MDP-015	MDP-009	LLA-3
TDNNN 2525-M15	150	12.5								
TDNNN 3232-P15	170	16								

TDJNR/L - 93º



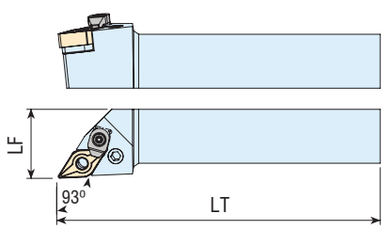


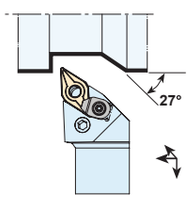


REFERENCIA	LF	WF	INSERTO	BRIDA PLACA	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA	ANILLO	ARANDELA	LLAVE
TDJNR/L 1616-H11	100	20	DNM..1104	BDA-01	TAB-001	PB-034	TPB-009	-	MDP-009	LLA-3
TDJNR/L 2020-K11	125	25								
TDJNR/L 2525-M11	150	32								
TDJNR/L 2020-K154	125	25	DNM..1504	BDA-02	TAB-018	PB-037	TPB-002	MDP-015	MDP-009	LLA-3
TDJNR/L 2525-M154	150	32								
TDJNR/L 3232-P154	170	40								
TDJNR/L 4040-S154	250	50								
TDJNR/L 2020-K15	125	25	DNM..1506	BDA-02	TAB-018	PB-036	TPB-002	MDP-015	MDP-009	LLA-3
TDJNR/L 2525-M15	150	32								
TDJNR/L 3232-P15	170	40								
TDJNR/L 4040-S15	250	50								

PDJNR/L - 93º



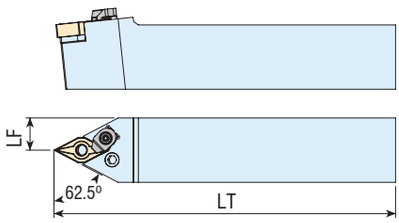


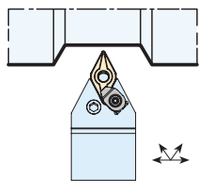


REFERENCIA	LF	WF	INSERTO	PALANCA PLACA	TORNILLO BRIDA	PLACA BASE	CASQUILLO PLACA BASE	BRIDA PLACA	TORNILLO BRIDA	LLAVE
PDJNR/L 1616-H11	100	20	DNM..1104..	PDP-001	TPA-024	PB-035	MDP-003	-	-	LLA-2
PDJNR/L 2020-H11	125	25								
PDJNR/L 2525-M11	150	32								
PDJNR/L 2020-K15	125	25	DNM..1506..	PDP-003	TPA-025	PB-036	MDP-005	BDA-18	TDA-066	LLA-3
PDJNR/L 2525-M15	150	32								
PDJNR/L 3232-P15	170	40								
PDJNR/L 4040-S15	250	50								

PDNNN - 62.5º



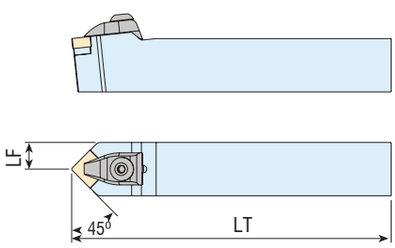


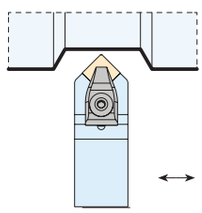


REFERENCIA	LF	WF	INSERTO	PALANCA PLACA	TORNILLO BRIDA	PLACA BASE	CASQUILLO PLACA BASE	BRIDA PLACA	TORNILLO BRIDA	LLAVE
PDNNN 1616-H11	100	8	DNM..1104..	PDP-001	TPA-024	PB-035	MDP-003	-	-	LLA-2
PDNNN 2020-H11	125	10								
PDNNN 2525-M11	150	12.5								
PDNNN 2020-K15	125	10	DNM..1506..	PDP-003	TPA-025	PB-036	MDP-005	BDA-18	TDA-066	LLA-3
PDNNN 2525-M15	150	12.5								
PDNNN 3232-P15	170	16								

TSDNN - 45º

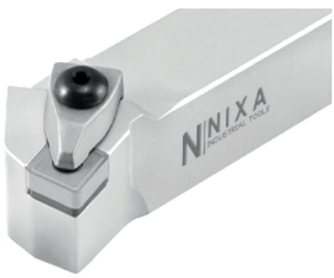


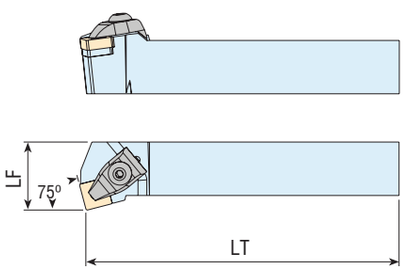


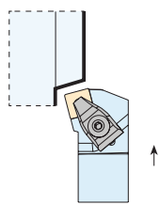


REFERENCIA	LF	WF	INSERTO	BRIDA PLACA	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA	ANILLO	ARANDELA	LLAVE
TSDNN 2020-K12	125	10	SNM..1204..	BDA-02	TAB-018	PB-029	TPB-002	MDP-015	MDP-009	LLA-3
TSDNN 2525-M12	150	12.5								
TSDNN 3232-P12	170	16								
TSDNN 2525-M15	150	12.5	SNM..1506..	BDA-04	TAB-013	PB-030	TPB-003	MDP-016	MDP-010	LLA-5
TSDNN 3232-P15	170	16								

TSKNR/L - 75º



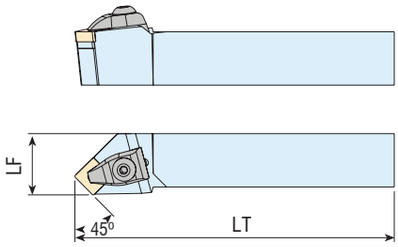


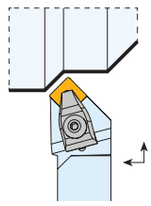


REFERENCIA	LF	WF	INSERTO	BRIDA PLACA	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA	ANILLO	ARANDELA	LLAVE
TSKNR/L 2020-K12	125	25	SNM..1204..	BDA-02	TAB-018	PB-029	TPB-002	MDP-015	MDP-009	LLA-3
TSKNR/L 2525-M12	150	32								
TSKNR/L 3232-P12	170	40								
TSKNR/L 3232-P15	170	40	SNM..1506..	BDA-04	TAB-013	PB-030	TPB-003	MDP-016	MDP-010	LLA-5

TSSNR/L - 45º



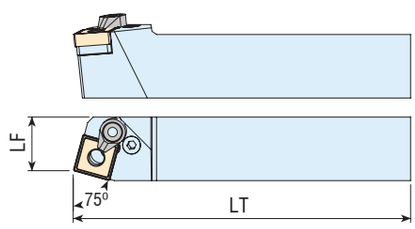


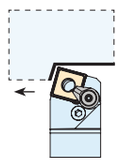


REFERENCIA	LF	WF	INSERTO	BRIDA PLACA	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA	ANILLO	ARANDELA	LLAVE
TSSNR/L 2020-K12	125	25	SNM..1204..	BDA-02	TAB-018	PB-029	TPB-002	MDP-015	MDP-009	LLA-3
TSSNR/L 2525-M12	150	32								
TSSNR/L 3232-P12	170	40								
TSSNR/L 2525-M15	150	32	SNM..1506..	BDA-04	TAB-013	PB-030	TPB-003	MDP-016	MDP-010	LLA-5
TSSNR/L 3232-P15	170	40								

PSBNR/L - 75º



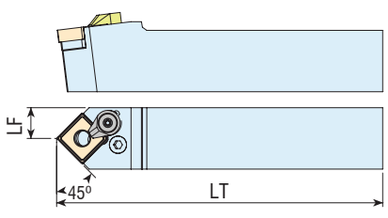


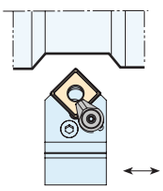


REFERENCIA	LF	WF	INSERTO	PALANCA PLACA	TORNILLO BRIDA	PLACA BASE	CASQUILLO PLACA BASE	BRIDA PLACA	TORNILLO BRIDA	LLAVE
PSBNR/L 1616-H09	100	13	SNM..0903..	PDP-001	TPA-024	PB-027	MDP-003	-	-	LLA-2
PSBNR/L 2020-K09	125	17								
PSBNR/L 2020-K12	125	17	SNM..1204..	PDP-002	TPA-025	PB-029	MDP-005	-	-	LLA-3
PSBNR/L 2525-M12	150	22	SNM..1204..	PDP-002	TPA-025	PB-029	MDP-005	BDA-18	TDA-066	
PSBNR/L 3232-P12	170	27								
PSBNR/L 2525-M15	150	22	SNM..1506..	PDP-004	TPA-026	PB-030	MDP-006	-	-	LLA-3
PSBNR/L 3232-P15	170	27						BDA-22	TPB-003	LLA-5
PSBNR/L 3232-P19	170	27	SNM..1906..	PDP-005	TPA-027	PB-031	MDP-007	BDA-22	TPB-003	LLA-5
PSBNR/L 4040-S19	250	35								
PSBNR/L 4040-S25	250	35	SNM..2509..	PDP-006	TPA-028	PB-032	MDP-008	BDA-17	TPB-005	ALLEN 7

PSDNN - 45º



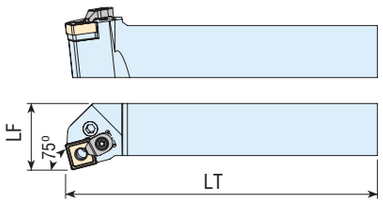


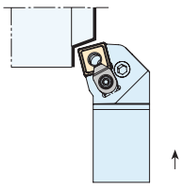


REFERENCIA	LF	WF	INSERTO	PALANCA PLACA	TORNILLO BRIDA	PLACA BASE	CASQUILLO PLACA BASE	BRIDA PLACA	TORNILLO BRIDA	LLAVE
PSDNN 1616-H09	100	8	SNM..0903..	PDP-001	TPA-024	PB-027	MDP-003	-	-	LLA-2
PSDNN 2020-K12	125	10	SNM..1204..	PDP-002	TPA-025	PB-029	MDP-005	-	-	LLA-3
PSDNN 2525-M12	150	12.5	SNM..1204..	PDP-002	TPA-025	PB-029	MDP-005	BDA-18	TDA-066	
PSDNN 3232-P12	170	16								
PSDNN 2525-M15	150	12.5	SNM..1506..	PDP-004	TPA-026	PB-030	MDP-006	-	-	LLA-3
PSDNN 3232-P19	170	16	SNM..1906..	PDP-005	TPA-027	PB-031	MDP-007	BDA-22	TPB-003	LLA-5
PSDNN 4040-S25	250	20	SNM..2509..	PDP-006	TPA-028	PB-032	MDP-008	BDA-17	TPB-005	ALLEN 7

PSKNR/L - 75º



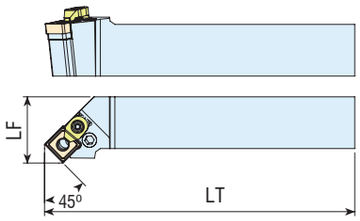


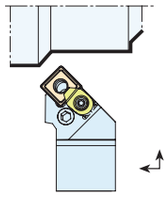


REFERENCIA	LF	WF	INSERTO	PALANCA PLACA	TORNILLO BRIDA	PLACA BASE	CASQUILLO PLACA BASE	BRIDA PLACA	TORNILLO BRIDA	LLAVE
PSKNR/L 2020-H09	125	25	SNM..0903..	PDP-001	TPA-024	PB-027	MDP-003	-	-	LLA-2
PSKNR/L 2020-K12	125	25	SNM..1204..	PDP-002	TPA-025	PB-029	MDP-005	BDA-18	TDA-066	LLA-3
PSKNR/L 2525-M12	150	32								
PSKNR/L 3232-P12	170	40								
PSKNR/L 2525-M15	150	32	SNM..1506..	PDP-004	TPA-026	PB-030	MDP-006	BDA-22	TPB-003	LLA-3
PSKNR/L 3232-P15	170	40								
PSKNR/L 3232-P19	170	40	SNM..1906..	PDP-005	TPA-027	PB-031	MDP-007	BDA-22	TPB-003	LLA-5
PSKNR/L 4040-S19	250	50								
PSKNR/L 4040-S25	250	50	SNM..2509..	PDP-006	TPA-028	PB-032	MDP-008	BDA-17	TPB-005	ALLEN 7

PSSNR/L - 45º



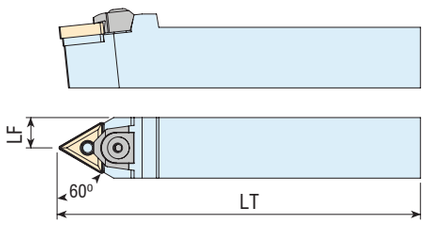


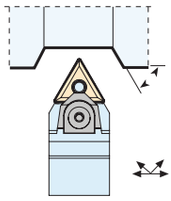


REFERENCIA	LF	WF	INSERTO	PALANCA PLACA	TORNILLO BRIDA	PLACA BASE	CASQUILLO PLACA BASE	BRIDA PLACA	TORNILLO BRIDA	LLAVE
PSSNR/L 1616-H09	100	20	SNM..0903..	PDP-001	TPA-024	PB-027	MDP-003	-	-	LLA-2
PSSNR/L 2020-K09	125	25								
PSSNR/L 2020-K12	125	25	SNM..1204..	PDP-002	TPA-025	PB-029	MDP-005	BDA-18	TDA-066	LLA-3
PSSNR/L 2525-M12	150	32								
PSSNR/L 3232-P12	170	40								
PSSNR/L 3232-P15	170	40	SNM..1506..	PDP-004	TPA-026	PB-030	MDP-006	BDA-22	TPB-003	LLA-3
PSSNR/L 3232-P19	170	40	SNM..1906..	PDP-005	TPA-027	PB-031	MDP-007	BDA-22	TPB-003	LLA-5
PSSNR/L 4040-S19	250	50								
PSSNR/L 4040-S25	250	50	SNM..2509..	PDP-006	TPA-028	PB-032	MDP-008	BDA-17	TPB-005	ALLEN 7

MTENN - 60º



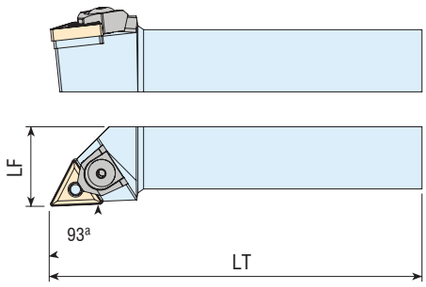


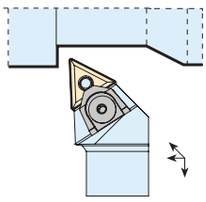


REFERENCIA	LF	WF	INSERTO	BRIDA PLACA	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA	ANILLO	ARANDELA	LLAVE
MTENN 2020-K16	125	10	TNM..1604..	BDA-10	TAB-018	PB-002	PDP-010	MDP-015	MDP-009	LLA-3
MTENN 2525-M16	150	12.5								
MTENN 3232-P16	170	16								
MTENN 2525-M22	150	12.5	TNM..2204..	BDA-13	TAB-018	PB-004	PDP-011	MDP-015	MDP-009	LLA-3
MTENN 3232-P22	170	16								
MTENN 4040-S22	250	20								

MTJNR/L - 93º



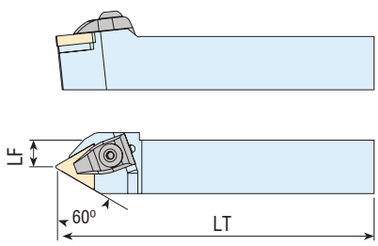


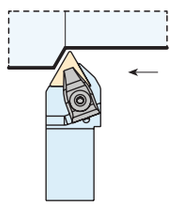


REFERENCIA	LF	WF	INSERTO	BRIDA PLACA	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA	ANILLO	ARANDELA	LLAVE
MTJNR/L 2020-K16	125	25	TNM..1604..	BDA-10	TAB-018	PB-002	PDP-010	MDP-015	MDP-009	LLA-3
MTJNR/L 2525-M16	150	32								
MTJNR/L 3232-P16	170	40								
MTJNR/L 2525-M22	150	32	TNM..2204..	BDA-13	TAB-018	PB-004	PDP-011	MDP-015	MDP-009	LLA-3
MTJNR/L 3232-P22	170	40								
MTJNR/L 4040-S22	250	50								

TTENN - 60º

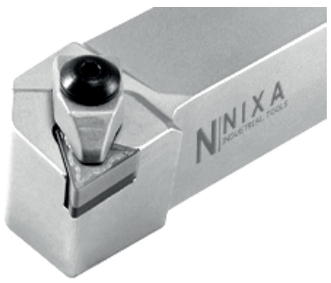


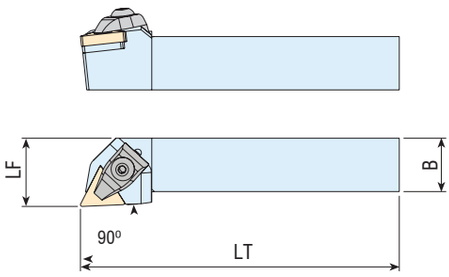


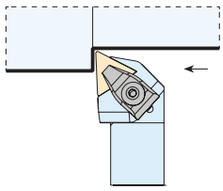


REFERENCIA	LF	WF	INSERTO	BRIDA PLACA	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA	ANILLO	ARANDELA	LLAVE
TTENN 2020-K16	125	10	TNM..1604..	BDA-01	TAB-001	PB-002	TPB-008	-	MDP-009	LLA-3
TTENN 2525-M16	150	12.5								
TTENN 3232-P16	170	16								
TTENN 2525-M22	150	12.6	TNM..2204..	BDA-02	TAB-018	PB-004	TPB-002	MDP-015	MDP-009	LLA-3
TTENN 3232-P22	170	16								

TTGNR/L - 90º

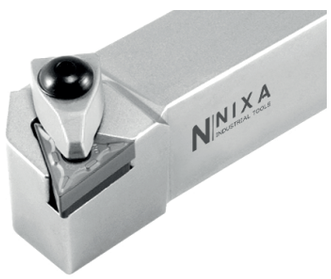


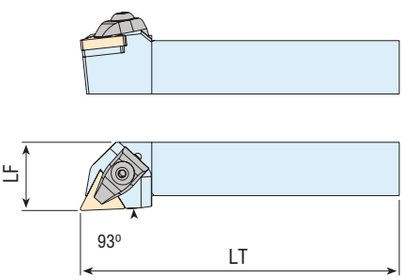


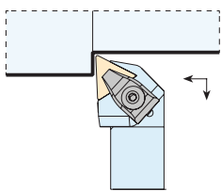


REFERENCIA	LF	WF	INSERTO	BRIDA PLACA	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA	ANILLO	ARANDELA	LLAVE
TTGNR/L 2020-K16	125	25	TNM..1604..	BDA-01	TAB-001	PB-002	TPB-008	-	MDP-009	LLA-3
TTGNR/L 2525-M16	150	32								
TTGNR/L 3232-P16	170	40								
TTGNR/L 2525-M22	150	32	TNM..2204..	BDA-02	TAB-018	PB-004	TPB-002	MDP-015	MDP-009	LLA-3
TTGNR/L 3232-P22	170	40								
TTGNR 4040-S22	250	50								

TTJNR/L - 93º



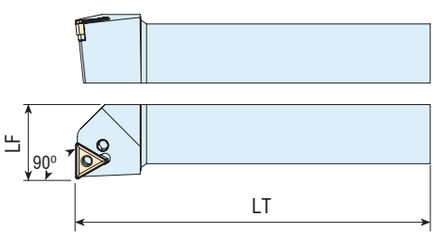


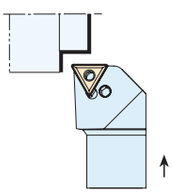


REFERENCIA	LF	WF	INSERTO	BRIDA PLACA	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA	ANILLO	ARANDELA	LLAVE
TTJNR/L 2020-K16	125	25	TNM..1604..	BDA-01	TAB-001	PB-002	TPB-008	-	MDP-009	LLA-3
TTJNR/L 2525-M16	150	32								
TTJNR/L 3232-P16	170	40								
TTJNR/L 2525-M22	150	32	TNM..2204..	BDA-02	TAB-018	PB-004	TPB-002	MDP-015	MDP-009	LLA-3
TTJNR/L 3232-P22	170	40								

PTFNR/L - 90º



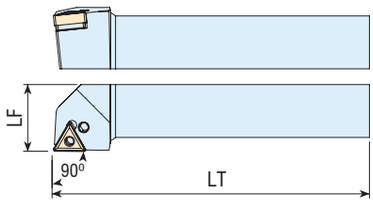


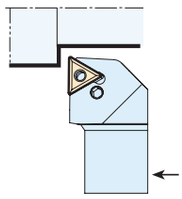


REFERENCIA	LF	WF	INSERTO	PALANCA PLACA	TORNILLO BRIDA	PLACA BASE	CASQUILLO PLACA BASE	BRIDA PLACA	TORNILLO BRIDA	LLAVE
PTFNR/L 1616-H16	100	20	TNM..1604..	PDP-001	TPA-024	PB-003	MDP-003	-	-	LLA-2
PTFNR/L 2020-K16	125	25								
PTFNR/L 2525-M16	150	32								
PTFNR/L 3232-P16	170	40								
PTFNR/L 2525-M22	150	32	TNM..2204	PDP-002	TPA-025	PB-004	MDP-005	BDA-18	TDA-066	LLA-3
PTFNR/L 3232-P22	170	40								

PTGNR/L - 90º



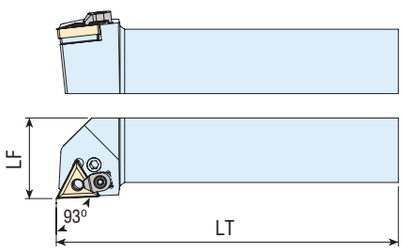


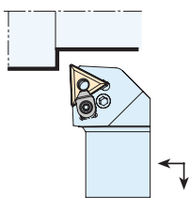


REFERENCIA	LF	WF	INSERTO	PALANCA PLACA	TORNILLO BRIDA	PLACA BASE	CASQUILLO PLACA BASE	BRIDA PLACA	TORNILLO BRIDA	LLAVE
PTGNR/L 1616-H16	100	20	TNM..1604..	PDP-001	TPA-024	PB-003	MDP-003	-	-	LLA-2
PTGNR/L 2020-K16	125	25								
PTGNR/L 2525-M16	150	32								
PTGNR/L 2525-M22	170	40	TNM..2204	PDP-002	TPA-025	PB-004	MDP-005	BDA-18	TDA-066	LLA-3
PTGNR/L 3232-P22	150	32								
PTFNR/L 3232-P22	170	40								

PTJNR/L - 93º



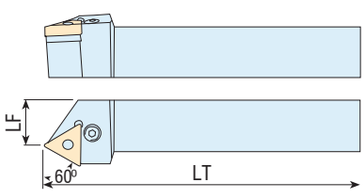


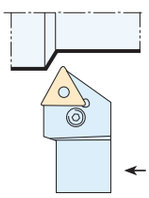


REFERENCIA	LF	WF	INSERTO	PALANCA PLACA	TORNILLO BRIDA	PLACA BASE	CASQUILLO PLACA BASE	BRIDA PLACA	TORNILLO BRIDA	LLAVE
PTJNR/L 1616-H16	100	20	TNM..1604..	PDP-001	TPA-024	PB-003	MDP-003	-	-	LLA-2
PTJNR/L 2020-K16	125	25								
PTJNR/L 2525-M16	150	32								
PTJNR/L 3232-P16	170	40								
PTJNR/L 2525-M22	150	32	TNM..2204	PDP-002	TPA-025	PB-004	MDP-005	BDA-18	TDA-066	LLA-3
PTJNR/L 3232-P22	170	40								

PTTNR/L - 60º



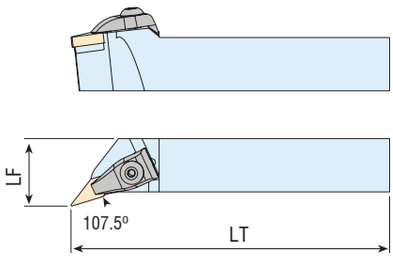


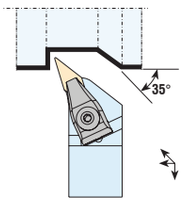


REFERENCIA	LF	WF	INSERTO	PALANCA PLACA	TORNILLO BRIDA	PLACA BASE	CASQUILLO PLACA BASE	BRIDA PLACA	TORNILLO BRIDA	LLAVE
PTTNR/L 1616-H16	100	13	TNM..1604..	PDP-001	TPA-024	PB-003	MDP-003	-	-	LLA-2
PTTNR/L 2020-K16	125	17								
PTTNR/L 2525-M16	150	21.5								
PTTNR/L 3232-P16	170	31								
PTTNR/L 2525-M22	150	20.5	TNM..2204	PDP-002	TPA-025	PB-004	MDP-005	BDA-18	TDA-066	LLA-3
PTTNR/L 3232-P22	170	29								

TVHNR/L - 107.5º



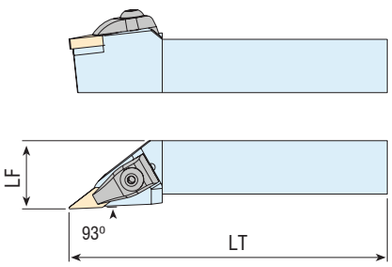


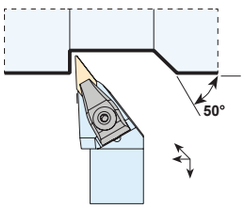


REFERENCIA	LF	WF	INSERTO	BRIDA PLACA	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA	ANILLO	ARANDELA	LLAVE
TVHNR/L 2020-K16	125	25	VNM..1604..	BDA-03	TAB-018	PB-038	TPB-009	MDP-015	MDP-009	LLA-3
TVHNR/L 2525-M16	150	32								
TVHNR/L 3232-P16	170	40								

TVJNR/L - 93º



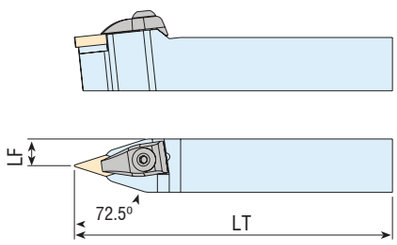


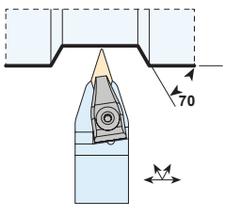


REFERENCIA	LF	WF	INSERTO	BRIDA PLACA	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA	ANILLO	ARANDELA	LLAVE
TVJNR/L 2020-K16	125	25	VNM..1604..	BDA-03	TAB-018	PB-038	TPB-009	MDP-015	MDP-009	LLA-3
TVJNR/L 2525-M16	150	32								
TVJNR/L 3232-P16	170	40								

TVVNN - 72.5º



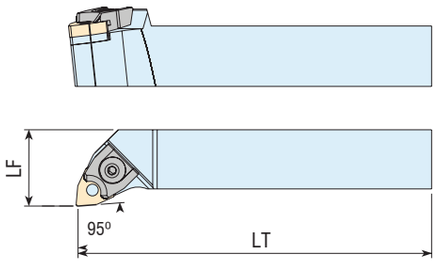


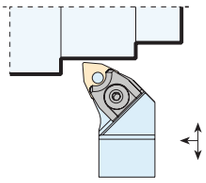


REFERENCIA	LF	WF	INSERTO	BRIDA PLACA	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA	ANILLO	ARANDELA	LLAVE
TVVNN 2020-K16	125	25	VNM..1604..	BDA-03	TAB-018	PB-038	TPB-009	MDP-015	MDP-009	LLA-3
TVVNN 2525-M16	150	32								
TVVNN 3232-P16	170	40								

MWLNR/L - 95º



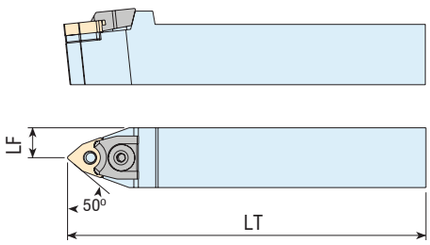


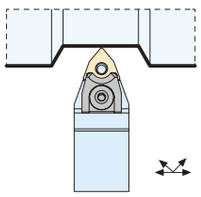


REFERENCIA	LF	WF	INSERTO	BRIDA PLACA	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA	ANILLO	ARANDELA	LLAVE
MWLNR/L 2020-K06	125	20	WNM..0604..	BDA-07	TAB-006	-	PDP-017	-	-	LLA-3
MWLNR/L 2525-M06	150	25								
MWLNR/L 2020-K08	125	32	WNM..0804..	BDA-11	TAB-005	PB-020	PDP-011	MDP-015	MDP-009	LLA-3
MWLNR/L 2525-M08	150	25								
MWLNR/L 3232-P08	170	32								

MWMNN - 50º



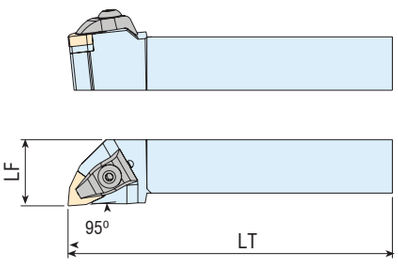


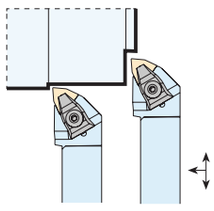


REFERENCIA	LF	WF	INSERTO	BRIDA PLACA	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA	ANILLO	ARANDELA	LLAVE
MWMNN 2020-K06	125	10	WNM..0604..	BDA-07	TAB-006	-	PDP-017	-	-	LLA-3
MWMNN 2525-M06	150	12.5								
MWMNN 2020-K08	125	10	WNM..0804..	BDA-11	TAB-005	PB-020	PDP-011	MDP-015	MDP-009	LLA-3
MWMNN 2525-M08	150	12.6								
MWMNN 3232-P08	170	16								

TWLNR/L - 95º



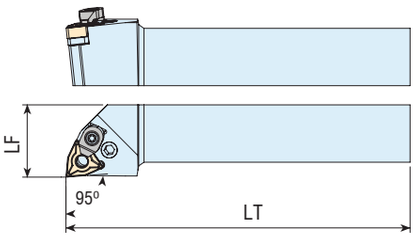


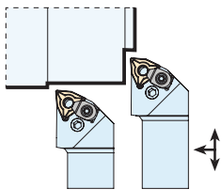


REFERENCIA	LF	WF	INSERTO	BRIDA PLACA	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA	ANILLO	ARANDELA	LLAVE
TWLNR/L 2020-K06	125	25	WNM..0604..	BDA-01	TAB-001	PB-021	TPB-001	-	MDP-009	LLA-3
TWLNR/L 2525-M06	150	32								
TWLNR/L 2020-K08	125	25	WNM..0804..	BDA-02	TAB-018	PB-020	TPB-002	MDP-015	MDP-009	LLA-3
TWLNR/L 2525-M08	150	32								
TWLNR/L 3232-P08	170	40								
TWLNR/L 4040-S08	250	50								

PWLNR/L - 95º



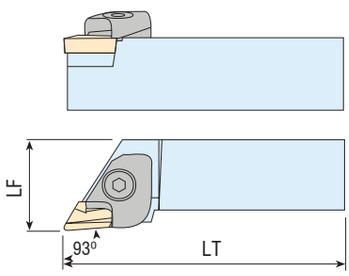


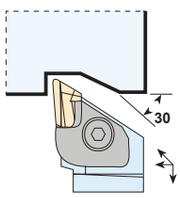


REFERENCIA	LF	WF	INSERTO	PALANCA PLACA	TORNILLO BRIDA	PLACA BASE	CASQUILLO PLACA BASE	BRIDA PLACA	TORNILLO BRIDA	LLAVE
PWLNR/L 1616-H06	100	20	WNM..0604..	PDP-001	TPA-024	PB-021	MDP-003	-	-	LLA-2
PWLNR/L 2020-K06	125	25								
PWLNR/L 2525-M06	150	32								
PWLNR/L 1616-H08	100	20	WNM..0804..	PDP-002	TPA-025	PB-020	MDP-005	BDA-18	TDA-066	LLA-3
PWLNR/L 2020-K08	125	25								
PWLNR/L 2525-K08	150	32								
PWLNR/L 3232-P08	170	40								

CKJNR/L - 93º

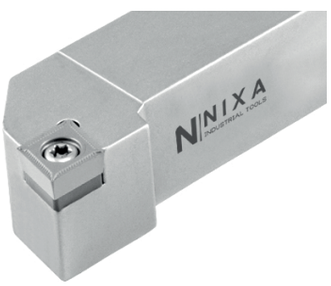


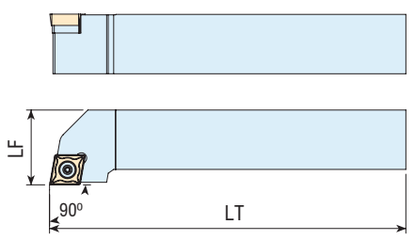


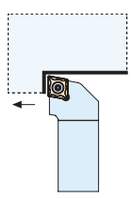


REFERENCIA	LF	WF	INSERTO	BRIDA PLACA	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA	MUELLE	ARANDELA	LLAVE
CKJNR/L 2020-K16	100	20	KNUX1604..	BDA-14 BDA-15	TAB-008	PB-023 PB-022	TPB-001	MDP-002	MDP-009	LLA-4
CKJNR/L 2525-M16	125	25								
CKJNR/L 3232-P16	150	32								
CKJNR/L 4040-S16	100	20								

SCACR/L - 90º

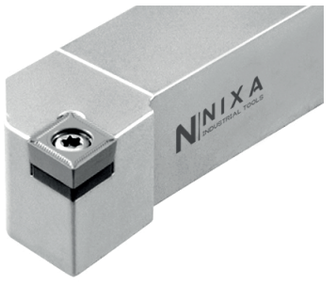


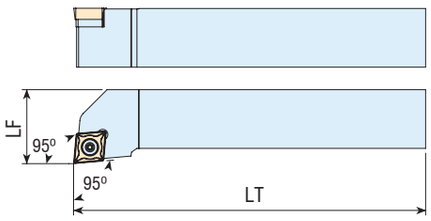


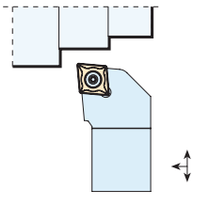


REFERENCIA	LF	WF	INSERTO	TORNILLO PLACA	PLACA BASE	TORNILLO PLACA BASE	LLAVE
SCACR/L 1212-F09	80	16	CC.T09T3..	TDA-049	-	-	LLT-15
SCACR/L 1616-H09	100	20		TDA-051	PB-013	TPB-011	LLT-15
SCACR/L 2020-K09	125	25					
SCACR/L 2020-K12	125	25	CC.T1204..	TDA-074	PB-045	TPB-012	LLT-20
SCACR/L 2525-M12	150	32					

SCLCR/L - 95º

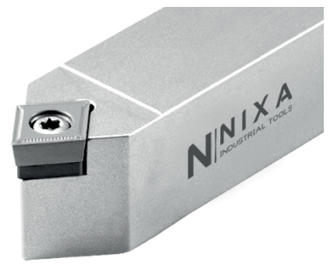


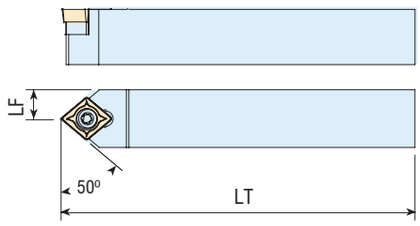


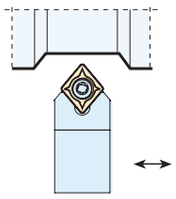


REFERENCIA	LF	WF	INSERTO	TORNILLO PLACA	PLACA BASE	TORNILLO PLACA BASE	LLAVE
SCLCR/L 1212-F09	80	16	CC.T09T3..	TDA-049	-	-	LLT-15
SCLCR/L 1616-H09	100	20		TDA-051	PB-013	TPB-011	LLT-15
SCLCR/L 2020-K09	125	25					
SCLCR/L 2525-M09	150	32					
SCLCR/L 2020-K12	125	25	CC.T1204..	TDA-074	PB-045	TPB-012	LLT-20
SCLCR/L 2525-K12	150	32					

SCMCN - 50º

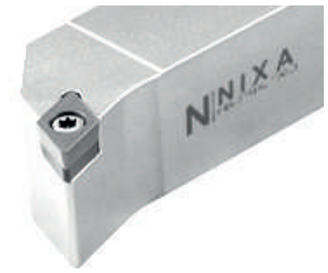


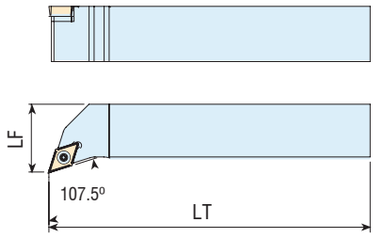


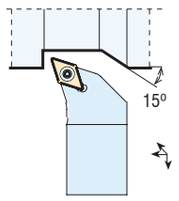


REFERENCIA	LF	WF	INSERTO	TORNILLO PLACA	PLACA BASE	TORNILLO PLACA BASE	LLAVE
SCMCN 1212-F09	80	6	CC.T09T3..	TDA-049	-	-	LLT-15
SCMCN 1616-H09	100	8		TDA-051	PB-013	TPB-011	LLT-15
SCMCN 2020-K12	125	10	CC.T1204..	TDA-074	PB-045	TPB-012	LLT-20
SCMCN 2525-M12	150	12.5					

SDHCR/L - 107.5º



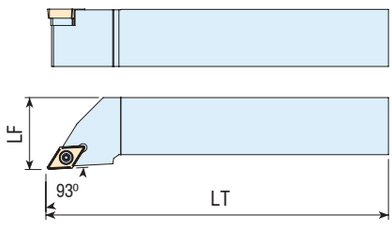


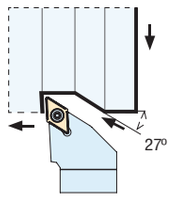


REFERENCIA	LF	WF	INSERTO	TORNILLO PLACA	PLACA BASE	TORNILLO PLACA BASE	LLAVE
SDHCR/L 1616-H11	80	16	DC.T11T3..	TDA-051	PB-034	TPB-011	LLT-15
SDHCR/L 2020-K11	100	20					
SDHCR/L 2525-M11	125	25					
SDHCR/L 3232-P11	150	32					

SDJCR/L - 93º

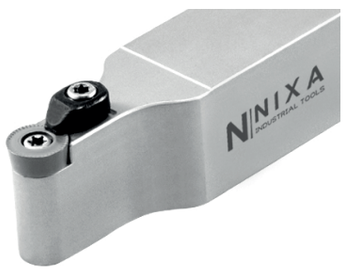


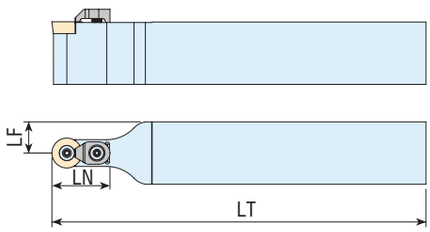


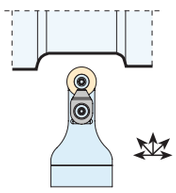


REFERENCIA	LF	WF	INSERTO	TORNILLO PLACA	PLACA BASE	TORNILLO PLACA BASE	LLAVE
SDJCR/L 1616-H11	80	16	DC.T11T3..	TDA-051	PB-034	TPB-011	LLT-15
SDJCR/L 2020-K11	100	20					
SDJCR/L 2525-M11	125	25					
SDJCR/L 3232-P11	150	32					

SRDCN - Frontal



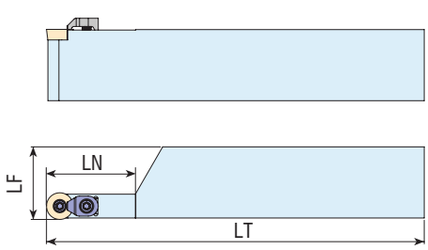


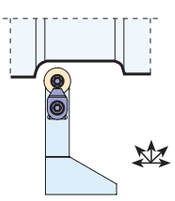


REFERENCIA	LF	LN	WF	INSERTO	TORNILLO PLACA	BRIDA PLACA	TORNILLO BRIDA	LLAVE
SRDCN 1616-H06	100	15	8	RC.T0602..	TDA-014	-	-	LLT-8
SRDCN 2020-K06	125	17	10					
SRDCN 2525-M06	150	17	12.5					
SRDCN 1616-H08	100	15	8	RC.T0803..	TDA-027	BDA-26	TDA-049	LLT-8
SRDCN 2020-K08	125	20	10					
SRDCN 2525-M08	150	20	12.5					
SRDCN 1616-H10	100	20	8	RC.T10T3..	TDA-049	BDA-26	TDA-049	LLT-15
SRDCN 2020-K10	125	20	10					
SRDCN 2525-M10	150	20	12.5					
SRDCN 3232-P10	170	20	16					
SRDCN 2020-K12	125	22	10	RC.1204..	TDA-049	BDA-18	TDA-066	LLT-15
SRDCN 2525-M12	150	22	12.5					
SRDCN 3232-P12	170	22	16					
SRDCN 2525-M16	150	32	12.5	RC.T1605..	TDA-081	BDA-18	TDA-066	LLT-20
SRDCN 3232-P16	170	35	16					
SRDCN 2525-M20	150	32	12.5	RC.T2006..	TDA-089	BDA-22	TPB-003	LLT-20
SRDCN 3232-P20	170	40	16					

SRDCR/L - Lateral



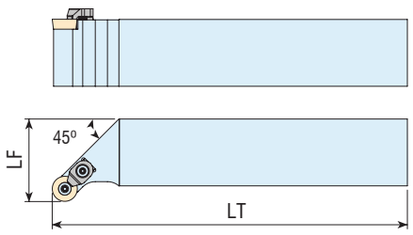


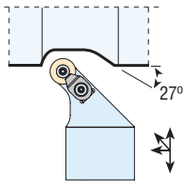


REFERENCIA	LF	LN	WF	INSERTO	TORNILLO PLACA	BRIDA PLACA	TORNILLO BRIDA	LLAVE
SRDCR/L 3232-P12	170	40	32.65	RC.1204..	TDA-049	BDA-18	TDA-066	LLT-15

SRGCR/L - Ángulo

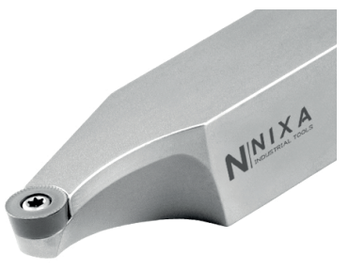


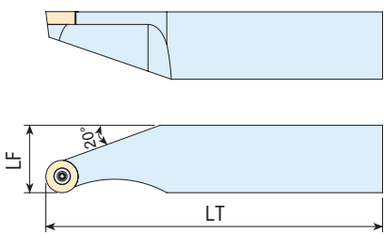


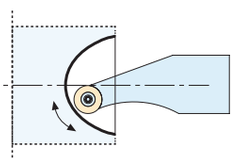


REFERENCIA	LF	WF	INSERTO	TORNILLO PLACA	BRIDA PLACA	TORNILLO BRIDA	LLAVE
SRGCR/L 1616-H06	100	20	RC.T0602..	TDA-014	-	-	LLT-8
SRGCR/L 2020-K06	125	25					
SRGCR/L 1616-H08	100	20	RC.T0803..	TDA-027	BDA-26	TDA-049	LLT-8
SRGCR/L 2020-K08	125	25					
SRGCR/L 2525-M08	150	32					
SRGCR/L 1616-H10	100	20	RC.T10T3..	TDA-049	BDA-26	TDA-049	LLT-15
SRGCR/L 2020-K10	125	25					
SRGCR/L 2525-M10	150	32					
SRGCR/L 3232-P10	170	40					
SRGCR/L 2020-K12	125	25	RC.1204..	TDA-049	BDA-18	TDA-066	LLT-15
SRGCR/L 2525-M12	150	32					
SRGCR/L 3232-P12	170	40					

SRHCR/L - Ángulo 20º



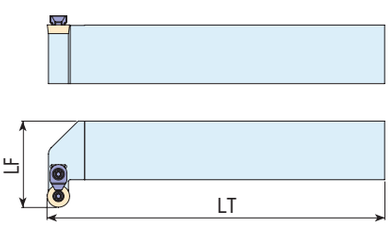


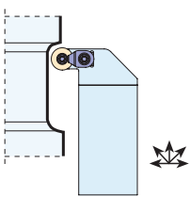


REFERENCIA	LF	WF	MIN R	INSERTO	TORNILLO PLACA	BRIDA PLACA	TORNILLO BRIDA	LLAVE
SRHCR/L 2525-K08	125	25	32.5	RCM.0803..	TDA-027	-	-	LLT-8
SRHCR/L 2525-K10	125	25	36	RCM.10T3..	TDA-049	-	-	LLT-15
SRHCR/L 2525-K12	125	25	40	RCM.1204..	TDA-049	-	-	LLT-15
SRHCR/L 2525-K16	125	25	47.5	RCM.1606..	TDA-081	-	-	LLT-20

SRXCR/L - Ángulo 90º

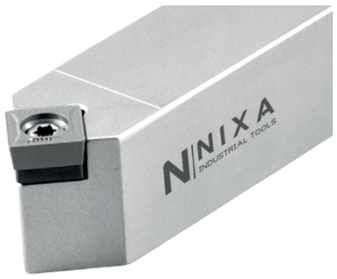


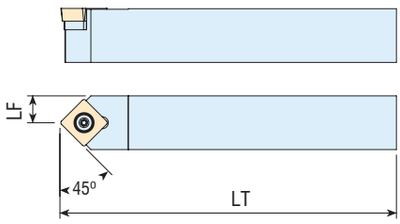


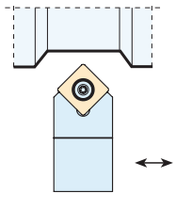


REFERENCIA	LF	WF	INSERTO	TORNILLO PLACA	BRIDA PLACA	TORNILLO BRIDA	LLAVE
SRXCR/L 3232-K08	220	47	RCM.0803..	TDA-027	BDA-26	TDA-049	LLT-8
SRXCR/L 3232-K10	220	47	RCM.10T3..	TDA-049	BDA-26	TDA-049	LLT-15
SRXCR/L 3232-K12	220	47	RCM.1204..	TDA-049	BDA-18	TDA-066	LLT-15

SSDCN - 45º

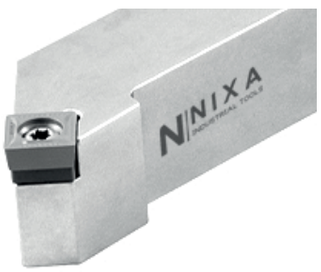


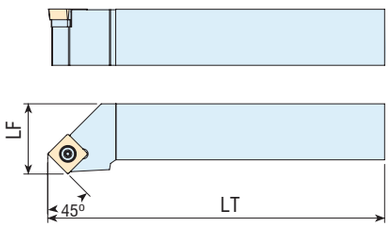


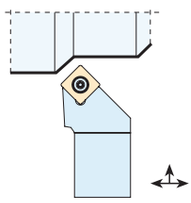


REFERENCIA	LF	WF	INSERTO	TORNILLO PLACA	PLACA BASE	TORNILLO PLACA BASE	LLAVE
SSDCN 1212-F09	80	6	SC.T09T3..	TDA-051	-	-	LLT-15
SSDCN 1616-H09	100	8		TDA-051	PB-026	TPB-011	
SSDCN 2020-K09	125	10		TDA-051	PB-026	TPB-011	
SSDCN 1616-H12	100	8	SC.T1204..	TDA-079	PB-028	TPB-014	LLT-20
SSDCN 2020-K12	125	10		TDA-074	PB-028	TPB-012	
SSDCN 2525-K12	150	12.5		TDA-074	PB-028	TPB-012	

SSSCR/L - 45º

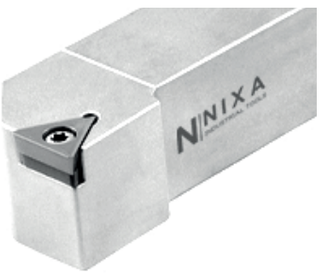


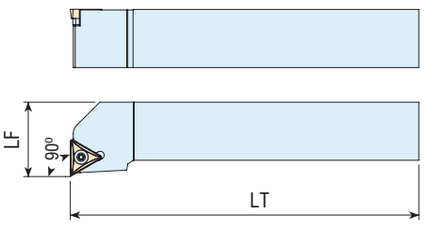


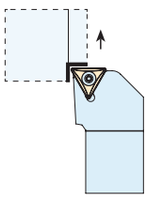


REFERENCIA	LF	WF	INSERTO	TORNILLO PLACA	PLACA BASE	TORNILLO PLACA BASE	LLAVE
SSSCR/L 1212-F09	80	16	SC.T09T3..	TDA-051	-	-	LLT-15
SSSCR/L 1616-H09	100	20		TDA-051	PB-026	TPB-011	
SSSCR/L 2020-K09	125	25		TDA-051	PB-026	TPB-011	
SSSCR/L 1616-H12	100	20	SC.T1204..	TDA-079	PB-028	TPB-014	LLT-20
SSSCR/L 2020-K12	125	25		TDA-074	PB-028	TPB-012	
SSSCR/L 2525-K12	150	32		TDA-074	PB-028	TPB-012	

STFCR/L - 90º

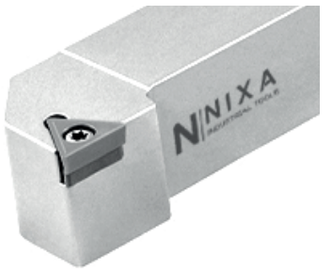


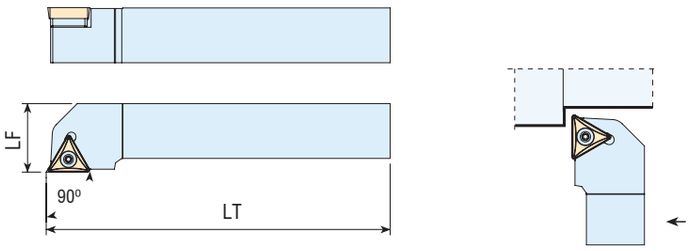




REFERENCIA	LF	WF	INSERTO	TORNILLO PLACA	PLACA BASE	TORNILLO PLACA BASE	LLAVE
STFCR/L 1212-F11	80	16	TC.T1102..	TDA-018	-	-	LLT-8
STFCR/L 1616-H11	100	20					
STFCR/L 1616-H16	100	20	TC.T16T3..	TDA-051	PB-001	TPB-011	LLT-15
STFCR/L 2020-K16	125	25					
STFCR/L 2525-M16	150	32					
STFCR/L 3232-P16	170	40					

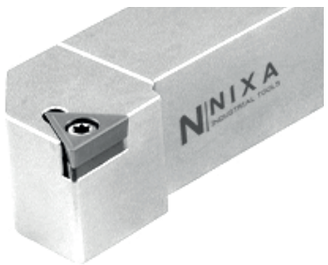
STGCR/L - 90º

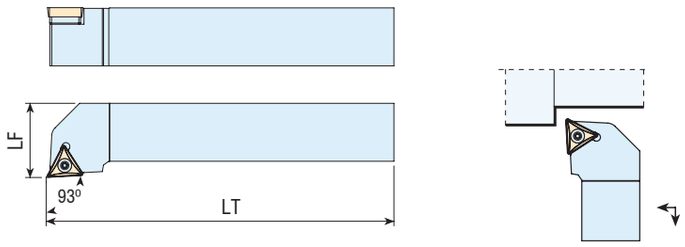




REFERENCIA	LF	WF	INSERTO	TORNILLO PLACA	PLACA BASE	TORNILLO PLACA BASE	LLAVE
STGCR/L 1212-F11	80	16	TC.T1102..	TDA-018	-	-	LLT-8
STGCR/L 1616-H11	100	20					
STGCR/L 1616-H16	100	20	TC.T16T3..	TDA-051	PB-001	TPB-011	LLT-15
STGCR/L 2020-K16	125	25					
STGCR/L 2525-M16	150	32					
STGCR/L 3232-P16	170	40					

STJCR/L - 93º

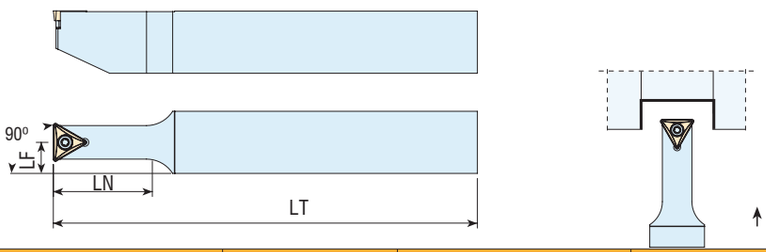




REFERENCIA	LF	WF	INSERTO	TORNILLO PLACA	PLACA BASE	TORNILLO PLACA BASE	LLAVE
STJCR/L 1212-F11	80	16	TC.T1102..	TDA-018	-	-	LLT-8
STJCR/L 1616-H11	100	20					
STJCR/L 1616-H16	100	20	TC.T16T3..	TDA-051	PB-001	TPB-011	LLT-15
STJCR/L 2020-K16	125	25					
STJCR/L 2525-M16	150	32					
STJCR/L 3232-P16	170	40					

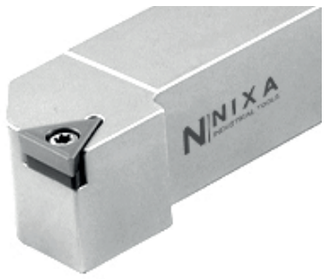
STCCN - 90º

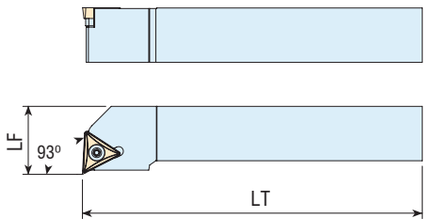


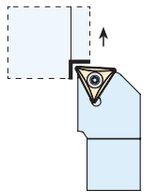


REFERENCIA	LF	WF	LN	INSERTO	TORNILLO PLACA	BRIDA PLACA	TORNILLO BRIDA	LLAVE
STCCN 2020-L11	140	10	50	TC.T1102..	TDA-018	-	-	LLT-8
STCCN 2020-K16	150	10	30	TC.T16T3..	TDA-051	PB-001	TPB-011	LLT-15
STCCN 2525-M16	170	12.5	37.5					
STCCN 3232-R16	200	16	48					

STUCR/L - 93º

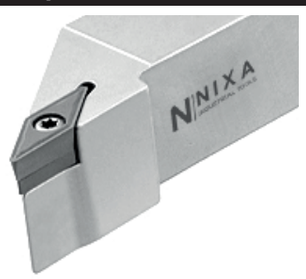


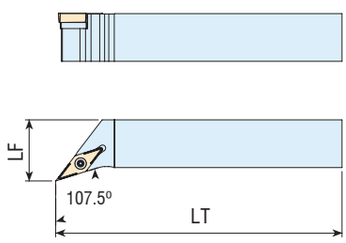


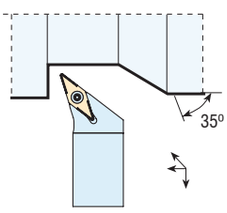


REFERENCIA	LF	WF	INSERTO	TORNILLO PLACA	PLACA BASE	TORNILLO PLACA BASE	LLAVE
STUCR/L 1212-F11	80	16	TC.T1102..	TDA-018	-	-	LLT-8
STUCR/L 1616-H11	100	20					
STUCR/L 2020-K16	125	25	TC.T16T3..	TDA-051	PB-001	TPB-011	LLT-15
STUCR/L 2525-M16	150	32					
STUCR/L 3232-P16	170	40					

SVHBR/L - 107.5º



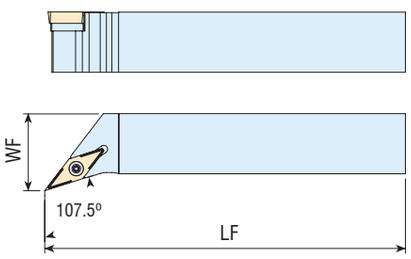


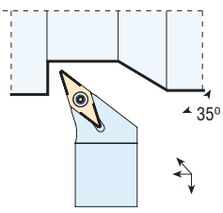


REFERENCIA	LF	WF	INSERTO	TORNILLO PLACA	PLACA BASE	TORNILLO PLACA BASE	LLAVE
SVHBR/L 1212-F11	80	16	VBM.1103..	TDA-018	-	-	LLT-8
SVHBR/L 1616-H11	100	20					
SVHBR/L 2020-K16	125	25	VBM.1604..	TDA-051	PB-001	TPB-011	LLT-15
SVHBR/L 2525-M16	150	32					
SVHBR/L 3232-P16	170	40					

SVHCR/L - 107.5º



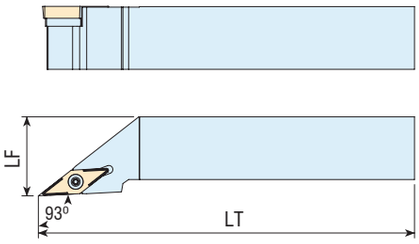


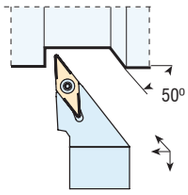


REFERENCIA	LF	WF	INSERTO	TORNILLO PLACA	PLACA BASE	TORNILLO PLACA BASE	LLAVE
SVHCR/L 1212-F11	80	16	VC.T1103..	TDA-018	-	-	LLT-8
SVHCR/L 1616-H11	100	20					
SVHCR/L 2020-K16	125	25	VC.T1604..	TDA-051	PB-001	TPB-011	LLT-15
SVHCR/L 2525-M16	150	32					
SVHCR/L 3232-P16	170	40					

SVJBR/L - 93º

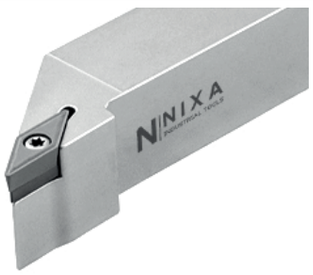


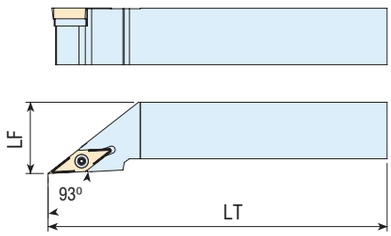


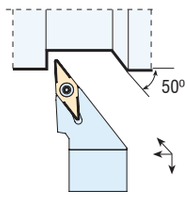


REFERENCIA	LF	WF	INSERTO	TORNILLO PLACA	PLACA BASE	TORNILLO PLACA BASE	LLAVE
SVJBR/L 1212-F11	80	16	VB.T1103..	TDA-018	-	-	LLT-8
SVJBR/L 1616-H11	100	20					
SVJBR/L 2020-K16	125	25	VB.T1604..	TDA-051	PB-001	TPB-011	LLT-15
SVJBR/L 2525-M16	150	32					
SVJBR/L 3232-P16	170	40					

SVJCR/L - 93º



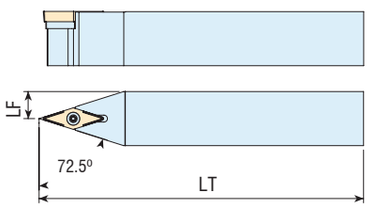


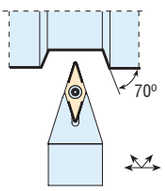


REFERENCIA	LF	WF	INSERTO	TORNILLO PLACA	PLACA BASE	TORNILLO PLACA BASE	LLAVE
SVJCR/L 1212-F11	80	16	VC.T1103..	TDA-018	-	-	LLT-8
SVJCR/L 1616-H11	100	20					
SVJCR/L 2020-K16	125	25	VC.T1604..	TDA-051	PB-001	TPB-011	LLT-15
SVJCR/L 2525-M16	150	32					
SVJCR/L 3232-P16	170	40					

SVVBN - 72.5º





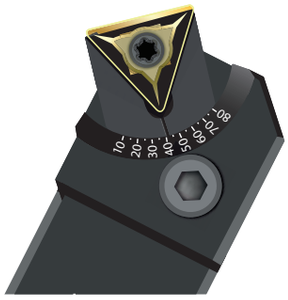


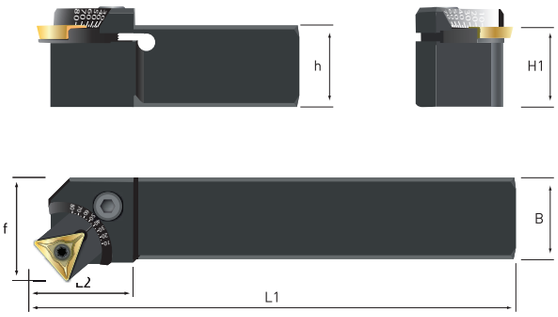
REFERENCIA	LF	WF	INSERTO	TORNILLO PLACA	PLACA BASE	TORNILLO PLACA BASE	LLAVE
SVVBN 1212-F11	80	6	VBM.1103..	TDA-018	-	-	LLT-8
SVVBN 1616-H11	100	8					
SVVBN 2020-K11	125	10					
SVVBN 2020-K16	125	10	VB.T1604..	TDA-051	PB-038	TPB-011	LLT-15
SVVBN 2525-M16	150	12.5					
SVVBN 3232-P16	170	16					

SVVCN - 72.5º

REFERENCIA	LF	WF	INSERTO	TORNILLO PLACA	PLACA BASE	TORNILLO PLACA BASE	LLAVE
SVVCN 1212-F11	80	6	VC.T1103..	TDA-018	-	-	LLT-8
SVVCN 1616-H11	100	8					
SVVCN 2020-K11	125	10					
SVVCN 2020-K16	125	10	VC.T1604..	TDA-051	PB-038	TPB-011	LLT-15
SVVCN 2525-M16	150	12.5					
SVVCN 3232-P16	170	16					

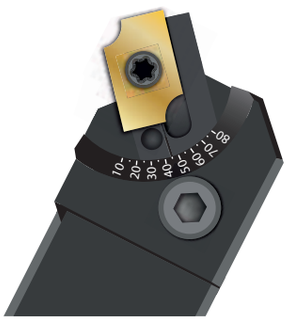
Portaherramientas exterior regulable - Placa TC.T16T3

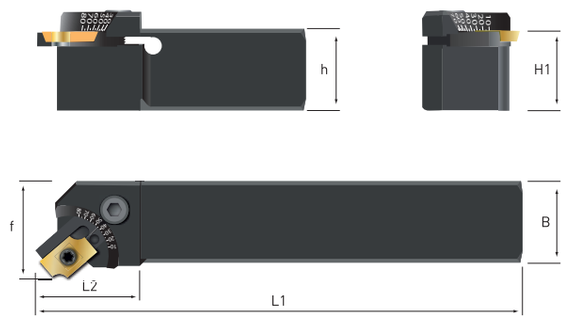




Referencia	h	B	l1	f	H1	L2	Tornillo Placa	Llave tornillo	Para Placa
NPT-NTXCR/L-2020	20	20	140	25	20	27	TDA-097	LLT-15	TC.T16T3
NPT-NTXCR/L-2525	25	25	150	32	25	27	TDA-097	LLT-15	TC.T16T3

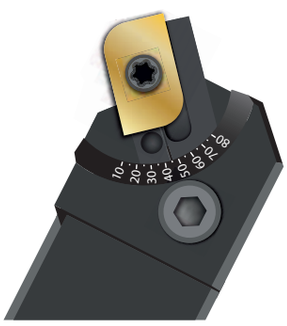
Portaherramientas exterior regulable - Placa NXDCW1503F

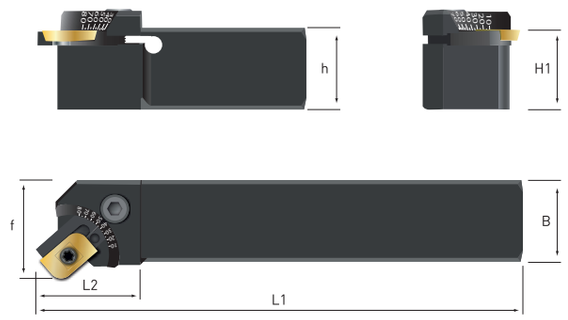




Referencia	h	B	l1	f	H1	L2	Tornillo Placa	Llave Tornillo	Para Placa
NPT-NRXDRF-2020	20	20	140	25	20	27	TDA-097	LLT-15	NXDCW1503F
NPT-NRXDRF-2525	25	25	150	32	25	27	TDA-097	LLT-15	NXDCW1503F

Portaherramientas exterior regulable - Placa NXDCW1503M

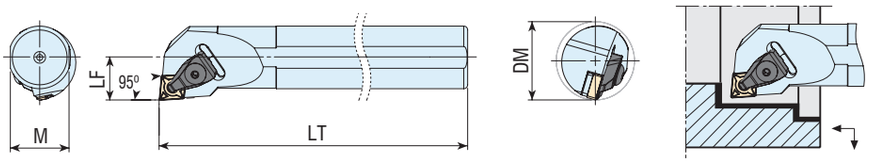




Referencia	h	B	l1	f	H1	L2	Tornillo Placa	Llave Tornillo	Para Placa
NPT-NRXDRM-2020	20	20	140	25	20	27	TDA-097	LLT-15	NXDCW1503M
NPT-NRXDRM-2525	25	25	150	32	25	27	TDA-097	LLT-15	NXDCW1503M

TCLNR/L - INT 95º

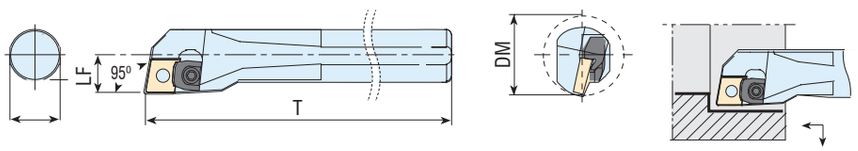




REFERENCIA	M	LF	WF	DMIN	INSERTO	BRIDA AMARRE	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA BASE	ANILLO/ ARANDELA	LLAVE
S25S-TCLNR/L 12	23	250	17	32	CNM.1204..	BDA-02	TAB-018	PB-015	TPB-006	MDP-015 MDP-009	LLA-3
S32T-TCLNR/L 12	30	300	22	40					TPB-002		
S40U-TCLNR/L 12	37.5	350	27	50							
S50V-TCLNR/L 12	47	400	35	63							
S32T-TCLNR/L 16	30	300	22	40	CNM.1606..	BDA-04	TAB-013	PB-016	TPB-003	MDP-016 MDP-010	LLA-4
S40U-TCLNR/L 16	37.5	350	27	50							
S50V-TCLNR/L 16	47	400	35	63							

TCLNR/L - INT 95º



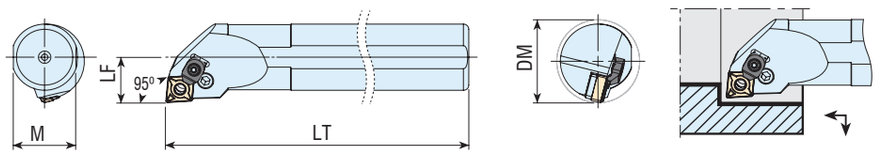


REFERENCIA	H	LF	WF	DMIN	INSERTO	BRIDA AMARRE	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA BASE	ANILLO/ ARANDELA	LLAVE
S20R-MCLNR/L 12	18.3	200	13	25	CNM.1204..	BDA-12	TAB-006	-	PDP-021	-	LLA-3
S25S-MCLNR/L 12	23	250	17	32		BDA-09		PB-015	PDP-022		
S32T-MCLNR/L 12	30	300	22	40					PDP-013		

M

PCLNR/L - INT 95º

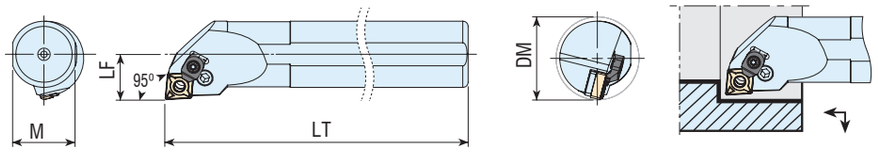




REFERENCIA	H	LF	WF	DMIN	INSERTO	PALANCA AMARRE	TORNILLO AMARRE	PLACA BASE	ARANDELA PLACA BASE	BRIDA AMARRE	TORNILLO BRIDA	LLAVE
S16P-PCLNR/L 09	14.8	170	11	20	CNM.0903..	PDP-007	TPA-029	-	MDP-004	-	-	LLA-2.5
S20R-PCLNR/L 09	18.3	200	13	25				PB-014	MDP-003			
S25S-PCLNR/L 09	23	250	17	32				PB-014	MDP-003			
S25S-PCLNR/L 12	23	250	17	32	CNM.1204..	PDP-002	TPA-030	PB-015	MDP-005	BDA-18	TDA-066	LLA-3
S32T-PCLNR/L 12	30	300	22	40			TPA-025					
S40U-PCLNR/L 12	37.5	350	27	50								
S50V-PCLNR/L 12	47	400	35	63								
S32T-PCLNR/L 16	30	300	22	40	CNM.1606..	PDP-004	TPA-026	PB-016	MDP-006	BDA-22	TPB-003	LLA-3
S40U-PCLNR/L 16	37.5	350	27	50								
S50V-PCLNR/L 16	47	400	35	63								
S40U-PCLNR/L 19	37.5	350	27	50	CNM.1906..	PDP-005	TPA-027	PB-017	MDP-007	BDA-22	TPB-003	LLA-4
S50V-PCLNR/L 19	47	400	35	63								

PCLNR/L - INT 95º - CON REFRIGERACIÓN INTERIOR

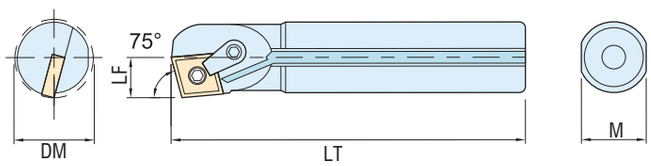




REFERENCIA	H	LF	WF	DMIN	INSERTO	PALANCA AMARRE	TORNILLO AMARRE	PLACA BASE	ARANDELA PLACA BASE	BRIDA AMARRE	TORNILLO BRIDA	LLAVE
R20P-PCLNR/L 09	14.8	170	11	20	CNM.0903..	PDP-001	TPA-024	PB-014	MDP-003	-	-	LLA-2.5
R25R-PCLNR/L 12	23	250	17	32	CNM.1204..	PDP-002	TPA-030	PB-015	MDP-005	BDA-18	TDA-066	LLA-3
R32S-PCLNR/L 12	30	300	22	40			TPA-025					
R40T-PCLNR/L 12	37.5	350	27	50								
R50U-PCLNR/L 12	47	400	35	63								
R32S-PCLNR/L 16	30	300	22	40	CNM.1606..	PDP-004	TPA-026	PB-016	MDP-006	BDA-22	TPB-003	LLA-3
R40T-PCLNR/L 16	37.5	350	27	50								
R50U-PCLNR/L 16	47	400	35	63								
R40T-PCLNR/L 19	37.5	300	27	50	CNM.1906..	PDP-005	TPA-027	PB-017	MDP-007	BDA-22	TPB-003	LLA-4
R50U-PCLNR/L 19	47	350	35	63								

PCKNR - 75º





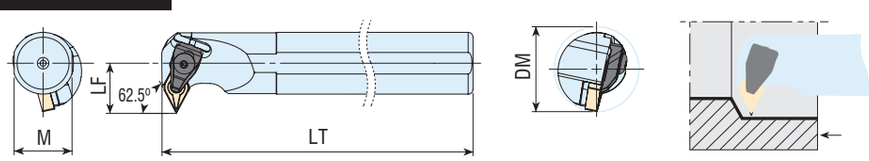
REFERENCIA	H	LF	WF	DMIN	INSERTO	PALANCA AMARRE	TORNILLO AMARRE	PLACA BASE	ARANDELA PLACA BASE	BRIDA AMARRE	TORNILLO BRIDA	LLAVE
S32S-PCKNR-12	30	48	19.5	40	CN..1204	PDP-025	-	PB-046	-	BDA-35	TDA-107	LLT-15
S40U-PCKNR-12	337	55	25.5	50	CN..1204	PDP-002	TPA-025	PB-015	MDP-005	BDA-18	TDA-066	LLA-3
S50V-PCKNR-12	47	60	30.5	60	CN..1204	PDP-025	-	PB-046	-	BDA-35	TDA-107	LLT-15

PCKNR 75º - CON REFRIGERACIÓN

REFERENCIA	H	LF	WF	DMIN	INSERTO	PALANCA AMARRE	TORNILLO AMARRE	PLACA BASE	ARANDELA PLACA BASE	BRIDA AMARRE	TORNILLO BRIDA	LLAVE
R32S-PCKNR-12	30	48	19.5	40	CN..1204	PDP-025	-	PB-046	-	BDA-35	TDA-107	LLT-15
R40U-PCKNR-12	337	55	25.5	50	CN..1204	PDP-025	-	PB-046	-	BDA-35	TDA-107	LLT-15
R50V-PCKNR-12	47	60	30.5	60	CN..1204	PDP-025	-	PB-046	-	BDA-35	TDA-107	LLT-15

TD-NR/L - INT 62.5º

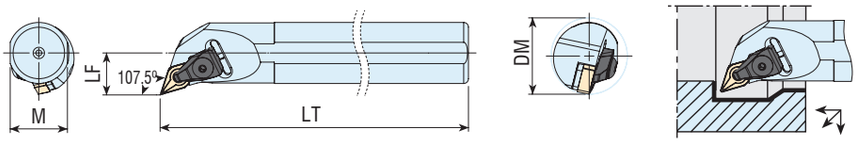




REFERENCIA	H	LF	WF	DMIN	INSERTO	BRIDA AMARRE	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA BASE	ANILLO/ ARANDELA	LLAVE
S32T-TD-NR/L 15	30	300	26	44	DNM.1506..	BDA-02	TAB-018	PB-036	TPB-002	MDP-015 MDP-009	LLA-3
S40U-TD-NR/L 15	37.5	350	29	52							
S50V-TD-NR/L 15	47	400	35	63							

TDQNR/L - INT 107.5º

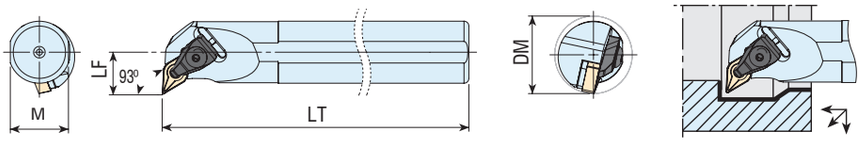




REFERENCIA	H	LF	WF	DMIN	INSERTO	BRIDA AMARRE	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA BASE	ANILLO/ ARANDELA	LLAVE
S25S-TDQNR/L 11	23	250	17	32	DNM.1104..	BDA-01	TAB-001	PB-034	TPB-010	MDP-009	LLA-3
S32T-TDQNR/L 11	30	300	22	40					TPB-009		
S25S-TDQNR/L 15	23	250	17	32	DNM.1506..	BDA-02	TAB-018	PB-036	TPB-006		
S32T-TDQNR/L 15	30	300	22	40					TPB-002	MDP-015 MDP-009	LLA-3
S40U-TDQNR/L 15	37.5	350	27	50							
S50V-TDQNR/L 15	47	400	35	63							

TDUNR/L - INT 93º

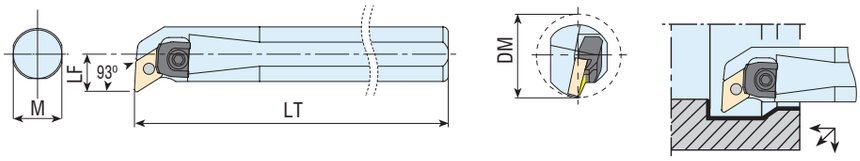




REFERENCIA	H	LF	WF	DMIN	INSERTO	BRIDA AMARRE	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA BASE	ANILLO/ ARANDELA	LLAVE
S25S-TDUNR/L 11	23	250	17	32	DNM.1104..	BDA-01	TAB-001	PB-034	TPB-010	MDP-009	LLA-3
S32T-TDUNR/L 11	30	300	22	40					TPB-009		
S25S-TDUNR/L 15	23	250	17	32	DNM.1506..	BDA-02	TAB-018	PB-036	TPB-006		
S32T-TDUNR/L 15	30	300	22	40					TPB-002	MDP-015 MDP-009	LLA-3
S40U-TDUNR/L 15	37.5	350	27	50							
S50V-TDUNR/L 15	47	400	35	63							

MDUNR/L - INT 93º

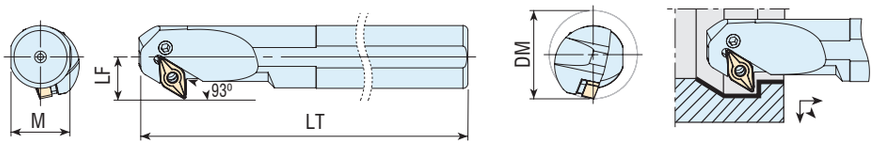




REFERENCIA	H	LF	WF	DMIN	INSERTO	BRIDA AMARRE	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA BASE	ANILLO/ ARANDELA	LLAVE
S20R-MDUNR/L 11	18.3	200	13	25	DNM.1104..	BDA-09	TAB-012	-	PDP-012	-	LLA-3
S25S-MDUNR/L 11	23	250	17	32			TAB-006				
S32T-MDUNR/L 11	30	300	22	40							
S25S-MDUNR/L 15	23	250	17	32	DNM.1506..	BDA-10	TAB-014	PB-036	PDP-013	MDP-009	LLA-3
S32T-MDUNR/L 15	30	300	22	40			TAB-018			MDP-015 MDP-009	
S40U-MDUNR/L 15	37.5	350	27	50							
S50V-MDUNR/L 15	47	400	35	63							

PDXNR/L - INT 93º





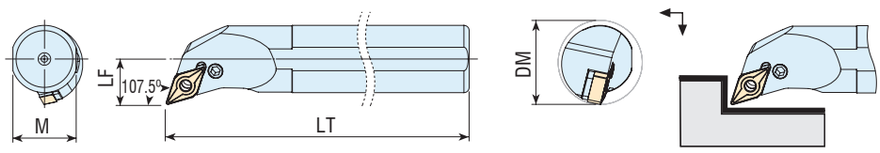
REFERENCIA	H	LF	WF	DMIN	INSERTO	PALANCA AMARRE	TORNILLO AMARRE	PLACA BASE	ARANDELA PLACA BASE	BRIDA AMARRE	TORNILLO BRIDA	LLAVE
S32T-PDXNR/L 15	30	300	22	45	DNM.1506..	PDP-003	TPA-025	PB-036	MDP-005	-	-	LLA-3
S40U-PDXNR/L 15	37.5	350	27	50			TPA-025					
S50V-PDXNR/L 15	47	400	35	63								

PDXNR/L - INT 93º - CON REFRIGERACIÓN INTERIOR

REFERENCIA	H	LF	WF	DMIN	INSERTO	PALANCA AMARRE	TORNILLO AMARRE	PLACA BASE	ARANDELA PLACA BASE	BRIDA AMARRE	TORNILLO BRIDA	LLAVE
R32S-PDXNR/L 15	30	250	22	45	DNM.1506..	PDP-003	TPA-025	PB-036	MDP-005	-	-	LLA-3
R40T-PDXNR/L 15	37.5	300	27	50			TPA-025					
R50U-PDXNR/L 15	47	350	35	63								

PDQNR/L - INT 107.5º



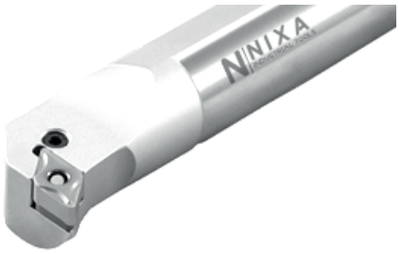


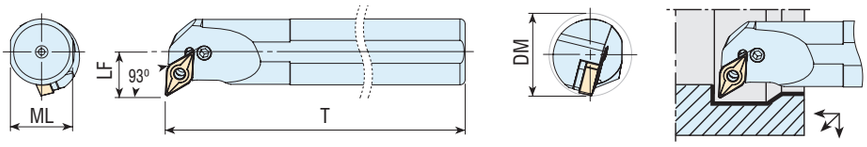
REFERENCIA	H	LF	WF	DMIN	INSERTO	PALANCA AMARRE	TORNILLO AMARRE	PLACA BASE	ARANDELA PLACA BASE	BRIDA AMARRE	TORNILLO BRIDA	LLAVE
S20R-PDQNR/L 11	18.3	200	13	25	DNM.1104..	PDP-001	TPA-023	PB-035	MDP-003	-	-	LLA-2.5
S25S-PDQNR/L 11	23	250	17	32			TPA-024					
S32T-PDQNR/L 154	30	300	22	40	DNM.1504..	PDP-003	TPA-025	PB-037	MDP-005	-	-	LLA-3
S40U-PDQNR/L 154	37.5	350	27	50								
S50V-PDQNR/L 154	47	400	35	63								
S32T-PDQNR/L 15	30	300	22	40	DNM.1506..	PDP-003	TPA-025	PB-036	MDP-005	-	-	LLA-3
S40U-PDQNR/L 15	37.5	350	27	50								
S50V-PDQNR/L 15	47	400	35	63								

PDQNR/L - INT 107.5º - CON REFRIGERACIÓN INTERIOR

REFERENCIA	H	LF	WF	DMIN	INSERTO	PALANCA AMARRE	TORNILLO AMARRE	PLACA BASE	ARANDELA PLACA BASE	BRIDA AMARRE	TORNILLO BRIDA	LLAVE
R20P-PDQNR/L 11	18.3	170	13	25	DNM.1104..	PDP-001	TPA-023	PB-035	MDP-003	-	-	LLA-2.5
R25R-PDQNR/L 11	23	200	17	32			TPA-024					
R32S-PDQNR/L 154	30	250	22	40	DNM.1504..	PDP-003	TPA-025	PB-037	MDP-005	-	-	LLA-3
R40T-PDQNR/L 154	37.5	300	27	50								
R32S-PDQNR/L 15	30	350	22	40	DNM.1506..	PDP-003	TPA-025	PB-036	MDP-005	-	-	LLA-3
R40T-PDQNR/L 15	37.5	250	27	50								
R50U-PDQNR/L 15	47	300	35	63								

PDUNR/L - INT 93º



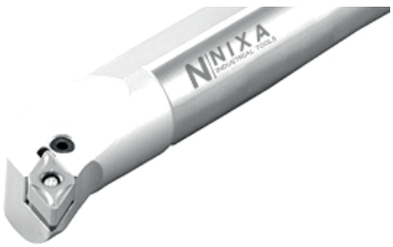


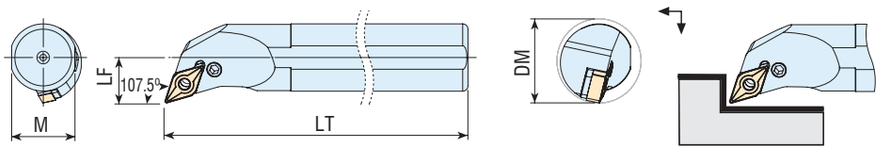
REFERENCIA	H	LF	WF	DMIN	INSERTO	PALANCA AMARRE	TORNILLO AMARRE	PLACA BASE	ARANDELA PLACA BASE	BRIDA AMARRE	TORNILLO BRIDA	LLAVE
S20R-PDUNR/L 11	18.3	200	13	25	DNM.1104..	PDP-001	TPA-023	PB-035	MDP-003	-	-	LLA-2.5
S25S-PDUNR/L 11	23	250	17	32			TPA-024					
S25S-PDUNR/L 15	23	250	19	32	DNM.1506..	PDP-003	TPA-030	PB-036				
S32T-PDUNR/L 15	30	300	22	40			TPA-025		MDP-005	-	-	LLA-3
S40U-PDUNR/L 15	37.5	350	27	50								
S50V-PDUNR/L 15	47	400	35	63								

PDUNR/L - INT 93º - CON REFRIGERACIÓN INTERIOR

REFERENCIA	H	LF	WF	DMIN	INSERTO	PALANCA AMARRE	TORNILLO AMARRE	PLACA BASE	ARANDELA PLACA BASE	BRIDA AMARRE	TORNILLO BRIDA	LLAVE
R20P-PDUNR/L 11	18.3	170	13	25	DNM.1104..	PDP-001	TPA-023	PB-035	MDP-003	-	-	LLA-2.5
R25R-PDUNR/L 11	23	200	17	32			TPA-024					
R32S-PDUNR/L 11	30	250	22	40								
R32S-PDUNR/L 15	30	250	22	40	DNM.1506..	PDP-003	TPA-025	PB-036	MDP-005	-	-	LLA-3
R40T-PDUNR/L 15	37.5	300	27	50								
R50U-PDUNR/L 15	47	350	35	63								

PDQNR/L - INT 107.5º



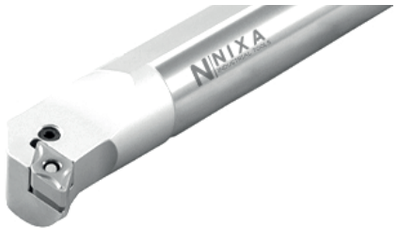


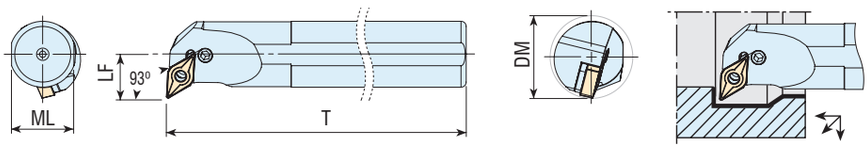
REFERENCIA	H	LF	WF	DMIN	INSERTO	PALANCA AMARRE	TORNILLO AMARRE	PLACA BASE	ARANDELA PLACA BASE	BRIDA AMARRE	TORNILLO BRIDA	LLAVE
S20R-PDQNR/L 11	18.3	200	13	25	DNM.1104..	PDP-001	TPA-023	PB-035	MDP-003	-	-	LLA-2.5
S25S-PDQNR/L 11	23	250	17	32			TPA-024					
S32T-PDQNR/L 154	30	300	22	40	DNM.1504..	PDP-003	TPA-025	PB-037	MDP-005	-	-	LLA-3
S40U-PDQNR/L 154	37.5	350	27	50								
S50V-PDQNR/L 154	47	400	35	63								
S32T-PDQNR/L 15	30	300	22	40	DNM.1506..	PDP-003	TPA-025	PB-036	MDP-005	-	-	LLA-3
S40U-PDQNR/L 15	37.5	350	27	50								
S50V-PDQNR/L 15	47	400	35	63								

PDQNR/L - INT 107.5º - CON REFRIGERACIÓN INTERIOR

REFERENCIA	H	LF	WF	DMIN	INSERTO	PALANCA AMARRE	TORNILLO AMARRE	PLACA BASE	ARANDELA PLACA BASE	BRIDA AMARRE	TORNILLO BRIDA	LLAVE
R20P-PDQNR/L 11	18.3	170	13	25	DNM.1104..	PDP-001	TPA-023	PB-035	MDP-003	-	-	LLA-2.5
R25R-PDQNR/L 11	23	200	17	32			TPA-024					
R32S-PDQNR/L 154	30	250	22	40	DNM.1504..	PDP-003	TPA-025	PB-037	MDP-005	-	-	LLA-3
R40T-PDQNR/L 154	37.5	300	27	50								
R32S-PDQNR/L 15	30	350	22	40	DNM.1506..	PDP-003	TPA-025	PB-036	MDP-005	-	-	LLA-3
R40T-PDQNR/L 15	37.5	250	27	50								
R50U-PDQNR/L 15	47	300	35	63								

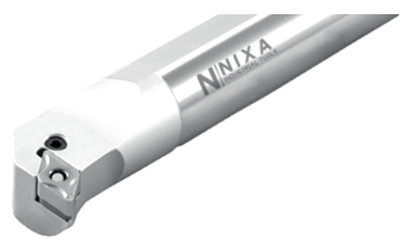
PDUNR/L - INT 93º

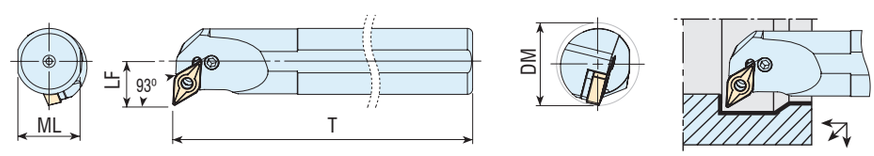




REFERENCIA	H	LF	WF	DMIN	INSERTO	PALANCA AMARRE	TORNILLO AMARRE	PLACA BASE	ARANDELA PLACA BASE	BRIDA AMARRE	TORNILLO BRIDA	LLAVE
S20R-PDUNR/L 11	18.3	200	13	25	DNM.1104..	PDP-001	TPA-023	PB-035	MDP-003	-	-	LLA-2.5
S25S-PDUNR/L 11	23	250	17	32			TPA-024					
S25S-PDUNR/L 15	23	250	19	32	DNM.1506..	PDP-003	TPA-030	PB-036				
S32T-PDUNR/L 15	30	300	22	40			TPA-025		MDP-005	-	-	LLA-3
S40U-PDUNR/L 15	37.5	350	27	50								
S50V-PDUNR/L 15	47	400	35	63								

PDUNR/L - INT 93º - CON REFRIGERACIÓN INTERIOR

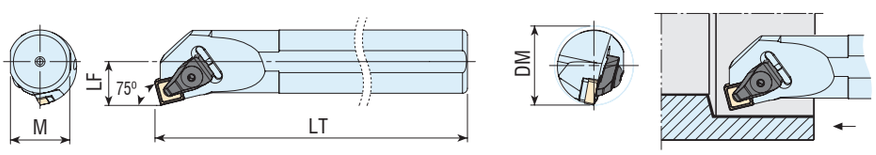




REFERENCIA	H	LF	WF	DMIN	INSERTO	PALANCA AMARRE	TORNILLO AMARRE	PLACA BASE	ARANDELA PLACA BASE	BRIDA AMARRE	TORNILLO BRIDA	LLAVE
R20P-PDUNR/L 11	18.3	170	13	25	DNM.1104..	PDP-001	TPA-023	PB-035	MDP-003	-	-	LLA-2.5
R25R-PDUNR/L 11	23	200	17	32			TPA-024					
R32S-PDUNR/L 11	30	250	22	40								
R32S-PDUNR/L 15	30	250	22	40	DNM.1506..	PDP-003	TPA-025	PB-036	MDP-005	-	-	LLA-3
R40T-PDUNR/L 15	37.5	300	27	50								
R50U-PDUNR/L 15	47	350	35	63								

TSKNR/L - INT 75º

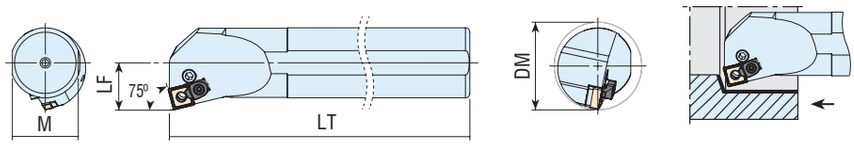




REFERENCIA	H	LF	WF	DMIN	INSERTO	BRIDA x AMARRE	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA BASE	ANILLO/ ARANDELA	LLAVE
S25S-TSKNR/L 12	23	250	17	32	SNM.1204..	BDA-02	TAB-018	PB-029	TPB-006	MDP-015 MDP-009	LLA-3
S32T-TSKNR/L 12	30	300	22	40					TPB-002		
S40U-TSKNR/L 12	37.5	350	27	50							

PSKNR/L - INT 75º





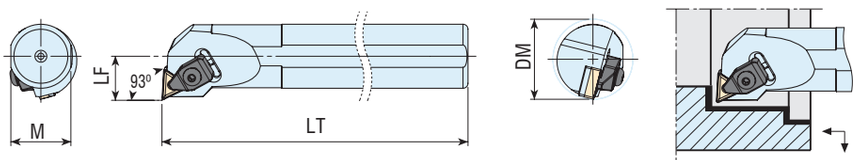
REFERENCIA	H	LF	WF	DMIN	INSERTO	PALANCA AMARRE	TORNILLO AMARRE	PLACA BASE	ARANDELA PLACA BASE	BRIDA AMARRE	TORNILLO BRIDA	LLAVE
S25S-PSKNR/L-12	23	250	17	32	SNM.1204..	PDP-002	TPA-030	PB-029	MDP-005	BDA-18	TDA-066	LLA-3
S32T-PSKNR/L-12	30	300	22	40			TPA-025					
S40U-PSKNR/L-12	37.5	350	27	50								
S50V-PSKNR/L-12	47	400	35	63								
S32T-PSKNR/L-15	30	300	22	40	SNM.1506	PDP-004	TPA-026	PB-030	MDP-006	BDA-22	TPB-003	LLA-3
S40U-PSKNR/L-15	37.5	350	27	50								
S50V-PSKNR/L-15	47	400	35	63								

PSKNR/L - INT 75º - CON REFRIGERACIÓN INTERIOR

REFERENCIA	H	LF	WF	DMIN	INSERTO	PALANCA AMARRE	TORNILLO AMARRE	PLACA BASE	ARANDELA PLACA BASE	BRIDA AMARRE	TORNILLO BRIDA	LLAVE
R25R-PSKNR/L-12	23	200	17	32	SNM.1204..	PDP-002	TPA-030	PB-029	MDP-005	BDA-18	TDA-066	LLA-3
R32S-PSKNR/L-12	30	250	22	40			TPA-025					
R40T-PSKNR/L-12	37.5	300	27	50								
R50U-PSKNR/L-12	47	350	35	63								
R32S-PSKNR/L-15	30	250	22	40	SNM.1506	PDP-004	TPA-026	PB-030	MDP-006	BDA-22	TPB-003	LLA-3
R40T-PSKNR/L-15	37.5	300	27	50								
R50U-PSKNR/L-15	47	350	35	63								

TTUNR/L - INT 93º

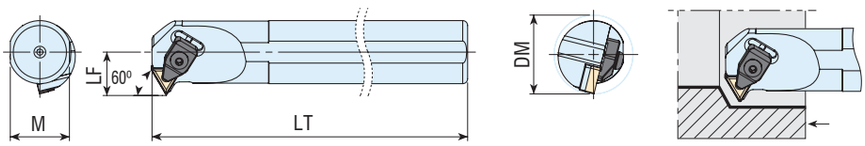




REFERENCIA	H	LF	WF	DMIN	INSERTO	BRIDA AMARRE	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA BASE	ANILLO/ ARANDELA	LLAVE
S25S-TTUNR/L 16	23	250	17	32	TNM.1604..	BDA-01	TAB-001	PB-002	TPB-008	MDP-009	LLA-3
S32T-TTUNR/L 16	30	300	22	40							
S25S-TTUNR/L 22	23	250	17	32	TNM.2204..	BDA-02	TAB-018	PB-004	TPB-002	MDP-015 MDP-009	LLA-3
S32T-TTUNR/L 22	30	300	22	40							
S40U-TTUNR/L 22	37.5	350	27	50							
S50V-TTUNR/L 22	47	400	35	63							

TT-NR/L - INT 60º

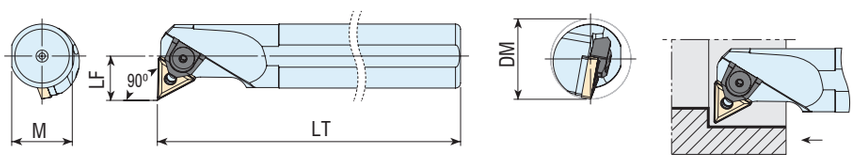




REFERENCIA	H	LF	WF	DMIN	INSERTO	BRIDA AMARRE	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA BASE	ARANDELA	LLAVE
S25S-TT-NR/L 16	23	250	17	32	TNM.1604..	BDA-01	TAB-001	PB-002	TPB-008	MDP-009	LLA-3
S32T-TT-NR/L 16	30	300	22	40							

MTFNR/L - INT 90º

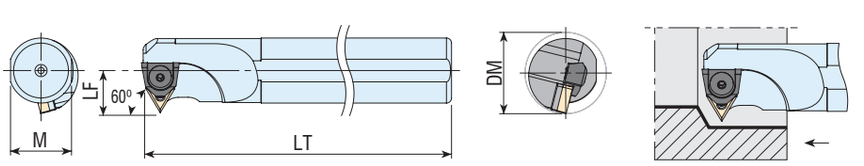




REFERENCIA	H	LF	WF	DMIN	INSERTO	BRIDA AMARRE	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA BASE	ANILLO/ ARANDELA	LLAVE
S20R-MTFNR/L 16	18.3	200	13	25	TNM.1604..	BDA-08	TAB-012	-	PDP-012	-	LLA-3
S25S-MTFNR/L 16	23	250	17	32			TAB-018	PB-002	PDP-023	MDP-015 MDP-009	
S32T-MTFNR/L 16	30	300	22	40					PDP-010		
S32T-MTFNR/L 22	30	300	22	40	TNM.2204..	BDA-10	TAB-018	PB-004	PDP-011	MDP-015 MDP-009	LLA-3
S40U-MTFNR/L 22	37.5	350	27	50							
S50V-MTFNR/L 22	47	400	35	63							

MT-NR/L - INT 60º

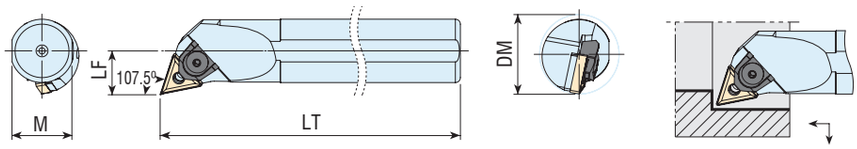




REFERENCIA	H	LF	WF	DMIN	INSERTO	BRIDA AMARRE	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA BASE	ANILLO/ ARANDELA	LLAVE
S20R-MT-NR/L 16	18.3	200	13	25	TNM.1604..	BDA-08	TAB-006	-	PDP-012	-	LLA-3
S25S-MT-NR/L 16	23	250	17	32				PB-002	PDP-023	MDP-015 MDP-009	
S32T-MT-NR/L 16	30	300	22	40		BDA-10	TAB-018	PB-002	PDP-010		
S32T-MT-NR/L 22	30	300	22	40	TNM.2204..	BDA-10	TAB-018	PB-004	PDP-011	MDP-015 MDP-009	LLA-3
S40U-MT-NR/L 22	37.5	350	27	50							
S50V-MT-NR/L 22	47	400	35	63							

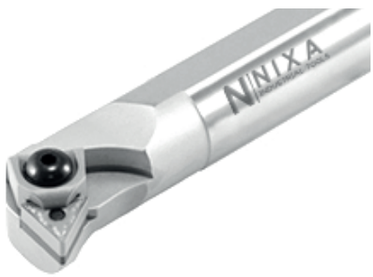
MTQNR/L - INT 107.5º

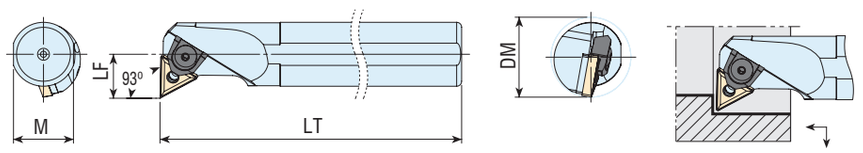




REFERENCIA	H	LF	WF	DMIN	INSERTO	BRIDA AMARRE	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA BASE	ANILLO/ ARANDELA	LLAVE
S20R-MTQNR/L 16	18.3	200	13	25	TNM.1604..	BDA-08	TAB-012	-	PDP-020	-	LLA-3
S25S-MTQNR/L 16	23	250	17	32		BDA-10	TAB-018	PB-002	PDP-023	MDP-015 MDP-009	
S32T-MTQNR/L 16	30	300	22	40					PDP-023		
S40U-MTQNR/L 16	37.5	350	27	50					PDP-010		
S32T-MTQNR/L 22	30	300	22	40	TNM.2204..	BDA-10	TAB-018	PB-004	PDP-011	MDP-015 MDP-009	LLA-3
S40U-MTQNR/L 22	37.5	350	27	50							
S50V-MTQNR/L 22	47	400	35	63							

MTUNR/L - INT 93º

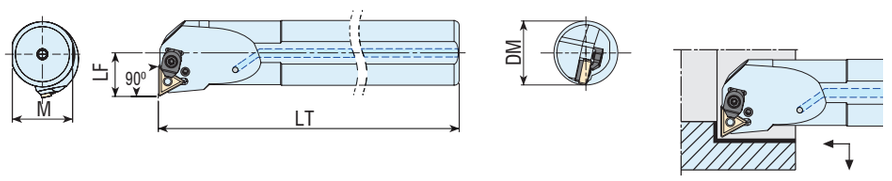




REFERENCIA	H	LF	WF	DMIN	INSERTO	BRIDA AMARRE	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA BASE	ANILLO/ ARANDELA	LLAVE
S20R-MTUNR/L 16	18.3	200	13	25	TNM.1604..	BDA-08	TAB-012	-	PDP-012	-	LLA-3
S25S-MTUNR/L 16	23	250	17	32		BDA-10	TAB-018	PB-002	PDP-023	MDP-015 MDP-009	
S32T-MTUNR/L 16	30	300	22	40					PDP-023		
S40U-MTUNR/L 16	37.5	350	27	50					PDP-010		
S32T-MTUNR/L 22	30	300	22	40	TNM.2204..	BDA-10	TAB-018	PB-004	PDP-011	MDP-015 MDP-009	LLA-3
S40U-MTUNR/L 22	37.5	350	27	50							
S50V-MTUNR/L 22	47	400	35	63							

PTFNR/L - INT 90º - CON REFRIGERACIÓN INTERIOR

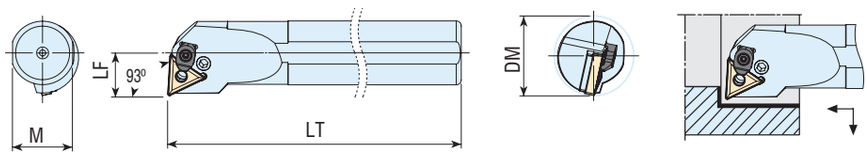




REFERENCIA	H	LF	WF	DMIN	INSERTO	PALANCA AMARRE	TORNILLO AMARRE	PLACA BASE	ARANDELA PLACA BASE	BRIDA AMARRE	TORNILLO BRIDA	LLAVE
R25R-PTFNR/L-16	23	200	17	32	TNM.1604..	PDP-001	TPA-024	PB-003	MDP-003	BDA-18	TDA-066	LLA-3
R32S-PTFNR/L-16	30	250	22	40			TPA-025					

PTUNR/L - INT 93º

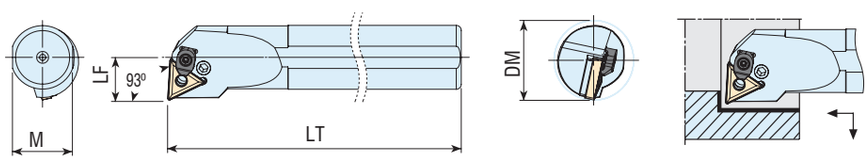




REFERENCIA	H	LF	WF	DMIN	INSERTO	PALANCA AMARRE	TORNILLO AMARRE	PLACA BASE	ARANDELA PLACA BASE	BRIDA AMARRE	TORNILLO BRIDA	LLAVE
S16P-PTUNR/L-16	14.8	170	11	20	TNM.1604..	PDP-008	TPA-029	-	MDP-004	-	-	LLA-2.5
S20R-PTUNR/L-16	18.3	200	13	25		PDP-001	TPA-023	PB-003	MDP-003	-	-	
S25S-PTUNR/L-16	23	250	17	32			TPA-024			BDA-18	TDA-066	
S32T-PTUNR/L-16	30	300	22	40								
S40U-PTUNR/L-16	37.5	350	27	50								
S32T-PTUNR/L-22	30	300	22	40	TNM.2204..	PDP-002	TPA-025	PB-004	MDP-005	BDA-18	TDA-066	LLA-3
S40U-PTUNR/L-22	37.5	350	27	50								
S50V-PTUNR/L-22	47	400	35	63								

PTUNR/L - INT 93º - CON REFRIGERACIÓN INTERIOR

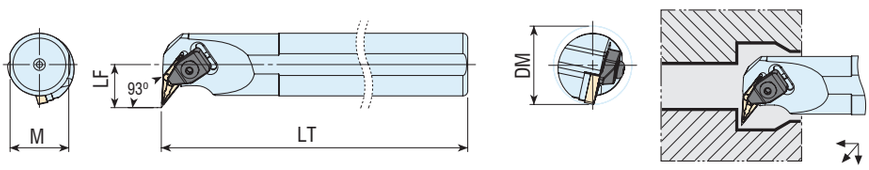




REFERENCIA	H	LF	WF	DMIN	INSERTO	PALANCA AMARRE	TORNILLO AMARRE	PLACA BASE	ARANDELA PLACA BASE	BRIDA AMARRE	TORNILLO BRIDA	LLAVE
R16M-PTUNR/L-16	14.8	150	11	20	TNM.1604..	PDP-008	TPA-029	-	MDP-004	-	-	LLA-2.5
R20P-PTUNR/L-16	18.3	170	13	25		PDP-001	TPA-023	PB-003	MDP-003	-	-	
R25R-PTUNR/L-16	23	200	17	32			TPA-024			BDA-18	TDA-066	
R32S-PTUNR/L-16	30	250	22	40								
R40T-PTUNR/L-16	37.5	300	27	50								
R32S-PTUNR/L-22	30	250	22	40	TNM.2204..	PDP-002	TPA-025	PB-004	MDP-005	BDA-18	TDA-066	LLA-3
R40T-PTUNR/L-22	37.5	300	27	50								

TVUNR/L - INT 93º

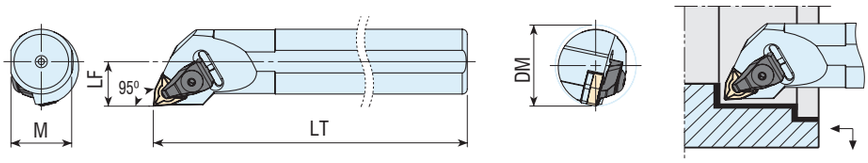




REFERENCIA	H	LF	WF	DMIN	INSERTO	BRIDA AMARRE	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA BASE	ANILLO/ ARANDELA	LLAVE
S25S-TVUNR/L 16	23	250	20	36	VNM.1604..	BDA-01	TAB-001	PB-038	TPB-009	MDP-009	LLA-3
S32T-TVUNR/L 16	30	300	22	40							
S40U-TVUNR/L 16	37.5	350	27	50							

TWLNR/L - INT 95º

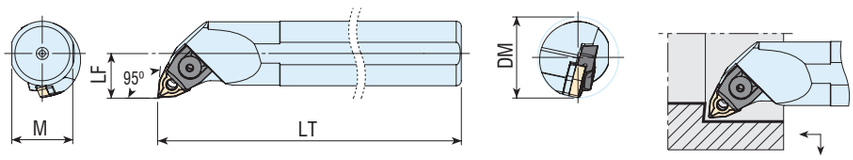




REFERENCIA	H	LF	WF	DMIN	INSERTO	BRIDA AMARRE	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA BASE	ANILLO/ ARANDELA	LLAVE
S25S-TWLNR/L 06	23	250	17	32	WNM.0604..	BDA-01	TAB-001	PB-021	TPB-001	MDP-009	LLA-3
S32T-TWLNR/L 06	30	300	22	40					TPB-006		
S25S-TWLNR/L 08	23	250	17	32	WNM.0804..	BDA-02	TAB-018	PB-020	TPB-002	MDP-015 MDP-009	LLA-3
S32T-TWLNR/L 08	30	300	22	40							
S40U-TWLNR/L 08	37.5	350	27	50							
S50V-TWLNR/L 08	47	400	35	63							

MWLNR/L - INT 95º

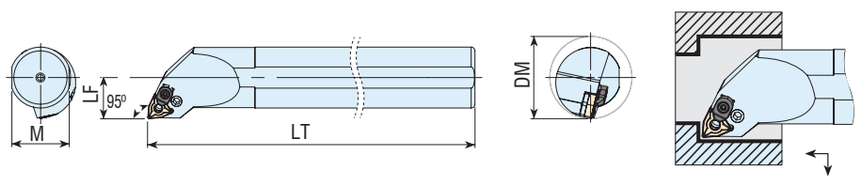




REFERENCIA	H	LF	WF	DMIN	INSERTO	BRIDA AMARRE	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA BASE	ANILLO/ ARANDELA	LLAVE
S16P-MWLNR/L 06	18.3	200	13	25	WNM.0604..	BDA-07	TAB-012	-	APM-09	-	LLA-3
S20R-MWLNR/L 06	23	250	17	32			TAB-006	-	APM-10	-	
S25S-MWLNR/L 06	30	300	22	40				-	PDP-017	-	
S25S-MWLNR/L 08	37.5	350	27	50	WNM.0804..	BDA-11	TAB-017	PB-020	PDP-013	MDP-015 MDP-009	LLA-3
S32T-MWLNR/L 08	30	300	22	40			TAB-005		PDP-011		
S40U-MWLNR/L 08	37.5	350	27	50							

PWLNR/L - INT 95º





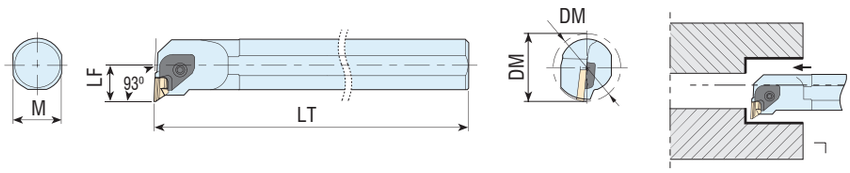
REFERENCIA	H	LF	WF	DMIN	INSERTO	PALANCA AMARRE	TORNILLO AMARRE	PLACA BASE	ARANDELA PLACA BASE	BRIDA AMARRE	TORNILLO BRIDA	LLAVE
S20R-PWLNR/L-06	18.3	200	13	25	WNM.0604	PDP-001	TPA-023	PB-021	MDP-003	-	-	LLA-2.5
S25S-PWLNR/L-06	23	250	17	32			TPA-024					
S32T-PWLNR/L-06	30	300	22	40								
S25S-PWLNR/L-08	23	250	17	32	WNM.0804..	PDP-002	TPA-025	PB-020	MDP-005	BDA-18	TDA-066	LLA-3
S32T-PWLNR/L-08	30	300	22	40								
S40U-PWLNR/L-08	37.5	350	27	50								
S50V-PWLNR/L-08	47	400	35	63								

PWLNR/L - INT 95º - CON REFRIGERACIÓN INTERIOR

REFERENCIA	H	LF	WF	DMIN	INSERTO	PALANCA AMARRE	TORNILLO AMARRE	PLACA BASE	ARANDELA PLACA BASE	BRIDA AMARRE	TORNILLO BRIDA	LLAVE
R20M-PWLNR/L-06	14.8	150	11	20	WNM.0604	PDP-008	TPA-029	-	MDP-004	-	-	LLA-2.5
R20P-PWLNR/L-06	18.3	200	13	25		PDP-001	TPA-023	PB-021	MDP-003			LLA-2.5
R25R-PWLNR/L-06	23	250	17	32			TPA-024					
R32S-PWLNR/L-06	30	300	22	40								
R40T-PWLNR/L-06	37.5	300	27	50								
R25R-PWLNR/L-08	23	250	17	32	WNM.0804..	PDP-002	TPA-025	PB-020	MDP-005	BDA-18	TDA-066	LLA-3
R32S-PWLNR/L-08	30	300	22	40								
R40T-PWLNR/L-08	37.5	350	27	50								
R50V-PWLNR/L-08	47	350	35	63								

CKUNR/L - INT 93º

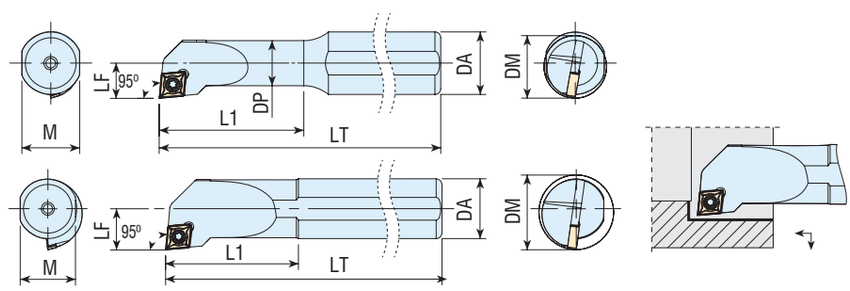




REFERENCIA	H	LF	WF	DMIN	INSERTO	BRIDA AMARRE	TORNILLO BRIDA	PLACA BASE	TORNILLO PLACA BASE	MUELLE/ ARANDELA	LLAVE
S25S-CKUNR/L 16	23	250	19	38	KNUX1604..	BDA-14 (R) BDA-15 (L)	TAB-008	PB-023 (R) PB-022 (L)	TPB-001	MDP-002 MDP-009	LLA-4
S32T-CKUNR/L 16	30	300	22	40							
S40U-CKUNR/L 16	37.5	350	27	50							
S50V-CKUNR/L 16	50	400	35	63							

SCLCR/L - INT 95º

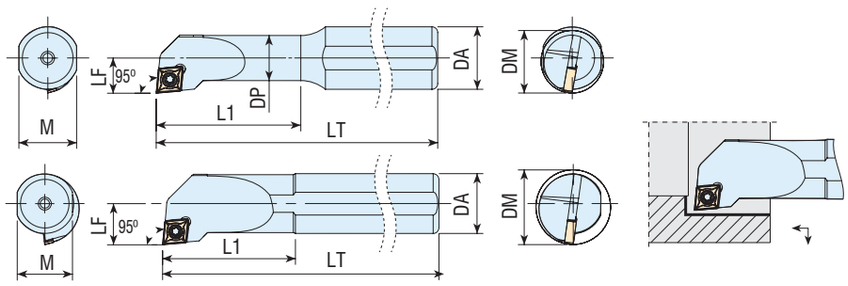




REFERENCIA	M	LF	WF	DP	DA	DB	L1	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
S0608H-SCLCR/L-03	7.3	100	3	6	8	5	18	CC.T030102	TDA-001	-	-	LLT-6
S0608H-SCLCR/L-06	7.3	100	4.5	8	8	6	25	CC.T0602..	TDA-017			LLT-8
S08H-SCLCR/L-06	7.3	100	6	11	8	8	20		TDA-018			
S10K-SCLCR/L-06	9	125	7	13	10	10	25					
S12K-SCLCR/L-06	11	125	9	16	12	12	25					
S1612P-SCLCR/L-06	14.8	170	9	16	16	11.5	37					
S16P-SCLCR/L-06	14.8	170	11	20	16	16	35					
S12K-SCLCR/L-09	11	125	9	16	12	12	30	CC.T09T3..	TDA-046			LLT-15
S1614K-SCLCR/L-09	14.8	170	9.5	17	12	14	45		TDA-047			
S16P-SCLCR/L-09	14.8	170	11	20	16	16	35					
S2016R-SCLCR/L-09	18.3	200	11	20	20	16	50					
S20R-SCLCR/L-09	18.3	200	13	25	20	20	40					
S25S-SCLCR/L-09	23	250	17	32	25	25	50		TDA-050	PB-013	TPB-013	LLT-15
S32T-SCLCR/L-09	30	300	22	40	32	32	60					
S25S-SCLCR/L-12	23	250	17	32	25	25	50	CC.T1204..	TDA-079	PB-045	TPB-014	LLT-20
S32T-SCLCR/L-12	30	300	22	40	32	32	60					
S40U-SCLCR/L-12	37.5	350	27	50	40	40	70		TDA-074		TPB-012	

SCLCR/L - INT 95º - CON REFRIGERACIÓN INTERIOR

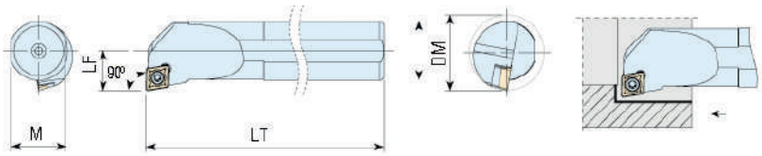




REFERENCIA	H	LF	WF	DMIN	DCON	DB	LU=OHN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
R08H-SCLCR/L-06	7.3	100	6	11	8	8	20	CC.T0602	TDA-018	-	-	LLT-8
R10H-SCLCR/L-06	9	100	7	13	10	10	25					
R12K-SCLCR/L-06	11	100	9	16	12	12	25					
R16M-SCLCR/L-06	14.8	150	11	20	16	16	35					
R20P-SCLCR/L-09	18.3	170	13	25	20	20	40	CC.T09T3..	TDA-050	PB-013	TPB-013	LLT-15
R25R-SCLCR/L-09	23	200	17	32	25	25	50					
R32S-SCLCR/L-09	30	250	22	40	32	32	60					
R25R-SCLCR/L-12	23	200	17	32	25	25	50	CC.T1204..	TDA-079	PB-045	TPB-014	LLT-20

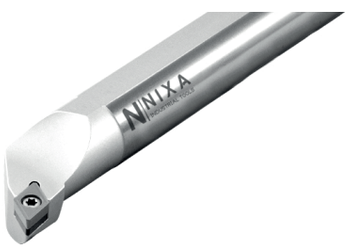
SCFCR/L - INT 90º

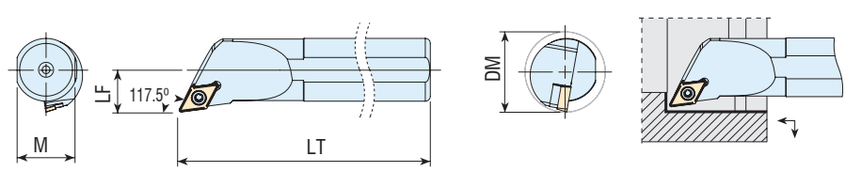




REFERENCIA	H	LF	WF	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
S08H-SCFCR/L-06	7.3	100	6	11	CC.T0602..	TDA-018	-	-	LLT-8
S10K-SCFCR/L-06	9	125	7	13					
S12K-SCFCR/L-06	11	125	9	16					
S12K-SCLCR/L-09	11	125	9	16	CC.T09T3..	TDA-046	-	-	LLT-15
S16P-SCLCR/L-09	14.8	170	11	20		TDA-047			
S20R-SCLCR/L-09	18.3	200	13	25					
S25S-SCLCR/L-09	23	250	17	32		TDA-050	PB-013	TPB-013	LLT-15
S25S-SCLCR/L-12	23	250	17	32	CC.T1204..	TDA-079	PB-045	TPB-014	LLT-20
S32T-SCLCR/L-12	30	300	22	40					
S40U-SCLCR/L-12	37.5	350	27	50		TDA-074		TPB-012	

SDPCR/L - INT 117.5º

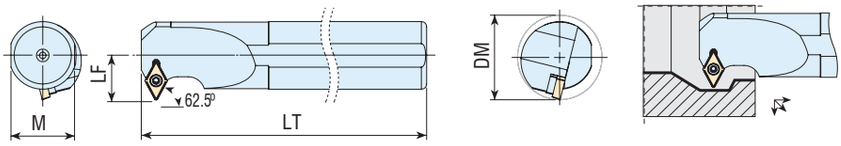




REFERENCIA	H	LF	WF	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
S10K-SDPCR/L-07	9	125	7	14	DC.T0702..	TDA-018	-	-	LLT-8
S12K-SDPCR/L-07	11	125	9	16					
S16P-SDPCR/L-11	14.8	170	14	22	DC.T11T3..	TDA-047	-	-	LLT-15
S20R-SDPCR/L-11	18.3	200	15	25		TDA-049			
S25S-SDPCR/L-11	23	250	18	32		TDA-050	PB-034	TPB-013	LLT-15

SD-CR/L - INT 62.5º

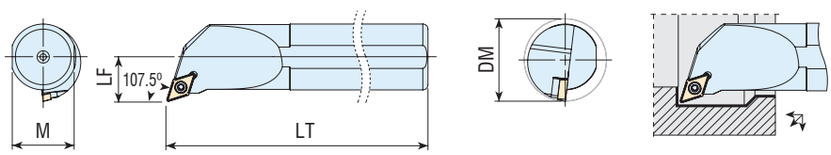




REFERENCIA	H	LF	WF	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
S10K-SD-CR/L-07	9	125	7	14	DC.T0702..	TDA-018	-	-	LLT-8
S12K-SD-CR/L-07	11	125	9	16					
S16P-SD-CR/L-07	14.8	170	11	20					
S20R-SD-CR/L-07	18.3	200	13	25					
S16P-SD-CR/L-11	14.8	170	14	22	DC.T11T3..	TDA-049	-	-	LLT-15
S20R-SD-CR/L-11	18.3	200	15	25					
S25S-SD-CR/L-11	23	250	18	32		TDA-051	PB-034	TPB-011	LLT-15
S32T-SD-CR/L-11	30	300	22	40					
S40U-SD-CR/L-11	37.5	350	27	50					

SDQCR/L - INT 107.5º





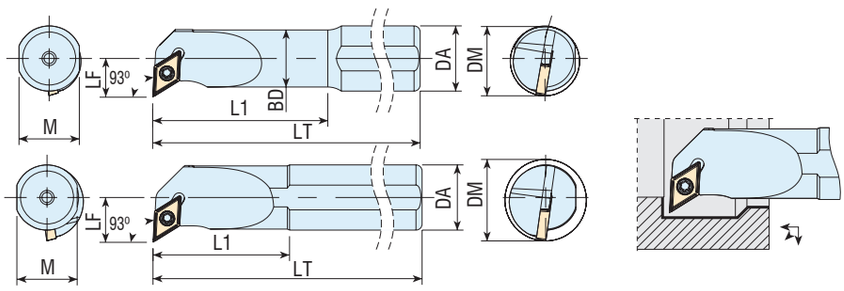
REFERENCIA	H	LF	WF	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
S10K-SDQCR/L-07	9	125	7	13	DC.T0702..	TDA-018	-	-	LLT-8
S12K-SDQCR/L-07	11	125	9	16					
S16P-SDQCR/L-07	14.8	170	11	20					
S20R-SDQCR/L-07	18.3	200	13	25					
S16P-SDQCR/L-11	14.8	170	11	20	DC.T11T3..	TDA-047			LLT-15
S20R-SDQCR/L-11	18.3	20	13	25		TDA-049			
S25S-SDQCR/L-11	23	250	17	32		TDA-050	PB-034	TPB-013	
S32T-SDQCR/L-11	30	300	22	40		TDA-051		TPB-011	
S40U-SDQCR/L-11	37.5	350	27	50					

SDQCR/L - INT 107.5º - CON REFRIGERACIÓN INTERIOR

REFERENCIA	H	LF	WF	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
R10H-SDQCR/L-07	9	100	7	13	DC.T0702..	TDA-018	-	-	LLT-8
R12H-SDQCR/L-07	11	100	9	16					
R16M-SDQCR/L-07	14.8	150	11	20					
R20P-SDQCR/L-07	18.3	170	13	25					
R16M-SDQCR/L-11	14.8	150	11	20	DC.T11T3..	TDA-047			LLT-15
R20P-SDQCR/L-11	18.3	170	13	25		TDA-049			
R25R-SDQCR/L-11	23	200	17	32		TDA-050	PB-034	TPB-013	
R32S-SDQCR/L-11	30	250	22	40		TDA-051		TPB-011	

SDUCR/L - INT 93º





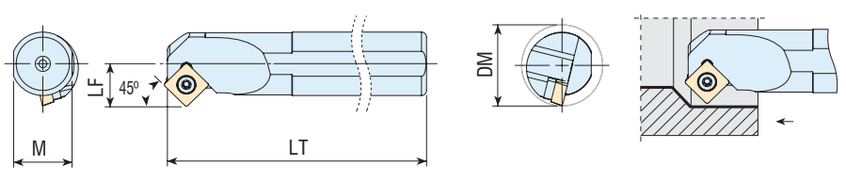
REFERENCIA	H	LF	WF	DMIN	DCON	DB	LU=OHN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
S1008K-SDUCR/L-07	9	125	8	13	10	8	30	DC.T0702..	TDA-018	-	-	LLT-8
S10K-SDUCR/L-07	9	125	8	13	10	10	25					
S12K-SDUCR/L-07	11	125	9	16	12	12	25					
S1612P-SDUCR/L-07	14.8	170	9	16	16	11.5	37					
S1614P-SDUCR/L-07	14.8	170	9.5	17	16	14	45					
S16P-SDUCR/L-07	14.8	170	11	20	16	16	35					
S20R-SDUCR/L-07	18.3	200	13	25	20	20	40					
S1614P-SDUCR/L-11	14.8	170	11	18	16	14	45	DC.T11T3	TDA-047	-	-	LLT-15
S16P-SDUCR/L-11	14.8	170	11	20	16	16	35					
S2016R-SDUCR/L-11	18.3	200	11	20	20	16	50					
S20R-SDUCR/L-11	18.3	200	13	25	20	20	40		TDA-049	PB-034	TPB-013	
S25S-SDUCR/L-11	23	250	17	32	25	25	50		TDA-050		TPB-011	
S32T-SDUCR/L-11	30	300	22	40	32	32	60		TDA-051			
S40U-SDUCR/L-11	37.5	350	27	50	40	40	70					
S50V-SDUCR/L-11	47	400	35	63	50	50	80					

SDUCR/L - INT 93º - CON REFRIGERACIÓN INTERIOR

REFERENCIA	H	LF	WF	DMIN	DCON	DB	LU=OHN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
R1008H-SDUCR/L-07	9	100	8	13	10	8	30	DC.T0702..	TDA-018	-	-	LLT-8
R10H-SDUCR/L-07	9	100	8	13	10	10	25					
R12H-SDUCR/L-07	11	100	9	16	12	12	25					
R16M-SDUCR/L-07	14.8	150	11	20	16	16	35					
R20P-SDUCR/L-07	18.3	170	13	25	20	20	40					
R16M-SDUCR/L-11	14.8	150	11	20	16	16	35	DC.T11T3	TDA-047	-	-	LLT-15
R20P-SDUCR/L-11	18.3	170	13	25	20	20	40		TDA-049			
R25R-SDUCR/L-11	23	200	17	32	25	25	50		TDA-050	PB-034	TPB-013	
R32S-SDUCR/L-11	30	250	22	40	32	32	60		TDA-051		TPB-011	

SSSCR/L - INT 45º

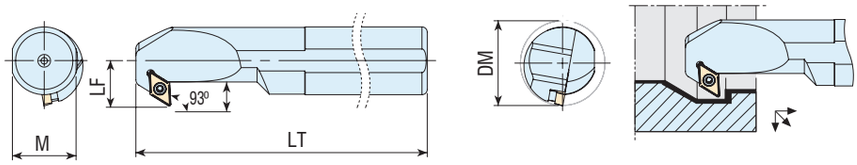




REFERENCIA	H	LPR	WF	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
S16P-SSSCR/L-09	14.8	170	11	20	SC.T09T3..	TDA-047	-	-	LLT-15
S20R-SSSCR/L-09	18.3	200	13	25		TDA-049	-		
S25S-SSSCR/L-09	23	250	17	32		TDA-050	PB-026	TPB-013	
S25S-SSSCR/L-12	23	250	17	32	SC.T1204..	TDA-079	PB-028	TPB-014	LLT-20
S32T-SSSCR/L-12	30	300	22	40		TDA-074		TPB-012	
S40U-SSSCR/L-12	37.5	350	27	50		TDA-074			

SDXCR/L - INT 93º





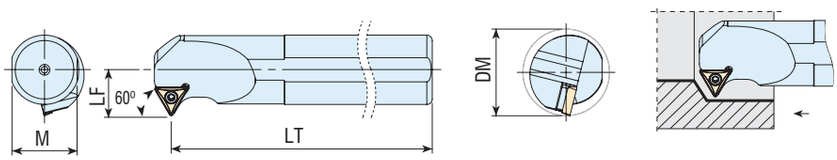
REFERENCIA	H	LPR	WF	APMX	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
S12K-SDXCR/L-07	11	125	9	4.5	16	DC.T0702..	TDA-018	-	-	LLT-8
S16P-SDXCR/L-07	14.8	170	11	6.5	20					
S20R-SDXCR/L-07	18.3	200	13	6.5	25					
S16P-SDXCR/L-11	14.8	170	11	6.5	20	DC.T11T3..	TDA-049	-	-	LLT-15
S20R-SDXCR/L-11	18.3	200	14	7.5	25					
S25S-SDXCR/L-11	23	250	17	9	32		TDA-051	PB-034	TPB-013	
S32T-SDXCR/L-11	30	300	22	12.5	40				TPB-011	
S40U-SDXCR/L-11	37.5	350	27	14.5	50					

SDXCR/L - INT 93º - CON REFRIGERACIÓN INTERIOR

REFERENCIA	H	LPR	WF	APMX	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
R12H-SDXCR/L-07	11	100	9	4.5	16	DC.T0702..	TDA-018	-	-	LLT-8
R16M-SDXCR/L-07	14.8	150	11	6.5	20					
R20P-SDXCR/L-07	18.3	170	13	6.5	25					
R16M-SDXCR/L-11	14.8	150	11	6.5	20	DC.T11T3..	TDA-049	-	-	LLT-15
R20P-SDXCR/L-11	18.3	170	14	7.5	25					
R25R-SDXCR/L-11	23	200	17	9	32		TDA-051	PB-034	TPB-013	
R32S-SDXCR/L-11	30	250	22	12.5	40				TPB-011	

ST-CR/L - INT 60º

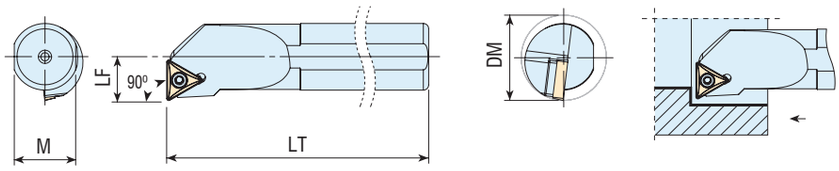




REFERENCIA	H	LF	WF	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
S12K-ST-CR/L-11	11	125	9	17	TC.T1102..	TDA-018	-	-	LLT-8
S16P-ST-CR/L-11	14.8	170	11	20					
S20R-ST-CR/L-11	18.3	200	13	25					
S16P-ST-CR/L-16	14.8	170	11	20	TC.T16T3..	TDA-047	-	-	LLT-15
S20R-ST-CR/L-16	18.3	200	13	25		TDA-049			
S25S-ST-CR/L-16	23	250	17	32		TDA-051	PB-001	TPB-013	
S32T-ST-CR/L-16	30	300	22	40				TPB-011	
S40U-ST-CR/L-16	37.5	350	27	50					

STFCR/L - INT 90º

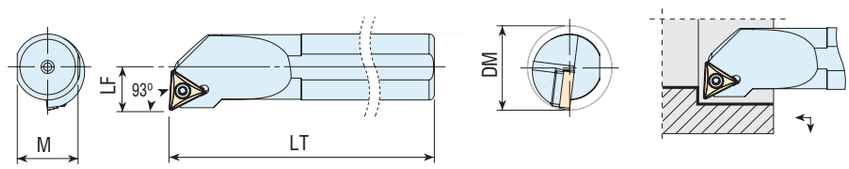




REFERENCIA	H	LF	WF	DCOM	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
S08H-STFCR/L-06	7.3	100	6	8	11	TC.T06T1..	TDA-006	-	-	LLT-6
S1006H-STFCR/L-06	9	80	4.5	10	8					
S10K-STFCR/L-09	10	125	7	10	13	TC.T0902..	TDA-008			LLT-7
S12K-STFCR/L-09	12	125	9	12	17					
S12K-STFCR/L-11	12	125	9	12	17	TC.T1102..	TDA-018			LLT-8
S16P-STFCR/L-11	16	170	11	16	20					
S20R-STFCR/L-11	20	200	13	20	25					
S16P-STFCR/L-16	14.8	170	11	16	20	TC.T16T3..	TDA-047			LLT-15
S20R-STFCR/L-16	18.3	200	13	20	25		TDA-049			
S25S-STFCR/L-16	23	250	17	25	32		TDA-051	PB-001	TPB-013	
S32T-STFCR/L-16	30	300	22	32	40				TPB-011	

STUCR/L - INT 93º





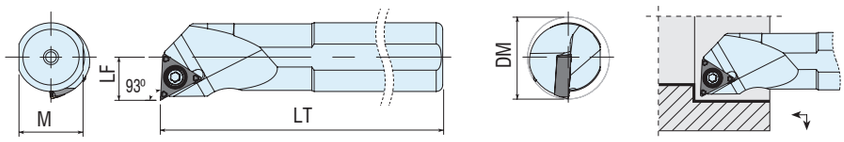
REFERENCIA	H	LF	WF	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
S10K-STUCR/L-09	9	125	7	13	TC.T0902..	TDA-008	-	-	LLT-7
S12K-STUCR/L-09	11	125	9	16					
S12K-STUCR/L-11	11	125	9	17	TC.T1102..	TDA-018	-	-	LLT-8
S16P-STUCR/L-11	14.8	170	11	20					
S20R-STUCR/L-11	18.3	200	13	25					
S16P-STUCR/L-16	14.8	170	11	20	TC.T16T3..	TDA-047	-	-	LLT-15
S20R-STUCR/L-16	18.3	200	13	25		TDA-049			
S25S-STUCR/L-16	23	250	17	32		TDA-051	PB-001	TPB-013	
S32T-STUCR/L-16	30	300	22	40				TPB-011	
S40U-STUCR/L-16	37.5	350	27	50					

STUCR/L - INT 93º - CON REFRIGERACIÓN INTERIOR

REFERENCIA	H	LF	WF	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
R10H-STUCR/L-09	9	100	7	13	TC.T0902..	TDA-008	-	-	LLT-7
R12H-STUCR/L-09	11	100	9	16					
R12H-STUCR/L-11	11	100	9	17	TC.T1102..	TDA-018	-	-	LLT-8
R16M-STUCR/L-11	14.8	150	11	20					
R20P-STUCR/L-11	18.3	170	13	25					
R16M-STUCR/L-16	14.8	150	11	20	TC.T16T3..	TDA-047	-	-	LLT-15
R20P-STUCR/L-16	18.3	170	13	25		TDA-049			
R25R-STUCR/L-16	23	200	17	32		TDA-051	PB-001	TPB-013	
R32S-STUCR/L-16	30	250	22	40				TPB-011	

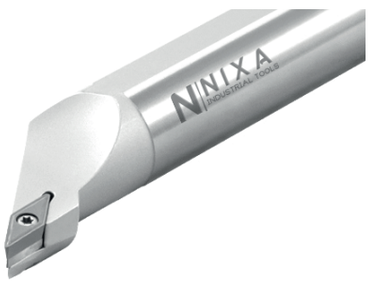
STUPR/L - INT 93º

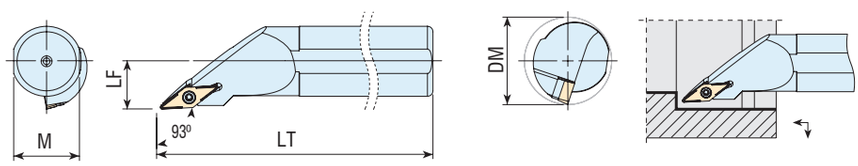




REFERENCIA	H	LF	WF	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
S08H-STUPR/L-08	7.3	100	5	10	TP..0802..	TDA-006	-	-	LLT-6
S10H-STUPR/L-11	9	125	6	12	TP..1103..	TDA-031	-	-	LLT-10
S12K-STUPR/L-11	11	125	8	16			-	-	LLT-8
S16P-STUPR/L-11	14.8	170	10	20		TDA-032	-	-	LLT-8

SVJBR/L - INT 93º

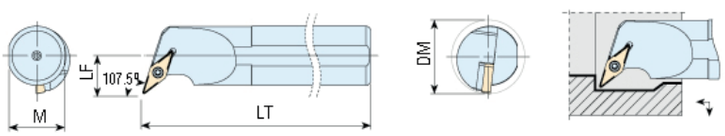




REFERENCIA	H	LF	WF	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
S25S-SVJBR/L-16	23	250	17	32	VB.T1604..	TDA-050	PB-038	TPB-013	LLT-15
S32T-SVJBR/L-16	30	300	22	40					
S40U-SVJBR/L-16	37.5	350	27	50		TDA-051			

SVQBR/L - INT 107.5º





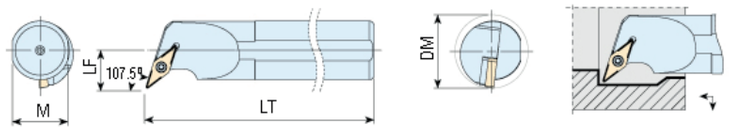
REFERENCIA	H	LF	WF	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
S16P-SVQBR/L-11	14.8	170	11	20	VB.T1103..	TDA-018	-	-	LLT-8
S20R-SVQBR/L-11	18.3	200	13	25					
S25S-SVQBR/L-16	23	250	17	32	VB.T1604..	TDA-051	PB-038	TPB-013	LLT-15
S32T-SVQBR/L-16	30	300	22	40				TPB-011	
S40U-SVQBR/L-16	37.5	350	27	50					

SVQBR/L - INT 107.5º - CON REFRIGERACIÓN INTERIOR

REFERENCIA	H	LF	WF	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
R20Q-SVQBR/L-11	18.5	180	13	25	VB.T1103..	TDA-018	-	-	LLT-8
R20Q-SVQBR/L-16	18.5	180	20	30	VB.T1604..	TDA-049	-	-	LLT-15
R25S-SVQBR/L-16	23	250	17	32		TDA-051	PB-038	TPB-011	LLT-15
R32S-SVQBR/L-16	30	250	22	40					

SVQCR/L - INT 107.5º

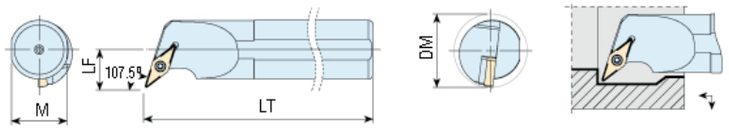




REFERENCIA	H	LF	WF	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
S16P-SVQCR/L-11	14.8	170	11	20	VC.T1103	TDA-018	-	-	LLT-8
S20R-SVQCR/L-11	18.3	200	13	25					
S25S-SVQCR/L-16	23	250	17	32	VC.T1604..	TDA-051	PB-038	TPB-013	LLT-15
S32T-SVQCR/L-16	30	300	22	40				TPB-011	
S40U-SVQCR/L-16	37.5	350	27	50					

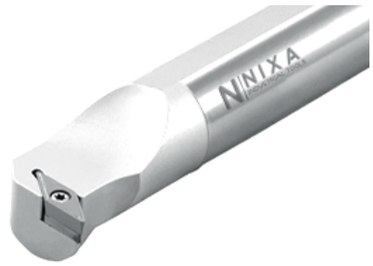
SVQCR/L - INT 107.5º - CON REFRIGERACIÓN INTERIOR

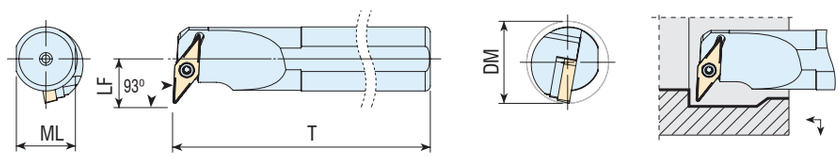




REFERENCIA	H	LF	WF	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
A16M-SVQCR/L-11	14.8	150	11	20	VC.T1103	TDA-018	-	-	LLT-8
A20P-SVQCR/L-11	18.3	170	13	25					
A25R-SVQCR/L-16	23	200	17	32	VC.T1604..	TDA-051	PB-038	TPB-013	LLT-15
A32S-SVQCR/L-16	30	250	22	40				TPB-011	
A40T-SVQCR/L-16	37.5	300	27	50					

SVUBR/L - INT 93º

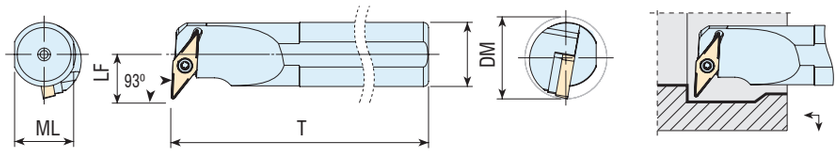




REFERENCIA	H	LF	WF	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
S16P-SVUBR/L-11	14.8	170	12.5	20	VB.T1103..	TDA-018	-	-	LLT-8
S20R-SVUBR/L-11	18.3	200	13	25					
S25S-SVUBR/L-16	23	250	19	32	VB.T1604..	TDA-051	PB-038	TPB-011	LLT-15
S32T-SVUBR/L-16	30	300	22	40					
S40U-SVUBR/L-16	37.5	350	27	50					

SVUCR/L - INT 93º

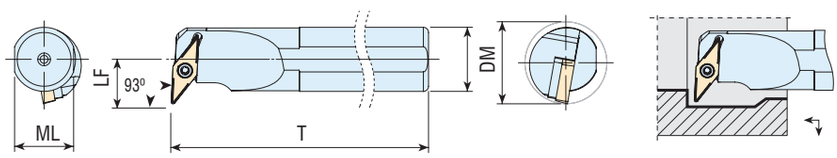




REFERENCIA	H	LF	WF	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
S16P-SVUCR/L-11	14.8	170	12.5	20	VC.T1103..	TDA-018	-	-	LLT-8
S20R-SVUCR/L-11	18.3	200	13	25					
S25S-SVUCR/L-16	23	250	19	32	VC.T1604..	TDA-051	PB-038	TPB-011	LLT-15
S32T-SVUCR/L-16	30	300	22	40					
S40U-SVUCR/L-16	37.5	350	27	50					

SVUCR/L - INT 93º - REFRIGERACIÓN INTERIOR

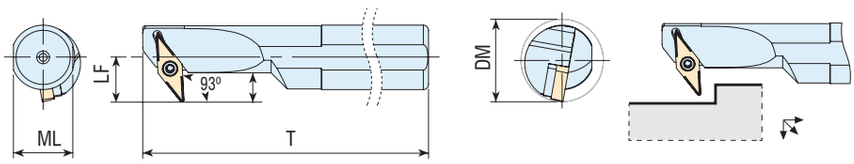




REFERENCIA	H	LF	WF	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
R12K-SVUCR/L-07	11	125	9	16	VC.T0702..	TDA-006	-	-	LLT-6
R20Q-SVUCR/L-11	18.3	170	13	25	VC.T1103..	TDA-018	-	-	LLT-8
R25R-SVUCR/L-16	23	200	19	32	VC.T1604..	TDA-051	PB-038	TPB-011	LLT-15

SVXBR/L - INT 93º

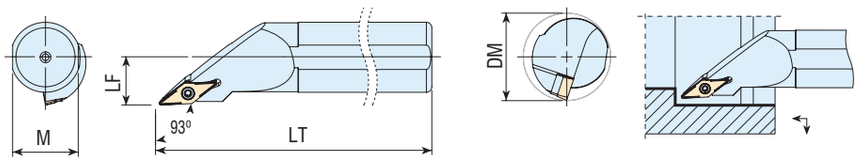




REFERENCIA	H	LPR	WF	APMX	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
S16P-SVXBR/L-112	14.8	170	12.5	7.2	20	VBM.1102..	TDA-018	-	-	LLT-8
S20R-SVXBR/L-112	18.3	200	13	5.7	25					
S16P-SVXBR/L-11	14.8	170	12.5	7.2	20	VB.T1103..	TDA-018	-	-	LLT-8
S20R-SVXBR/L-11	18.3	200	13	5.7	25					
S25S-SVXBR/L-16	23	250	19	10.2	32	VB.T1604..	TDA-051	PB-038	TPB-011	LLT-15
S32T-SVXBR/L-16	30	300	22	11.7	40					
S40U-SVXBR/L-16	37.5	350	27	14.3	50					

SVJCR/L - INT 93º





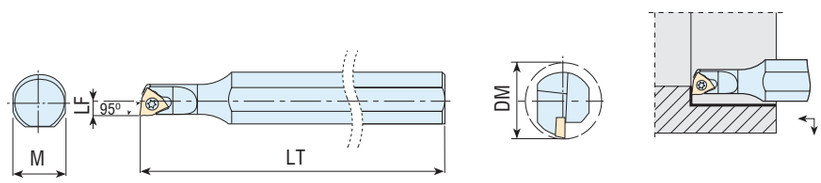
REFERENCIA	H	LF	WF	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
S12K-SVJCR/L-11	11	125	7	13	VC.T1103..	TDA-018	-	-	LLT-8
S16P-SVJCR/L-11	14.8	170	11	20					
S20R-SVJCR/L-11	18.3	200	13	25					

SVJCR/L - INT 93º - CON REFRIGERACIÓN INTERIOR

REFERENCIA	H	LF	WF	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
R12H-SVJCR/L-11	11	100	7	13	VC.T1103..	TDA-018	-	-	LLT-8
R16M-SVJCR/L-11	14.8	105	11	20					
R20P-SVJCR/L-11	18.3	170	13	25					

SWLCR/L - INT 95º

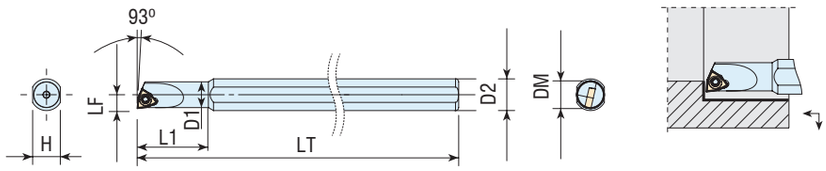




REFERENCIA	H	LF	WF	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
S0806H-SWLCR/L-03	7.3	100	4	8	WC..0302..	TDA-016	-	-	LLT-8
S1008K-SWLCR/L-03	9	125	6	10		TDA-017			

SWUBR/L - INT 93º

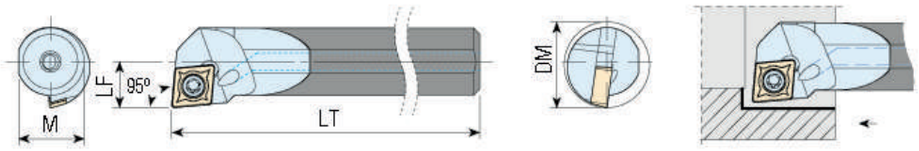




REFERENCIA	H	LF	WF	D2	D1	L1	DMIN	INSERTO	TORNILLO AMARRE	LLAVE
S1006H-SWUBR/L-06	7.3	100	3	10	5	18	6	WBGT060102-L	TDA-004	LLT-6
S0855H-SWUBR/L-06	7.3	100	2.75	8	5	18	5.7		TDA-006	
S0807H-SWUBR/L-06	7.3	100	3.5	8	6.5	18	7			

SCLCR/L - INT 95º - METAL DURO INTERIOR CON REFRIGERACIÓN

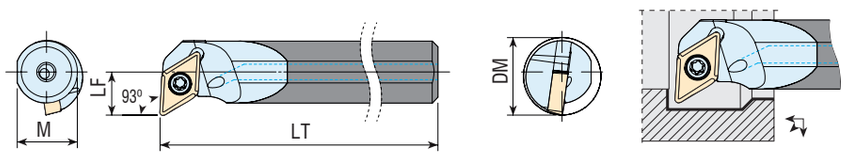




REFERENCIA	H	LF	WF	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
MD06J-SCLCR/L-06	5.7	110	4.5	8	CC.T0602..	TDA-018	-	-	LLT-8
MD08K-SCLCR/L-06	7.5	125	6	11					
MD10M-SCLCR/L-06	9.5	150	7	13					
MD12Q-SCLCR/L-06	11	180	9	16					
MD16R-SCLCR/L-09	15	200	11	20	CC.T09T3..	TDA-047	-	-	LLT-15
MD20S-SCLCR/L-09	19	250	13	24					

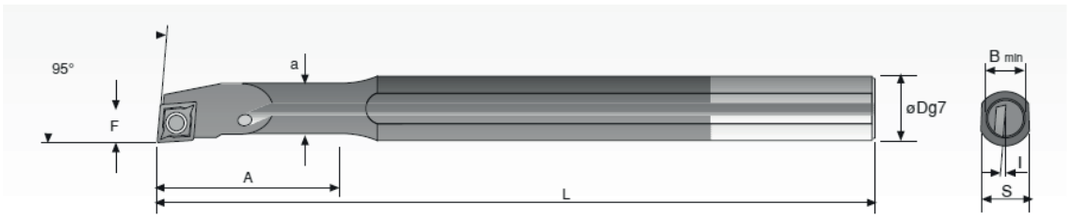
SDUCR/L - INT 93º - METAL DURO INTERIOR CON REFRIGERACIÓN





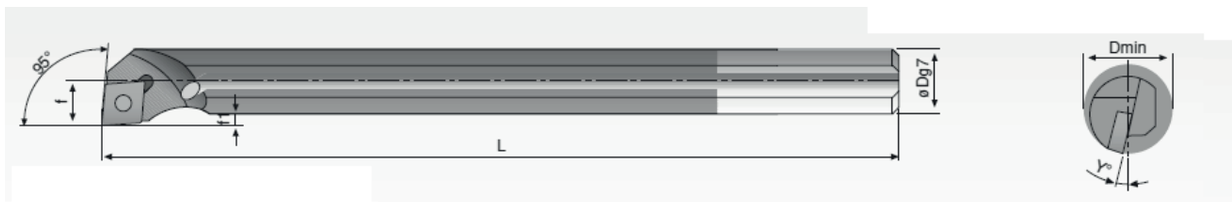
REFERENCIA	H	LF	WF	DMIN	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	LLAVE
MD10M-SDUCR/L-07	9.5	150	8	13	DC.T0702..	TDA-018	-	-	LLT-8
MD12Q-SDUCR/L-07	11	180	9	16					
MD16R-SDUCR/L-11	15	200	11	20	DC.T11T3..	TDA-047	-	-	LLT-15
MD20S-SDUCR/L-11	18.3	250	12	23					

Portaherramienta Anti-Vibratorio TIN 95º - Cuerpo Reducido - SCLCR/L



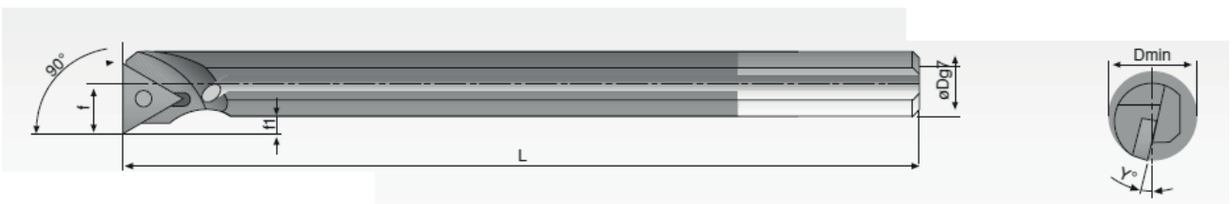
Referencia	ØDg7	a	L	F	B	A	l	S	Tornillo Porta	Para Placa
AR0806H-SCLCR/L-06	8	6	100	4	8	25	18	7	TDA-099	
AR1008J-SCLCR/L-06	10	8	110	6	12	32	15	9	TDA-099	CC..0602
AR1210K-SCLCR/L-06	12	10	125	7	14	38	13	11	TDA-099	
AR1612M-SCLCR/L-06	16	12	150	9	18	50	10	15	TDA-099	

Portaherramienta Anti-Vibratorio TIN 95º - SCLCR/L



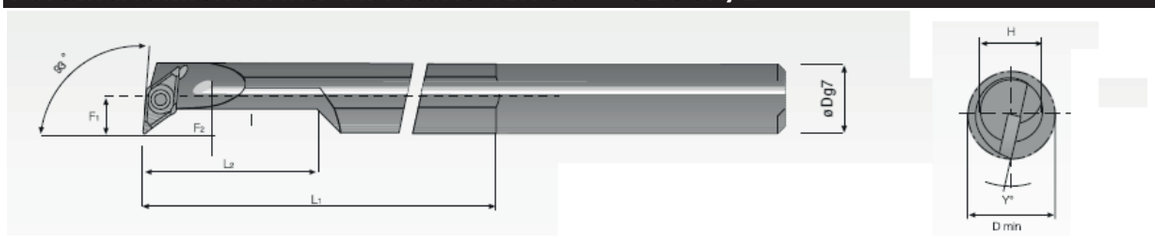
Referencia	ØDg7	f	L	f1	Dmin	Yº	Tornillo Porta	Para Placa
AR08H-SCLCR/L 06	8	4.5	100	0.5	9	15	TDA-099	CC..0602
AR10K-SCLCR/L 06	10	6.5	125	0.5	11	13	TDA-099	CC..0602
AR12M-SCLCR/L 06	12	6.5	150	0.5	13	10	TDA-099	CC..0602
AR16R-SCLCR/L 09	16	8.5	200	0.5	17	7	TDA-097	CC..09T3
AR20S-SCLCR/L 09	20	10.5	220	0.5	21	7	TDA-097	CC..09T3

Portaherramienta Anti-Vibratorio TIN 90º - STFCR/L



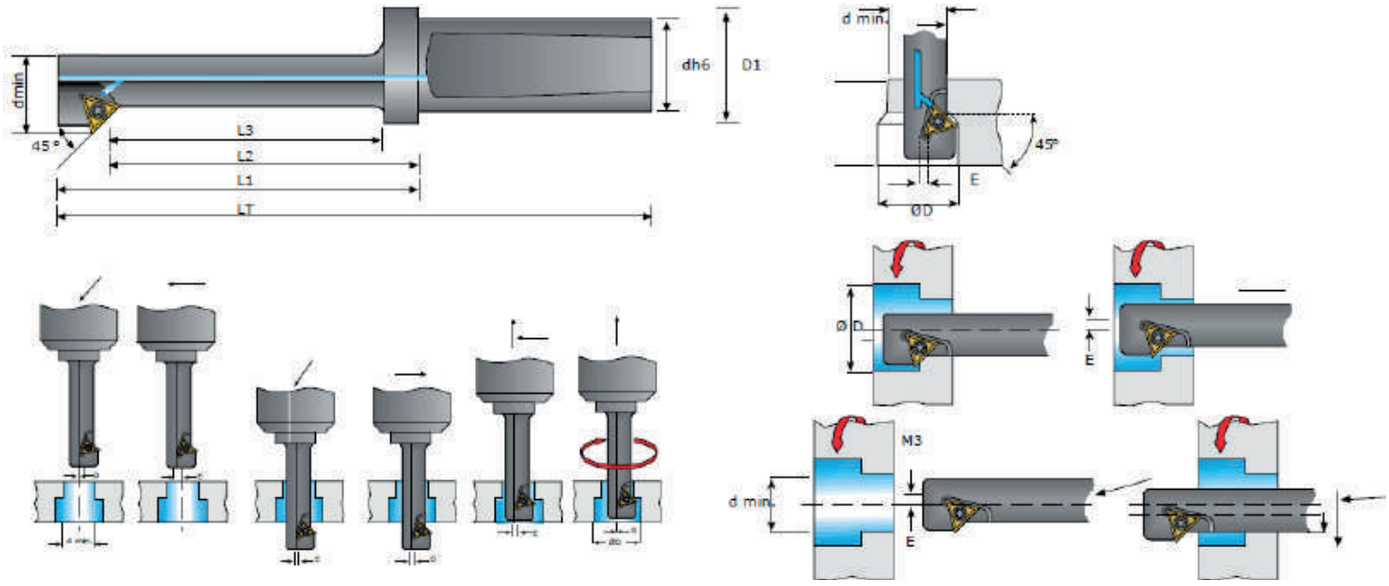
Referencia	ØDg7	f	L	f1	Dmin	Yº	Tornillo Porta	Para Placa
AR10K-STFCR/L 11	10	5.5	125	0.5	11	13	TDA-099	TC..1102
AR12M-STFCR/L 11	12	6.5	150	0.5	13	10	TDA-099	TC..1102
AR16R-STFCR/L 11	16	8.5	200	0.5	17	7	TDA-099	TC..1102
AR20S-STFCR/L 16	20	10.5	220	0.5	21	7	TDA-097	TC..16T3

Portaherramienta Anti-Vibratorio TIN 90º - SDUCR/L



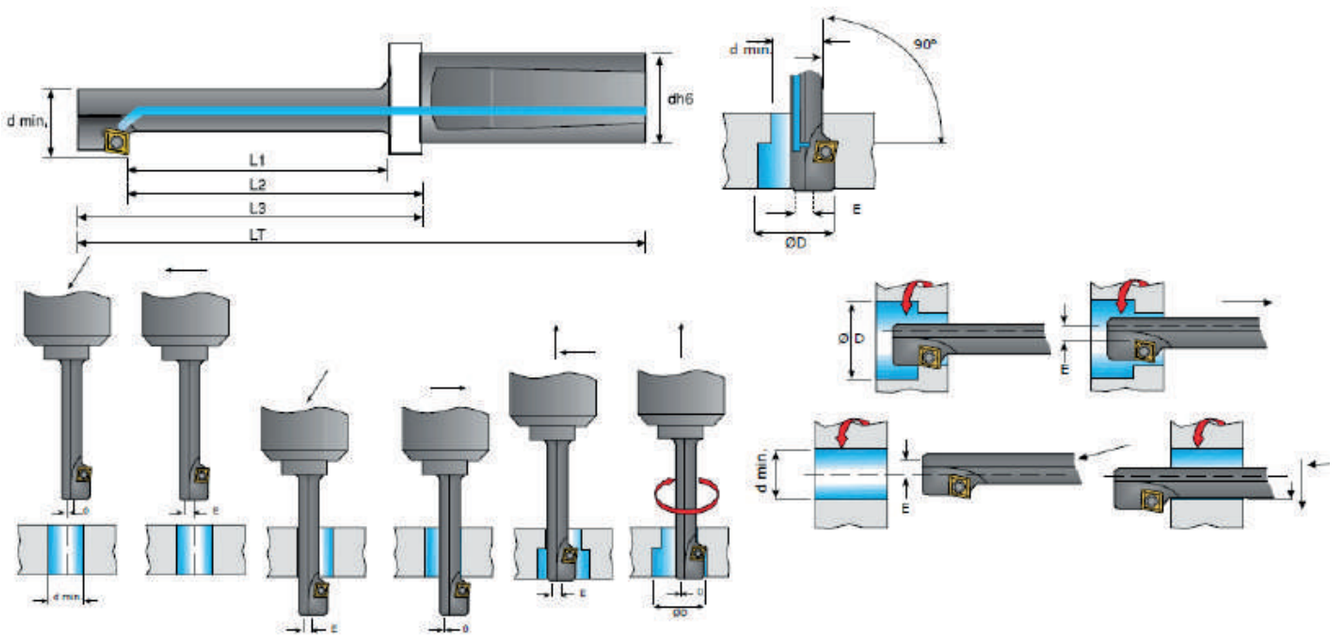
Referencia	ØDg7	L1	L2	F1	F2	D-min	Yº	H	Tornillo Porta	Para Placa
AR1008K-SDUCR/L 07	10	125	22	6.5	4.5	12	15	9	TDA-099	DCMT0702
AR1210M-SDUCR/L 07	12	150	28	6.5	4.5	12	15	11	TDA-099	DCMT0702
AR1612R-SDUCR/L 07	16	200	36	8.5	4.5	18	10	15	TDA-099	DCMT0702
AR2016S-SDUCR/L 11	20	220	40	10.5	4.5	22	7	19	TDA-099	DCMT11T3

Portaherramientas para Chaflán 45º Int/Ext



Referencia	D	dmin	dh6	L1	L2	L3	LT	D1	E	Para Placa	Tornillo Placa
PTED15-T08	15	10	20	55	42	35	105	25	2.70	TCMT0802	TDA-103
PTED20-T08	20	14	20	60	47	40	110	25	3.20	TCMT0802	TDA-103
PTED23-T11	23	17	20	70	57	50	120	25	3.20	TCMT1102	TDA-099
PTED27-T11	27	21	20	90	77	70	140	25	3.20	TCMT1102	TDA-099
PTED31-T11	31	24	20	100	87	80	150	25	3.70	TCMT1102	TDA-099

Portaherramientas para Mecanizado Int/Ext



Referencia	D	dmin	dh6	L1	L2	L3	LT	D1	E	Para Placa	Tornillo Placa
PTED18-C06	18	10.5	20	40	47	62	112	4	NO	CCMT060204	TDA-099
PTED20-C06	20	13	20	45	52	67	117	3.75	SI	CCMT060204	TDA-099
PTED24-C06	24	15	20	50	57	72	122	4.75	SI	CCMT060204	TDA-099
PTED26-C06	26	17	20	60	67	82	132	5	SI	CCMT060204	TDA-099
PTED30-C06	30	19	20	65	77	92	142	6	SI	CCMT060204	TDA-099
PTED33-C09	33	21	20	75	82	102	152	6.5	SI	CCMT09T304	TDA-097

Sets de Portaherramientas de interior - Placas CC..T



Referencia	INCLUYE PORTAS	Refrigeración Interior	Incluye
SET-SCLCR	S08H-SCLCR-06 S10K-SCLCR-06 S12K-SCLCR-06 S16P-SCLCR-09	NO	2 tornillos recambio 2 llaves apriete 1 bote de molykote
SET-SCLCL	S08H-SCLCL-06 S10K-SCLCL-06 S12K-SCLCL-06 S16P-SCLCL-09	NO	2 tornillos recambio 2 llaves apriete 1 bote de molykote
SET-RSCLCR	R08H-SCLCR-06 R10K-SCLCR-06 R12H-SCLCR-06 R16M-SCLCR-09	SI	2 tornillos recambio 2 llaves apriete 1 bote de molykote
SET-RSCLCL	R08H-SCLCR-06 R10K-SCLCR-06 R12H-SCLCR-06 R16M-SCLCR-09	SI	2 tornillos recambio 2 llaves apriete 1 bote de molykote

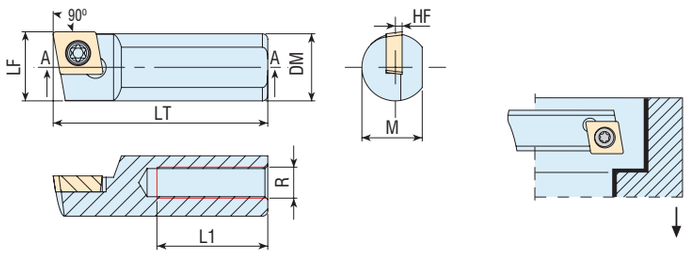
Sets de Portaherramientas de interior - Placas DC..T

Referencia	INCLUYE PORTAS	Refrigeración Interior	Incluye
SET-SDUCR	S10K-SDUCR-07 S12K-SDUCR-07 S16P-SDUCR-11	NO	2 tornillos recambio 2 llaves apriete 1 bote de molykote
SET-SDUCL	S10K-SDUCL-07 S12K-SDUCL-07 S16P-SDUCL-11	NO	2 tornillos recambio 2 llaves apriete 1 bote de molykote
SET-RSDUCR	R10H-SDUCR-07 R12H-SDUCR-07 R16M-SDUCR-11	SI	2 tornillos recambio 2 llaves apriete 1 bote de molykote
SET-RSDUCL	R10H-SDUCL-07 R12H-SDUCL-07 R16M-SDUCL-11	SI	2 tornillos recambio 2 llaves apriete 1 bote de molykote



SCACR/L - INT 90º - CARTUCHOS DE TORNEADO

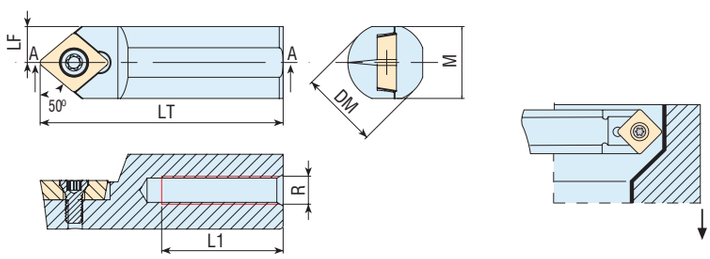




REFERENCIA	DM	M	LF	L1	WF	R	INSERTO	TORNILLO AMARRE PLACA	LLAVE
S10X-SCACR/L-06	10	9	25	10	10.3	M5X0.8	CC..0602..	TDA-018	LLT-8
S10A-SCACR/L-06	10	9	32	15	10.3	M5X0.8			
S10C-SCACR/L-06	10	9	50	25	10.3	M5X0.8			
S12B-SCACR/L-06	12	11	40	25	12.3	M5X0.8			
S12D-SCACR/L-06	12	11	60	25	12.3	M5X0.8			
S12D-SCACR/L-09	12	11	60	25	12.2	M5X0.8	CC.09T3..	TDA-046	LLT-15
S12H-SCACR/L-09	12	11	100	25	12.2	M5X0.8			
S15C-SCACR/L-09	15	14	50	25	15.3	M8X1.25			
S15E-SCACR/L-09	15	14	70	45	15.3	M8X1.25			
S15D-SCACR/L-09	15	14	60	30	15.3	M8X1.25			
S16A-SCACR/L-09	16	15	32	15	16.5	M6X1			
S16B-SCACR/L-09	16	15	40	20	16.5	M6X1			
S16C-SCACR/L-09	16	15	50	25	16.5	M6X1			
S16D-SCACR/L-09	16	15	60	30	16.5	M6X1			
S16E-SCACR/L-09	16	15	70	30	16.5	M6X1			
S16G-SCACR/L-09	16	15	90	30	16.5	M6X1			
S16H-SCACR/L-09	16	15	100	35	16.5	M6X1			
S18E-SCACR/L-09	18	17	70	30	18.5	M8X1.25			
S20E-SCACR/L-09	20	18.3	70	30	20.5	M6X1			

SCMCN - INT 50º - CARTUCHOS DE TORNEADO

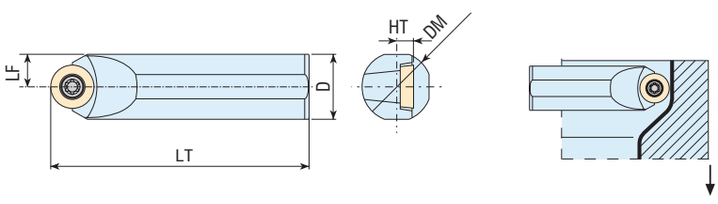




REFERENCIA	DCON	H	LF	TLH	WF	TD	INSERTO	TORNILLO VVAMARRE PLACA	LLAVE
S10X-SCMCN-06	10	9	25	10	5	M5X0.8	CC..0602..	TDA-018	LLT-8
S12D-SCMCN-06	12	11	60	25	6	M5X0.8			
S16C-SCMCN-09	16	15	50	25	8	M6X1	CC..09T3..	TDA-049	LLT-15
S16D-SCMCN-09	16	15	60	25	8	M6X1			

SRSCN - INT 0º - CARTUCHOS DE TORNEADO

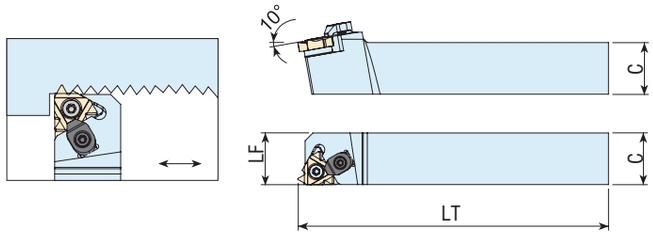




REFERENCIA	DCON	H	LF	HT	WF	INSERTO	TORNILLO AMARRE PLACA	LLAVE
S12D-SRSCN-10	12	11	60	6	6	RC.10T3	TDA-047	LLT-15
S14D-SRSCN-10	14	13	60	7	7		TDA-049	
S16D-SRSCN-10	16	15	60	8	8			

ROSCADO EXTERIOR - NER/NEL

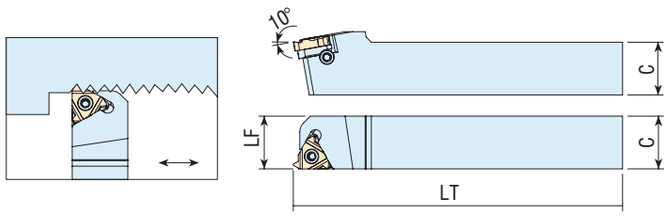




REFERENCIA	C	LF	WF	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	BRIDA AMARRE PLACA	TORNILLO AMARRE BRIDA	LLAVE
NER/L0808-E11	8	70	11	11ER-11EL	TDA-018	-	-	-	-	LLT-8
NER/L1010-E11	10	70	11							
NER/L1212-F11	12	80	12							
NER/L1616-H11	16	100	16							
NER/L2020-H11	20	100	20							
NER/L1616-H16	16	100	16	16ER-16EL	TDA-051	PB-005	TPB-011	BDA-18	TDA-066	LLT-15
NER/L2020-K16	20	125	20							
NER/L2525-M16	25	150	25							
NER/L3232-P16	32	170	32							
NER/L2525-M22	25	150	25	22ER-22EL	TDA-074	PB-006	TPB-012	BDA-18	TDA-066	LLT-20
NER/L3232-P22	32	170	32							
NER/L4040-S22	40	250	40							

ROSCADO EXTERIOR - PLACA BASE 1.5º

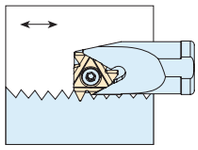


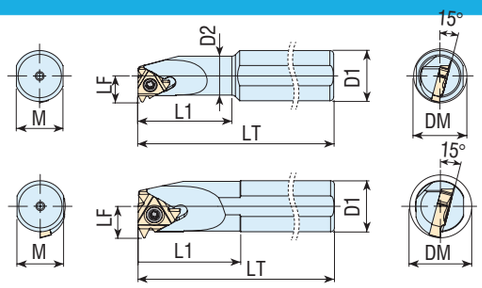


REFERENCIA	H / B	LF	WF	INSERTO	TORNILLO AMARRE	PLACA BASE DERECHA	PLACA BASE IZQUIERDA	TORNILLO LATERAL	ARANDELA	LLAVE
NXER/L1616-H16	16	100	16	16..	TDA-091	PB-007	PB-008	TEA-041	MDP-011	LLT-10
NXER/L2020-K16	20	125	20							
NXER/L2525-M16	25	150	25							
NXER/L3232-P16	32	170	32							
NXER/L2525-M22	25	150	25	22..	TDA-093	PB-009	PB-010	TEA-042	MDP-012	LLT-20
NXER/L3232-P22	32	170	32							
NXER/L4040-S22	40	250	40							
NXER/L2525-M27	25	150	25	27..	TDA-086	PB-011	PB-012	TEA-043	MDP-013	LLT-20
NXER/L3232-P27	32	170	32							
NXER/L4040-S27	40	250	40							

ROSCADO INTERIOR - NIR/NIL



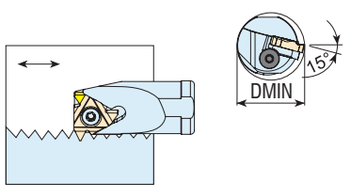


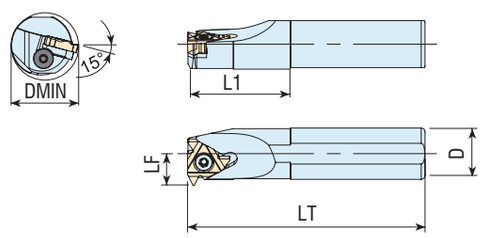


REFERENCIA	D1	D2	LT	LF	L1	DM	INSERTO	TORNILLO AMARRE	PLACA BASE	TORNILLO PLACA BASE	BRIDA AMARRE PLACA	TORNILLO AMARRE BRIDA	LLAVE
NIR/LS12-H06	12	5	100	4.3	15	6.4	06..	TDA-005	-	-	-	-	LLT-6
NIR/LS16-H06	16	5	100	4.3	15	6.4							
NIR/LS16-M08	16	7	150	5.3	18	7.8	08..	TDA-008	-	-	-	-	LLT-7
NIR/LS10-H11	10	10	100	7.4	-	12	11..	TDA-018	-	-	-	-	LLT-8
NIR/LS12-K11	12	12	125	8.4	-	16							
NIR/LS1610-M11	16	10	150	7.4	25	12							
NIR/LS1613-M11	16	13	150	8.9	32	15							
NIR/LS16-M11	16	16	150	11.7	-	19							
NIR/LS1613-M16	16	13	150	10.2	32	16	16..	TDA-047	-	-	-	-	LLT-15
NIR/LS16-M16	16	16	150	11.7	-	19							
NIR/LS2016-P16	20	16	170	11.7	40	19		TDA-049					
NIR/LS20-P16	20	20	170	13.7	-	24							
NIR/LS25-R16	25	25	200	16.2	-	29		TDA-051	PB-005	TPB-013	BDA-18	TDA-066	LLT-15
NIR/LS32-S16	32	32	250	19.7	-	36							
NIR/LS40-T16	40	40	300	23.7	-	44				TPB-011			
NIR/LS50-U16	50	50	350	28.7	-	54							
NIR/LS20-P22	20	20	170	15.7	-	24	22..	TDA-079	-	-	-	-	LLT-20
NIR/LS25-R22	25	25	200	18.1	-	29		TDA-074	PB-006	TPB-014	BDA-18	TDA-066	LLT-20
NIR/LS32-S22	32	32	250	21.6	-	38							
NIR/LS40-T22	40	40	300	25.6	-	46				TPB-012			
NIR/LS50-U22	50	50	350	30.6	-	58							

ROSCADO INTERIOR - PLACA BASE 1.5º



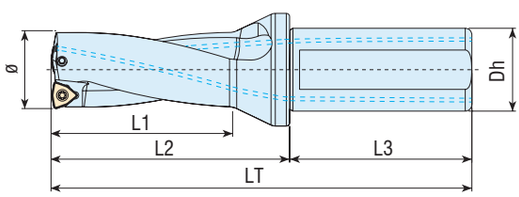


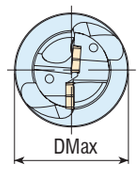


REFERENCIA	D	LF	LT	DM	INSERTO	TORNILLO AMARRE	PLACA BASE DERECHA	PLACA BASE IZQUIERDA	TORNILLO LATERAL	ARANDELA	LLAVE
NXIR/LS25-R16	25	16.2	200	29	16..	TDA-091	PB-007	PB-008	TEA-041	MDP-011	LLT-10
NXIR/LS32-S16	32	19.7	250	36							
NXIR/LS40-T16	40	23.7	300	44							
NXIR/LS50-U16	50	28.7	350	54							
NXIR/LS25-R22	25	18.1	200	29	22..	TDA-093	PB-009	PB-010	TEA-042	MDP-012	LLT-20
NXIR/LS32-S22	32	21.6	250	38							
NXIR/LS40-T22	40	25.6	300	46							
NXIR/LS50-U22	50	30.6	350	58							
NXIR/LS32-S27	32	22.6	250	40	27..	TDA-085	PB-011	PB-012	TEA-043	MDP-013	LLT-20
NXIR/LS40-T27	40	26.6	300	48		TDA-086					
NXIR/LS50-U27	50	31.6	350	58							

BROCAS DE TALADRADO 2XD - PLACA WCM..







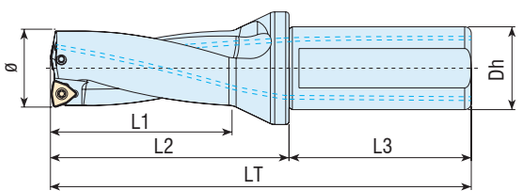
REFERENCIA	Ø	DCOM	DCSFMS	OAL	LU	LPR	LS	INSERTO	TORNILLO PLACA	LLAVE
NPDT-16XD2-WC03	16	25	34	110	32	54	56	WCM.030208	TDA-014	LLT-8
NPDT-16.5XD2-WC03	16.5	25	34	110	32	54	56			
NPDT-17XD2-WC03	17	25	34	112	34	56	56			
NPDT-17.5XD2-WC03	17.5	25	34	112	34	56	56			
NPDT-18XD2-WC03	18	25	34	114	36	58	56			
NPDT-18.5XD2-WC03	18.5	25	34	114	36	58	56			
NPDT-19XD2-WC03	19	25	34	116	38	60	56			
NPDT-19.5XD2-WC03	19.5	25	34	116	38	60	56			
NPDT-20XD2-WC04	20	25	34	118	40	62	56	WCM.040208	TDA-014	LLT-8
NPDT-20.5XD2-WC04	20.5	25	34	118	40	62	56			
NPDT-21XD2-WC04	21	25	34	120	42	64	56			
NPDT-21.5XD2-WC04	21.5	25	34	120	42	64	56			
NPDT-22XD2-WC04	22	25	34	122	44	66	56			
NPDT-22.5XD2-WC04	22.5	25	34	122	44	66	56			
NPDT-23XD2-WC04	23	25	34	124	46	68	56			
NPDT-23.5XD2-WC04	23.5	25	34	124	46	68	56			
NPDT-24XD2-WC05	24	25	34	126	48	70	56	WCM.050308	TDA-027	LLT-8
NPDT-24.5XD2-WC05	24.5	25	34	126	48	70	56			
NPDT-25XD2-WC05	25	25	34	128	50	72	56			
NPDT-25.5XD2-WC05	25.5	25	34	128	50	72	56			
NPDT-26XD2-WC05	26	25	34	130	52	74	56			
NPDT-26.5XD2-WC05	26.5	25	34	130	52	74	56			
NPDT-27XD2-WC05	27	25	34	132	54	76	56			
NPDT-27.5XD2-WC05	27.5	25	34	132	54	76	56			
NPDT-28XD2-WC05	28	25	34	134	56	78	56			
NPDT-28.5XD2-WC05	28.5	25	34	134	56	78	56			
NPDT-29XD2-WC05	29	25	34	136	58	80	56			
NPDT-29.5XD2-WC05	29.5	25	34	136	58	80	56			
NPDT-30XD2-WC06	30	32	44	147	60	87	60	WCM.06T308	TDA-044	LLT-10
NPDT-31XD2-WC06	31	32	44	149	62	89	60			
NPDT-32XD2-WC06	32	32	44	151	64	91	60			
NPDT-33XD2-WC06	33	32	44	153	66	93	60			
NPDT-34XD2-WC06	34	32	44	155	68	95	60			
NPDT-35XD2-WC06	35	32	44	157	70	97	60			
NPDT-36XD2-WC06	36	32	44	159	72	99	60			
NPDT-37XD2-WC06	37	32	44	161	74	101	60			
NPDT-38XD2-WC06	38	32	44	163	76	103	60			
NPDT-39XD2-WC06	39	32	44	165	78	105	60			
NPDT-40XD2-WC06	40	32	44	167	80	107	60			
NPDT-41XD2-WC06	41	32	44	169	82	109	60			
NPDT-42XD2-WC06	42	32	44	171	84	111	60			
NPDT-43XD2-WC06	43	32	44	173	86	113	60			
NPDT-44XD2-WC06	44	32	44	175	88	115	60			

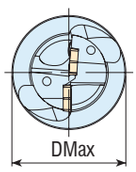
BROCAS DE TALADRADO 3XD - PLACA WCM.. (ø16 A 29 mm)

REFERENCIA	Ø	DCOM	DCSFMS	OAL	LU	LPR	LS	INSERTO	TORNILLO PLACA	LLAVE
NPDT-45XD2-WC08	45	40	54	192	90	122	70	WCM.080412	TDA-066	LLT-15
NPDT-46XD2-WC08	46	40	54	194	92	124	70			
NPDT-47XD2-WC08	47	40	54	196	94	126	70			
NPDT-48XD2-WC08	48	40	54	198	96	128	70			
NPDT-49XD2-WC08	49	40	54	200	98	130	70			
NPDT-50XD2-WC08	50	40	54	202	100	132	70			
NPDT-51XD2-WC08	51	40	54	204	102	134	70			
NPDT-52XD2-WC08	52	40	54	206	104	136	70			
NPDT-53XD2-WC08	53	40	54	208	106	138	70			
NPDT-54XD2-WC08	54	40	54	210	108	140	70			
NPDT-55XD2-WC08	55	40	54	212	110	142	70			
NPDT-56XD2-WC08	56	40	64	214	112	144	70			
NPDT-57XD2-WC08	57	40	64	216	114	146	70			
NPDT-58XD2-WC08	58	40	64	218	116	148	70			
NPDT-59XD2-WC08	59	40	64	220	118	150	70			
NPDT-60XD2-WC08	60	40	64	222	120	152	70			

BROCAS DE TALADRADO 3XD - PLACA WCM.. (ø16 A 29 mm)



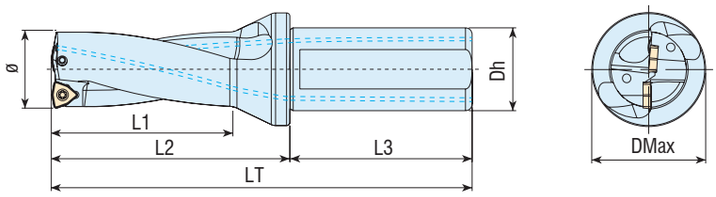




REFERENCIA	Ø	DCOM	DCSFMS	OAL	LU	LPR	LS	INSERTO	TORNILLO PLACA	LLAVE
NPDT-16XD3-WC03	16	25	34	126	48	70	56	WCM.030208	TDA-014	LLT-8
NPDT-16.5XD3-WC03	16.5	25	34	126	48	70	56			
NPDT-17XD3-WC03	17	25	34	129	51	73	56			
NPDT-17.5XD3-WC03	17.5	25	34	129	51	73	56			
NPDT-18XD3-WC03	18	25	34	132	54	76	56			
NPDT-18.5XD3-WC03	18.5	25	34	132	54	76	56			
NPDT-19XD3-WC03	19	25	34	135	57	79	56			
NPDT-19.5XD3-WC04	19.5	25	34	135	57	79	56			
NPDT-20XD3-WC04	20	25	34	138	60	82	56	WCM.040208	TDA-014	LLT-8
NPDT-20.5XD3-WC04	20.5	25	34	138	60	82	56			
NPDT-21XD3-WC04	21	25	34	141	63	85	56			
NPDT-21.5XD3-WC04	21.5	25	34	141	63	85	56			
NPDT-22XD3-WC04	22	25	34	144	66	88	56			
NPDT-22.5XD3-WC04	22.5	25	34	144	66	88	56			
NPDT-23XD3-WC04	23	25	34	147	69	91	56			
NPDT-23.5XD3-WC04	23.5	25	34	147	69	91	56			
NPDT-24XD3-WC05	24	25	34	150	72	94	56	WCM.050308	TDA-027	LLT-8
NPDT-24.5XD3-WC05	24.5	25	34	150	72	94	56			
NPDT-25XD3-WC05	25	25	34	153	75	97	56			
NPDT-25.5XD3-WC05	25.5	25	34	153	75	97	56			
NPDT-26XD3-WC05	26	25	34	156	78	100	56			
NPDT-26.5XD3-WC05	26.5	25	34	156	78	100	56			
NPDT-27XD3-WC05	27	25	34	159	81	103	56			
NPDT-27.5XD3-WC05	27.5	25	34	159	81	103	56			
NPDT-28XD3-WC05	28	25	34	162	84	106	56			
NPDT-28.5XD3-WC05	28.5	25	34	162	84	106	56			
NPDT-29XD3-WC05	29	25	34	165	87	109	56			
NPDT-29.5XD3-WC05	29.5	25	34	165	87	109	56			

BROCAS DE TALADRADO 3XD - PLACA WCM.. (ø30 A 60 mm)

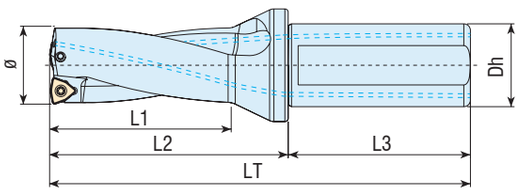


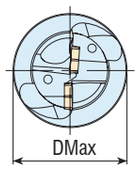


REFERENCIA	Ø	DCOM	DCSFMS	OAL	LU	LPR	LS	INSERTO	TORNILLO PLACA	LLAVE
NPDT-30XD3-WC06	30	32	44	177	90	117	60	WCM.06T308	TDA-044	LLT-10
NPDT-30.5XD3-WC06	30.5	32	44	177	90	117	60			
NPDT-31XD3-WC06	31	32	44	180	93	120	60			
NPDT-31.5XD3-WC06	31.5	32	44	180	93	120	60			
NPDT-32XD3-WC06	32	32	44	183	96	123	60			
NPDT-32.5XD3-WC06	32.5	32	44	183	96	123	60			
NPDT-33XD3-WC06	33	32	44	186	99	126	60			
NPDT-33.5XD3-WC06	33.5	32	44	186	99	126	60			
NPDT-34XD3-WC06	34	32	44	189	102	129	60			
NPDT-34.5XD3-WC06	34.5	32	44	189	102	129	60			
NPDT-35XD3-WC06	35	32	44	192	105	132	60			
NPDT-35.5XD3-WC06	35.5	32	44	192	105	132	60			
NPDT-36XD3-WC06	36	32	44	195	108	135	60			
NPDT-36.5XD3-WC06	36.5	32	44	195	108	135	60			
NPDT-37XD3-WC06	37	32	44	198	111	138	60			
NPDT-37.5XD3-WC06	37.5	32	44	198	111	138	60			
NPDT-38XD3-WC06	38	32	44	201	114	141	60			
NPDT-38.5XD3-WC06	38.5	32	44	201	114	141	60			
NPDT-39XD3-WC06	39	32	44	204	117	144	60			
NPDT-39.5XD3-WC06	39.5	32	44	204	117	144	60			
NPDT-40XD3-WC06	40	32	44	207	120	147	60			
NPDT-40.5XD3-WC06	40.5	32	44	207	120	147	60			
NPDT-41XD3-WC06	41	32	44	210	123	150	60			
NPDT-41.5XD3-WC06	41.5	32	44	210	123	150	60			
NPDT-42XD3-WC06	42	32	44	213	126	153	60			
NPDT-42.5XD3-WC06	42.5	32	44	213	126	153	60			
NPDT-43XD3-WC06	43	32	44	216	129	156	60			
NPDT-43.5XD3-WC06	43.5	32	44	216	129	156	60			
NPDT-44XD3-WC06	44	32	44	219	132	159	60			
NPDT-44.5XD3-WC06	44.5	32	44	219	132	159	60			
NPDT-45XD3-WC08	45	40	54	237	135	167	70	WCM.080412	TDA-066	LLT-15
NPDT-45.5XD3-WC08	45.5	40	54	237	135	167	70			
NPDT-46XD3-WC08	46	40	54	240	138	170	70			
NPDT-47XD3-WC08	47	40	54	243	141	173	70			
NPDT-48XD3-WC08	48	40	54	246	144	176	70			
NPDT-49XD3-WC08	49	40	54	249	147	179	70			
NPDT-50XD3-WC08	50	40	54	252	150	182	70			
NPDT-51XD3-WC08	51	40	54	255	153	185	70			
NPDT-52XD3-WC08	52	40	54	258	156	188	70			
NPDT-53XD3-WC08	53	40	54	261	159	191	70			
NPDT-54XD3-WC08	54	40	54	264	162	194	70			
NPDT-55XD3-WC08	55	40	54	267	165	197	70			
NPDT-56XD3-WC08	56	40	64	270	168	200	70			
NPDT-57XD3-WC08	57	40	64	273	171	203	70			
NPDT-58XD3-WC08	58	40	64	276	174	206	70			
NPDT-59XD3-WC08	59	40	64	279	177	209	70			
NPDT-60XD3-WC08	60	40	64	282	180	212	70			

BROCAS DE TALADRADO 4XD - PLACA WCM..



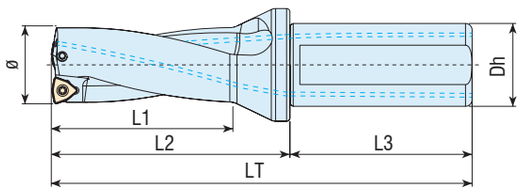


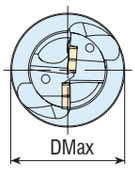


REFERENCIA	Ø	DCOM	DCSFMS	OAL	LU	LPR	LS	INSERTO	TORNILLO PLACA	LLAVE
NPDT-16XD4-WC03	16	25	34	142	64	86	56	WCM.030208	TDA-014	LLT-8
NPDT-16.5XD4-WC03	16.5	25	34	142	64	86	56			
NPDT-17XD4-WC03	17	25	34	146	68	90	56			
NPDT-17.5XD4-WC03	17.5	25	34	146	68	90	56			
NPDT-18XD4-WC03	18	25	34	150	72	94	56			
NPDT-18.5XD4-WC03	18.5	25	34	150	72	94	56			
NPDT-19XD4-WC03	19	25	34	154	76	98	56			
NPDT-19.5XD4-WC03	19.5	25	34	154	76	98	56			
NPDT-20XD4-WC04	20	25	34	158	80	102	56	WCM.040208	TDA-014	LLT-8
NPDT-20.5XD4-WC04	20.5	25	34	158	80	102	56			
NPDT-21XD4-WC04	21	25	34	162	84	106	56			
NPDT-21.5XD4-WC04	21.5	25	34	162	84	106	56			
NPDT-22XD4-WC04	22	25	34	166	88	110	56			
NPDT-22.5XD4-WC04	22.5	25	34	166	88	110	56			
NPDT-23XD4-WC04	23	25	34	170	92	114	56			
NPDT-23.5XD4-WC04	23.5	25	34	170	92	114	56			
NPDT-24XD4-WC05	24	25	34	174	96	118	56	WCM.050308	TDA-027	LLT-8
NPDT-24.5XD4-WC05	24.5	25	34	174	96	118	56			
NPDT-25XD4-WC05	25	25	34	178	100	122	56			
NPDT-25.5XD4-WC05	25.5	25	34	178	100	122	56			
NPDT-26XD4-WC05	26	25	34	182	104	126	56			
NPDT-26.5XD4-WC05	26.5	25	34	182	104	126	56			
NPDT-27XD4-WC05	27	25	34	186	108	130	56			
NPDT-27.5XD4-WC05	27.5	25	34	186	108	130	56			
NPDT-28XD4-WC05	28	25	34	190	112	134	56			
NPDT-28.5XD4-WC05	28.5	25	34	190	112	134	56			
NPDT-29XD4-WC05	29	25	34	194	116	138	56			
NPDT-29.5XD4-WC05	29.5	25	34	194	116	138	56			
NPDT-30XD4-WC06	30	32	44	207	120	147	60	WCM.06T308	TDA-044	LLT-10
NPDT-31XD4-WC06	31	32	44	211	124	151	60			
NPDT-32XD4-WC06	32	32	44	215	128	155	60			
NPDT-33XD4-WC06	33	32	44	219	132	159	60			
NPDT-33.5XD4-WC06	33.5	32	44	219	132	159	60			
NPDT-34XD4-WC06	34	32	44	223	136	163	60			
NPDT-35XD4-WC06	35	32	44	227	140	167	60			
NPDT-36XD4-WC06	36	32	44	231	144	171	60			
NPDT-37XD4-WC06	37	32	44	235	148	175	60			
NPDT-38XD4-WC06	38	32	44	239	152	179	60			
NPDT-38.5XD4-WC06	38.5	32	44	239	152	179	60			
NPDT-39XD4-WC06	39	32	44	243	156	183	60			
NPDT-40XD4-WC06	40	32	44	247	160	187	60			
NPDT-41XD4-WC06	41	32	44	251	164	191	60			
NPDT-42XD4-WC06	42	32	44	255	168	195	60			
NPDT-43XD4-WC06	43	32	44	259	172	199	60			
NPDT-44XD4-WC06	44	32	44	263	176	203	60			
NPDT-45XD4-WC08	45	40	54	282	180	212	70	WCM.080412	TDA-066	LLT-15
NPDT-46XD4-WC08	46	40	54	286	184	216	70			
NPDT-47XD4-WC08	47	40	54	290	188	220	70			
NPDT-48XD4-WC08	48	40	54	294	192	224	70			
NPDT-49XD4-WC08	49	40	54	298	196	228	70			
NPDT-50XD4-WC08	50	40	54	302	200	232	70			

BROCAS DE TALADRADO 5XD - PLACA WCM..



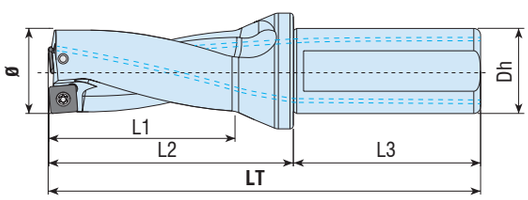


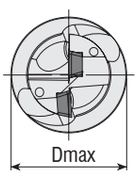


REFERENCIA	Ø	DCOM	DCSFMS	OAL	LU	LPR	LS	INSERTO	TORNILLO PLACA	LLAVE
NPDT-20XD5-WC04	20	25	34	178	100	122	56	WCM.040208	TDA-014	LLT-8
NPDT-21XD5-WC04	21	25	34	183	105	127	56			
NPDT-22XD5-WC04	22	25	34	188	110	132	56			
NPDT-23XD5-WC04	23	25	34	193	115	137	56			
NPDT-24XD5-WC05	24	25	34	198	120	142	56	WCM.050308	TDA-027	LLT-8
NPDT-25XD5-WC05	25	25	34	203	125	147	56			
NPDT-26XD5-WC05	26	25	34	208	130	152	56			
NPDT-27XD5-WC05	27	25	34	213	135	157	56			
NPDT-28XD5-WC05	28	25	34	218	140	162	56			
NPDT-29XD5-WC05	29	25	34	223	145	167	56			
NPDT-30XD5-WC06	30	32	44	237	150	177	60	WCM.06T308	TDA-044	LLT-10
NPDT-31XD5-WC06	31	32	44	242	155	182	60			
NPDT-32XD5-WC06	32	32	44	247	160	187	60			
NPDT-33XD5-WC06	33	32	44	252	165	192	60			
NPDT-34XD5-WC06	34	32	44	257	170	197	60			
NPDT-35XD5-WC06	35	32	44	262	175	202	60			
NPDT-37XD5-WC06	37	32	44	272	185	212	60			
NPDT-38XD5-WC06	38	32	44	277	190	217	60			

BROCAS DE TALADRADO 2XD - PLACA SP.. (ø12.5 A 21.5 mm)

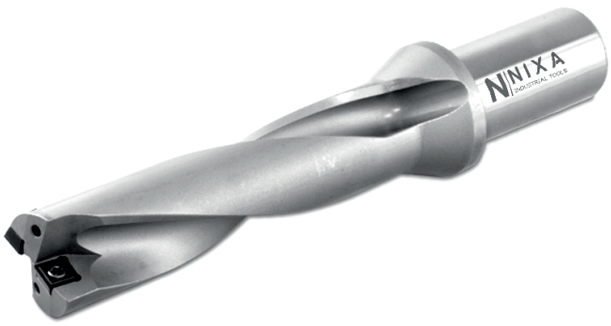


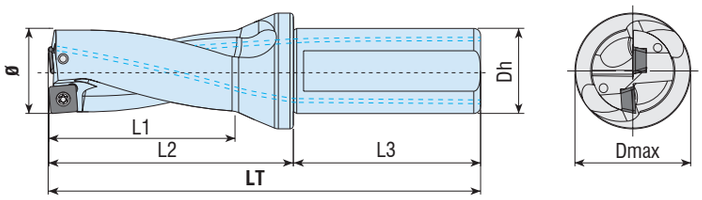




REFERENCIA	Ø	DCOM	DCSFMS	OAL	LU	LPR	LS	INSERTO	TORNILLO PLACA	LLAVE
NPDT-12.5XD2-SP05	12.5	20	25	96	24	46	50	SP..050204	TDA-006	LLT-6
NPDT-13XD2-SP05	13	20	25	98	26	48	50			
NPDT-13.5XD2-SP05	13.5	20	25	98	26	48	50			
NPDT-14XD2-SP05	14	20	25	100	28	50	50			
NPDT-14.5XD2-SP05	14.5	20	25	100	28	50	50			
NPDT-15XD2-SP05	15	20	25	102	30	52	50			
NPDT-15.5XD2-SP06	15.5	20	25	102	30	52	50	SP..060204	TDA-008	LLT-7
NPDT-16XD2-SP06	16	25	34	110	32	54	56			
NPDT-16.5XD2-SP06	16.5	25	34	110	32	54	56			
NPDT-17XD2-SP06	17	25	34	112	34	56	56			
NPDT-17.5XD2-SP06	17.5	25	34	112	34	56	56			
NPDT-18XD2-SP06	18	25	34	114	36	58	56			
NPDT-18.5XD2-SP06	18.5	25	34	114	36	58	56			
NPDT-19XD2-SP06	19	25	34	116	38	60	56			
NPDT-19.5XD2-SP06	19.5	25	34	116	38	60	56			
NPDT-20XD2-SP06	20	25	34	118	40	62	56			
NPDT-20.5XD2-SP06	20.5	25	34	118	40	62	56			
NPDT-21XD2-SP06	21	25	34	120	42	64	56			
NPDT-21.5XD2-SP06	21.5	25	34	120	42	64	56			

BROCAS DE TALADRADO 2XD - PLACA SP.. (ø22 A 50 mm)

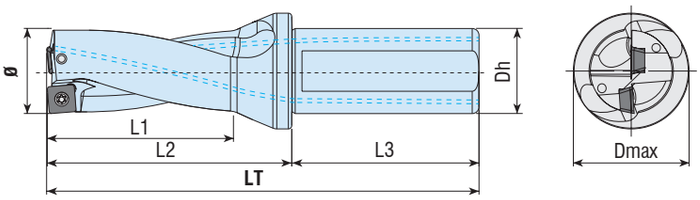




REFERENCIA	ø	DCOM	DCSFMS	OAL	LU	LPR	LS	INSERTO	TORNILLO PLACA	LLAVE
NPDT-22XD2-SP07	22	25	34	122	44	66	56	SP..07T308	TDA-014	LLT-8
NPDT-22.5XD2-SP07	22.5	25	34	122	44	66	56			
NPDT-23XD2-SP07	23	25	34	124	46	68	56			
NPDT-23.5XD2-SP07	23.5	25	34	124	46	68	56			
NPDT-24XD2-SP07	24	25	34	126	48	70	56			
NPDT-24.5XD2-SP07	24.5	25	34	126	48	70	56			
NPDT-25XD2-SP07	25	25	34	128	50	72	56			
NPDT-25.5XD2-SP07	25.5	25	34	128	50	72	56			
NPDT-26XD2-SP07	26	25	34	130	52	74	56			
NPDT-26.5XD2-SP07	26.5	25	34	130	52	74	56			
NPDT-27XD2-SP07	27	25	34	132	54	76	56			
NPDT-27.5XD2-SP07	27.5	25	34	132	54	76	56			
NPDT-28XD2-SP09	28	25	34	134	56	78	56	SP..090408	TDA-047	LLT-15
NPDT-28.5XD2-SP09	28.5	25	34	134	56	78	56			
NPDT-29XD2-SP09	29	25	34	136	58	80	56			
NPDT-29.5XD2-SP09	29.5	25	34	136	58	80	56			
NPDT-30XD2-SP09	30	32	44	147	60	87	60			
NPDT-31XD2-SP09	31	32	44	149	62	89	60			
NPDT-32XD2-SP09	32	32	44	151	64	91	60			
NPDT-33XD2-SP09	33	32	44	153	66	93	60			
NPDT-34XD2-SP11	34	32	44	155	68	95	60	SP..110408	TDA-066	LLT-15
NPDT-35XD2-SP11	35	32	44	157	70	97	60			
NPDT-36XD2-SP11	36	32	44	159	72	99	60			
NPDT-37XD2-SP11	37	32	44	161	74	101	60			
NPDT-38XD2-SP11	38	32	44	163	76	103	60			
NPDT-39XD2-SP11	39	32	44	165	78	105	60			
NPDT-40XD2-SP11	40	32	44	167	80	107	60			
NPDT-41XD2-SP11	41	32	44	169	82	109	60			
NPDT-42XD2-SP14	42	32	44	171	84	111	60	SP..140512	TDA-082	LLT-20
NPDT-43XD2-SP14	43	32	44	173	86	113	60			
NPDT-44XD2-SP14	44	32	44	175	88	115	60			
NPDT-45XD2-SP14	45	40	54	192	90	122	70			
NPDT-46XD2-SP14	46	40	54	194	92	124	70			
NPDT-47XD2-SP14	47	40	54	196	94	126	70			
NPDT-48XD2-SP14	48	40	54	198	96	128	70			
NPDT-49XD2-SP14	49	40	54	200	98	130	70			
NPDT-50XD2-SP14	50	40	54	202	100	132	70			

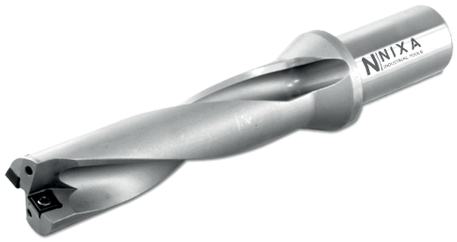
BROCAS DE TALADRADO 3XD - PLACA SP.. (ø12.5 A 37.5 mm)

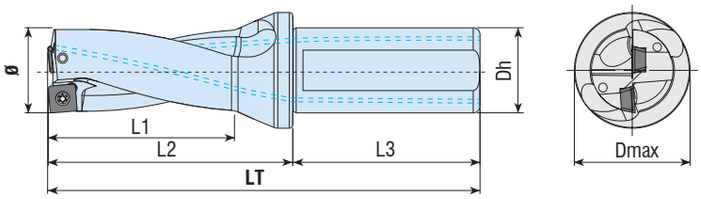




REFERENCIA	ø	DCOM	DCSFMS	OAL	LU	LPR	LS	INSERTO	TORNILLO PLACA	LLAVE
NPDT-12.5XD3-SP05	12.5	20	25	108	36	58	50	SP..050204	TDA-006	LLT-6
NPDT-13XD3-SP05	13	20	25	111	39	61	50			
NPDT-13.5XD3-SP05	13.5	20	25	111	39	61	50			
NPDT-14XD3-SP05	14	20	25	114	42	64	50			
NPDT-14.5XD3-SP05	14.5	20	25	114	42	64	50			
NPDT-15XD3-SP05	15	20	25	117	45	67	50			
NPDT-15.5XD3-SP06	15.5	20	25	117	45	67	50	SP..060204	TDA-008	LLT-7
NPDT-16XD3-SP06	16	25	34	126	48	70	56			
NPDT-16.5XD3-SP06	16.5	25	34	126	48	70	56			
NPDT-17XD3-SP06	17	25	34	129	51	73	56			
NPDT-17.5XD3-SP06	17.5	25	34	129	51	73	56			
NPDT-18XD3-SP06	18	25	34	132	54	76	56			
NPDT-18.5XD3-SP06	18.5	25	34	132	54	76	56			
NPDT-19XD3-SP06	19	25	34	135	57	79	56			
NPDT-19.5XD3-SP06	19.5	25	34	135	57	79	56			
NPDT-20XD3-SP06	20	25	34	138	60	82	56			
NPDT-20.5XD3-SP06	20.5	25	34	138	60	82	56			
NPDT-21XD3-SP06	21	25	34	141	63	85	56			
NPDT- 21.5 XD3-SP06	21.5	25	34	141	63	85	56			
NPDT-22XD3-SP07	22	25	34	144	66	88	56	SP..07T308	TDA-014	LLT-8
NPDT-22.5XD3-SP07	22.5	25	34	144	66	88	56			
NPDT-23XD3-SP07	23	25	34	147	69	91	56			
NPDT-23.5XD3-SP07	23.5	25	34	147	69	91	56			
NPDT-24XD3-SP07	24	25	34	150	72	94	56			
NPDT-24.5XD3-SP07	24.5	25	34	150	72	94	56			
NPDT-25XD3-SP07	25	25	34	153	75	97	56			
NPDT-25.5XD3-SP07	25.5	25	34	153	75	97	56			
NPDT-26XD3-SP07	26	25	34	156	78	100	56			
NPDT-26.5XD3-SP07	26.5	25	34	156	78	100	56			
NPDT-27XD3-SP07	27	25	34	159	81	103	56			
NPDT- 27.5 XD3-SP07	27.5	25	34	159	81	103	56			
NPDT-28XD3-SP09	28	25	34	162	84	106	56	SP..090408	TDA-047	LLT-15
NPDT-28.5XD3-SP09	28.5	25	34	162	84	106	56			
NPDT-29XD3-SP09	29	25	34	165	87	109	56			
NPDT-29.5XD3-SP09	29.5	25	34	165	87	109	56			
NPDT-30XD3-SP09	30	32	44	177	90	117	60			
NPDT-30.5XD3-SP09	30.5	32	44	177	90	117	60			
NPDT-31XD3-SP09	31	32	44	180	93	120	60			
NPDT-31.5XD3-SP09	31.5	32	44	180	93	120	60			
NPDT-32XD3-SP09	32	32	44	183	96	123	60			
NPDT-32.5XD3-SP09	32.5	32	44	183	96	123	60			
NPDT-33XD3-SP09	33	32	44	186	99	126	60			
NPDT- 33.5 XD3-SP079	33.5	32	44	186	99	126	60			
NPDT- 34XD3-SP11	34	32	44	189	102	129	60	SP..110408	TDA-066	LLT-15
NPDT- 34.5XD3-SP11	34.5	32	44	189	102	129	60			
NPDT- 35XD3-SP11	35	32	44	189	102	129	60			
NPDT- 35.5XD3-SP11	35.5	32	44	192	105	132	60			
NPDT- 36XD3-SP11	36	32	44	192	105	132	60			
NPDT- 36.5XD3-SP11	36.5	32	44	195	108	135	60			
NPDT- 37XD3-SP11	37	32	44	195	108	135	60			
NPDT- 37.5XD3-SP11	37.5	32	44	198	111	138	60			

BROCAS DE TALADRADO 3XD - PLACA SP.. (ø38 A 52 mm)

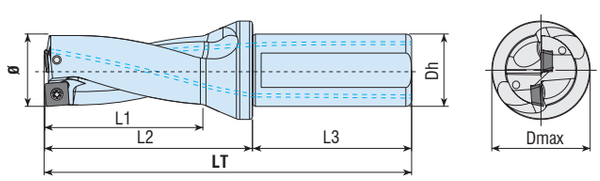




REFERENCIA	ø	DCOM	DCSFMS	OAL	LU	LPR	LS	INSERTO	TORNILLO PLACA	LLAVE
NPDT-38XD3-SP	38	32	44	201	114	141	60	SP..110408	TDA-066	LLT-15
NPDT-38.5XD3-SP	38.5	32	44	201	114	141	60			
NPDT-39XD3-SP	39	32	44	204	117	144	60			
NPDT-39.5XD3-SP	39.5	32	44	204	117	144	60			
NPDT-40XD3-SP	40	32	44	207	120	147	60			
NPDT-40.5XD3-SP	40.5	32	44	207	120	147	60			
NPDT-41XD3-SP	41	32	44	210	123	150	60			
NPDT- 41.5 XD3-SP	41.5	32	44	210	123	150	60			
NPDT-42XD3-SP	42	32	44	213	126	153	60	SP..140512	TDA-081	LLT-20
NPDT-42.5XD3-SP	42.5	32	44	213	126	153	60			
NPDT-43XD3-SP	43	32	44	216	129	156	60			
NPDT-43.5XD3-SP	43.5	32	44	216	129	156	60			
NPDT-44XD3-SP	44	32	44	219	132	159	60			
NPDT-44.5XD3-SP	44.5	32	44	219	132	159	60			
NPDT-45XD3-SP	45	40	54	237	135	167	70			
NPDT-45.5XD3-SP	45.5	40	54	237	135	167	70			
NPDT-46XD3-SP	46	40	54	240	138	170	70			
NPDT-47XD3-SP	47	40	54	243	141	173	70			
NPDT-48XD3-SP	48	40	54	246	144	176	70			
NPDT-49XD3-SP	49	40	54	249	147	179	70			
NPDT-50XD3-SP	50	40	54	252	150	182	70			
NPDT-51XD3-SP	51	40	54	255	153	185	70			
NPDT -52XD3-SP	52	40	54	258	156	188	70			

BROCAS DE TALADRADO 4XD - PLACA SP.. (ø13 A 52 mm)

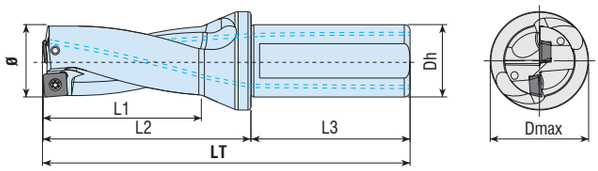




REFERENCIA	ø	DCOM	DCSFMS	OAL	LU	LPR	LS	INSERTO	TORNILLO PLACA	LLAVE
NPDT-13XD4-SP05	13	20	25	124	52	74	50	SP..050204	TDA-006	LLT-6
NPDT-14XD4-SP05	14	20	25	128	56	78	50			
NPDT-15XD4-SP05	15	20	25	132	60	82	50			
NPDT-16XD4-SP06	16	25	34	142	64	86	56	SP..060204	TDA-008	LLT-7
NPDT-17XD4-SP06	17	25	34	146	68	90	56			
NPDT-17XD4-SP06	17	25	34	146	68	90	56			
NPDT-18XD4-SP06	18	25	34	150	72	94	56			
NPDT-19XD4-SP06	19	25	34	154	76	98	56			
NPDT-19.5XD4-SP06	19.5	25	34	154	76	98	56			
NPDT-20XD4-SP06	20	25	34	158	80	102	56			
NPDT-21XD4-SP06	21	25	34	162	84	106	56			
NPDT-22XD4-SP07	22	25	34	166	88	110	56	SP..07T308	TDA-014	LLT-8

BROCAS DE TALADRADO 4XD - PLACA SP.. (ø23 A 44 mm)

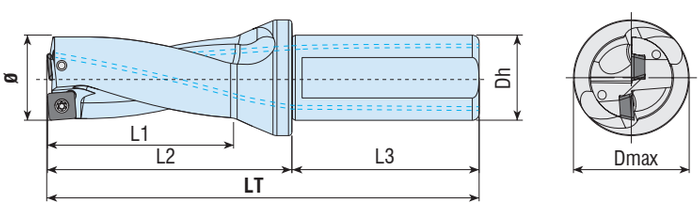




REFERENCIA	ø	DCOM	DCSFMS	OAL	LU	LPR	LS	INSERTO	TORNILLO PLACA	LLAVE
NPDT-23XD4-SP07	23	25	34	170	92	114	56	SP..07T308	TDA-014	LLT-8
NPDT-23.5XD4-SP07	23.5	25	34	170	92	114	56			
NPDT-24XD4-SP07	24	25	34	174	96	118	56			
NPDT-25XD4-SP07	25	25	34	178	100	122	56			
NPDT-26XD4-SP07	26	25	34	182	104	126	56			
NPDT-27XD4-SP07	27	25	34	186	108	130	56			
NPDT-27.5XD4-SP07	27.5	25	34	186	108	130	56			
NPDT-28XD4-SP09	28	25	34	190	112	134	56	SP..090408	TDA-047	LLT-15
NPDT-29XD4-SP09	29	25	34	194	116	138	56			
NPDT-30XD4-SP09	30	32	44	207	120	147	60			
NPDT-31XD4-SP09	31	32	44	211	124	151	60			
NPDT-32XD4-SP09	32	32	44	215	128	155	60			
NPDT-33XD4-SP09	33	32	44	219	132	159	60			
NPDT-33.5XD4-SP09	33.5	32	44	219	132	159	60			
NPDT-34XD4-SP11	34	32	44	223	136	163	60	SP..110408	TDA-066	LLT-15
NPDT-35XD4-SP11	35	32	44	227	140	167	60			
NPDT-36XD4-SP11	36	32	44	231	144	171	60			
NPDT-37XD4-SP11	37	32	44	235	148	175	60			
NPDT-38XD4-SP11	38	32	44	239	152	179	60			
NPDT-39XD4-SP11	39	32	44	243	156	183	60			
NPDT-40XD4-SP11	40	32	44	247	160	187	60			
NPDT-41XD4-SP11	41	32	44	251	164	191	60			
NPDT-42XD4-SP14	42	32	44	255	168	195	60	SP..140512	TDA-081	LLT-20
NPDT-43XD4-SP14	43	32	44	259	172	199	60			
NPDT-44XD4-SP14	44	32	44	263	176	203	60			

BROCAS DE TALADRADO 5XD - PLACA SP.. (ø14 A 52 mm)

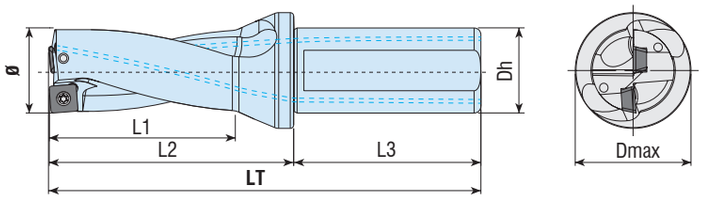




REFERENCIA	ø	DCOM	DCSFMS	OAL	LU	LPR	LS	INSERTO	TORNILLO PLACA	LLAVE
NPDT-14XD5-SP05	14	20	25	142	70	92	50	SP..050204	TDA-006	LLT-6
NPDT-16XD5-SP06	16	25	34	158	80	102	56	SP..060204	TDA-008	LLT-7
NPDT-17XD5-SP06	17	25	34	163	85	107	56			
NPDT-18XD5-SP06	18	25	34	168	90	112	56			
NPDT-19XD5-SP06	19	25	34	173	95	117	56			
NPDT-20XD5-SP06	20	25	34	178	100	122	56			
NPDT-21XD5-SP06	21	25	34	183	105	127	56			
NPDT-22XD5-SP07	22	25	34	188	110	132	56	SP..07T308	TDA-014	LLT-8
NPDT-22XD5-32-SP07	22	32	44	197	110	137	60			
NPDT-23XD5-SP07	23	25	34	193	115	137	56			
NPDT-23XD5-32-SP07	23	32	44	202	115	142	60			

BROCAS DE TALADRADO 5XD - PLACA SP.. (ø24 A 33 mm)

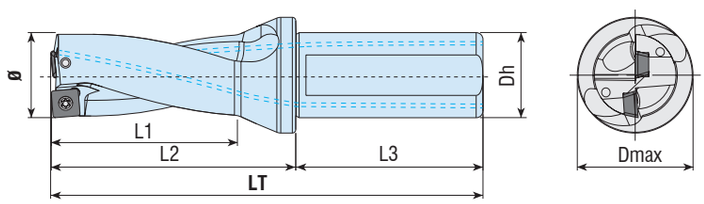




REFERENCIA	ø	DCOM	DCSFMS	OAL	LU	LPR	LS	INSERTO	TORNILLO PLACA	LLAVE
NPDT-24XD5-SP07	24	32	44	207	120	147	60	SP..07T308	TDA-014	LLT-8
NPDT-25XD5-SP07	25	25	34	203	125	147	56			
NPDT-25XD5-32-SP07	25	32	44	212	125	152	60			
NPDT-26XD5-SP07	26	25	34	208	130	152	56			
NPDT-26XD5-32-SP07	26	32	44	217	130	157	60			
NPDT-27XD5-SP07	27	25	34	213	135	157	56			
NPDT-27XD5-32-SP07	27	32	44	222	135	162	60			
NPDT-28XD5-SP09	28	32	44	227	140	167	60	SP..090408	TDA-047	LLT-15
NPDT-29XD5-SP09	29	32	44	232	145	172	60			
NPDT-30XD5-SP09	30	32	44	237	150	177	60			
NPDT-31XD5-SP09	31	32	44	242	155	182	60			
NPDT-32XD5-SP09	32	32	44	247	160	187	60			
NPDT-33XD5-SP09	33	32	44	252	165	192	60			

BROCAS DE TALADRADO 2XD - PLACA SPGT..

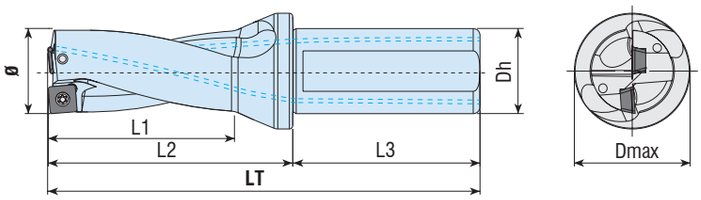




REFERENCIA	ø	DCOM	DCSFMS	OAL	LU	LPR	LS	INSERTO	TORNILLO PLACA	LLAVE
NPDT-12.5XD2-SPGT05	12.5	20	25	96	24	46	50	SPGT050204	TDA-006	LLT-6
NPDT-13XD2-SPGT05	13	20	25	98	26	48	50			
NPDT-13.5XD2-SPGT05	13.5	20	25	98	26	48	50			
NPDT-14XD2-SPGT05	14	20	25	100	28	50	50			
NPDT-15XD2-SPGT06	15	20	25	102	30	52	50			
NPDT-16XD2-SPGT06	16	25	34	110	32	54	56	SPGT060204	TDA-008	LLT-7
NPDT-16.5XD2-SPGT06	16.5	25	34	110	32	54	56			
NPDT-17XD2-SPGT06	17	25	34	112	34	56	56			
NPDT-17.5XD2-SPGT06	17.5	25	34	112	34	56	56			
NPDT-18XD2-SPGT06	18	25	34	114	36	58	56			
NPDT-19XD2-SPGT06	19	25	34	116	38	60	56			
NPDT-20XD2-SPGT06	20	25	34	118	40	62	56			
NPDT-22XD2-SPGT07	22	25	34	122	44	66	56	SPGT07T308	TDA-014	LLT-8
NPDT-22.5XD2-SPGT07	22.5	25	34	122	44	66	56			
NPDT-23XD2-SPGT07	23	25	34	124	46	68	56			
NPDT-24XD2-SPGT07	24	25	34	126	48	70	56			
NPDT-25XD2-SPGT07	25	25	34	128	50	72	56			
NPDT-26XD2-SPGT07	26	25	34	130	52	74	56			
NPDT-28XD2-SPGT09	28	25	34	134	56	78	56	SPGT090408	TDA-047	LLT-15
NPDT-29XD2-SPGT09	29	25	34	136	58	80	56			
NPDT-30XD2-SPGT09	30	32	44	147	60	87	60			
NPDT-32XD2-SPGT09	32	32	44	151	64	91	60			
NPDT-35XD2-SPGT11	35	32	44	157	70	97	60	SPGT110408	TDA-066	LLT-15
NPDT-36XD2-SPGT11	36	32	44	159	72	99	60			
NPDT-40XD2-SPGT11	40	32	44	167	80	107	60			

BROCAS DE TALADRADO 3XD - PLACA SPGT..

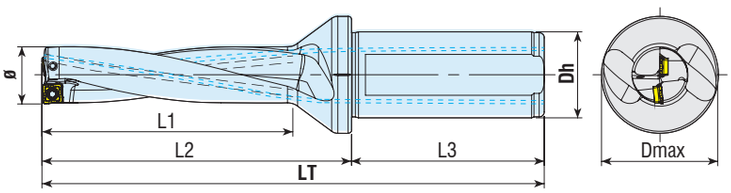




REFERENCIA	ø	DCOM	DCSFMS	OAL	LU	LPR	LS	INSERTO	TORNILLO PLACA	LLAVE
NPDT-12.5XD3-SPGT05	12.5	20	25	108	36	58	50	SPGT050204	TDA-006	LLT-6
NPDT-13XD3-SPGT05	13	20	25	111	39	61	50			
NPDT-13.5XD3-SPGT05	13.5	20	25	111	39	61	50			
NPDT-14XD3-SPGT05	14	20	25	114	42	64	50			
NPDT-14.5XD3-SPGT05	14.5	20	25	114	42	64	50			
NPDT-15XD3-SPGT05	15	20	25	117	45	67	50			
NPDT-15.5XD3-SPGT06	15.5	20	25	117	45	67	50	SPGT060204	TDA-008	LLT-7
NPDT-16XD3-SPGT06	16	25	34	126	48	70	56			
NPDT-16.5XD3-SPGT06	16.5	25	34	126	48	70	56			
NPDT-17XD3-SPGT06	17	25	34	129	51	73	56			
NPDT-17.5XD3-SPGT06	17.5	25	34	129	51	73	56			
NPDT-18XD3-SPGT06	18	25	34	132	54	76	56			
NPDT-18.5XD3-SPGT06	18.5	25	34	132	54	76	56			
NPDT-19XD3-SPGT06	19	25	34	135	57	79	56			
NPDT-19.5XD3-SPGT06	19.5	25	34	135	57	79	56			
NPDT-20XD3-SPGT06	20	25	34	138	60	82	56			
NPDT-20.5XD3-SPGT06	20.5	25	34	138	60	82	56			
NPDT-21XD3-SPGT06	21	25	34	141	63	85	56			
NPDT- 21.5 XD3-SPGT06	21.5	25	34	141	63	85	56			
NPDT-22XD3-SPGT07	22	25	34	144	66	88	56	SPGT07T308	TDA-014	LLT-8
NPDT-22.5XD3-SPGT07	22.5	25	34	144	66	88	56			
NPDT-23XD3-SPGT07	23	25	34	147	69	91	56			
NPDT-23.5XD3-SPGT07	23.5	25	34	147	69	91	56			
NPDT-24XD3-SPGT07	24	25	34	150	72	94	56			
NPDT-24.5XD3-SPGT07	24.5	25	34	150	72	94	56			
NPDT-25XD3-SPGT07	25	25	34	153	75	97	56			
NPDT-25.5XD3-SPGT07	25.5	25	34	153	75	97	56			
NPDT-26XD3-SPGT07	26	25	34	156	78	100	56			
NPDT-26.5XD3-SPGT07	26.5	25	34	156	78	100	56			
NPDT-27XD3-SPGT07	27	25	34	159	81	103	56			
NPDT- 27.5-XD3-SPGT07	27.5	25	34	159	81	103	56			
NPDT-28XD3-SPGT09	28	25	34	162	84	106	56	SPGT090408	TDA-047	LLT-15
NPDT-28.5XD3-SPGT09	28.5	25	34	162	84	106	56			
NPDT-29XD3-SPGT09	29	25	34	165	87	109	56			
NPDT-29.5XD3-SPGT09	29.5	25	34	165	87	109	56			
NPDT-30XD3-SPGT09	30	32	44	177	90	117	60			
NPDT-31XD3-SPGT09	31	32	44	180	93	120	60			
NPDT-32XD3-SPGT09	32	32	44	183	96	123	60			
NPDT-33XD3-SPGT09	33	32	44	186	99	126	60			
NPDT-34XD3-SPGT11	34	32	44	189	102	129	60	SPGT110408	TDA-066	LLT-15
NPDT-35XD3-SPGT11	35	32	44	192	105	132	60			
NPDT-37XD3-SPGT11	37	32	44	198	111	138	60			
NPDT-38XD3-SPGT11	38	32	44	201	114	141	60			
NPDT-39XD3-SPGT11	39	32	44	204	117	144	60			
NPDT-40XD3-SPGT11	40	32	44	207	120	147	60			
NPDT-42XD3-SPGT14	42	32	44	213	126	153	60	SPGT140512	TDA-081	LLT-20
NPDT-43XD3-SPGT14	43	32	44	216	129	156	60			
NPDT-44XD3-SPGT14	44	32	44	219	132	159	60			
NPDT-49XD3-SPGT14	49	40	54	249	147	179	70			
NPDT-50XD3-SPGT14	50	40	54	252	150	182	70			

BROCAS DE TALADRADO 2XD - PLACA SOMT..

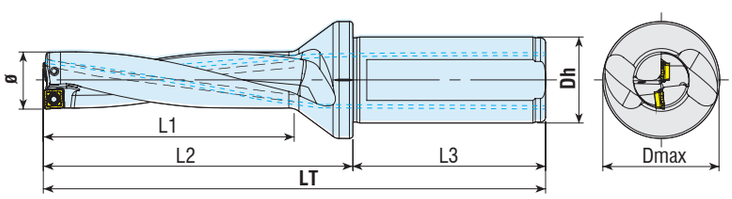




REFERENCIA	ø	DCOM	DCSFMS	OAL	LU	LPR	LS	INSERTO	TORNILLO PLACA	LLAVE
NPDT-14XD2-SOMT	14	20	25	100	28	50	50	SOMT050204	TDA-006	LLT-6
NPDT-16XD2-SOMT	16	25	34	110	32	54	56			
NPDT-17XD2-SOMT	17	25	34	112	34	56	56	SOMT060204	TDA-008	LLT-7
NPDT-18XD2-SOMT	18	25	34	114	36	58	56			
NPDT-20XD2-SOMT	20	25	34	118	40	62	56	SOMT070306	TDA-008	LLT-7
NPDT-22XD2-SOMT	22	25	34	122	44	66	56			
NPDT-23XD2-SOMT	23	25	34	124	46	68	56	SOMT08T306	TDA-014	LLT-8
NPDT-24XD2-SOMT	24	25	34	126	48	70	56			
NPDT-25XD2-SOMT	25	25	34	128	50	72	56			
NPDT-26XD2-SOMT	26	25	34	130	52	74	56			
NPDT-27XD2-SOMT	27	25	34	132	54	76	56	SOMT09T308	TDA-047	LLT-15
NPDT-28XD2-SOMT	28	25	34	134	56	78	56			
NPDT-29XD2-SOMT	29	25	34	136	58	80	56			
NPDT-30XD2-SOMT	30	32	44	147	60	87	60			
NPDT-32XD2-SOMT	32	32	44	151	64	91	60	SOMT11T308	TDA-047	LLT-15
NPDT-33XD2-SOMT	33	32	44	153	66	93	60			
NPDT-34XD2-SOMT	34	32	44	155	68	95	60			
NPDT-35XD2-SOMT	35	32	44	157	70	97	60			
NPDT-37XD2-SOMT	37	32	44	161	74	101	60	SOMT130408	TDA-066	LLT-15
NPDT-38XD2-SOMT	38	32	44	163	76	103	60			
NPDT-40XD2-SOMT	40	32	44	167	80	107	60			
NPDT-45XD2-SOMT	45	40	54	192	90	122	70	SOMT150510	TDA-081	LLT-20
NPDT-47XD2-SOMT	47	40	54	196	94	126	70			

BROCAS DE TALADRADO 3XD - PLACA SOMT.. (ø14 a ø19.5 mm)

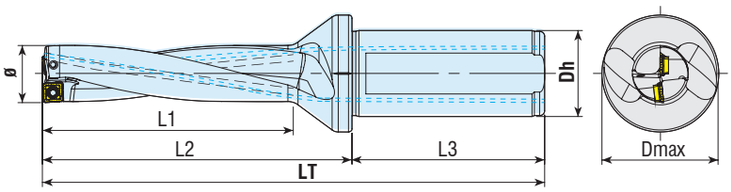




REFERENCIA	ø	DCOM	DCSFMS	OAL	LU	LPR	LS	INSERTO	TORNILLO PLACA	LLAVE
NPDT-14XD3-SOMT05	14	20	25	114	42	64	50	SOMT050204	TDA-006	LLT-6
NPDT-14.5XD3-SOMT05	14.5	20	25	114	42	64	50			
NPDT-15XD3-SOMT05	15	20	25	117	45	67	50			
NPDT-15.5XD3-SOMT05	15.5	20	25	117	45	67	50			
NPDT-16XD3-SOMT05	16	25	34	126	48	70	56			
NPDT-16.5XD3-SOMT06	16.5	25	34	126	48	70	56	SOMT060204	TDA-008	LLT-7
NPDT-17XD3-SOMT06	17	25	34	129	51	73	56			
NPDT-17.5XD3-SOMT06	17.5	25	34	129	51	73	56			
NPDT-18XD3-SOMT06	18	25	34	132	54	76	56			
NPDT-18.5XD3-SOMT06	18.5	25	34	132	54	76	56			
NPDT-19XD3-SOMT06	19	25	34	135	57	79	56			
NPDT-19.5XD3-SOMT07	19.5	25	34	135	57	79	56	SOMT070306	TDA-008	LLT-7

BROCAS DE TALADRADO 3XD - PLACA SOMT.. (ø20 a ø50 mm)





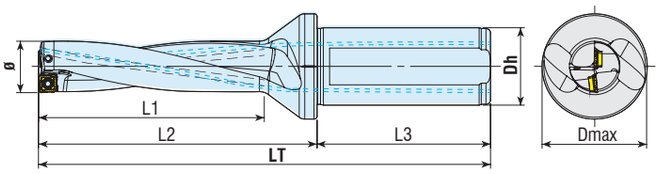
REFERENCIA	ø	DCOM	DCSFMS	OAL	LU	LPR	LS	INSERTO	TORNILLO PLACA	LLAVE
NPDT-20XD3-SOMT07	20	25	34	138	60	82	56	SOMT070306	TDA-008	LLT-7
NPDT-20.5XD3-SOMT07	20.5	25	34	138	60	82	56			
NPDT-21XD3-SOMT07	21	25	34	141	63	85	56			
NPDT-22XD3-SOMT07	22	25	34	144	66	88	56			
NPDT-22.5XD3-SOMT08	22.5	25	34	144	66	88	56	SOMT08T306	TDA-014	LLT-8
NPDT-23XD3-SOMT08	23	25	34	147	69	91	56			
NPDT-23.5XD3-SOMT08	23.5	25	34	147	69	91	56			
NPDT-24XD3-SOMT08	24	25	34	150	72	94	56			
NPDT-24.5XD3-SOMT08	24.5	25	34	150	72	94	56			
NPDT-25XD3-SOMT08	25	25	34	153	75	97	56			
NPDT-26XD3-SOMT08	26	25	34	156	78	100	56			
NPDT-27XD3-SOMT09	27	25	34	159	81	103	56	SOMT09T308	TDA-047	LLT-15
NPDT-27.5XD3-SOMT09	27.5	25	34	159	81	103	56			
NPDT-28XD3-SOMT09	28	25	34	162	84	106	56			
NPDT-29XD3-SOMT09	29	25	34	165	87	109	56			
NPDT-30XD3-SOMT09	30	32	44	177	90	117	60			
NPDT-32XD3-SOMT11	32	32	44	183	96	123	60	SOMT11T308	TDA-047	LLT-15
NPDT-33XD3-SOMT11	33	32	44	186	99	126	60			
NPDT-34XD3-SOMT11	34	32	44	189	102	129	60			
NPDT-35XD3-SOMT11	35	32	44	192	105	132	60			
NPDT-36XD3-SOMT11	36	32	44	195	108	135	60			
NPDT-37XD3-SOMT13	37	32	44	198	111	138	60	SOMT130408	TDA-066	LLT-15
NPDT-38XD3-SOMT13	38	32	44	201	114	141	60			
NPDT-39XD3-SOMT13	39	32	44	204	117	144	60			
NPDT-40XD3-SOMT13	40	32	44	207	120	147	60			
NPDT-45XD3-SOMT15	45	40	54	237	135	167	70	SOMT150510	TDA-081	LLT-20
NPDT-49XD3-SOMT15	49	40	54	249	147	179	70			
NPDT-50XD3-SOMT15	50	40	54	252	150	182	70			

BROCAS DE TALADRADO 5XD - PLACA SOMT.. (ø14 a ø19.5 mm)

REFERENCIA	ø	DCOM	DCS-FMS	OAL	LU	LPR	LS	INSERTO	TORNILLO PLACA	LLAVE
NPDT-14XD5-SOMT05	14	20	25	142	70	92	50	SOMT050204	TDA-006	LLT-8
NPDT-15XD5-SOMT05	15	20	25	147	75	97	50			
NPDT-15.5XD5-SOMT05	15.5	20	25	147	75	97	50			
NPDT-16XD5-SOMT05	16	25	34	158	80	102	56			
NPDT-16.5XD5-SOMT06	16.5	25	34	158	80	102	56	SOMT060204	TDA-008	LLT-7
NPDT-17.5XD5-SOMT06	17.5	25	34	163	85	107	56			
NPDT-18XD5-SOMT06	18	25	34	168	90	112	56			
NPDT-18.5XD5-SOMT06	18.5	25	34	168	90	112	56			
NPDT-19XD5-SOMT06	19	25	34	173	95	117	56			
NPDT-19.5XD5-SOMT07	19.5	25	34	173	95	117	56	SOMT070306	TDA-008	LLT-7
NPDT-20XD5-SOMT07	20	25	34	178	100	122	56			
NPDT-21XD5-SOMT07	21	25	34	183	105	127	56			
NPDT-22XD5-SOMT07	22	25	34	188	110	132	56			
NPDT-23XD5-SOMT08	23	25	34	193	115	137	56	SOMT08T306	TDA-014	LLT-8
NPDT-24XD5-SOMT08	24	25	34	198	120	142	56	SOMT08T306	TDA-014	LLT-8
NPDT-25XD5-SOMT08	25	25	34	203	125	147	56			
NPDT-26XD5-SOMT08	26	25	34	208	130	152	56			
NPDT-27XD5-SOMT09	27	25	34	213	135	157	56	SOMT09T308	TDA-047	LLT-15
NPDT-28XD5-SOMT09	28	25	34	218	140	162	56			
NPDT-29XD5-SOMT09	29	25	34	223	145	167	56			

BROCAS DE TALADRADO 5XD - PLACA SOMT.. (ø20 a ø36 mm)

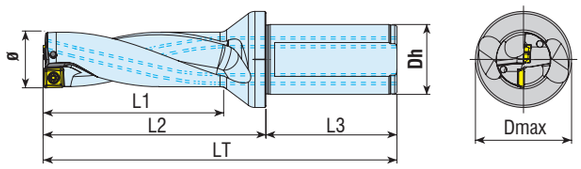




REFERENCIA	ø	DCOM	DCSFMS	OAL	LU	LPR	LS	INSERTO	TORNILLO PLACA	LLAVE
NPDT-30XD5-SOMT09	30	32	44	237	150	177	60	SOMT09T308	TDA-047	LLT-15
NPDT-33XD5-SOMT11	33	32	44	252	165	192	60	SOMT11T308	TDA-047	LLT-15
NPDT-34XD5-SOMT11	34	32	44	257	170	197	60			
NPDT-35XD5-SOMT11	35	32	44	262	175	202	60			
NPDT-36XD5-SOMT11	36	32	44	267	180	207	60			

BROCAS DE TALADRADO 3XD - PLACA 880..





REFERENCIA	ø	DCOM	DCSFMS	OAL	LU	LPR	LS	INSERTO	TORNILLO PLACA	LLAVE
NPDT-14XD3-880	14	20	25	108	42	58	50	880-02	TDA-006	LLT-6
NPDT-14.5XD3-880	14.5	20	25	110	46	60	50			
NPDT-15XD3-880	15	20	25	112	48	62	50			
NPDT-15.5XD3-880	15.5	20	25	114	50	64	50			
NPDT-16XD3-880	16	20	25	116	51	66	50			
NPDT-16.5XD3-880	16.5	20	25	118	53	68	50	880-03	TDA-008	LLT-7
NPDT-17XD3-880	17	20	25	119	54	69	50			
NPDT-17.5XD3-880	17.5	25	32	128	56	72	56			
NPDT-18XD3-880	18	25	32	129	57	73	56			
NPDT-18.5XD3-880	18.5	25	32	131	59	75	56			
NPDT-19XD3-880	19	25	32	132	60	76	56			
NPDT-19.5XD3-880	19.5	25	32	135	62	79	56			
NPDT-20XD3-880	20	25	32	137	64	81	56	880-04	TDA-014	LLT-8
NPDT-20.5XD3-880	20.5	25	32	138	65	82	56			
NPDT-21XD3-880	21	25	32	140	66	84	56			
NPDT-21.5XD3-880	21.5	25	32	142	68	86	56			
NPDT-22XD3-880	22	25	32	143	69	87	56			
NPDT-22.5XD3-880	22.5	25	32	146	71	90	56			
NPDT-23XD3-880	23	25	32	147	72	91	56			
NPDT-24XD3-880	24	25	32	151	76	95	56	880-05	TDA-032	LLT-10
NPDT-25XD3-880	25	25	32	155	79	99	56			
NPDT-26XD3-880	26	32	44	162	81	102	60			
NPDT-27XD3-880	27	32	44	165	84	105	60			
NPDT-28XD3-880	28	32	44	169	87	109	60			
NPDT-29XD3-880	29	32	44	172	90	112	60			
NPDT-30XD3-880	30	32	44	177	94	117	60	880-06	TDA-044	LLT-10
NPDT-31XD3-880	31	40	54	191	97	121	70			
NPDT-32XD3-880	32	40	54	194	100	124	70			
NPDT-33XD3-880	33	40	54	198	103	128	70			
NPDT-34XD3-880	34	40	54	201	106	131	70			
NPDT-35XD3-880	35	40	54	205	109	135	70			
NPDT-36XD3-880	36	40	54	209	112	139	70	880-07	TDA-044	LLT-10
NPDT-38XD3-880	38	40	54	216	118	146	70			
NPDT-39XD3-880	39	40	54	219	121	149	70			
NPDT-40XD3-880	40	40	54	223	124	153	70			
NPDT-41XD3-880	41	40	54	227	127	157	70			
NPDT-42XD3-880	42	40	54	230	130	160	70			
NPDT-45XD3-880	45	40	54	242	140	172	70	880-08	TDA-066	LLT-15
NPDT-46XD3-880	46	40	54	246	143	176	70			
NPDT-48XD3-880	48	40	54	253	149	183	70			
NPDT-50XD3-880	50	40	54	260	155	190	70			

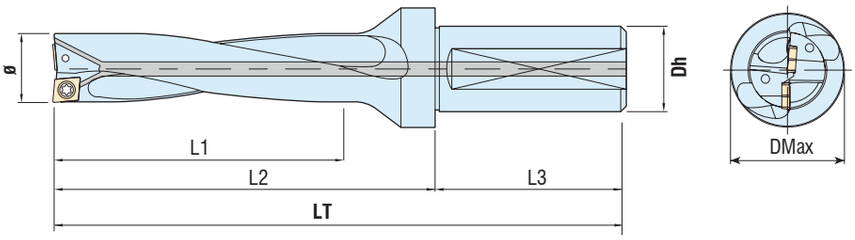
ADAPTADOR CUERPO DE TALADRADO

REFERENCIA	DCOM	DB	LF
CAT-2025	20	25	44
CAT-2532	25	32	46
CAT-3240	32	40	55



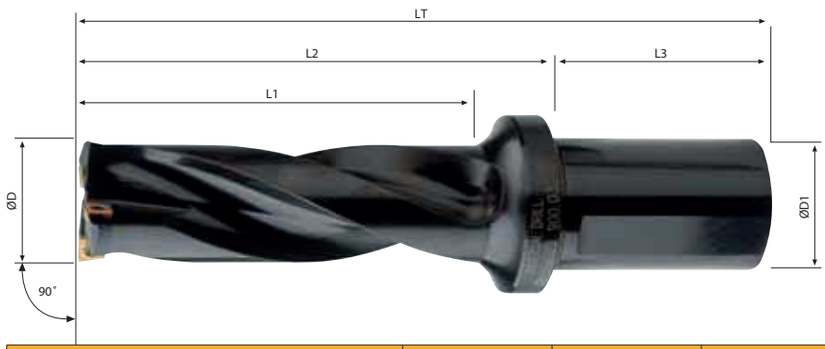
BROCAS DE TALADRADO 3XD - PLACA WD..

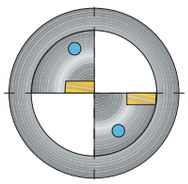




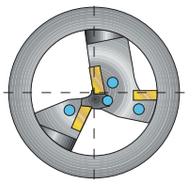
REFERENCIA	ø	Dh	L1	L2	L3	LT	Dmax	INSERTO	TORNILLO PLACA	LLAVE
NPDT-13XD3-WD04	13	25	39	63	56	119	33	WD..04..	TDA-201	LLT-6
NPDT-14XD3-WD04	14	25	42	66	56	122	33			
NPDT-15XD3-WD04	15	25	45	69	56	125	33			
NPDT-16XD3-WD05	16	25	48	72	56	128	33	WD..05..	TDA-007	LLT-6
NPDT-17XD3-WD05	17	25	51	75	56	131	33			
NPDT-18XD3-WD05	18	25	54	78	56	134	35			
NPDT-18XD3-WD06	19	25	57	81	56	137	35	WD..06..	TDA-010	LLT-7
NPDT-20XD3-WD06	20	25	60	84	56	140	35			
NPDT-21XD3-WD06	21	25	63	87	56	143	35			
NPDT-22XD3-WD06	22	25	66	90	56	146	35			
NPDT-23XD3-WD07	23	25	69	93	56	149	35	WD..07..	TDA-014	LLT-8
NPDT-24XD3-WD07	24	25	72	96	56	152	35			
NPDT-25XD3-WD07	25	25	75	99	56	155	35			
NPDT-26XD3-WD07	26	32	78	107	60	167	43			
NPDT-27XD3-WD07	27	32	81	110	60	170	43			
NPDT-28XD3-WD07	28	32	84	113	60	173	43			
NPDT-29XD3-WD09	29	32	87	116	60	176	43	WD..09..	TDA-047	LLT-15
NPDT-30XD3-WD09	30	32	90	119	60	179	43			
NPDT-31XD3-WD09	31	32	93	122	60	182	43			
NPDT-32XD3-WD09	32	32	96	125	60	185	43			
NPDT-33XD3-WD09	33	32	99	128	60	188	43			
NPDT-34XD3-WD09	34	32	102	131	60	191	43			
NPDT-35XD3-WD09	35	32	105	134	60	194	43			
NPDT-36XD3-WD09	36	32	108	137	60	197	43			
NPDT-37XD3-WD12	37	32	111	140	60	200	43	WD..12..	TDA-081	LLT-20
NPDT-38XD3-WD12	38	32	114	143	60	203	43			
NPDT-39XD3-WD12	39	32	117	146	60	206	43			

Broca de Taladrado - Placa CCMT0602..





Modelo: Z-2



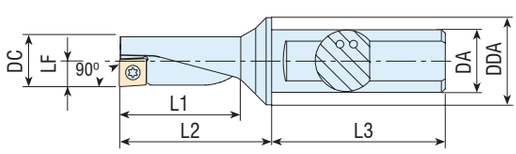
Modelo: Z-3

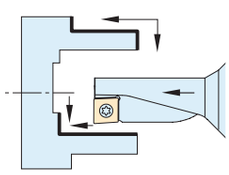
- Para Placa ISO - CCMT060204
- Tornillo Recambio Placa: TDA-099
- Llave Apriete: LLT-8

Referencia	øD	øD1	L1	L2	L3	LT	Z
NPDT-3XD-17CC	17	20	51	70	45	115	2
NPDT-3XD-18CC	18	20	54	73	45	118	2
NPDT-3XD-19CC	19	20	57	76	45	121	2
NPDT-3XD-20CC	20	20	60	79	45	124	2
NPDT-3XD-21CC	21	25	63	85	54	139	2
NPDT-3XD-22CC	22	25	66	88	54	142	2
NPDT-3XD-23CC	23	25	69	91	54	145	2
NPDT-3XD-24CC	24	25	72	94	54	148	2
NPDT-3XD-25CC	25	25	75	97	54	151	2
NPDT-3XD-26CC	26	25	78	100	54	154	3
NPDT-3XD-27CC	27	25	84	103	54	157	3
NPDT-3XD-28CC	28	25	84	106	54	160	3
NPDT-3XD-29CC	29	25	87	109	54	163	3
NPDT-3XD-30CC	30	32	90	110	54	164	3
NPDT-3XD-31CC	31	32	93	113	54	167	3
NPDT-3XD-32CC	32	32	96	116	54	170	3
NPDT-3XD-33CC	33	32	99	119	54	173	3
NPDT-3XD-34CC	34	32	102	122	54	176	3
NPDT-3XD-35CC	35	32	105	125	54	179	3

Broca de Taladrado y Torneado Interior/Frontal/Exterior - Placa XC..



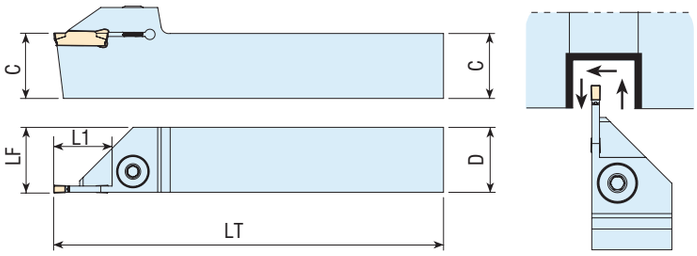




Referencia	DC	DCON	DDA	L1	L2	L3	LF
NPDTT-R/L8-XC04	8	10	12	18	22	38	4
NPDTT-R/L10-XC05	10	12	16	22.5	27.5	42	5
NPDTT-R/L12-XC06	12	16	20	27	33	45	6
NPDTT-R/L14-XC07	14	16	20	31.5	38	45	7
NPDTT-R/L16-XC08	16	20	25	36	44	50	8
NPDTT-R/L18-XC09	18	25	32	40.5	53.5	56	9
NPDTT-R/L20-XC10	20	25	32	45	55	56	10
NPDTT-R/L25-XC13	25	32	40	56.5	69	60	12.5
NPDTT-R/L32-XC17	32	32	50	72	88	60	16

Porta de Ranurado Exterior - Placa MGM..

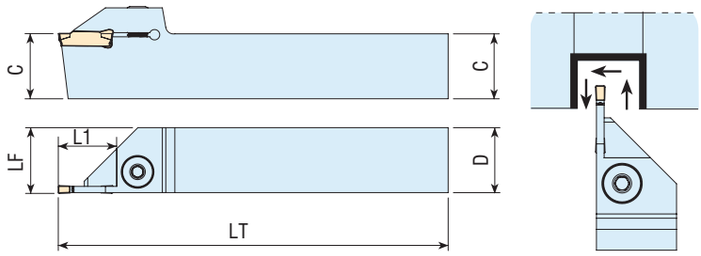




REFERENCIA	C	D	LT	LF	L1	INSERTO	TORNILLO	ARANDELA	LLAVE
NPDRA-MGM-R/L 1616-2-L10	16	16	125	16.3	10	MGM..2	TAB-003	MDP-009	LLA-3
NPDRA-MGM-R/L 1616-2-L15	16	16	125	16.3	15				
NPDRA-MGM-R/L 2020-2-L15	20	20	150	20.3	15				
NPDRA-MGM-R/L 2525-2-L15	25	25	150	25.3	15				
NPDRA-MGM-R/L 3232-2-L15	32	32	170	32.3	15				
NPDRA-MGM-R/L 1212-3-L15	12	12	100	12.3	15	MGM..3	TPA-019	-	LLA-4
NPDRA-MGM-R/L 1616-3-L15	16	16	125	16.3	15				
NPDRA-MGM-R/L 2020-3-L10	20	20	125	20.3	10				
NPDRA-MGM-R/L 2020-3-L20	20	20	125	20.3	20				
NPDRA-MGM-R/L 2020-3-L28	20	20	125	20.3	28				
NPDRA-MGM-R/L 2525-3-L10	25	25	150	25.3	10				
NPDRA-MGM-R/L 2525-3-L15	25	25	150	25.3	15				
NPDRA-MGM-R/L 2525-3-T22	25	25	150	25.3	22				
NPDRA-MGM-R/L 3232-3-L10	32	32	170	32.3	10				
NPDRA-MGM-R/L 3232-3-L22	32	32	170	32.3	22				
NPDRA-MGM-R/L 2020-4-L10	20	20	125	20.4	10	MGM..4	TPA-019	-	LLA-4
NPDRA-MGM-R/L 2020-4-L20	20	20	125	20.4	20				
NPDRA-MGM-R/L 2020-4-L25	20	20	125	20.4	25				
NPDRA-MGM-R/L 2525-4-L10	25	25	150	25.4	10				
NPDRA-MGM-R/L 2525-4-L18	25	25	150	25.4	18				
NPDRA-MGM-R/L 2525-4-L22	25	25	150	25.4	22				
NPDRA-MGM-R/L 3232-4-L10	32	32	170	32.4	10				
NPDRA-MGM-R/L 3232-4-L22	32	32	170	32.4	22				
NPDRA-MGM-R/L 2020-5-L20	20	20	125	20.5	20	MGM..5	TPA-019	-	LLA-4
NPDRA-MGM-R/L 2525-5-L15	25	25	150	25.5	15				
NPDRA-MGM-R/L 2525-5-L18	25	25	150	25.5	18				
NPDRA-MGM-R/L 2525-5-L25	25	25	150	25.5	25				
NPDRA-MGM-R/L 3232-5-L15	32	32	170	32.5	15				
NPDRA-MGM-R/L 3232-5-L25	32	32	170	32.5	25				
NPDRA-MGM-R/L 2525-6-L15	25	25	150	25.6	15	MGM..6	TPA-019	-	LLA-4
NPDRA-MGM-R/L 2525-6-L25	25	25	150	25.6	25				
NPDRA-MGM-R/L 3232-6-L25	32	32	170	32.6	25				

Porta de Ranurado Exterior - Placa KG..

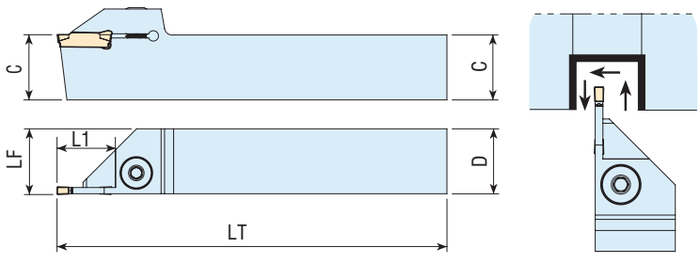




REFERENCIA	C	D	LT	LF	L1	INSERTO	TORNILLO	ARANDELA	LLAVE
NPDR-KGR/L 2020-2-L15	20	20	125	20.2	15	KG..2	TAB-003	MDP-009	LLA-3
NPDR-KGR/L 2525-2-L8	25	25	150	25.2	8				
NPDR-KGR/L 2525-2-L15	25	25	150	25.2	15				
NPDR-KGR/L 2525-2-L17	25	25	150	25.2	17				
NPDR-KGR/L 1616-3-L20	16	16	125	16.3	20	KG..3	TPA-019	-	LLA-4
NPDR-KGR/L 2020-3-L20	20	20	125	20.3	20				
NPDR-KGR/L 2525-3-L10	25	25	150	25.3	10				
NPDR-KGR/L 2525-3-L13	25	25	150	25.3	13				
NPDR-KGR/L 2525-3-L22	25	25	150	25.3	22				
NPDR-KGR/L 2020-4-L20	20	20	125	20.4	20	KG..4	TPA-019	-	LLA-4
NPDR-KGR/L 2525-4-L10	25	25	150	25.4	10				
NPDR-KGR/L 2525-4-L16	25	25	150	25.4	16				
NPDR-KGR/L 2525-4-L22	25	25	150	25.4	22				
NPDR-KGR/L 2525-5-L12	25	25	150	25.5	12	KG..5	TPA-019	-	LLA-4
NPDR-KGR/L 2525-5-L15	25	25	150	25.5	15				
NPDR-KGR/L 2525-5-L25	25	25	150	25.5	25				
NPDR-KGR/L 2525-6-L25	25	25	150	25.6	25	KG..6	TPA-019	-	LLA-4

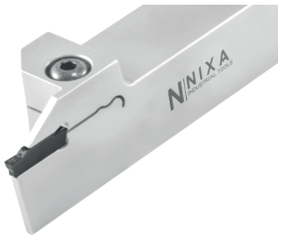
Porta de Ranurado Exterior - Placa GCM..

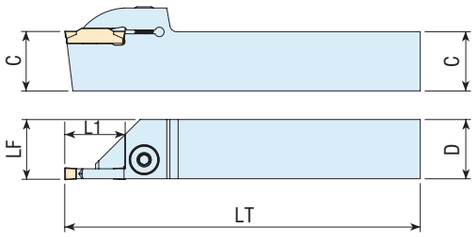


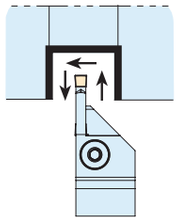


REFERENCIA	C	D	LT	LF	L1	INSERTO	TORNILLO	ARANDELA	LLAVE
NPDR-GCM-R/L 1616-2-L15	16	16	125	16.2	15	GCM-N20	TAB-003	MDP-009	LLA-3
NPDR-GCM-R/L 2020-2-L20	20	20	125	20.2	20				
NPDR-GCM-R/L 2525-2-L20	25	25	150	25.2	20				
NPDR-GCM-R/L 1616-3-L15	16	16	125	16.3	15	GCM-N30	TPA-019	-	LLA-4
NPDR-GCM-R/L 2020-3-L22	20	20	125	20.3	22				
NPDR-GCM-R/L 2525-3-L15	25	25	150	25.3	15				
NPDR-GCM-R/L 2525-3-L22	25	25	150	25.3	22				
NPDR-GCM-R/L 2525-4-L25	25	25	150	25.4	25	GCM-N40	TPA-019	-	LLA-4

Porta de Ranurado Exterior - Placa OKE Z..D



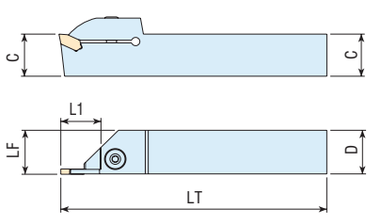


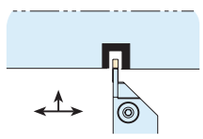


REFERENCIA	C	D	LT	LF	L1	INSERTO	TORNILLO	ARANDELA	LLAVE
NPDR-OK-R/L 1616-2-L15	16	16	125	16.2	15	Z.DB-2	TAB-003	MDP-009	LLA-3
NPDR-OK-R/L 2020-2-L7	20	20	125	20.2	7				
NPDR-OK-R/L 2020-2-L15	20	20	125	20.2	15				
NPDR-OK-R/L 2525-2-L15	25	25	150	25.2	15				
NPDR-OK-R/L 1616-2.5-L15	16	16	125	16.3	15	Z.ED-2.5	TPA-019	-	LLA-4
NPDR-OK-R/L 2020-2.5-L17	20	20	125	20.3	17				
NPDR-OK-R/L 2525-2.5-L15	25	25	150	25.3	15				
NPDR-OK-R/L 1616-3-L15	16	16	125	16.3	15	Z.FD-3	TPA-019	-	LLA-4
NPDR-OK-R/L 1616-3-L17	16	16	125	16.3	17				
NPDR-OK-R/L 1616-3-L20	16	16	125	16.3	20				
NPDR-OK-R/L 2020-3-L12	20	20	125	20.3	12				
NPDR-OK-R/L 2020-3-L20	20	20	125	20.3	20				
NPDR-OK-R/L 2020-3-L21	20	20	125	20.3	21				
NPDR-OK-R/L 2020-3-L25	20	20	125	20.3	25				
NPDR-OK-R/L 2525-3-L12	25	25	150	25.3	12				
NPDR-OK-R/L 2525-3-L22	25	25	150	25.3	22				
NPDR-OK-R/L 2525-3-L30	25	25	150	25.3	30				
NPDR-OK-R/L 2020-4-L12	20	20	125	20.5	12	Z.GD-4	TPA-019	-	LLA-4
NPDR-OK-R/L 2020-4-L20	20	20	125	20.5	20				
NPDR-OK-R/L 2525-4-L12	25	25	150	25.5	12				
NPDR-OK-R/L 2525-4-L22	25	25	150	25.5	22				
NPDR-OK-R/L 2020-5-L12	20	20	125	20.5	12	Z.HD-5	TPA-019	-	LLA-4
NPDR-OK-R/L 2020-5-L20	20	20	125	20.5	20				
NPDR-OK-R/L 2525-5-L12	25	25	150	25.5	12				
NPDR-OK-R/L 2525-5-L25	25	25	150	25.5	25				
NPDR-OK-R/L 3232-5-L25	32	32	170	32.5	25				
NPDR-OK-R/L 2020-6-L20	20	20	125	20.6	20	Z.KD-6	TPA-019	-	LLA-4
NPDR-OK-R/L 2525-6-L25	25	25	150	25.6	25				
NPDR-OK-R/L 3232-6-L25	32	32	170	32.6	25				
NPDR-OK-R/L 3232-6-L30	32	32	170	32.6	30				

Porta de Ranurado Exterior - Placa ZQMX..



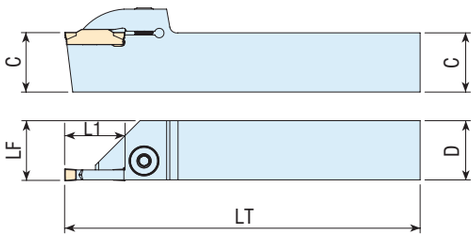


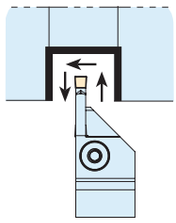


REFERENCIA	C	D	LT	LF	L1	INSERTO	TORNILLO	ARANDELA	LLAVE
NPDR-ZQMX-R/L 2020-3-L20	20	20	125	20.3	20	ZQMX-3	TPA-019	-	LLA-4
NPDR-ZQMX-R/L 2525-3-L22	25	25	150	25.3	22				
NPDR-ZQMX-R/L 2020-4-L20	20	20	125	20.4	20	ZQMX-4	TPA-019	-	LLA-4
NPDR-ZQMX-R/L 2525-4-L22	25	25	150	25.4	22				

Porta de Ranurado Exterior - Placa TGM..



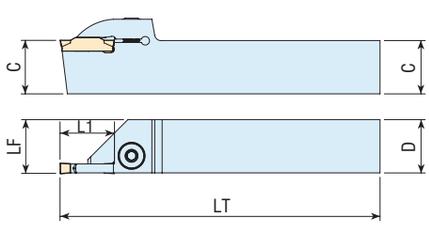


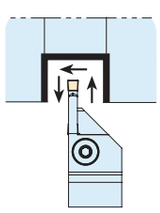


REFERENCIA	C	D	LT	LF	L1	INSERTO	TORNILLO	ARANDELA	LLAVE
NPDR-TGM-R/L 2020-3-L8	20	20	125	20.3	8	TGM..-3	TPA-019	-	LLA-4
NPDR-TGM-R/L 2525-3-L8	25	25	150	25.3	8				
NPDR-TGM-R/L 3232-3-L8	32	32	170	32.3	8				
NPDR-TGM-R/L 2020-4-L9	20	20	125	20.4	9	TGM..-4	TPA-019	-	LLA-4
NPDR-TGM-R/L 2525-4-L17	25	25	150	25.4	17				
NPDR-TGM-R/L 3232-4-L17	32	32	170	32.4	17				
NPDR-TGM-R/L 3232-5-L25	32	32	170	32.5	25	TGM..-5	TPA-019	-	LLA-4

Porta de Ranurado Exterior - Placa DGN..



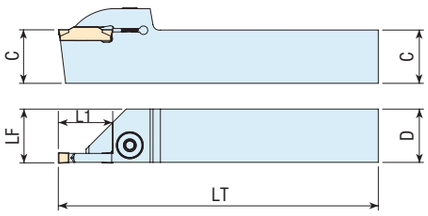


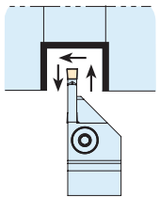


REFERENCIA	C	D	LT	LF	L1	INSERTO	TORNILLO	ARANDELA	LLAVEV
NPDR-DGN-R/L 1212-2-L15	12	12	125	16.3	15	DGN-2	TAB-003	MDP-009	LLA-3
NPDR-DGN-R/L 1616-2-L15	16	16	100	16.3	15				
NPDR-DGN-R/L 2020-2-L15	20	20	125	20.3	15				
NPDR-DGN-R/L 2525-2-L15	25	25	150	25.3	15				
NPDR-DGN-R/L 3232-2-L15	32	32	170	32.3	15				
NPDR-DGN-R/L 1212-3-L15	12	12	100	16.3	15	DGN-3	TPA-019	-	LLA-4
NPDR-DGN-R/L 1616-3-L15	16	16	125	16.3	15				
NPDR-DGN-R/L 2020-3-L12	20	20	125	20.3	12				
NPDR-DGN-R/L 2020-3-L20	20	20	125	20.3	20				
NPDR-DGN-R/L 2525-3-L12	25	25	150	25.3	12				
NPDR-DGN-R/L 2522-3-L22	25	25	150	25.3	22				
NPDR-DGN-R/L 3232-3-L22	32	32	170	32.3	22				
NPDR-DGN-R/L 2020-4-L20	20	20	125	20.4	20	DGN-4|GRP-4	TPA-019	-	LLA-4
NPDR-DGN-R/L 2525-4-L12	25	25	150	25.4	12				
NPDR-DGN-R/L 2525-4-L22	25	25	150	25.4	22				
NPDR-DGN-R/L 3232-4-L25	32	32	170	32.4	25				
NPDR-DGN-R/L 2020-5-L20	20	20	125	20.5	20	DGN-5|GRP-5	TPA-019	-	LLA-4
NPDR-DGN-R/L 2525-5-L12	25	25	150	25.5	12				
NPDR-DGN-R/L 2525-5-L25	25	25	150	25.5	25				

Porta de Ranurado Exterior - Placa GRP-3..



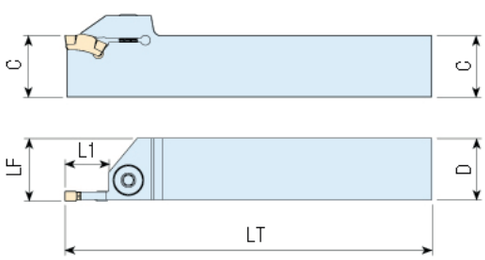


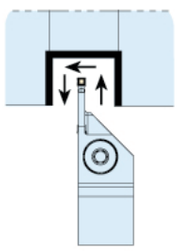


REFERENCIA	C	D	LT	LF	L1	INSERTO	TORNILLO	ARANDELA	LLAVE
NPDR-GRP-R/L 1616-3-L18	16	16	125	16.3	18	GRP-3	TAB-003	MDP-009	LLA-3
NPDR-GRP-R/L 2020-3-L12	20	20	125	20.3	12				
NPDR-GRP-R/L 2020-3-L20	20	20	125	20.3	20				
NPDR-GRP-R/L 2525-3-L12	25	25	150	25.3	12				
NPDR-GRP-R/L 2525-3-L22	25	25	150	25.3	22				

Porta de Ranurado Exterior - Placa GIM./GIP.



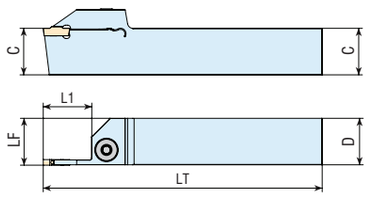


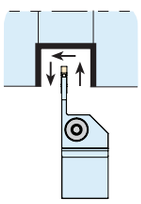


REFERENCIA	C	D	LT	LF	L1	INSERTO	TORNILLO	ARANDELA	LLAVE
NPDR-GIM-R/L 2020-2-L15	20	20	125	16.3	15	GIM/GIP 2	TAB-003	MDP-009	LLA-3
NPDR-GIM-R/L 2525-2-L15	25	25	150	20.3	15				
NPDR-GIM-R/L 1616-3-L15	16	16	125	16.3	15	GIM/GIP 3	TPA-019	-	LLA-4
NPDR-GIM-R/L 2020-3-L20	20	20	125	20.3	20				
NPDR-GIM-R/L 2525-3-L9	25	25	150	25.3	9				
NPDR-GIM-R/L 2525-3-L22	25	25	150	25.3	22				
NPDR-GIM-R/L 2525-4-L22	25	25	150	25.4	22	GIM/GIP 4	TPA-019	-	LLA-4
NPDR-GIM-R/L 2525-5-L25	25	25	150	25.5	25	GIM/GIP 5	TPA-019	-	LLA-4

Porta de Ranurado Exterior - Placa RD..



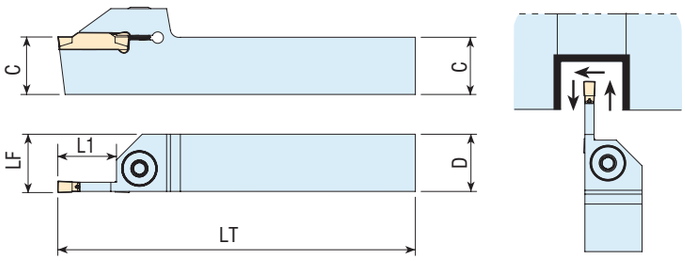




REFERENCIA	C	D	LT	LF	L1	INSERTO	TORNILLO	ARANDELA	LLAVE
NPDR-RD-R/L 1616-2-L17	16	16	125	16.2	17	RD..-2	TAB-003	MDP-009	LLA-3
NPDR-RD-R/L 2020-2-L17	20	20	125	20.2	17				
NPDR-RD-R/L 2525-2-L17	25	25	150	25.2	17				
NPDR-RD-R/L 1616-3-L20	16	16	125	16.3	20	RD..-3	TPA-019	-	LLA-4
NPDR-RD-R/L 2020-3-L25	20	20	125	20.3	25				
NPDR-RD-R/L 2525-3-L25	25	25	150	25.3	25				
NPDR-RD-R/L 2020-4-L30	20	20	125	20.5	30	RD..-4	TPA-019	-	LLA-4
NPDR-RD-R/L 2525-4-L30	25	25	150	25.5	30				

Porta de Ranurado Exterior - Placa 123..

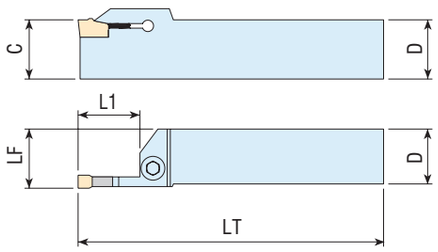


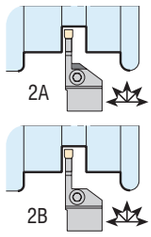


REFERENCIA	C	D	LT	LF	L1	INSERTO	TORNILLO	ARANDELA	LLAVE
NPDR-123-R/L 1212-1.5-L15	12	12	100	12.2	15	123-1.5	TAB-003	MDP-009	LLA-3
NPDR-123-R/L 1616-1.5-L15	16	16	125	16.2	15				
NPDR-123-R/L 1616-2-L15	16	16	125	16.2	15	123-2	TAB-003	MDP-009	LLA-3
NPDR-123-R/L 2020-2-L8	20	20	125	20.2	8				
NPDR-123-R/L 2020-2-L15	20	20	125	20.2	15				
NPDR-123-R/L 2525-2-L8	25	25	150	25.2	8				
NPDR-123-R/L 2525-2-L15	25	25	150	25.2	15				
NPDR-123-R/L 3232-2-L15	32	32	170	32.2	15				
NPDR-123-R/L 1616-3-L10	16	16	125	16.3	15	123-3	TPA-019	-	LLA-4
NPDR-123-R/L 1616-3-L15	16	16	125	16.3	15				
NPDR-123-R/L 2020-3-L10	20	20	125	20.3	10				
NPDR-123-R/L 2020-3-L15	20	20	125	20.3	15				
NPDR-123-R/L 2020-3-L20	20	20	125	20.3	20				
NPDR-123-R/L 2525-3-L10	25	25	150	25.3	10				
NPDR-123-R/L 2525-3-L15	25	25	150	25.3	15				
NPDR-123-R/L 2525-3-L22	25	25	150	25.3	22				
NPDR-123-R/L 2020-4-L20	20	20	125	20.4	20	123-4	TPA-019	-	LLA-4
NPDR-123-R/L 2525-4-L13	25	25	150	25.4	13				
NPDR-123-R/L 2525-4-L22	25	25	150	25.4	22				
NPDR-123-R/L 3232-4-L25	32	32	170	32.4	25				
NPDR-123-R/L 2020-5-L20	20	20	125	20.5	20	123-5	TPA-019	-	LLA-4
NPDR-123-R/L 2525-5-L25	25	25	150	25.5	25				
NPDR-123-R/L 3232-6-L15	32	32	170	32.5	15	123-6	TPA-019	-	LLA-4

Porta de Ranurado Exterior - Placa 151..



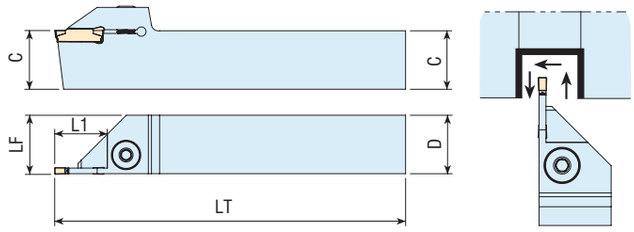




REFERENCIA	C	D	LT	LF	L1	INSERTO	TORNILLO	ARANDELA	LLAVE
NPDR-151-2A-R/L 1616-2-L15	16	16	125	16.3	15	151.2-2	TAB-003	MDP-009	LLA-3
NPDR-151-2A-R/L 2020-2-L15	20	20	125	20.3	15				
NPDR-151-2A-R/L 2525-2-L15	25	25	150	25.3	15				
NPDR-151-2A-R/L 1616-3-L15	16	16	125	16.4	15	151.2-3	TPA-019	-	LLA-4
NPDR-151-2A-R/L 2020-3-L20	20	20	125	20.4	20				
NPDR-151-2A-R/L 2525-3-L20	25	25	150	25.4	22				
NPDR-151-2A-R/L 1616-4-L15	16	16	125	16.4	15	151.2-4	TPA-019	-	LLA-4
NPDR-151-2A-R/L 2020-4-L20	20	20	125	20.4	20				
NPDR-151-2A-R/L 2525-4-L22	25	25	150	25.4	22				
NPDR-151-2A-R/L 2020-5-L20	20	20	125	20.5	20	151-2-5	TPA-019	-	LLA-4
NPDR-151-2A-R/L 2525-5-L25	25	25	150	25.5	25				
NPDR-151-2B-R/L 1616-2-L15	16	16	125	16.3	15	151.2-2	TAB-003	MDP-009	LLA-3
NPDR-151-2B-R/L 2020-2-L15	20	20	125	20.3	15				
NPDR-151-2B-R/L 2525-2-L15	25	25	150	25.3	15				
NPDR-151-2B-R/L 1616-2.5-L15	16	16	125	16.3	15	151-2-2.5	TPA-019	-	LLA-4
NPDR-151-2B-R/L 2020-2.5-L15	20	20	125	20.3	15				
NPDR-151-2B-R/L 2525-2.5-L15	25	25	150	25.3	15				
NPDR-151-2B-R/L 1212-3-L15	12	12	100	16.4	15	151-2-3	TPA-019	-	LLA-4
NPDR-151-2B-R/L 1616-3-L15	16	16	125	16.4	15				
NPDR-151-2B-R/L 2020-3-L20	20	20	125	20.4	20				
NPDR-151-2B-R/L 2525-3-L20	25	25	150	25.4	20				
NPDR-151-2B-R/L 2525-3-L22	25	25	150	25.4	22				
NPDR-151-2B-R/L 1616-4-L15	16	16	125	16.4	15	151-2-4	TPA-019	-	LLA-4
NPDR-151-2B-R/L 2020-4-L20	20	20	125	20.4	20				
NPDR-151-2B-R/L 2525-4-L22	25	25	150	25.4	22				
NPDR-151-2B-R/L 2020-5-L20	20	20	125	20.5	20	151-2-5	TPA-019	-	LLA-4
NPDR-151-2B-R/L 2525-5-L15	25	25	150	25.5	25				

Porta de Ranurado Exterior - Placa TD..

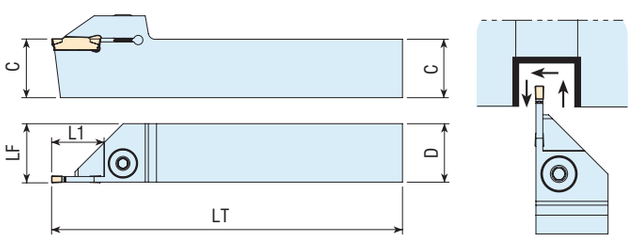




REFERENCIA	C	D	LT	LF	L1	INSERTO	TORNILLO	ARANDELA	LLAVE
NPDR-TD-R/L 1212-2-L15	12	12	100	12.2	15	TD..-2	TAB-003	MDP-009	LLA-3
NPDR-TD-R/L 1616-2-L8	16	16	125	16.2	8				
NPDR-TD-R/L 1616-2-L15	16	16	125	16.2	15				
NPDR-TD-R/L 2020-2-L9	20	20	125	20.2	9				
NPDR-TD-R/L 2020-2-L15	20	20	125	20.2	15				
NPDR-TD-R/L 2020-2-L17	20	20	125	20.2	17				
NPDR-TD-R/L 2020-2-L20	20	20	125	20.2	20				
NPDR-TD-R/L 2525-2-L8	25	25	150	25.2	8				
NPDR-TD-R/L 2525-2-L17	25	25	150	25.2	17				
NPDR-TD-R/L 1212-3-L15	12	12	100	12.4	15	TD..-3	TPA-019	-	LLA-4
NPDR-TD-R/L 1616-3-L15	16	16	125	16.4	15				
NPDR-TD-R/L 2020-3-L12	20	20	125	20.4	12				
NPDR-TD-R/L 2020-3-L20	20	20	125	20.4	20				
NPDR-TD-R/L 2020-3-L25	20	20	125	20.4	25				
NPDR-TD-R/L 2020-3-L30	20	20	125	20.4	30				
NPDR-TD-R/L 2525-3-L9	25	25	150	25.4	9				
NPDR-TD-R/L 2525-3-L12	25	25	150	25.4	12				
NPDR-TD-R/L 2525-3-L22	25	25	150	25.4	22				
NPDR-TD-R/L 2525-3-L25	25	25	150	25.4	25				
NPDR-TD-R/L 2525-3-L30	25	25	150	25.4	30				
NPDR-TD-R/L 3232-3-L25	32	32	170	32.4	25				
NPDR-TD-R/L 2525-4-L10	25	25	150	25.5	10	TD..-4	TPA-019	-	LLA-4
NPDR-TD-R/L 2525-4-L15	25	25	150	25.5	15				
NPDR-TD-R/L 2525-4-L22	25	25	150	25.5	22				
NPDR-TD-R/L 2525-4-L25	25	25	150	25.5	25				
NPDR-TD-R/L 2525-4-L30	25	25	150	25.5	30				
NPDR-TD-R/L 2525-5-L25	25	25	150	25.5	25	TD..-5	TPA-019	-	LLA-4

Porta de Ranurado Exterior - Placa GX16.. / GX24..

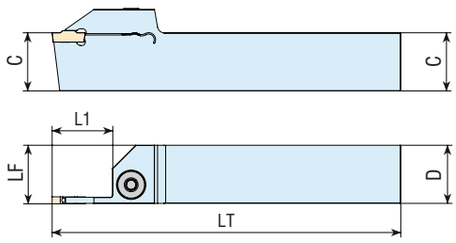


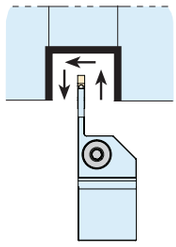


REFERENCIA	C	D	LT	LF	L1	INSERTO	TORNILLO	ARANDELA	LLAVE
NPDR-GX16-R/L 2020-2-L16	20	20	125	20.2	16	GX16..-2	TAB-003	MDP-009	LLA-3
NPDR-GX16-R/L 2525-2-L16	25	25	150	25.2	16				
NPDR-GX24-R/L 2020-3-L20	20	20	125	20.4	20	GX24..-3	TPA-019	-	LLA-4
NPDR-GX24-R/L 2525-3-L12	25	25	150	25.4	12				
NPDR-GX24-R/L 2525-3-L22	25	25	150	25.4	22				
NPDR-GX24-R/L 3232-3-L22	32	32	170	32.4	22				
NPDR-GX24-R/L 2525-4-L22	25	25	150	25.5	22	GX24..-4	TPA-019	-	LLA-4
NPDR-GX24-R/L 2525-5-L25	25	25	150	25.5	25	GX24..-5	TPA-019	-	LLA-4
NPDR-GX24-R/L 3232-5-L25	32	32	170	32.5	25				

Porta de Ranurado Exterior - Placa DGM..



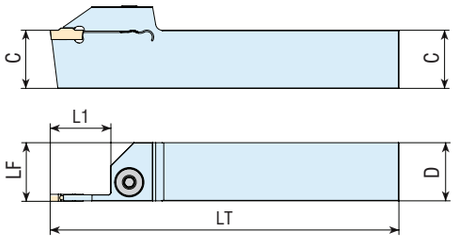


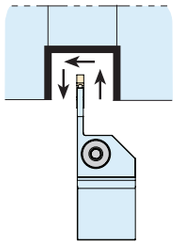


REFERENCIA	C	D	LT	LF	L1	INSERTO	TORNILLO	ARANDELA	LLAVE
NPDR-DGM-R/L 1616-2-L17	16	16	125	16.2	17	DGM2-020	TAB-003	MDP-009	LLA-3
NPDR-DGM-R/L 2020-2-L8	20	20	125	20.2	8				
NPDR-DGM-R/L 2020-2-L12	20	20	125	20.2	12				
NPDR-DGM-R/L 2020-2-L17	20	20	125	20.2	17				
NPDR-DGM-R/L 2525-2-L12	25	25	150	25.2	12				
NPDR-DGM-R/L 2525-2-L17	25	25	150	25.2	17	DGM3-020	TPA-019	-	LLA-4
NPDR-DGM-R/L 1616-3-L20	16	16	125	16.3	20				
NPDR-DGM-R/L 2020-3-L12	20	20	125	20.3	12				
NPDR-DGM-R/L 2020-3-L20	20	20	125	20.3	20				
NPDR-DGM-R/L 2525-3-L9	25	25	150	25.3	9				
NPDR-DGM-R/L 2525-3-L20	25	25	150	25.3	20				
NPDR-DGM-R/L 2525-3-L25	25	25	150	25.3	25				
NPDR-DGM-R/L 2525-4-L15	25	25	150	25.5	15	DGM4-030	TPA-019	-	LLA-4
NPDR-DGM-R/L 2525-4-L20	25	25	150	25.5	20				
NPDR-DGM-R/L 2525-4-L25	25	25	150	25.5	25				
NPDR-DGM-R/L 2525-5-L12	25	25	150	25.5	12	DGM5-030	TPA-019	-	LLA-4
NPDR-DGM-R/L 2525-5-L25	25	25	150	25.5	25				
NPDR-DGM-R/L 2525-5-L32	25	25	150	25.5	32				

Porta de Ranurado Exterior - Placa GP..



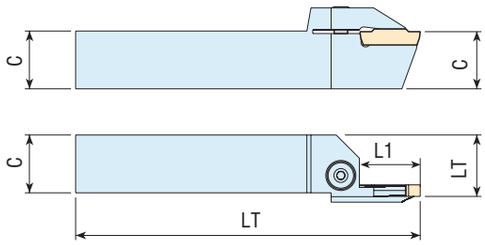


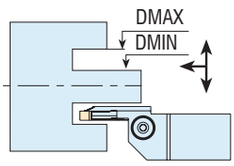


REFERENCIA	C	D	LT	LF	L1	INSERTO	TORNILLO	ARANDELA	LLAVE
NPDR-GP-R/L 2020-2-L15	20	20	125	20.2	16	GP-2	TAB-003	MDP-009	LLA-3
NPDR-GP-R/L 2525-2-L15	25	25	150	25.2	16				
NPDR-GP-R/L 2020-3-L20	20	20	125	20.4	20	GP-3	TPA-019	-	LLA-4
NPDR-GP-R/L 2525-3-L22	25	25	150	25.4	12				
NPDR-GP-R/L 2525-4-L22	25	25	150	25.4	22	GP-4	TPA-019	-	LLA-4
NPDR-GP-R/L 2525-5-L25	32	32	170	32.4	22	GP-5	TPA-019	-	LLA-4

Porta de Ranurado Frontal - Placa MGM



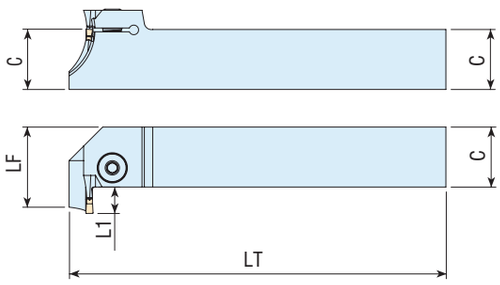


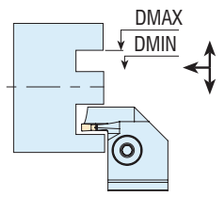


REFERENCIA	C	LT	LF	L1	DMIN	DMAX	INSERTO	TORNILLO	LLAVE
NPDRF-MGM-R/L 2525-34-3-L17	25	150	26.5	17	34	45	MGM..-3	TPA-019	LLA-4
NPDRF-MGM-R/L 2525-39-3-L17	25	150	26.5	17	39	55			
NPDRF-MGM-R/L 2525-49-3-L17	25	150	26.5	17	49	80			
NPDRF-MGM-R/L 2525-70-3-L17	25	150	26.5	17	70	110			
NPDRF-MGM-R/L 2525-100-3-L17	25	150	26.5	17	100	150			
NPDRF-MGM-R/L 2525-80-3-L32	25	150	26.5	32	80	180			
NPDRF-MGM-R/L 2525-175-3-L22	25	150	26.5	22	175	215			
NPDRF-MGM-R/L 2525-700-3-L17	25	150	26.5	17	700	800			
NPDRF-MGM-R/L 2525-50-4-L22	25	150	26.5	22	50	85	MGM..-4	TPA-019	LLA-4
NPDRF-MGM-R/L 2525-70-4-L22	25	150	26.5	22	70	110			
NPDRF-MGM-R/L 2525-100-4-L22	25	150	26.5	22	100	150			
NPDRF-MGM-R/L 2525-80-4-L32	25	150	26.5	32	80	180			
NPDRF-MGM-R/L 2525-180-4-L32	25	150	26.5	32	180	800			
NPDRF-MGM-R/L 2525-70-5-L25	25	150	26.5	25	70	110	MGM..-5	TPA-019	LLA-4
NPDRF-MGM-R/L 2525-100-5-L25	25	150	26.5	25	100	150			
NPDRF-MGM-R/L 2525-80-5-L32	25	150	26.5	32	80	180			
NPDRF-MGM-R/L 2525-140-5-L25	25	150	26.5	25	140	200			
NPDRF-MGM-R/L 2525-180-5-L32	25	150	26.5	32	180	800			
NPDRF-MGM-R/L 2525-60-6-L25	25	150	26.5	25	60	100	MGM..-6	TPA-019	LLA-4
NPDRF-MGM-R/L 2525-60-6-L35	25	150	26.5	35	60	100			
NPDRF-MGM-R/L 2525-100-6-L25	25	150	26.5	25	100	200			
NPDRF-MGM-R/L 2525-100-6-L35	25	150	26.5	35	100	200			
NPDRF-MGM-R/L 2525-100-6-L45	25	150	26.5	45	100	200			
NPDRF-MGM-R/L 2525-140-6-L35	25	150	26.5	35	140	300			
NPDRF-MGM-R/L 2525-140-8-L35	25	150	26.5	35	140	300	MGM..-8	TPA-019	LLA-4
NPDRF-MGM-R/L 3232-140-8-L35	32	150	33.5	35	140	350			

Porta de Ranurado Frontal 90º - Placa Z..BD / Z..FD / Z..GD / Z..HD / Z..KD



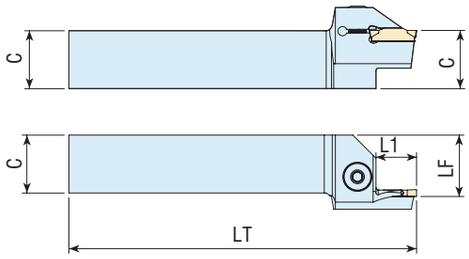


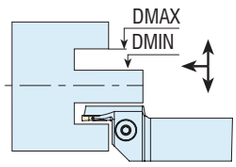


REFERENCIA	C	LT	LF	L1	DMIN	DMAX	INSERTO	TORNILLO	LLAVE
NPDRF90-OK-R/L 2525-35-3-L10	25	150	36	10	35	45	Z.FD-3	TPA-019	LLA-4
NPDRF90-OK-R/L 2525-39-3-L10	25	150	36	10	39	55			
NPDRF90-OK-R/L 2525-35-3-L4	25	150	30	4	35	∞			
NPDRF90-OK-R/L 2525-40-4-L14	25	150	40	14	40	60	Z.GD-4	TPA-019	LLA-4
NPDRF90-OK-R/L 2525-52-4-L14	25	150	40	14	52	80			
NPDRF90-OK-R/L 2525-72-4-L14	25	150	40	14	72	110			
NPDRF90-OK-R/L 2525-100-4-L14	25	150	40	14	100	230			
NPDRF90-OK-R/L 2525-40-4-L4	25	150	30	4	40	∞			

Porta de Ranurado Frontal - Placa - Placa Z..BD / Z..FD / Z..GD / Z..HD / Z..KD



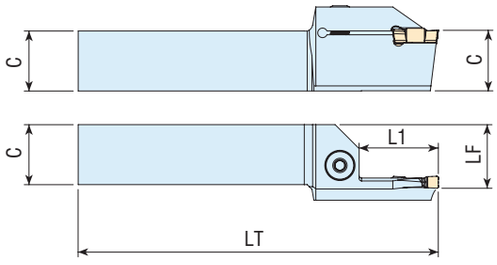


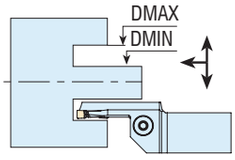


REFERENCIA	C	LT	LF	L1	DMIN	DMAX	INSERTO	TORNILLO	LLAVE
NPDRF-OK-R/L 2525-140-2-L4	25	150	26.5	4	140	180	Z.BD-2	TPA-019	LLA-4
NPDRF-OK-R/L 2525-35-3-L17	25	150	26.5	17	35	45	Z.FD-3	TPA-019	LLA-4
NPDRF-OK-R/L 2525-39-3-L17	25	150	26.5	17	39	55			
NPDRF-OK-R/L 2525-49-3-L17	25	150	26.5	17	49	80			
NPDRF-OK-R/L 2525-70-3-L15	25	150	26.5	15	70	110			
NPDRF-OK-R/L 2525-70-3-L17	25	150	26.5	17	70	110			
NPDRF-OK-R/L 2525-100-3-L17	25	150	26.5	17	100	150			
NPDRF-OK-R/L 2525-40-4-L22	25	150	26.5	22	40	60	Z.GD-4	TPA-019	LLA-4
NPDRF-OK-R/L 2525-52-4-L22	25	150	26.5	22	52	80			
NPDRF-OK-R/L 2525-72-4-L22	25	150	26.5	22	72	110			
NPDRF-OK-R/L 2525-100-4-L22	25	150	26.5	22	100	150			
NPDRF-OK-R/L 2525-140-4-L22	25	150	26.5	22	140	200			
NPDRF-OK-R/L 2525-55-5-L25	25	150	26.5	25	55	95	Z.HD-5	TPA-019	LLA-4
NPDRF-OK-R/L 2525-85-5-L25	25	150	26.5	25	85	140			
NPDRF-OK-R/L 2525-130-5-L25	25	150	26.5	25	130	200			
NPDRF-OK-R/L 2525-190-5-L25	25	150	26.5	25	190	400			
NPDRF-OK-R/L 2525-190-5-L35	25	150	26.5	35	190	400			
NPDRF-OK-R/L 2525-200-5-L17	25	150	26.5	17	200	500			
NPDRF-OK-R/L 2525-60-6-L15	25	150	26,5	15	60	110	Z.KD-6	TPA-019	LLA-4

Porta de Ranurado Frontal - Placa DGN / GRP



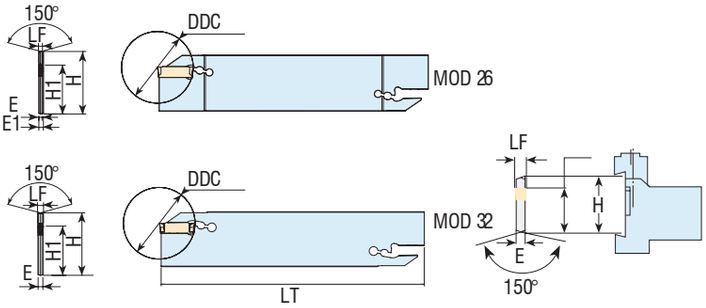




REFERENCIA	C	LF	WF	CDX	DAXN	DAXX	INSERTO	TORNILLO	LLAVE
NPDRF-DGGR-R/L 2525-40-4-L25	25	150	26.5	25	40	60	DGN/GRP-4	TPA-019	LLA-4
NPDRF-DGGR-R/L 2525-52-4-L25	25	150	26.5	25	52	80			
NPDRF-DGGR-R/L 2525-70-4-L28	25	150	26.5	28	70	110			
NPDRF-DGGR-R/L 2525-72-4-L25	25	150	26.5	25	72	110			
NPDRF-DGGR-R/L 2525-100-4-L25	25	150	26.5	25	100	150			
NPDRF-DGGR-R/L 2525-110-4-L28	25	150	26.5	28	110	200			
NPDRF-DGGR-R/L 2525-110-4-L32	25	150	26.5	32	110	200			
NPDRF-DGGR-R/L 2525-140-4-L25	25	150	26.5	25	140	200			
NPDRF-DGGR-R/L 2525-180-4-L28	25	150	26.5	28	180	800			
NPDRF-DGGR-R/L 2525-200-4-L25	25	150	26.5	25	200	800			
NPDRF-DGGR-R/L 2525-70-5-L32	25	150	26.5	32	70	110	DGN/GRP-5	TPA-019	LLA-4
NPDRF-DGGR-R/L 2525-110-5-L9	25	150	26.5	9	110	200			
NPDRF-DGGR-R/L 2525-110-5-L32	25	150	26.5	32	110	200			
NPDRF-DGGR-R/L 2525-180-5-L32	25	150	26.5	32	180	800			
NPDRF-DGGR-R/L 2525-58-6-L32	25	150	26.5	32	58	100	DGN/GRP-6	TPA-019	LLA-4
NPDRF-DGGR-R/L 2525-88-6-L32	25	150	26.5	32	88	180			

Lama de Ranurado - Placa GCM-N30

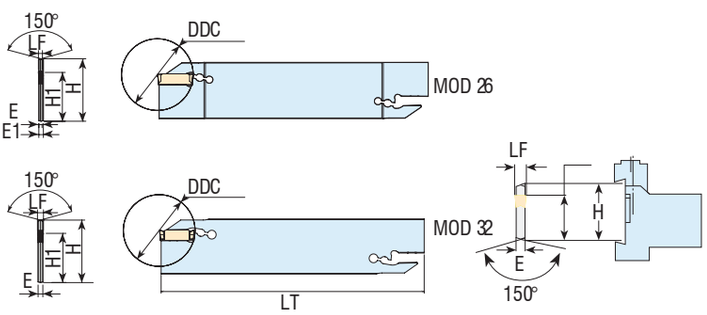




REFERENCIA	A	LF	E1	E	LT	A1	DDC	INSERTO	LLAVE
LDR-GCM-26-3	32	3	2.4	-	110	21.4	39	CGM-N30	LLL-02
LDR-GCM-32-3	32	3	2.4	-	150	25	39	CGM-N30	LLL-02

Lama de Ranurado - Placa TD..

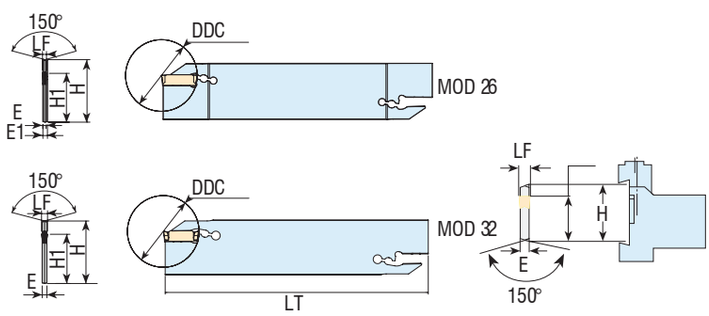




REFERENCIA	A	LF	E1	E	LT	A1	DDC	INSERTO	LLAVE
LDR-TD-32-2	32	2	2.4	1.6	150	25	39	TD..-2	LLL-02
LDR-TD-32-3	32	3	2.4	-	150	25	39	TD..-3	LLL-02

Lama de Ranurado - Placa DGN..

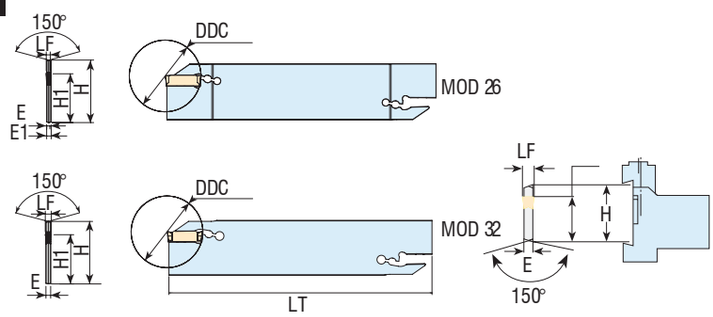




REFERENCIA	A	LF	E1	E	LT	A1	DDC	INSERTO	LLAVE
LDR-DG-26-2	26	1.9-2.5	1.6	-	110	21.4	39	DGN-2	LLL-02
LDR-DG-32-2	32	1.9-2.5	1.8	2.4	150	25	39		
LDR-DG-26-3	26	3-3.18	2.4	-	110	21.5	39	DGN-3	LLL-02
LDR-DG-32-3	32	3-3.18	2.4	-	150	25	39		
LDR-DG-26-4	26	4	3.2	-	110	21.4	80	DGN-4	LLL-02
LDR-DG-32-4	32	4	3.2	-	150	25	100		

Lama de Ranurado - Placa 123..

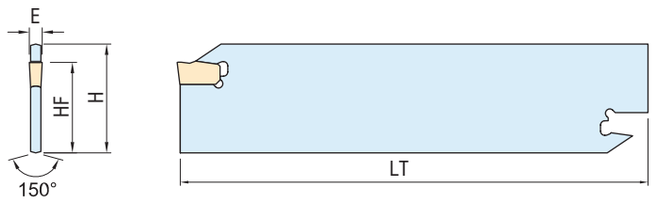




REFERENCIA	A	LF	E1	E	LT	A1	DDC	INSERTO	LLAVE
LDR-123-32-2	32	2	2.4	1.6	150	25	39	123-2	LLL-02
LDR-123-32-3	32	3	2.4	-	150	25	39	123-3	LLL-02
LDR-123-32-4	32	4	3.2	-	150	25	39	123-4	LLL-02

Lama de Ranurado - Placa WCF..

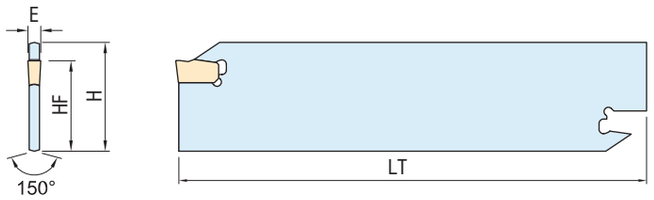




REFERENCIA	H	HF	LT	E	INSERTO	LLAVE
LDR-WCF-26-3	26	21.4	110	3	WCF-3	LLL-03
LDR-WCF-32-3	32	25	150	3		

Lama de Ranurado - Placa TKN..

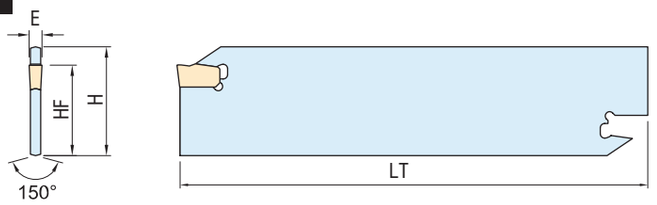




REFERENCIA	H	HF	LT	E	INSERTO	LLAVE
LDR-TKN-26-3	26	21.4	110	3.1	TKN-3	LLL-03
LDR-TKN-26-4	26	21.4	110	4.1	TKN-4	LLL-03
LDR-TKN-32-3	32	25	150	3.1	TKN-3	
LDR-TKN-32-4	32	25	150	4.1	TKN-3	

Lama de Ranurado - Placa GFN..

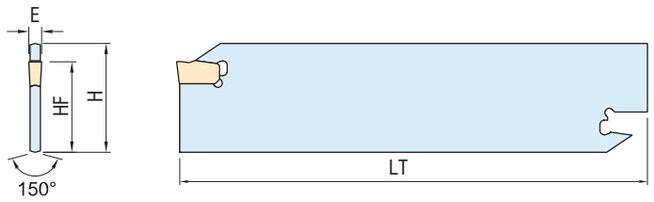




REFERENCIA	H	HF	LT	E	INSERTO	LLAVE
LDR-GFN-26-2	26	21.4	110	2.2/2.4	TKN-3	LLL-03
LDR-GFN-26-3	26	21.4	110	3	TKN-4	LLL-03
LDR-GFN-32-2	32	25	150	2.2/2.4	TKN-3	LLL-03
LDR-GFN-32-3	32	25	150	3	TKN-3	LLL-03

Lama de Ranurado - Placa GTN..

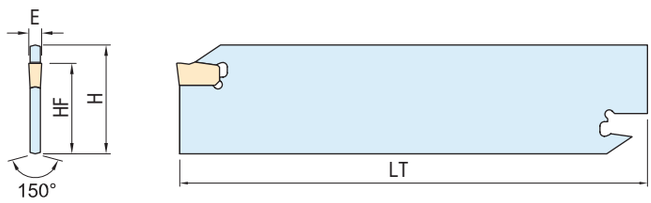




REFERENCIA	H	HF	LT	E	INSERTO	LLAVE
LDR-GTN-26-2	26	21.4	110	2.2/2.4	GTN-2/2.4	LLL-03
LDR-GTN-26-3	26	21.4	110	3.1	GTN-3	LLL-03
LDR-GTN-26-4	26	21.4	110	4.1	GTN-4	LLL-03
LDR-GTN-32-2	32	25	150	2.2/2.4	GTN-2/2.4	LLL-03
LDR-GTN-32-3	32	25	150	3.1	GTN-3	LLL-03
LDR-GTN-32-4	32	25	150	4.1	GTN-4	LLL-03

Lama de Ranurado - Placa ZQMX

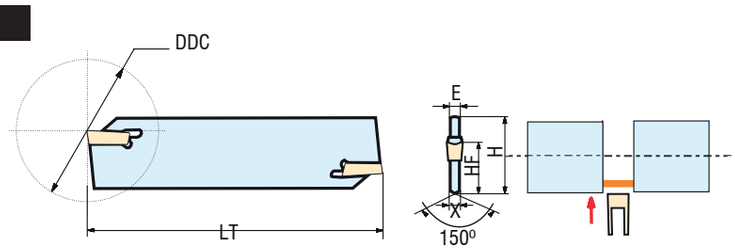




Referencia	H	E	LT	HF	Para Placa	Llave
SPB-326-S	26	2.4	110	21.6	ZQMX3N11	LLL-04
SPB-426-S	26	3.2	110	21.6	ZQMX4N11	LLL-04
SPB-526-S	26	4	110	21.6	ZQMX5N11	LLL-04
SPB-626-S	26	5.2	110	21.6	ZQMX6N11	LLL-04
SPB-332-S	32	2.4	150	25	ZQMX3N11	LLL-04
SPB-432-S	32	3.2	150	25	ZQMX4N11	LLL-04
SPB-532-S	32	4	150	25	ZQMX5N11	LLL-04
SPB-632-S	32	5.2	150	25	ZQMX6N11	LLL-04

Lama de Ranurado - Placa QT..D

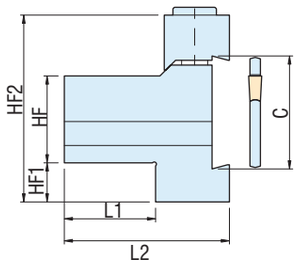


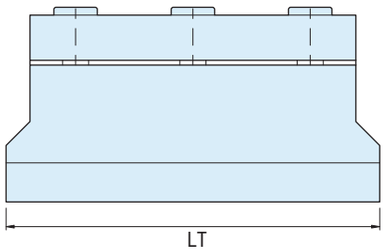


Referencia	LT	H	HF	X	E	DDC	Para Placa	Llave
QEES26N	110	26	19	2	2.5	60	QTED02503N-MG	LLL-04
QEFS26N	110	26	19	2.4	3	60	QTFD0303N-MG	LLL-04
QEGS26N	110	26	19	3.2	4	70	QTGD0404N-MG	LLL-04
QEHS26N	110	26	19	4	5	70	QTHD0504N-MG	LLL-04
QEKS26N	110	26	19	5	6	70	QTKD0608N-MG	LLL-04
QEES32N	150	32	24.6	2	2.5	100	QTED02503N-MG	LLL-04
QEFS32N	150	32	24.6	2.4	3	100	QTFD0303N-MG	LLL-04
QEGS32N	150	32	24.6	3.2	4	120	QTGD0404N-MG	LLL-04
QEHS32N	150	32	24.6	4	5	120	QTHD0504N-MG	LLL-04
QEKS32N	150	32	24.6	5	6	120	QTKD0608N-MG	LLL-04

Portalamas

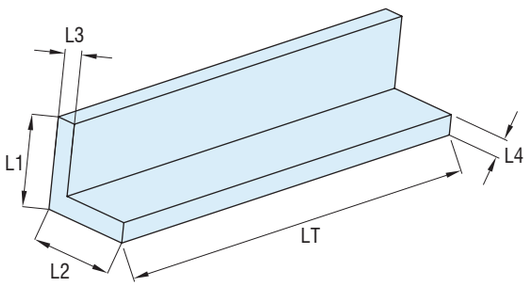


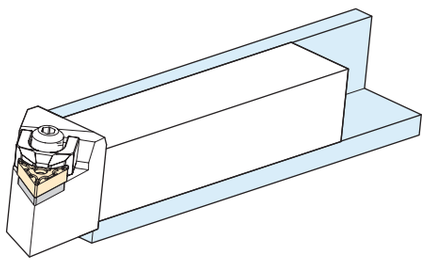




REFERENCIA	HF	C	L1	L2	LT	HF2	HF1	TORNILLO	LLAVE
NPL-1626	16	26	8	35	86	43	8	TEA-026	LLA-5
NPL-2026	20	26	9	38	86	43	9	TEA-026	LLA-5
NPL-2526	25	26	5	42	110	45	5	TEA-027	LLA-5
NPL-2032	20	32	13	38	100	50	13	TEA-027	LLA-5
NPL-2532	25	32	8	42	110	50	8	TEA-027	LLA-5
NPL-3232	32	32	5	48	110	54	5	TEA-027	LLA-5

Bloque en L para regular altura adicional en portaherramientas

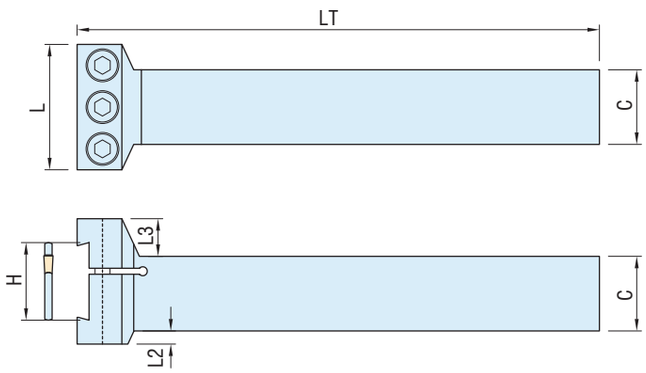




Referencia	L1	L2	LT	L3	L4
LMH-16-20	19.8	19.8	90	4	4
LMH-20-25	24.8	24.8	100	5	5
LMH-25-32	31.8	31.8	150	7	7

Portaherramientas de amarre de amarre lateral para lama de tronzado

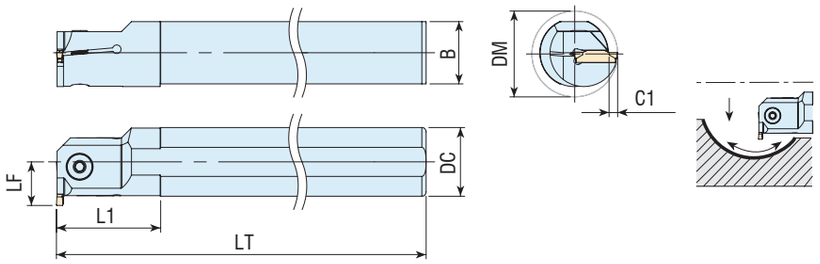




Referencia	C	C	H	L	LT	L2	L3	Tornillo
NPL-LT2526	25	25	26	42	125	4.4	11.6	HTM630

Porta de Ranurado Interior - Placa MGM

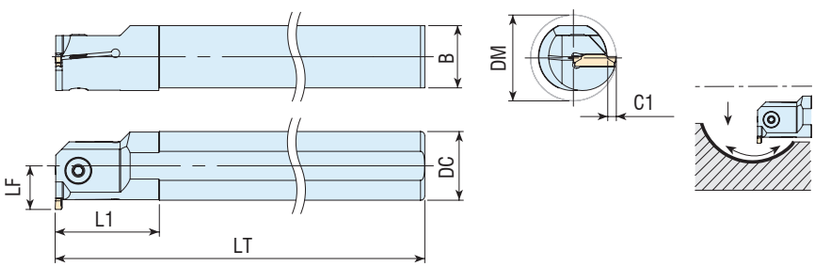




REFERENCIA	DC	DM	LT	L1	C1	B	LF	INSERTO	TORNILLO	LLAVE
NPDRI-MGMR/L 16-2-L4	16	21	150	28	4	14.8	12	MGM-2	TEA-016	LLA-3
NPDRI-MGMR/L 20-2-L4	20	25	170	30	4	18.3	14		TEA-019	LLA-4
NPDRI-MGMR/L 25-2-L6	25	32	200	40	6	23	18.5		TEA-022	LLA-4
NPDRI-MGMR/L 20-3-L7	20	25	170	38	7	18.3	13	MGM-3	TEA-022	LLA-4
NPDRI-MGMR/L 25-3-L6	25	32	200	40	6	23	18.5		TEA-021	LLA-4
NPDRI-MGMR/L 25-3-L10	25	32	200	48	10	23	17			
NPDRI-MGMR/L 32-3-L6	32	39	250	50	6	30	22		TPA-019	LLA-4
NPDRI-MGMR/L 32-3-L12	32	39	250	53	12	30	22			
NPDRI-MGMR/L 40-3-L6	40	47	300	55	6	37.5	26			
NPDRI-MGMR/L 40-3-L12	40	48	300	63	12	37.5	27			
NPDRI-MGMR/L 20-4-L7	20	25	170	38	7	18.3	13	MGM-4	TEA-022	LLA-4
NPDRI-MGMR/L 25-4-L6	25	32	200	40	6	23	18.5		TEA-021	LLA-4
NPDRI-MGMR/L 25-4-L10	25	32	200	49	10	23	17			
NPDRI-MGMR/L 32-4-L6	32	39	250	50	6	30	22		TPA-019	LLA-4
NPDRI-MGMR/L 32-4-L12	32	39	250	53	12	30	22			
NPDRI-MGMR/L 40-4-L6	40	47	300	55	6	37.5	26			
NPDRI-MGMR/L 40-4-L12	40	48	300	63	12	37.5	27			
NPDRI-MGMR/L 25-5-L7	25	33	200	40	7	23	19.5	MGM-5	TEA-021	LLA-4
NPDRI-MGMR/L 32-5-L7	32	40	250	50	7	30	23		TPA-019	LLA-4
NPDRI-MGMR/L 40-5-L7	40	48	300	55	7	37.5	27			
NPDRI-MGMR/L 40-5-L12	40	48	300	63	12	37.5	27			

Porta de Ranurado Interior - Placa KG..

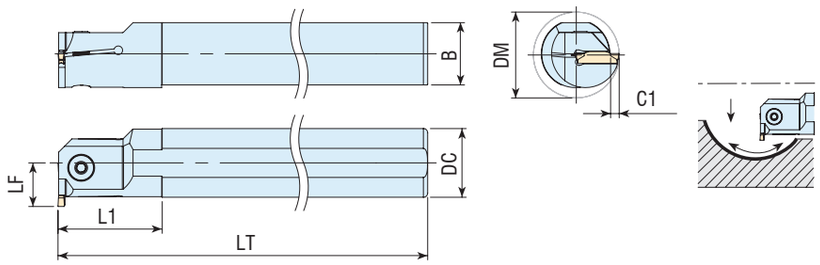




REFERENCIA	DC	DM	LT	L1	C1	B	LF	INSERTO	TORNILLO	LLAVE
NPDRI-KGR/L 25-2-T7	25	33	200	40	7	23	19.5	KG..-2	TEA-022	LLA-4
NPDRI-KGR/L 20-3-L6	20	27.5	170	30	6.5	18.3	16.5	KG..-3	TEA-021	LLA-4
NPDRI-KGR/L 25-3-L7	25	33	200	40	7	23	19.5			
NPDRI-KGR/L 40-3-L8	40	50	300	55	8	37.5	28		TPA-019	LLA-4
NPDRI-KGR/L 25-4-L8	25	34	200	40	8	23	20.5	KG..-4	TEA-021	LLA-4

Porta de Ranurado Interior - Placa 123..

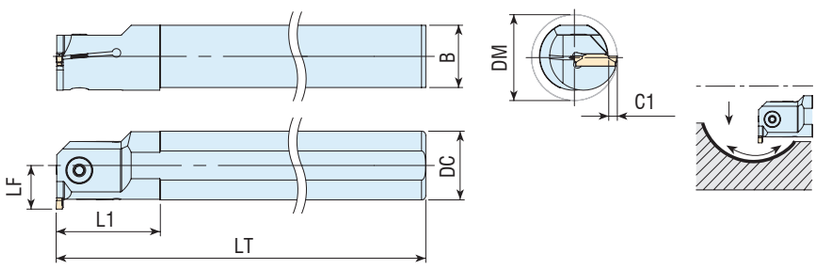




REFERENCIA	DC	DM	LT	L1	C1	B	LF	INSERTO	TORNILLO	LLAVE
NPDRI-123R/L 20-2-L6	20	32	170	30	6	18.3	16	123-2	TEA-019	LLA-3
NPDRI-123R/L 25-2-L6	25	32	200	40	6	18.3	18.5		TEA-022	LLA-4
NPDRI-123R/L 32-2-L7	32	41	250	45	7	30	23		TPA-019	LLA-4
NPDRI-123R/L 20-3-L6	20	32	170	30	6	18.3	16	123-3	TEA-021	LLA-4
NPDRI-123R/L 25-3-L7	25	32	200	40	7	23	19.5			
NPDRI-123R/L 32-3-L9	32	41	250	50	9	30	25		TPA-019	LLA-4
NPDRI-123R/L 20-4-L8	20	29	170	30	8	18.3	18	123-4	TEA-021	LLA-4
NPDRI-123R/L 25-4-L7	25	32	200	40	7	23	19.5			
NPDRI-123R/L 32-4-L7	32	41	250	45	7	30	23		TPA-019	LLA-4
NPDRI-123R/L 32-4-L10	32	43	250	50	10	30	26			
NPDRI-123R/L 25-5-L8	25	34	200	40	8	23	20.5	123-5	TEA-021	LLA-4
NPDRI-123R/L 32-5-L11	32	43	250	50	11	30	27		TPA-019	LLA-4

Porta de Ranurado Interior - Placa RD..

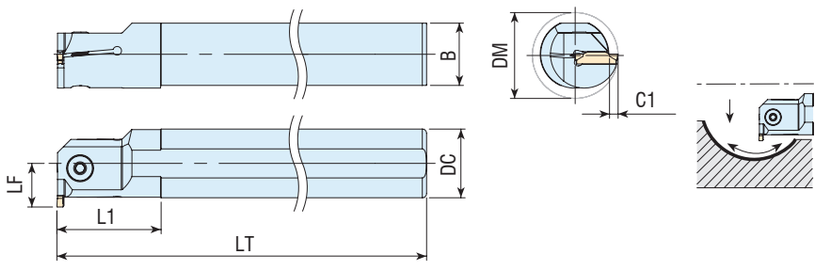




REFERENCIA	DC	DM	LT	L1	C1	B	LF	INSERTO	TORNILLO	LLAVE
NPDRI-RDR/L 16-2-L6	16	24	150	28	6	14.8	14	RD..-2	TEA-016	LLA-3
NPDRI-RDR/L 20-2-L6	20	28	170	28	6	18.3	16		TEA-016	LLA-3
NPDRI-RDR/L 25-2-L6	25	33	200	28	6	23	18.5		TEA-021	LLA-3
NPDRI-RDR/L 16-3-L6	16	24	150	28	6	14.8	14	RD..-3	TEA-016	LLA-4
NPDRI-RDR/L 20-3-L6	20	28	170	28	6	18.3	16		TEA-022	LLA-4
NPDRI-RDR/L 25-3-L6	25	33	200	28	6	23	18.5		TEA-021	LLA-4
NPDRI-RDR/L 32-3-L6	32	40	250	50	6	30	22		TPA-019	LLA-4
NPDRI-RDR/L 20-4-L6	20	28	170	28	6	18.3	16	RD..-4	TEA-022	LLA-4
NPDRI-RDR/L 25-4-L6	25	33	200	28	6	23	18.5		TEA-021	LLA-4
NPDRI-RDR/L 32-4-L6	32	40	250	50	6	30	22		TPA-019	LLA-4

Porta de Ranurado Interior - Placa TD..

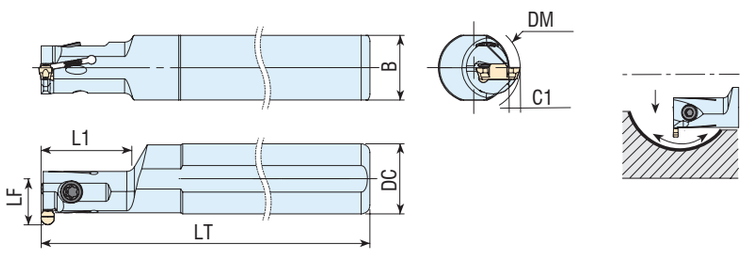




REFERENCIA	DC	DM	LT	L1	C1	B	LF	INSERTO	TORNILLO	LLAVE
NPDRI-TDR/L 16-2-L6	16	25	150	28	8.5	14.8	16.5	TD..-2	TEA-016	LLA-3
NPDRI-TDR/L 20-3-L6	20	25	170	40	6	18.3	16	TD..-3	TEA-022	LLA-4
NPDRI-TDR/L 25-3-L6	25	25	200	40	6	23	18.5		TEA-021	LLA-4
NPDRI-TDR/L 32-3-L5	32	31	250	60	5	30	21		TPA-019	LLA-4

Porta de Ranurado Interior - Placa GIMIY / GIPI

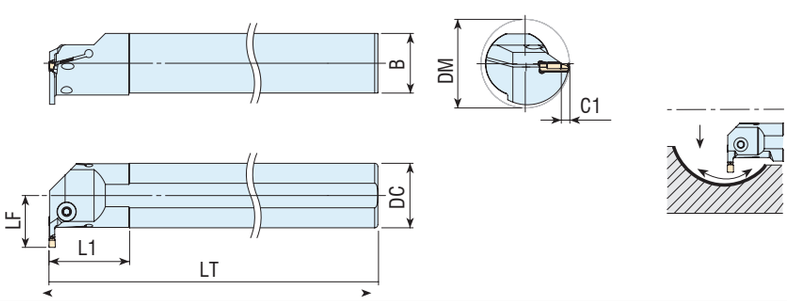




REFERENCIA	DC	DM	LT	L1	C1	B	LF	INSERTO	TORNILLO	LLAVE
NPDRI-GIMP-R/L 20-3-L4	20	20	170	25	4	18.3	14.5	GIMIY/GIPI-3	TDA-082	LLT-20
NPDRI-GIMP-R/L 25-3-L5	25	23	200	30	5	23	17		TEA-021	LLA-4
NPDRI-GIMP-R/L 32-3-L5	32	31	250	30	5	30	21		TPA-019	
NPDRI-GIMP-R/L 40-3-L5	40	50	300	50	5	37.5	25			
NPDRI-GIMP-R/L 20-4-L4	20	20	170	25	4	18.3	14.5	GIMIY/GIPI-4	TDA-082	LLT-20
NPDRI-GIMP-R/L 25-5-L10	25	32	200	25	10	23	22.5	GIMIY/GIPI-5	TEA-021	LLA-4
NPDRI-GIMP-R/L 25-5-L15	25	37	200	25	15	23	27.5			

Porta de Ranurado Interior - Placa DGN/GRP

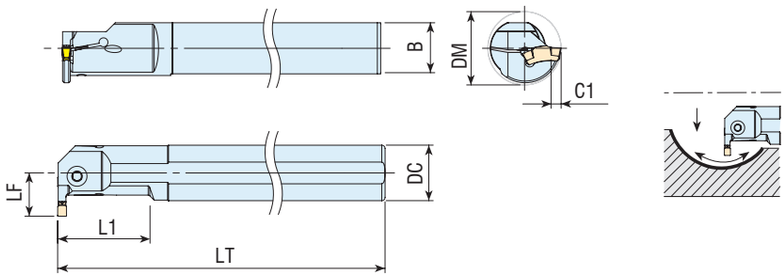




REFERENCIA	DC	DM	LT	L1	C1	B	LF	INSERTO	TORNILLO	LLAVE
NPDRI-DGGR-R/L 20-3-L5	20	26	170	25	5	18.3	15.5	DGN-3	TEA-022	LLA-4
NPDRI-DGGR-R/L 25-3-L6	25	32	200	40	6	23	19			
NPDRI-DGGR-R/L 25-4-L10	25	36	200	40	10	23	22.7	DGN/GRP-4	TEA-021	LLA-4
NPDRI-DGGR-R/L 32-4-L10	32	43	250	45	10	30	26.2			
NPDRI-DGGR-R/L 40-4-L12	40	53	250	50	12	37.5	32.2		TPA-019	LLA-4
NPDRI-DGGR-R/L 25-5-L10	25	36	200	40	10	23	22.7	DGN/GRP-5	TEA-021	LLA-4
NPDRI-DGGR-R/L 32-5-L10	32	43	250	45	10	30	26.2		TPA-019	LLA-4
NPDRI-DGGR-R/L 40-5-L12	40	53	250	50	12	37.5	32.2			
NPDRI-DGGR-R/L 50-5-L12	50	63	300	60	12	47	37.2			

Porta de Ranurado Interior - Placa TGM..

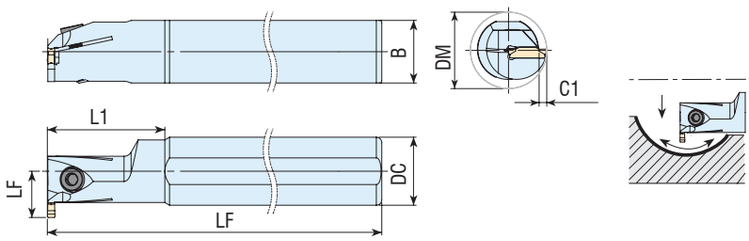




REFERENCIA	DC	DM	LT	L1	C1	B	LF	INSERTO	TORNILLO	LLAVE
NPDRI-TGM-R/L 16-3-L6	16	20	150	25	6	14.8	12	TGM-3	TDA-073	LLT-20
NPDRI-TGM-R/L 20-3-L6	20	25	170	32	6	18.3	14.2		TDA-074	LLT-20
NPDRI-TGM-R/L 25-3-L8	25	32	200	40	8	23	18.8		TEA-021	LLA-4
NPDRI-TGM-R/L 32-3-L8	32	38	250	49	8	30	22		TPA-019	LLA-4
NPDRI-TGM-R/L 20-4-L6	20	25	170	33	6	18.3	14.2	TGM-4	TDA-074	LLT-20
NPDRI-TGM-R/L 25-4-L7	25	31	200	41	7	23	17.5		TEA-021	LLA-4
NPDRI-TGM-R/L 25-4-L9	25	32.5	200	41	9	23	19.5			
NPDRI-TGM-R/L 32-4-L11	32	42	250	50	11	30	25.5		TPA-019	LLA-4
NPDRI-TGM-R/L 40-4-L11	40	53	300	50	11	37.5	32			

Porta de Ranurado Interior - Placa GP..

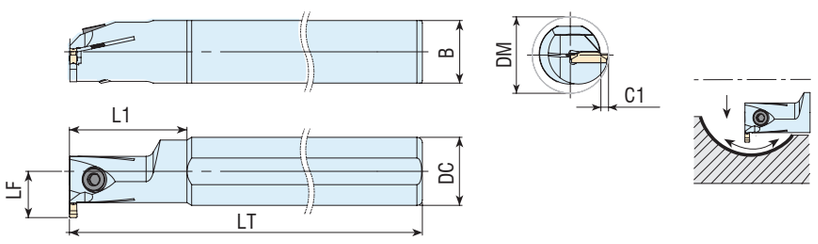




REFERENCIA	DC	DM	LT	L1	C1	B	LF	INSERTO	TORNILLO	LLAVE
NPDRI-GP-R/L 20-2-L4	20	25	170	30	4	18.3	14.5	GP-2	TEA-019	LLA-3
NPDRI-GP-R/L 25-2-L6	25	32	200	40	6	23	18.5		TEA-021	LLA-4
NPDRI-GP-R/L 20-3-L6	20	27	170	30	6	18.3	16	GP-3	TEA-021	LLA-4
NPDRI-GP-R/L 25-3-L6	25	32	200	40	6	23	18.5			
NPDRI-GP-R/L 32-3-L6	32	39	250	50	6	30	22		TPA-019	LLA-4
NPDRI-GP-R/L 20-4-L6	20	27	170	30	6	18.3	16	GP-4	TEA-021	LLA-4
NPDRI-GP-R/L 25-4-L6	25	32	200	40	6	23	18.5		TPA-019	LLA-4
NPDRI-GP-R/L 32-4-L6	32	39	250	50	6	30	22			

PORTAS DE RANURADO INTERIOR - PLACA GCM-N30

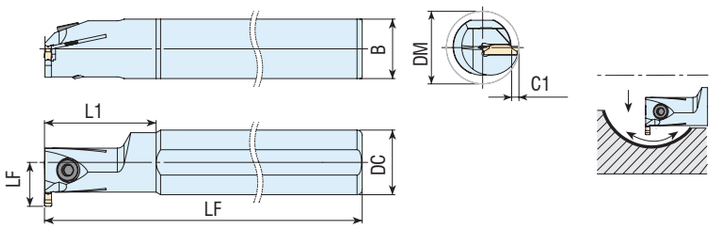




REFERENCIA	DC	DM	LT	L1	C1	B	LF	INSERTO	TORNILLO	LLAVE
NPDRI-GCM-R/L 25-3-L6	25	32	200	40	6	23	18.5	GCM-N30	TEA-021	LLA-4
NPDRI-GCM-R/L 32-3-L6	32	39	250	50	6	30	22		TPA-019	LLA-4
NPDRI-GCM-R/L 40-3-L6	40	47	300	55	6	37.5	26		TPA-019	LLA-4

Porta de Ranurado Interior - Placa DTX..

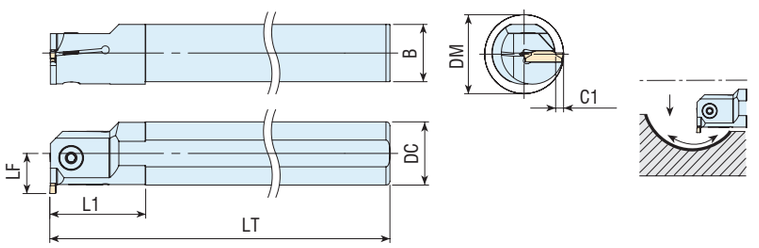




REFERENCIA	DC	DM	LT	L1	C1	B	LF	INSERTO	TORNILLO	LLAVE
NPDRI-DTX-R/L 20-3-L6	20	28	160	28	6	18.3	15.8	DTX3-030	TEA-022	LLA-4
NPDRI-DTX-R/L 25-3-L8	25	35	200	28	8	23	21.5		TEA-021	LLA-4
NPDRI-DTX-R/L 32-3-L10	32	43	250	50	10	30	27		TPA-019	LLA-4
NPDRI-DTX-R/L 32-3-L12	32	45	250	50	12	30	27			
NPDRI-DTX-R/L 32-4-L10	32	43	250	50	10	30	27	DTX4-040	TPA-019	LLA-4
NPDRI-DTX-R/L 32-5-L10	32	43	250	50	10	30	27	DTX5-040	TPA-019	LLA-4

Porta de Ranurado Interior - Placa Z.BD / Z.FD / Z.GD / Z.HD..

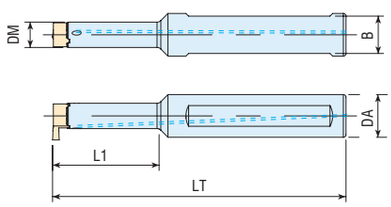




REFERENCIA	DC	DM	LT	L1	C1	B	LF	INSERTO	TORNILLO	LLAVE
NPDRI-OK R/L 16-2-L4	16	21	150	28	4	14.8	12	Z.BD-2	TEA-016	LLA-3
NPDRI-OK R/L 20-3-L5	20	27	170	30	5	18.3	15	Z.FD-3	TEA-022	
NPDRI-OK R/L 20-3-L8	20	29	170	30	8	18.3	18			
NPDRI-OK R/L 25-3-L5	25	31	200	40	5	23	17.5		TEA-021	LLA-4
NPDRI-OK R/L 25-3-L10	25	36	200	40	10	23	22.5		TPA-019	LLA-4
NPDRI-OK R/L 32-3-L6	32	39	250	50	6	30	22			
NPDRI-OK R/L 32-3-L8	32	41	250	50	8	30	24			
NPDRI-OK R/L 32-3-L13	32	46	250	50	13	30	29		TEA-022	LLA-4
NPDRI-OK R/L 40-3-L12	40	53	300	55	12	37.5	32			
NPDRI-OK R/L 25-4-L6	25	32	200	40	6	23	18.5	Z.GD-4	TEA-021	LLA-4
NPDRI-OK R/L 32-4-L7	32	40	250	50	7	30	23		TPA-019	LLA-4
NPDRI-OK R/L 32-4-L8	32	41	250	50	8	30	24			
NPDRI-OK R/L 32-4-L10	32	43	250	50	10	30	26			
NPDRI-OK R/L 32-5-L7	32	40	250	50	7	30	23	Z.HD-5	TPA-019	LLA-4
NPDRI-OK R/L 32-5-L8	32	41	250	50	8	30	24			
NPDRI-OK R/L 40-5-L8	40	49	300	55	8	37.5	28			
NPDRI-OK R/L 40-5-L10	40	51	300	55	10	37.5	30			

Porta de Ranurado Interior - Placa MB..

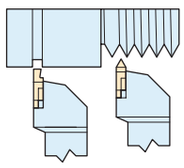


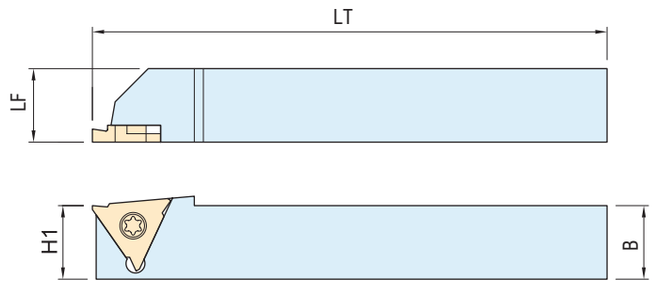


REFERENCIA	DA	DM	LT	L1	B	INSERTO	TORNILLO	LLAVE
NPDRI-MB07-16-90-15	16	7.4	90	15	14	MB-07	TDA-030	LLT-8
NPDRI-MB07-16-90-22	16	7.4	90	22	14			
NPDRI-MB09-16-90-19	16	9.5	90	19	14	MB-09	TDA-066	LLT-15
NPDRI-MB09-16-95-28	16	9.5	95	28	14			
NPDRI-MB09-16-110-40	16	9.5	110	40	14			

Portaherramientas exterior para ranuras - Placas XGTR16 Y XTTR16



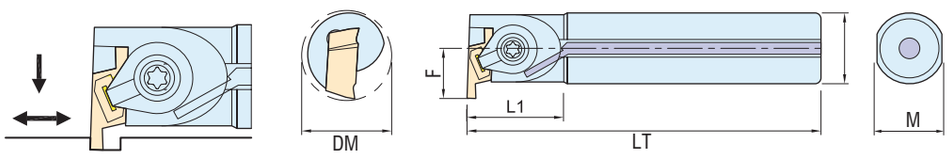




Referencia	B / H1	B	LT	H2	LF	Para Placa	Tornillo Porta	Llave
XSGHR1212-K16	12	12	125	2	16	XGTR16 Y XTTR16	MS4008C	ETF10
XSGHR1616-K16	16	16	125	-	20			
XSGHR2020-K16	20	20	125	-	25			
XSGHR2525-K16	25	25	150	-	32			
XSGSL1616-K16	16	16	125	-	22			
XSGSL2020-K16	20	20	125	-	26			

Portaherramientas interior para ranuras - Placas MGTR16 Y XMTTR16

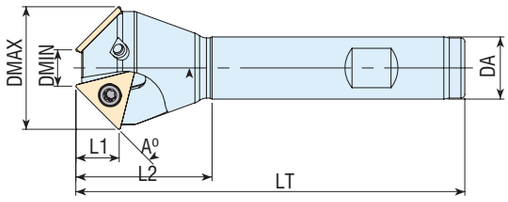




Referencia	D	LT	L1	F	DM	Para Placa	Tornillo Porta	Llave
XGIVR08K-1SS	8	125	20	7	11	XGVR-100SS-300S	CPS4V	ETF10
XGIVR10K-1S	10	125	25	8	14	XGVR-100S-340S	CPS5F0	ETF15
XGIVR12M-1A	12	150	30	9	15	XGVR-100A-340A	CPS5F	
XGIVR16Q-1A	16	180	35	11	20	XGVR-100A-340A	CPS5V	
XGIVR20R-1B	20	200	40	14	25	XGVR-145B-400B	CPS5V	
XGIVR25R-1C	25	200	40	19.5	32	XGVR-280C-500C	CPS6V	PL30
XGIVR32S-2C	32	250	48	23	40	XGVR-340C-500C	CPS6V	
XGIVL16Q-1SS	16	140	20	7	11	XGVR-100SS-300S	CPS4V	ETF10
XGIVL16Q-1S	16	140	25	8	13	XGVR-100S-340S	CPS5F0	ETF15
XGIVL16Q-1A	16	140	30	9	15	XGVR-100A-340A	CPS5F	

Porta de Fresado Chaflanes - Placa TC...

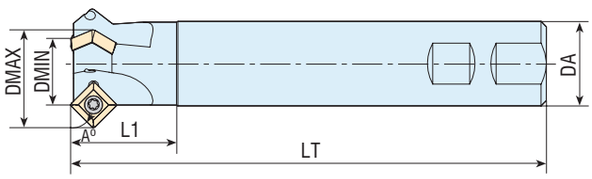




REFERENCIA	Aº	DMIN	DMAX	DA	LT	L2	Z	L1	PLACA	TORNILLO	LLAVE
NPDF10-TC16-D17X22-W16-L90-1	10°	17	22	16	90	30	1	15.5	TC.T16T304	TDA-047	LLT-15
NPDF15-TC16-D17X24-W16-L90-1	15°	17	24	16	90	30	1	14.9			
NPDF15-TC16-D22X29-W16-L100-1	15°	22	29	16	100	30	1	14.9			
NPDF15-TC16-D30X37-W20-L100-2	15°	30	37	20	100	35	2	14.9			
NPDF15-TC16-D35X42-W20-L100-3	15°	35	42	20	100	38	3	14.9			
NPDF15-TC16-D52X59-W25-L110-3	15°	52	59	25	110	40	3	14.9			
NPDF17.5-TC16-D17X25-W16-L90-1	17.5°	17	25	16	90	30	1	14.7			
NPDF18.5-TC16-D21.3X30-W20-L100-2	18.5°	21.3	30	20	100	30	2	13.5	TC.T16T308	TDA-047	LLT-15
NPDF20-TC16-D12X22-W16-L100-1	20°	12	22	16	100	30	1	14.4	TC.T16T304	TDA-047	LLT-15
NPDF20-TC16-D17X27-W16-L100-1	20°	17	27	16	100	30	1	14.4			
NPDF20-TC16-D23X33-W20-L100-2	20°	23	33	20	100	30	2	14.4			
NPDF20-TC16-D28X38-W20-L100-2	20°	28	38	20	100	35	2	14.4			
NPDF20-TC16-D35X45-W20-L100-3	20°	35	45	20	100	40	3	14.4			
NPDF20-TC16-D39X49-W20-L100-3	20°	39	49	20	100	40	3	14.4			
NPDF20-TC16-D45X55-W25-L110-3	20°	45	55	25	110	40	3	14.4			
NPDF20-TC16-D51X61-W25-L110-3	20°	51	61	25	110	40	3	14.4			
NPDF22.5-TC16-D17X28-W16-L100-1	22.5°	17	28	16	100	30	1	14.2			
NPDF25-TC16-D17X29-W16-L100-1	25°	17	29	16	100	30	1	13.9			
NPDF30-TC16-D6X20-W16-L100-1	30°	6	20	16	100	30	1	13.3			
NPDF30-TC16-D15X30-W16-L100-1	30°	15	30	16	100	30	1	13.3			
NPDF30-TC16-D17.5X32.5-W20-L100-2	30°	17.5	32.5	20	100	30	2	13.3			
NPDF30-TC16-D20X35-W16-L100-2	30°	20	35	16	100	35	2	13.3			
NPDF30-TC16-D30X45-W20-L100-2	30°	30	45	20	100	40	2	13.3			
NPDF30-TC16-D35X50-W20-L100-3	30°	35	50	20	100	40	3	13.3			
NPDF30-TC16-D45X60-W25-L110-3	30°	45	60	25	110	40	3	13.3			
NPDF45-TC09-D7X18-W16-L100-2	45°	7	18	16	100	25	2	5.9	TC.T090204	TDA-008	80-T07
NPDF45-TC11-D11X24-W16-L100-2	45°	11	24	16	100	25	2	6.9	TC.T110204	TDA-014	LLT-8
NPDF45-TC16-D5X26-W16-L100-1	45°	5	26	16	100	30	1	10.8	TC.T16T304	TDA-047	LLT-15
NPDF45-TC16-D10X31-W16-L100-2	45°	10	31	16	100	35	2	10.8			
NPDF45-TC16-D10X31-W20-L100-2	45°	10	31	20	100	35	2	10.8			
NPDF45-TC16-D18X39-W16-L100-2	45°	18	39	16	100	40	2	10.8			
NPDF45-TC16-D18X39-W20-L100-2	45°	18	39	20	100	40	2	10.8			
NPDF45-TC16-D20X41-W20-L100-2	45°	20	41	20	100	40	2	10.8			
NPDF45-TC16-D30X51-W20-L100-2	45°	30	51	20	100	40	2	10.8			
NPDF55-TC16-D16X40-W20-L100-3	55°	16	40	20	100	40	3	8.7			
NPDF62-TC16-D14X40-W20-L100-3	62°	14	40	20	100	40	3	7.1			
NPDF72-TC16-D14X42-W20-L100-3	72º	14	42	20	100	40	3	4.6			

Porta de Fresado Chalfanes 45º - Placa SPGT...

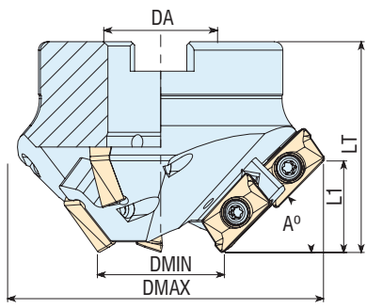




REFERENCIA	Aº	DMIN	DMAX	DA	LT	L1	Z	PLACA	TORNILLO	LLAVE
NPDF45-SP11-D12X26-W20-L150-1	45°	12	26	20	150	30	1	SPGT110408	TDA-064	LLT-15
NPDF45-SP11-D25X39-W25-L150-2	45°	25	39	25	150	35	2			
NPDF45-SP11-D32X46-W32-L150-3	45°	32	46	32	150	40	3			

Plato de Fresado Chaflanes - Placa AP..1604

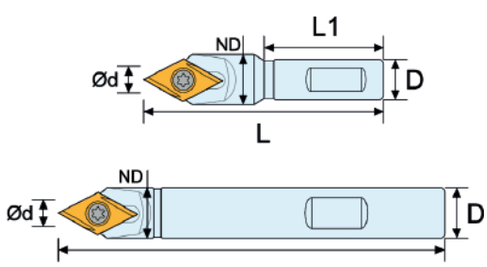




REFERENCIA	Z	Aº	DMIN	DMAX	DA	L1	LT	INSERTO	TORNILLO	LLAVE
NPDFA15-AP16-D35X93-E27-Z3R	3-6	15	35	93	27	8	50	AP..1604	TDA-066	LLT-08
NPDFA30-AP16-D35X87-E27-Z3R	3-6	30	35	87	27	15	50			
NPDFA45-AP16-D35X77-E27-Z3R	3-6	45	35	77	27	21.5	50			
NPDFA60-AP16-D35X65-E22-Z3R	3-6	60	35	65	22	26.5	50			
NPDFA75-AP16-D35X50-E22-Z3R	3-6	75	35	50	22	29.5	50			

Porta de Chaflanado / Punteado 60º

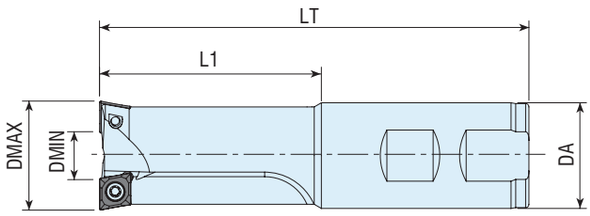


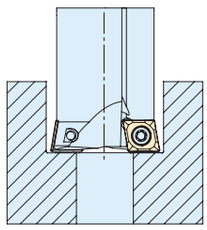


Referencia	D	ND	L	L1	Grados	INSERTO	TORNILLO	LLAVE
NPCX-101260	10	12	60	30	60º	XCEX11T3	TDA-113	LLT-15
NPCX-1212100	12	12	100	-	60º			

Porta de Fresado Cabeza Tornillo DIN 974-1 - Placa CC.. / SP..



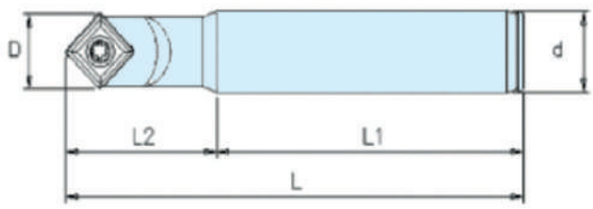




REFERENCIA	DMIN	DMAX	DA	L1	LT	PARA TORNILLO	PLACA	TORNILLO	LLAVE
NPCF-CC06-D27X6-W16-L150-2	6	17	16	30	150	-	CC..060204	TDA-014	LLT-8
NPCF-CC06-D18X7-W16-L100-2R	7	18	16	32	100	M-10			
NPCF-CC06-D18X7-W16-L160-2R	7	18	16	32	160	M-10			
NPCF-CC06-D20X9-W20-L100-2R	9	20	20	40	100	M-12			
NPCF-CC06-D20X9-W20-L160-2R	9	20	20	38	160	M-12			
NPCF-CC09-D26X8.5-W25-L130-2R	8.5	26	25	50	130	M-16	CC..09T304	TDA-047	LLT-15
NPCF-CC09-D26X8.5-W25-L200-2R	8.5	26	25	50	200	M-16			
NPCF-CC09-D30X12.5-W32-L130-2R	12.5	30	32	65	130	-			
NPCF-CC09-D33X15.5-W32-L130-2R	15.5	33	32	65	130	M-20			
NPCF-CC09-D33X15.5-W32-L200-2R	15.5	33	32	65	200	M-20			
NPCF-SP06-D15X4-W16-L150-2R	4	15	16	80	160	M-8	SP..060204	TDA-008	80-T07

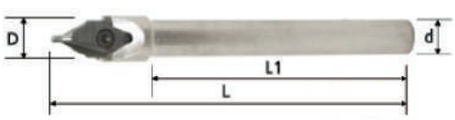
Porta de Chaflanado / Punteado





Referencia	D	d	L	L1	L2	Inserto	Tornillo Recambio
NCCX-1412100	14	12	100	67	33	NDXP11T308	TDA-104
NCCX-1416100	14	16	100	67	33	NDXP11T308	TDA-104
NCCX-1416150	14	16	150	117	33	NDXP11T308	TDA-104
NCCX-1416220	14	16	220	187	33	NDXP11T308	TDA-104

Porta de Punteado



▲ Fig.1



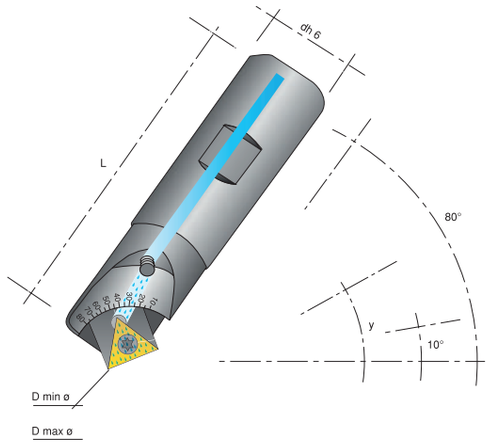
▲ Fig.2

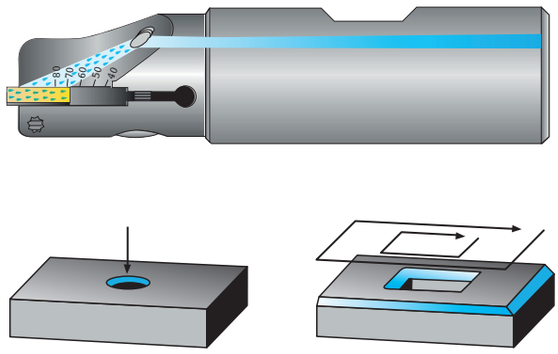


▲ Fig.3

Referencia	D	d	L	L1	Tipo	Inserto	Tornillo Recambio
NQCX-8100	12	8	100	73	1	NDXN04-200 NDXN04-250 NDXN04-300 NDXN04-400	TDA-105
NQCX-10100	12	10	100	74	1		TDA-105
NQCX-12100	12	12	100	-	2		TDA-105
NQCX-16120	12	16	120	48	3		TDA-105
NQCX-20150	12	20	150	50	3		TDA-105
NQCX-25180	12	25	180	56	3		TDA-105
NQCX-32200	12	32	200	60	3		TDA-105

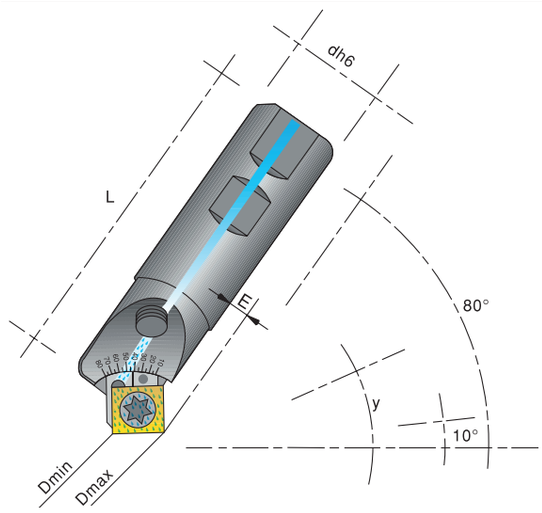
Portaherramientas de fresado regulable en ángulo - Placa TCMT

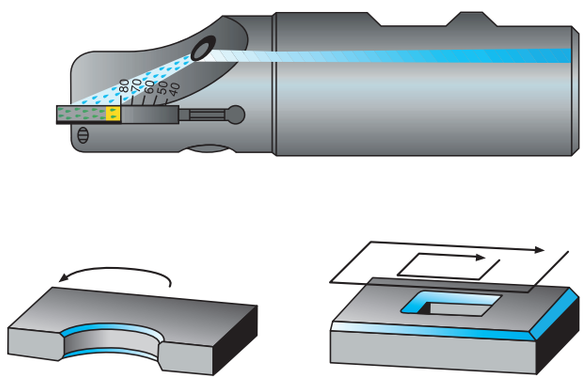




Referencia	dh6	L	Yº	D-Min ø	D-Max ø	Ref. Int	Tornillo Placa	Tornillo Porta	Para Placa
NPDF-FD16-L100-TC11	16	100	10º-80º	Ø5	ø27	NO	TDA-099	TDA-100	TCMT1102..
NPFD-FD20-L100-TC11	20	100	10º-80º	ø5	ø27	SI	TDA-099	TDA-100	TCMT1102..
NPDF-FD20-L150-TC11	20	150	10º-80º	ø5	ø27	NO	TDA-099	TDA-100	TCMT1102..
NPDF-FD20-L100-TC16	20	100	10º-80º	ø5	ø34	NO	TDA-097	TDA-101	TCMT16T3..
NPDF-FD25-L100-TC16	25	100	10º-80º	ø5	ø34	SI	TDA-097	TDA-101	TCMT16T3..
NPDF-FD25-L150-TC16	25	150	10º-80º	ø5	ø34	NO	TDA-097	TDA-101	TCMT16T3..
NPDF-FD25-L200-TC16	25	200	10º-80º	ø5	ø34	NO	TDA-097	TDA-101	TCMT16T3..

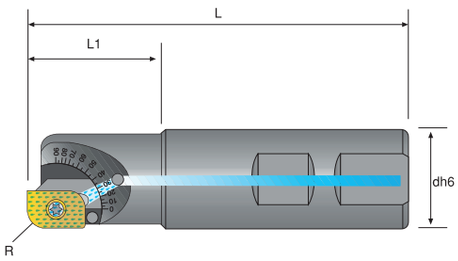
Portaherramientas de fresado regulable en ángulo - Placa SCMT

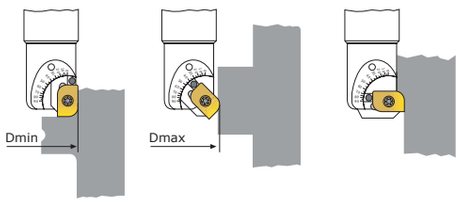




Referencia	dh6	L	Yº	D-Min	D-Max	E	Ref. Int	Tornillo Placa	Tornillo Porta	Para Placa
NPDF-FD20-L100-SC12	20	100	-	-	-	-	NO	TDA-100	TDA-101	SCMT1204..
NPDF-FD25-L100-SC12	25	100	-	-	-	-	SI	TDA-100	TDA-101	SCMT1204..
NPDF-FD25-L150-SC12	25	150	-	-	-	-	NO	TDA-100	TDA-101	SCMT1204..
NPDF-FD25-L200-SC12	25	200	-	-	-	-	NO	TDA-100	TDA-101	SCMT1204..
DATOS DE ÁNGULOS			10º	7.5	30	2.7				
			20º	10	32	3.6				
			30º	13	32.5	4.3				
			40º	16.5	33.5	4.5				
			50º	19	33.5	4.6				
			60	22	33.5	4.3				
			70	24.5	32.5	3.8				
			80	27	31	3				

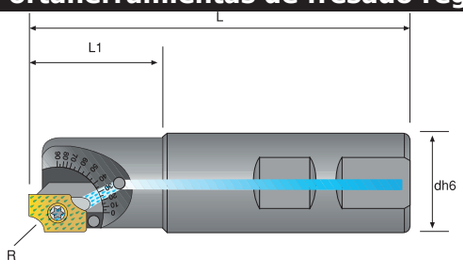
Portaherramientas de fresado regulable para radio - Placa NXDCW1503M

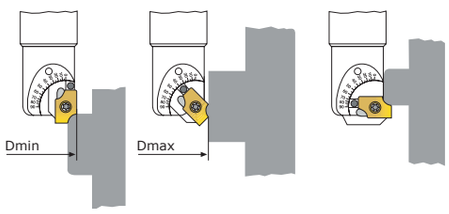




Referencia	dh6	L	L1	D-Min ø	D-Max ø	Ref. Int	Soporte Placa	Tornillo Porta	Para Placa
NPDF-FD20-L100-NXD15M	20	100	37	26.5	34	NO	PB-043	TDA-102	NXDCW1503M
NPDF-FD25-L100-NXD15M	25	100	37	26.5	34	SI	PB-043	TDA-102	NXDCW1503M
NPDF-FD25-L150-NXD15M	25	150	37	26.5	34	NO	PB-043	TDA-102	NXDCW1503M
NPDF-FD25-L200-NXD15M	25	200	37	26.5	34	NO	PB-043	TDA-102	NXDCW1503M

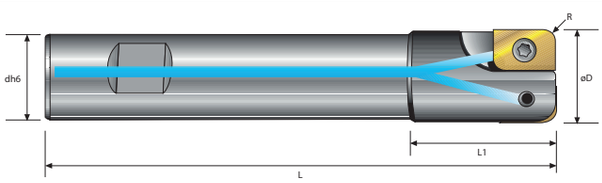
Portaherramientas de fresado regulable para radio - Placa NXDCW1503F

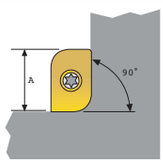




Referencia	dh6	L	L1	D-Min ø	D-Max ø	Ref. Int	Soporte Placa	Tornillo Porta	Para Placa
NPDF-FD20-L100-NXD15F	20	100	37	26.5	33	NO	PB-044	TDA-102	NXDCW1503F
NPDF-FD25-L100-NXD15F	25	100	37	26.5	33	SI	PB-044	TDA-102	NXDCW1503F
NPDF-FD25-L150-NXD15F	25	150	37	26.5	33	NO	PB-044	TDA-102	NXDCW1503F
NPDF-FD25-L200-NXD15F	25	200	37	26.5	33	NO	PB-044	TDA-102	NXDCW1503F

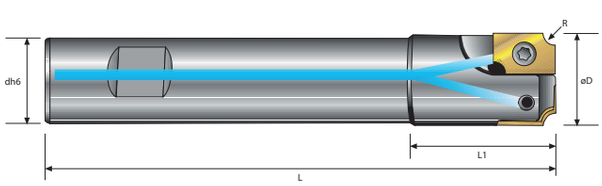
Portaherramientas de fresado para radio - Placa NXDCW1503M y NXPCW2004M

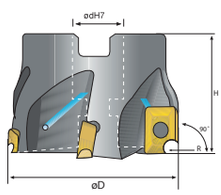


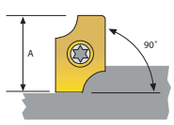


Referencia	øD	dh6	L	L1	A	Z	Tornillo Porta	Para Placa
NPDF-FD17-NX15	17	16	120	30	15	1	TDA-102	NXDCW1503M
NPDF-FD22-NX20	22	20	120	35	15	2	TDA-102	NXPCW2004M
NPDF-FD32-NX20	32	25	120	40	20	2	TDA-100	NXPCW2004M

Portaherramientas de fresado para radio - Placa NXDCW1503F y NXPCW2004F



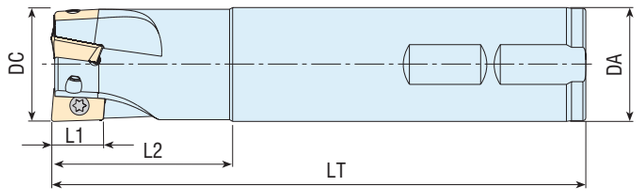




Referencia	øD	dh6	dH7	L	L1	H	A	Z	Tornillo Porta	Para Placa
NPDF-FD17-NX15	17	16	-	120	30	-	15	1	TDA-102	NXDCW1503F
NPDF-FD22-NX15	22	20	-	120	35	-	15	2	TDA-102	NXDCW1503F
NPDF-FD32-NX15	32	25	-	120	40	-	20	2	TDA-102	NXDCW1503F
NPDF-FD40-NX20	40	-	16	-	-	40	15	4	TDA-100	NXPCW2004F
NPDF-FD50-NX20	50	-	22	-	-	50	20	4	TDA-100	NXPCW2004F

Portaherramientas de fresado 90º - AD..1505

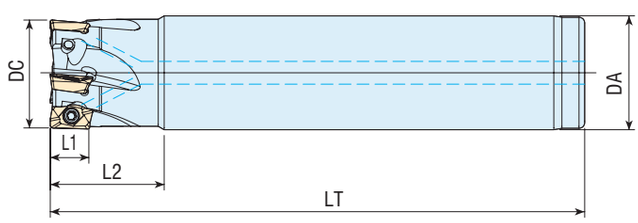




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-AD1505-D25-W25-L150-2	25	2	25	150	50	14.3			
NPDF90-AD1505-D30-W25-L150-3	30	3	25	150	40	14.3	AD..1505..	TDA-064	LLT-15
NPDF90-AD1505-D32-W32-L150-3	32	3	25	150	50	14.3			

Portaherramientas de fresado 90º - ADMX0702.. / ADMX11T30..

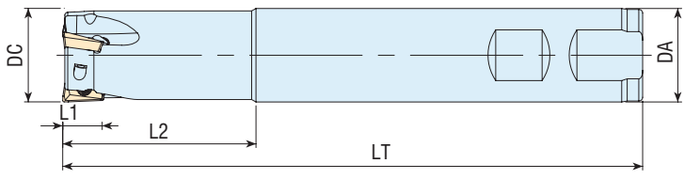




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-AD07-D10-C08-L90-2R	10	2	8	90	16	6	ADMX0702..	TDA-004	LLT-6
NPDF90-AD07-D10-C10-L80-2R	10	2	10	80	16	6		TDA-003	
NPDF90-AD07-D12-C10-L80-3R	12	3	10	80	18	6		TDA-004	
NPDF90-AD07-D12-C12-L90-3R	12	3	12	90	18	6		TDA-005	
NPDF90-AD07-D16-C16-L110-4R	16	4	16	110	19	6		TDA-006	
NPDF90-AD07-D20-C20-L125-5R	20	5	20	125	20	6			
NPDF90-AD07-D25-C25-L140-6R	25	6	25	140	24	6			
NPDF90-AD11-D16-C16-L135-2R	16	2	16	135	24	9	ADMX11T30..	TDA-013	LLT-8
NPDF90-AD11-D18-C16-L135-2R	18	2	16	135	15	9			
NPDF90-AD11-D18-C16-L160-2R	18	2	16	160	15	9			
NPDF90-AD11-D20-C20-L150-2R	20	2	20	150	50	9			
NPDF90-AD11-D20-C20-L150-3R	20	3	20	150	50	9			
NPDF90-AD11-D22-C20-L150-3R	22	3	20	150	15	9		TDA-014	LLT-8
NPDF90-AD11-D22-C20-L200-3R	22	3	20	200	15	9			
NPDF90-AD11-D25-C25-L170-3R	25	3	25	170	50	9			
NPDF90-AD11-D25-C25-L170-4R	25	4	25	170	50	9			
NPDF90-AD11-D28-C25-L165-4R	28	4	25	165	17	9			
NPDF90-AD11-D28-C25-L200-4R	28	4	25	200	17	9			
NPDF90-AD11-D30-C25-L165-4R	30	4	25	165	19	9			
NPDF90-AD11-D30-C25-L200-4R	30	4	25	200	19	9			
NPDF90-AD11-D32-C32-L195-5R	32	5	32	195	50	9			

Portaherramientas de fresado 90º - ADMT08 / ADMT10 ADMT / ADMT

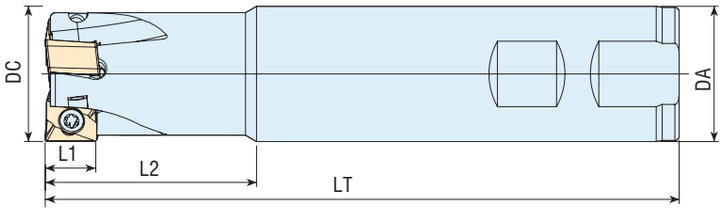




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-ADMT08-D16-W16-L150-2	16	2	16	150	30	8			
NPDF90-ADMT08-D17-W16-L150-2	17	2	16	150	30	8	ADMT0803..	TDA-013	LLT-8
NPDF90-ADMT08-D17-W16-L200-2	17	2	16	200	30	8			
NPDF90-ADMT08-D20-W20-L150-3	20	3	20	150	30	8			
NPDF90-ADMT08-D21-W20-L200-3	21	3	20	200	30	8			
NPDF90-AD10T3-D16-W16-L100-2R	16	2	16	100	30	10	ADMT10T3..	TDA-014	LLT-8
NPDF90-AD10T3-D16-W16-L150-2	16	2	16	150	40	10			
NPDF90-AD10T3-D16-C16-L200-2	16	2	16	200	50	10			
NPDF90-AD10T3-D17-W16-L150-2	17	2	16	150	30	10			
NPDF90-AD10T3-D17-W16-L200-2	17	2	16	200	30	10			
NPDF90-AD10T3-D20-W20-L30-3	20	3	20	70	30	10			
NPDF90-AD10T3-D20-W20-L100-3R	20	3	20	100	30	10			
NPDF90-AD10T3-D20-W20-L150-3	20	3	20	150	40	10			
NPDF90-AD10T3-D20-C20-L150-3	20	3	20	150	40	10			
NPDF90-AD10T3-D20-C20-L200-3	20	3	20	200	50	10			
NPDF90-AD10T3-D25-W25-L100-3R	25	3	25	100	30	10			
NPDF90-AD10T3-D25-W25-L100-4R	25	4	25	100	30	10			
NPDF90-AD10T3-D25-W25-L150-3	25	3	25	150	50	10			
NPDF90-AD1204-D20-W20-L150-2	20	2	20	150	50	12	ADMT1204..	TDA-031	LLT-10
NPDF90-AD1204-DD21-C20-L150-2	21	2	20	150	30	12			
NPDF90-AD1204-D22-C20-L150-2	22	2	20	150	30	12			
NPDF90-AD1204-D25-W25-L150-3	25	3	25	150	50	12			
NPDF90-AD1204-D26-W25-L180-3	26	3	25	180	30	12			
NPDF90-AD1204-D32-W32-L150-4	32	4	32	150	50	12			
NPDF90-AD1606-D25-W25-L150-2	25	2	25	150	50	12	ADMT1606..	TDA-064	LLT-15
NPDF90-AD1606-D32-W32-L150-3	32	3	32	150	50	15			

Portaherramientas de fresado 90º - ANKX1207..

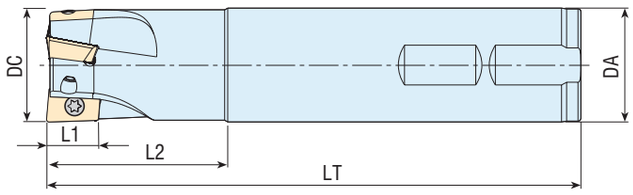




REFERENCIA	DC	zefp	dconLF	LH	LF	APMX	INSERTO	TORNILLO	LLAVE
NPDF-90-ANKX1207-D25-W25-L150-2	25	2	25	150	40	10	ANKX1207..	TDA-066	LLT-15
NPDF-90-ANKX1207-D32-W32-L150-3	32	3	32	150	50	10			
NPDF-90-ANKX1207-D40-W32-L150-4	40	4	32	150	40	10			

Portaherramientas de fresado 90º - ADMT1003 / ADKT1505

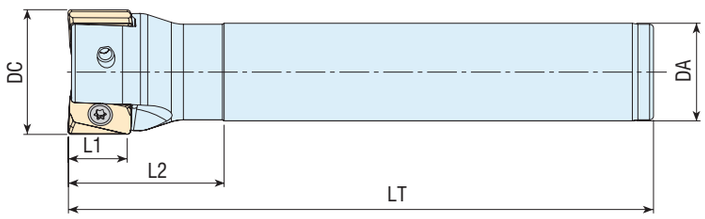




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-AD1003-D16-C16-L150-2	16	2	16	150	30	8	ADMT1003..	TDA-013	LLT-8
NPDF90-AD1003-D17-C16-L150-2	17	2	16	150	25	8			
NPDF90-AD1003-D20-C20-L200-3	20	3	20	200	50	8		TDA-014	LLT-8
NPDF90-AD1003-D21-C20-L150-3	21	3	20	150	25	8			
NPDF90-AD1003-D21-C20-L200-3	21	3	20	200	25	8		TDA-006	LLT-8
NPDF90-AD1003-D25-C25-L200-3	25	3	25	200	50	8			
NPDF90-AD1003-D26-C25-L150-3	26	3	25	150	30	8			
NPDF90-AD1003-D26-C25-L200-3	26	3	25	200	30	8			
NPDF90-AD1505D-D25-W25-L150-2	25	2	25	150	50	14.3	ADKT1505..	TDA-066	
NPDF90-AD1505D-D32-W32-L150-3	32	3	32	150	50	14.3		TDA-066	

Portaherramientas de fresado 90º - ANGX1105

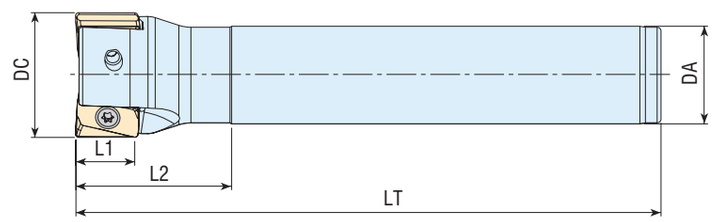




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-AN11-D22-W20-L150-2	22	2	20	150	30	11	ANGX1105..	TDA-032	LLT-10
NPDF90-AN11-D25-W25-L150-2	25	2	25	150	40	11			
NPDF90-AN11-D25-C25-L200-2	25	2	25	200	40	11			
NPDF90-AN11-D26-W25-L150-2	26	2	25	150	40	11			
NPDF90-AN11-D28-W25-L150-2	28	2	25	150	25	11			
NPDF90-AN11-D32-W32-L150-3	32	3	32	150	50	11			
NPDF90-AN11-D32-C32-L200-3	32	3	32	200	50	11			
NPDF90-AN11-D40-W32-L150-4	40	4	32	150	40	11			

Portaherramientas de fresado 90º - AN.X1607..

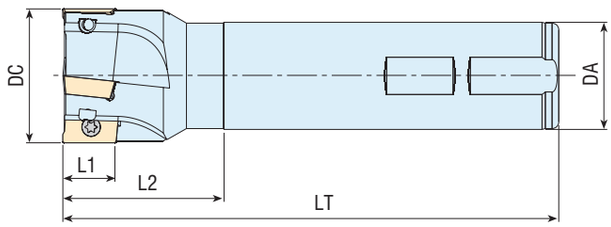




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF-90-AN1607-D32-C25-L150-2	32	2	25	150	50	15	AN.X1607..	TDA-066	LLT-15
NPDF-90-AN1607-D40-C32-L150-3	40	3	32	150	50	15			

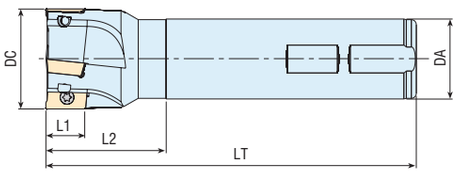
Portaherramientas de fresado 90º - APMT0602.. / APMT0903.. / APKT09T3..





REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	ALLAVE
NPDF90-AP06-D10-C10-L120-2	10	2	10	120	20	5.6	APMT0602..	TDA-002	LLT-6
NPDF90-AP06-D12-C12-L120-2	12	2	12	120	20	5.6	APMT0903..	TDA-013	LLT-8
NPDF90-AP0903-D12-C16-L080-1R	12	1	16	80	30	9			
NPDF90-AP0903-D16-C16-L090-2	16	2	16	90	30	9			
NPDF90-AP0903-D16-C16-L150-2	16	2	16	150	30	9			
NPDF90-AP0903-D17-C16-L150-2	17	2	16	150	30	9			
NPDF90-AP0903-D18-C16-L090-2R	18	2	16	90	30	9	APMT0903..	TDA-014	LLT-8
NPDF90-AP0903-D20-C20-L110-3	20	3	20	110	30	9			
NPDF90-AP0903-D20-C20-L150-2	20	2	20	150	30	9			
NPDF90-AP0903-D20-C20-L200-2	20	2	20	200	100	9			
NPDF90-AP0903-D21-C20-L150-2	21	2	20	150	30	9			
NPDF90-AP0903-D25-C25-L120-3	25	3	25	120	30	9			
NPDF90-AP0903-D25-C25-L150-3	25	3	25	150	30	9			
NPDF90-AP0903-D25-C25-L200-2	25	2	25	200	100	9			
NPDF90-AP09-D16-C16-L100-2R	16	2	16	100	30	8.8	APKT09T3..	TDA-013	LLT-8
NPDF90-AP09-D16-C15-L150-2	16	2	15	150	25	8.8			
NPDF90-AP09-D16-W16-L150-2R	16	2	16	150	25	8.8			
NPDF90-AP09-D16-C16-L200-2R	16	2	16	200	100	8.8			
NPDF90-AP09-D17-C16-L150-2	17	2	16	150	25	8.8	APKT09T3..	TDA-014	LLT-8
NPDF90-AP09-D17-C16-L180-2R	17	2	16	180	25	8.8			
NPDF90-AP09-D20-C20-L150-3R	20	3	20	150	50	8.8			
NPDF90-AP09-D20-C20-L200-3R	20	3	20	200	100	8.8			
NPDF90-AP09-D20-C20-L250-2R	20	2	20	250	150	8.8			
NPDF90-AP09-D21-C20-L150-3	21	3	20	150	25	8.8			
NPDF90-AP09-D26-C25-L150-4	26	4	25	150	30	8.8			

Portaherramientas de fresado 90º - AP..1003

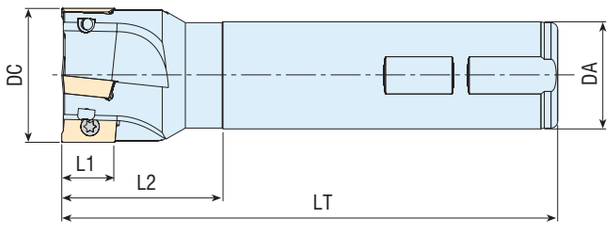




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-AP10-D10-C10-L100-1	10	1	10	100	20	10	AP..1003..	TDA-013	LLT-8
NPDF90-AP10-D12-C16-L100-1R	12	1	16	100	30	10			
NPDF90-AP10-D12-W16-L100-1R	12	1	16	100	30	10			
NPDF90-AP10-D12-W16-L150-1	12	1	16	150	38	10			
NPDF90-AP10-D14-W16-L100-1R	14	1	16	100	30	10			
NPDF90-AP10-D14-W16-L150-1	14	1	16	150	38	10			
NPDF90-AP10-D16-C16-L100-2R	16	2	16	100	30	10			
NPDF90-AP10-D16-W16-L100-2R	16	2	16	100	30	10			
NPDF90-AP10-D16-W16-L200-2	16	2	16	200	100	10			
NPDF90-AP10-D16-C16-L120-2R	16	2	16	120	30	10			
NPDF90-AP10-D16-C16-L150-2	16	2	16	150	50	10			
NPDF90-AP10-D16-C16-L150-2R	16	2	16	150	50	10			
NPDF90-AP10-D16-W16-L150-2	16	2	16	150	50	10			
NPDF90-AP10-D16-C16-L200-2	16	2	16	200	100	10			
NPDF90-AP10-D16-C16-L200-2R	16	2	16	200	100	10			
NPDF90-AP10-D16-C16-L250-2	16	2	16	250	150	10			
NPDF90-AP10-D18-W16-L100-2R	18	2	16	100	30	10			
NPDF90-AP10-D18-W16-L150-2	18	2	16	150	30	10			
NPDF90-AP10-D20-C20-L100-3R	20	3	20	100	30	10			
NPDF90-AP10-D20-W20-L100-3R	20	3	20	100	30	10			
NPDF90-AP10-D20-C20-L120-3R	20	3	20	120	30	10			
NPDF90-AP10-D20-C20-L150-3	20	3	20	150	50	10			
NPDF90-AP10-D20-C20-L150-3R	20	3	20	150	50	10			
NPDF90-AP10-D20-W20-L150-3	20	3	20	150	50	10			
NPDF90-AP10-D20-C20-L200-2	20	2	20	200	100	10			
NPDF90-AP10-D20-C20-L200-3R	20	3	20	200	100	10			
NPDF90-AP10-D20-C20-L250-2	20	2	20	250	150	10			
NPDF90-AP10-D20-C20-L250-2R	20	2	20	250	150	10	AP..1003..	TDA-014	LLT-8
NPDF90-AP10-D21-C20-L200-3	21	3	20	200	30	10			
NPDF90-AP10-D21-W20-L150-3	21	3	20	150	30	10			
NPDF90-AP10-D22-W20-L100-3R	22	3	20	100	30	10			
NPDF90-AP10-D22-W20-L150-3	22	3	20	150	30	10			
NPDF90-AP10-D23-W20-L150-3	23	3	20	150	30	10			
NPDF90-AP10-D24-W20-L150-3	24	3	20	150	30	10			
NPDF90-AP10-D25-W25-L100-4R	25	4	25	100	30	10			
NPDF90-AP10-D25-C25-L100-3R	25	3	25	100	30	10			
NPDF90-AP10-D25-W25-L100-3R	25	3	25	100	30	10			
NPDF90-AP10-D25-C25-L120-3R	25	3	25	120	30	10			
NPDF90-AP10-D25-C25-L150-3	25	3	25	150	50	10			
NPDF90-AP10-D25-W25-L150-3	25	3	25	150	50	10			
NPDF90-AP10-D25-C25-L200-2	25	2	25	200	100	10			
NPDF90-AP10-D25-C25-L200-3	25	3	25	200	100	10			
NPDF90-AP10-D25-C25-L250-2	25	2	25	250	100	10			
NPDF90-AP10-D30-C25-L100-4R	30	5	25	100	30	10	AP..1003..	TDA-014	LLT-8
NPDF90-AP10-D30-C25-L120-4R	30	5	25	120	30	10			
NPDF90-AP10-D30-C25-L150-4	30	5	25	150	30	10			
NPDF90-AP10-D32-C25-L100-4R	32	5	25	100	35	10			
NPDF90-AP10-D32-C25-L120-4R	32	5	25	120	35	10			
NPDF90-AP10-D32-C25-L150-4	32	5	25	150	35	10			
NPDF90-AP10-D32-W25-L150-4	32	5	25	150	35	10			
NPDF90-AP10-D32-C32-L130-5	32	5	32	130	30	10			
NPDF90-AP10-D32-W32-L150-4	32	5	32	150	50	10			
NPDF90-AP10-D40-W32-L150-5	40	5	32	150	40	10			

Portaherramientas de fresado 90º - AP..11T3.. /

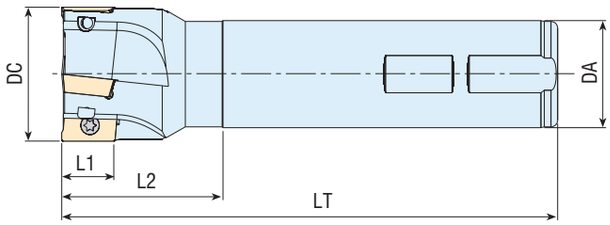




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-AP11-D16-C16-L150-2	16	2	16	150	50	11	AP..11T3..	TDA-014	LLT-8
NPDF90-AP11-D16-C16-L150-2R	16	2	16	150	50	11			
NPDF90-AP11-D16-W16-L150-2	16	2	16	150	50	11			
NPDF90-AP11-D16-W16-L150-2R	16	2	16	150	50	11			
NPDF90-AP11-D16-C16-L200-2	16	2	16	200	100	11			
NPDF90-AP11-D17-C16-L150-2	17	2	16	150	30	11			
NPDF90-AP11-D17-C16-L200-2	17	2	16	200	30	11			
NPDF90-AP11-D20-C20-L150-3	20	3	20	150	50	11			
NPDF90-AP11-D20-W20-L150-3	20	3	20	150	50	11			
NPDF90-AP11-D20-W20-L150-3R	20	3	20	150	50	11			
NPDF90-AP11-D20-C20-L200-3	20	3	20	200	100	11			
NPDF90-AP11-D21-C20-L150-3	21	3	20	150	30	11			
NPDF90-AP11-D21-W20-L150-3	21	3	20	150	30	11			
NPDF90-AP11-D21-W20-L150-3R	21	3	20	150	30	11			
NPDF90-AP11-D21-C20-L200-3	21	3	20	200	30	11			
NPDF90-AP11-D25-C25-L150-3	25	3	25	150	50	11			
NPDF90-AP11-D25-W25-L150-3	25	3	25	150	50	11			
NPDF90-AP11-D25-W25-L150-3R	25	3	25	150	50	11			
NPDF90-AP11-D26-C25-L150-3	26	3	25	150	35	11			
NPDF90-AP11-D26-C24-L150-3	26	3	24	150	35	11			
NPDF90-AP11-D32-W25-L150-4	32	4	25	150	35	11			
NPDF90-AP11-D32-W32-L150-3R	32	3	32	150	50	11			
NPDF90-AP11-D32-W32-L150-4	32	4	32	150	50	11			
NPDF90-AP1204-D20-C20-L150-2	20	2	20	150	30	12	APM..1204..	TDA-043	LLT-10
NPDF90-AP1204-D21-C20-L150-2	21	2	20	150	30	12			
NPDF90-AP1204-D21-C20-L200-2	21	2	20	200	30	12	APM..1204..	TDA-044	LLT-10
NPDF90-AP1204-D25-C25-L150-3	25	3	25	150	40	12			
NPDF90-AP1204-D26-C25-L250-2	26	2	25	250	35	12			
NPDF90-AP1204-D32-C25-L150-3	32	5	25	150	35	12			

Portaherramientas de fresado 90º - AP..1604.. / AP..1705..

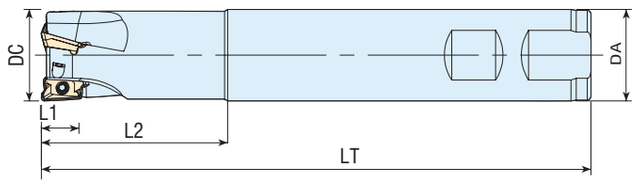




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-AP16-D25-C20-L100-2	25	2	20	100	35	16	AP..1604..	TDA-064	LLT-15
NPDF90-AP16-D25-W25-L100-2R	25	2	25	100	35	16			
NPDF90-AP16-D25-W25-L150-2	25	2	25	150	50	16			
NPDF90-AP16-D25-C25-L250-2	25	2	25	250	100	16			
NPDF90-AP16-D28-W25-L100-3R	28	3	25	100	40	16			
NPDF90-AP16-D28-W25-L150-3	28	3	25	150	40	16			
NPDF90-AP16-D30-W25-L110-3R	30	3	25	110	40	16			
NPDF90-AP16-D30-W25-L150-2	30	2	25	150	40	16			
NPDF90-AP16-D30-W25-L150-3	30	3	25	150	40	16			
NPDF90-AP16-D32-W32-L110-3R	32	3	32	110	40	16			
NPDF90-AP16-D32-C32-L150-3	32	3	32	150	50	16			
NPDF90-AP16-D32-W25-L150-3	32	3	25	150	40	16			
NPDF90-AP16-D32-W32-L150-3	32	3	32	150	50	16			
NPDF90-AP16-D32-W32-L150-3R	32	3	32	150	50	16			
NPDF90-AP16-D32-C25-L200-3R	32	3	25	200	40	16			
NPDF90-AP16-D32-C32-L250-2	32	2	32	250	100	16			
NPDF90-AP16-D32-C32-L250-3	32	3	32	250	100	16			
NPDF90-AP16-D35-W32-L150-3	35	3	32	150	40	16			
NPDF90-AP16-D36-W32-L110-3R	36	3	32	110	40	16			
NPDF90-AP16-D36-W32-L150-3	36	3	32	150	40	16			
NPDF90-AP16-D40-W32-L110-4R	40	4	32	110	40	16			
NPDF90-AP16-D40-C32-L150-4	40	4	32	150	40	16			
NPDF90-AP16-D40-W32-L150-4	40	4	32	150	40	16			
NPDF90-AP16-D40-C32-L250-2	40	2	32	250	40	16			
NPDF90-AP16-D40-C32-L250-4	40	4	32	250	40	16			
NPDF90-AP1705-D25-C25-L120-2	25	2	25	120	40	16	AP..1705..	TDA-064	LLT-15
NPDF90-AP1705-D26-C25-L200-2	26	2	25	200	40	16			
NPDF90-AP1705-D26-C25-L250-2	26	2	25	250	40	16			
NPDF90-AP1705-D26-C25-L300-2	26	2	25	300	40	16			
NPDF90-AP1705-D28-W25-L075-2	28	2	25	75	20	16			
NPDF90-AP1705-D32-C25-L150-3	32	3	25	150	40	16			
NPDF90-AP1705-D33-C32-L250-3	33	3	32	250	40	16			
NPDF90-AP1705-D33-C32-L300-2	33	2	32	300	40	16			

Portaherramientas de fresado 90º - AO..1236..

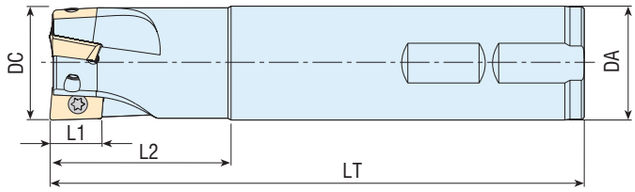




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-AO1236-D16-C16-L85-2R	16	2	16	85	30	12	AO..1236..	TDA-014	LLT-8
NPDF90-AO1236-D16-W16-L150-2	16	2	16	150	50	10			
NPDF90-AO1236-D20-C20-L100-2R	20	2	20	100	30	12			
NPDF90-AO1236-D20-C20-L100-2	20	2	20	100	30	10			
NPDF90-AO1236-D25-C25-L115-2	25	2	25	150	50	10			
NPDF90-AO1236-D25-C25-L115-2R	25	2	25	150	50	10			
NPDF90-AO1236-D25-W25-L150-3	25	3	25	150	50	10			
NPDF90-AO1236-D32-W32-L150-4	32	4	32	150	50	10			

Portaherramientas de fresado 90º - AX..0602 / AX..0903

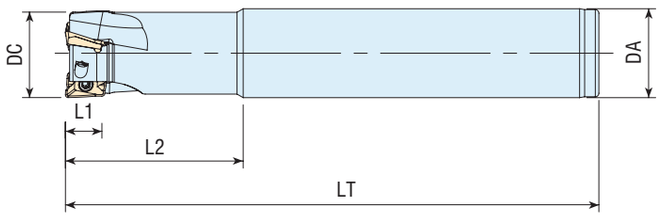




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-AX0602-D10-C09-L120-2	10	2	9	120	20	5.7	AX..0602	TDA-002	LLT-6
NPDF90-AX0602-D10-C10-L080-2	10	2	10	80	20	5.7			
NPDF90-AX0602-D10-C10-L120-2	10	2	10	120	20	5.7			
NPDF90-AX0602-D12-C11-L120-2	12	2	11	120	20	5.7			
NPDF90-AX0602-D12-C12-L080-2	12	2	12	80	20	5.7			
NPDF90-AX0602-D12-C12-L120-2	12	2	12	120	20	5.7			
NPDF90-AX0602-D14-C12-L120-3	14	3	12	120	20	5.7			
NPDF90-AX0602-D16-W16-L120-4R	16	4	16	120	20	5.7			
NPDF90-AX0602-D16-W16-L150-4R	16	4	16	150	20	5.7			
NPDF90-AX0602-D20-W20-L120-5R	20	5	20	120	25	5.7			
NPDF90-AX0602-D20-W20-L150-5R	20	5	20	150	25	5.7			
NPDF90-AX0903-D16-C16-L120-2	16	2	16	120	30	8.8	AX..0903	TDA-013	LLT-8
NPDF90-AX0903-D16-C16-L180-2	16	2	16	180	30	8.8			
NPDF90-AX0903-D17-C16-L120-2	17	2	16	120	25	8.8			
NPDF90-AX0903-D17-C16-L180-2	17	2	16	180	25	8.8			
NPDF90-AX0903-D20-C20-L120-3	20	3	20	120	30	8.8	AX..0903	TDA-014	LLT-8
NPDF90-AX0903-D20-C20-L200-2	20	2	20	200	30	8.8			
NPDF90-AX0903-D21-C20-L120-3	21	3	20	120	25	8.8			
NPDF90-AX0903-D21-C20-L200-2	21	2	20	200	25	8.8			
NPDF90-AX0903-D25-C25-L150-3	25	3	25	150	30	8.8			
NPDF90-AX0903-D25-C25-L250-2	25	2	25	250	40	8.8			
NPDF90-AX0903-D26-C25-L150-3	26	3	25	150	30	8.8			

Portaherramientas de fresado 90º - AX.T1235..

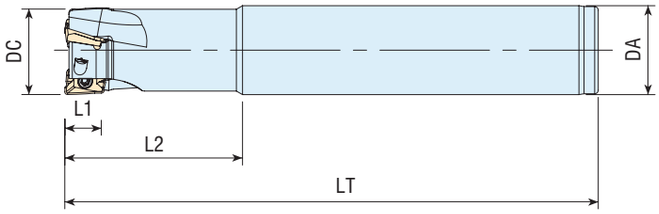




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-AX1235-D16-C14-L120-2R	16	2	14	120	25	10	AX.T1235..	TDA-025	LLT-8
NPDF90-AX1235-D16-C15-L145-2R	16	2	15	145	30	10		TDA-028	LLT-8
NPDF90-AX1235-D16-C16-L100-2R	16	2	16	100	30	10		TDA-028	LLT-8
NPDF90-AX1235-D16-C16-L140-2R	16	2	16	140	30	10		TDA-025	LLT-8
NPDF90-AX1235-D16-C16-L145-2R	16	2	16	145	30	10		TDA-028	LLT-8
NPDF90-AX1235-D16-C16-L150-2	16	2	16	150	30	10		TDA-025	LLT-8
NPDF90-AX1235-D20-C19-L150-2R	20	2	19	150	40	10		TDA-028	LLT-8
NPDF90-AX1235-D20-C20-L110-3R	20	3	20	110	40	10		TDA-028	LLT-8
NPDF90-AX1235-D20-C20-L150-2	20	2	20	150	40	10		TDA-025	LLT-8
NPDF90-AX1235-D20-C20-L150-2R	20	2	20	150	40	10		TDA-025	LLT-8
NPDF90-AX1235-D20-C20-L150-3	20	3	20	150	40	10		TDA-025	LLT-8

Portaherramientas de fresado 90º - AX.T1235.. / AX.T1705..

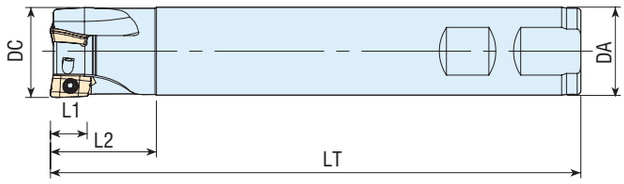




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-AX1235-D25-C20-L120-4R	25	4	20	120	30	10	AX.T1235..	TDA-025	LLT-8
NPDF90-AX1235-D25-C20-L150-4R	25	4	20	150	30	10		TDA-025	LLT-8
NPDF90-AX1235-D25-C24-L170-2R	25	2	24	170	50	10		TDA-025	LLT-8
NPDF90-AX1235-D25-C25-L120-4R	25	4	25	120	40	10		TDA-025	LLT-8
NPDF90-AX1235-D25-C25-L150-3	25	3	25	150	50	10		TDA-028	LLT-8
NPDF90-AX1235-D25-C25-L170-2R	25	2	25	170	50	10		TDA-028	LLT-8
NPDF90-AX1235-D25-W25-L100-4R	25	4	25	100	30	10		TDA-028	LLT-8
NPDF90-AX1235-D32-C32-L130-5R	32	5	32	130	40	10		TDA-028	LLT-8
NPDF90-AX1235-D32-C32-L180-2R	32	2	32	180	50	10		TDA-028	LLT-8
NPDF90-AX1705-D25-C25-L150-2	25	2	25	150	50	14	A.XT1705..	TDA-064	LLT-15
NPDF90-AX1705-D28-W25-L115-2R	28	2	25	115	35	14			
NPDF90-AX1705-D32-C32-L150-3	32	3	32	150	50	14			
NPDF90-AX1705-D32-C32-L180-2R	32	2	32	180	50	14			

Portaherramientas de fresado 90º - AZGT1135..

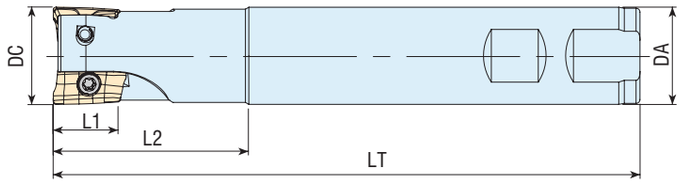




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-AZ11-D12-W16-L90-1	12	1	16	90	30	11	AZGT1135..	TDA-013	LLT-8
NPDF90-AZ11-D16-C16-L200-2	16	2	16	200	100	11			
NPDF90-AZ11-D16-W15-L170-2	16	2	15	170	50	11			
NPDF90-AZ11-D16-W16-L100-2	16	2	16	100	35	11			
NPDF90-AZ11-D16-W16-L150-2	16	2	16	150	50	11			
NPDF90-AZ11-D17-C16-L150-2	17	2	16	150	30	11			
NPDF90-AZ11-D17-C16-L180-2	17	2	16	180	50	11			
NPDF90-AZ11-D17-W16-L100-2	17	2	16	100	30	11			
NPDF90-AZ11-D18-W16-L120-2	18	2	16	120	18	11			
NPDF90-AZ11-D20-C20-L200-3	20	3	20	200	100	11	AZGT1135..	TDA-014	LLT-8
NPDF90-AZ11-D20-W19-L170-3	20	3	19	170	50	11			
NPDF90-AZ11-D20-W20-L110-2	20	2	20	110	35	11			
NPDF90-AZ11-D21-C20-L150-3	21	3	20	150	30	11			
NPDF90-AZ11-D21-C20-L180-3	21	3	20	180	50	11			
NPDF90-AZ11-D21-W20-L110-3	21	3	20	110	35	11			
NPDF90-AZ11-D22-C20-L150-2	22	2	20	150	30	11			
NPDF90-AZ11-D25-C24-L180-4	25	4	24	180	50	11			
NPDF90-AZ11-D25-W25-L110-4	25	4	25	110	40	11			
NPDF90-AZ11-D26-C25-L250-2	26	2	25	250	50	11			
NPDF90-AZ11-D26-W25-L120-3	26	3	25	120	30	11			
NPDF90-AZ11-D26-W25-L120-4	26	4	25	120	40	11			
NPDF90-AZ11-D28-C25-L180-3	28	3	25	180	50	11			
NPDF90-AZ11-D28-C25-L250-2	28	2	25	250	50	11			
NPDF90-AZ11-D33-W32-L130-4	33	4	32	130	50	11			

Portaherramientas de fresado 90º - BDMT11T3 / BDMT1704

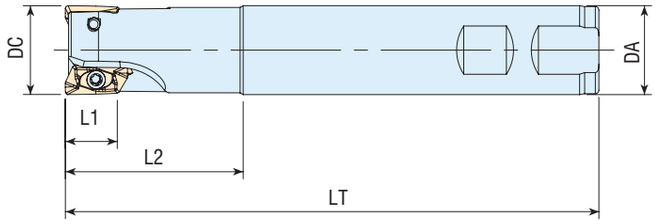




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-BD11T3-D16-C16-L100-2R	16	2	16	100	30	10	BDMT11T3..	TDA-013	LLT-8
NPDF90-BD11T3-D16-W16-L100-2R	16	2	16	100	30	10			
NPDF90-BD11T3-D16-W16-L150-2	16	2	16	150	50	10			
NPDF90-BD11T3-D16-C16-L160-2R	16	2	16	160	50	10			
NPDF90-BD11T3-D16-C15-L180-2	16	2	15	180	50	10			
NPDF90-BD11T3-D17-W16-L150-2	17	2	16	150	25	10			
NPDF90-BD11T3-D17-C16-L180-2	17	2	16	180	25	10			
NPDF90-BD11T3-D18-W16-L100-2	18	2	16	100	25	10			
NPDF90-BD11T3-D18-W16-L100-2R	18	2	16	100	25	10			
NPDF90-BD11T3-D20-W20-L81-3R	20	3	20	81	30	10	BDMT11T3..	TDA-014	LLT-8
NPDF90-BD11T3-D20-W20-L100-2R	20	2	20	100	30	10			
NPDF90-BD11T3-D20-W20-L100-3R	20	3	20	100	30	10			
NPDF90-BD11T3-D20-C20-L110-3R	20	3	20	110	30	10			
NPDF90-BD11T3-D20-W20-L150-2	20	2	20	150	50	10			
NPDF90-BD11T3-D20-W20-L150-3	20	3	20	150	50	10			
NPDF90-BD11T3-D20-W20-L150-3R	20	3	20	150	50	10			
NPDF90-BD11T3-D20-C20-L170-3R	20	3	20	170	50	10			
NPDF90-BD11T3-D21-W20-L150-3	21	3	20	150	25	10			
NPDF90-BD11T3-D21-C20-L200-2	21	2	20	200	25	10			
NPDF90-BD11T3-D22-W20-L090-2R	22	2	20	90	25	10			
NPDF90-BD11T3-D25-W25-L100-3R	25	3	25	100	30	10			
NPDF90-BD11T3-D25-C20-L120-3R	25	3	20	120	30	10			
NPDF90-BD11T3-D25-C25-L120-3R	25	3	25	120	30	10			
NPDF90-BD11T3-D25-W25-L150-3	25	3	25	150	50	10			
NPDF90-BD11T3-D26-W25-L150-3	26	3	25	150	35	10			
NPDF90-BD11T3-D26-C25-L250-2	26	2	25	250	35	10			
NPDF90-BD11T3-D32-W32-L110-4R	32	4	32	110	40	10			
NPDF90-BD11T3-D32-C32-L130-4R	32	4	32	130	40	10			
NPDF90-BD11T3-D32-W32-L150-4	32	4	32	150	50	10			
NPDF90-BD11T3-D40-W32-L110-4R	40	4	32	110	35	10			
NPDF90-BD1704-D25-W25-L100-2R	25	2	25	100	35	15.7	BDMT1704..	TDA-063	LLT-15
NPDF90-BD1704-D25-W25-L150-2	25	2	25	150	50	15.7			
NPDF90-BD1704-D25-C25-L210-2R	25	2	25	210	100	15.7			
NPDF90-BD1704-D32-W32-L110-3R	32	3	32	110	40	15.7			
NPDF90-BD1704-D32-C32-L130-3R	32	3	32	130	40	15.7			
NPDF90-BD1704-D32-W32-L130-3R	32	3	32	130	40	15.7			
NPDF90-BD1704-D32-W32-L150-3	32	3	32	150	50	15.7			
NPDF90-BD1704-D40-W32-L110-4R	40	4	32	110	40	15.7			
NPDF90-BD1704-D40-W32-L150-4	40	4	32	150	40	15.7			

Portaherramientas de fresado 90º - EDPT10T3.. / EDPT1404..

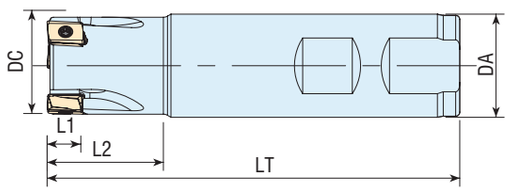




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-ED10T3-D16-W16-L120-2	16	2	16	120	30	30	EDP10T3..	TDA-013	LLT-8
NPDF90-ED10T3-D20-W20-L120-2	20	2	20	120	30	30		TDA-014	
NPDF90-ED1404-D20-W20-L150-2	20	2	20	150	50	14.5	EDPT1404..	TDA-025	LLT-8
NPDF90-ED1404-D25-W25-L150-2	25	2	25	150	50	14.5			
NPDF90-ED1404-D30-C25-L150-3	30	3	25	150	50	14.5			

Portaherramientas de fresado 90º - LNMT0804..

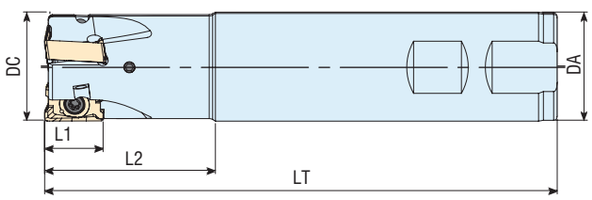




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-LN08-D16-W16-L100-2R	16	2	16	100	28	8	LNMT0804..	TDA-094	LLT-8
NPDF90-LN08-D16-W16-L150-2	16	2	16	150	40	8			
NPDF90-LN08-D20-W20-L100-3R	20	3	20	100	28	8	LNMT0804..	TDA-094	LLT-8
NPDF90-LN08-D25-W25-L100-3R	20	3	25	100	30	8	LNMT0804..	TDA-096	LLT-8
NPDF90-LN08-D32-W32-L110-5R	25	5	32	110	30	8			

Portaherramientas de fresado 90º - LNGU15T6

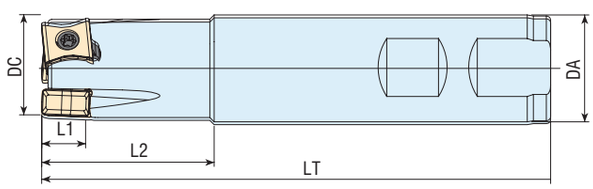




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-LN15T6-D25-W25-L150-2R	25	2	25	150	50	15.5	LNGU15T6..	TDA-067	LLT-15
NPDF90-LN15T6-D32-W32-L150-3R	32	3	32	150	50	15.5			
NPDF90-LN15T6-D40-W32-L150-3R	40	3	32	150	40	15.5			

Portaherramientas de fresado 90º - LNMT1106..

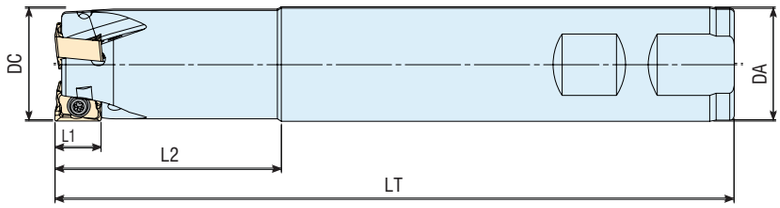




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-LN1106-D25-W25-L150-3	25	3	25	150	40	10	LNMT1106	TDA-049	LLT-15
NPDF90-LN1106-D32-W32-L150-4	32	4	32	150	40	10			
NPDF90-LN1106-D40-W32-L150-5	40	5	32	150	40	10			

Portaherramientas de fresado 90º - LN.X1006

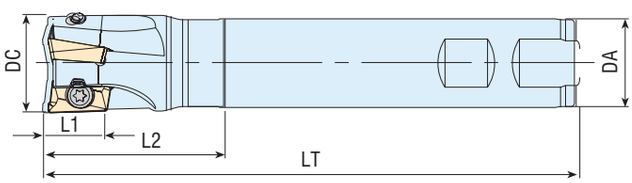




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-LN1006-D16-W16-L120-1R	16	1	16	120	30	9	LN.X1006..	TDA-032	LLT-10
NPDF90-LN1006-D16-W16-L150-1	16	1	16	150	50	9			
NPDF90-LN1006-D18-W16-L120-2R	18	2	16	120	30	9			
NPDF90-LN1006-D20-W20-L120-2R	20	2	20	120	30	9			
NPDF90-LN1006-D20-W20-L150-2	20	2	20	150	50	9			
NPDF90-LN1006-D25-W25-L120-3R	25	3	25	120	30	9			
NPDF90-LN1006-D25-W25-L150-3	25	3	25	150	50	9			
NPDF90-LN1006-D32-W32-L120-4R	32	4	32	120	30	9			
NPDF90-LN1006-D32-W32-L150-4	32	4	32	150	50	9			

Portaherramientas de fresado 90º - R390-11T3.. / R390-1704.. / R390-1806..

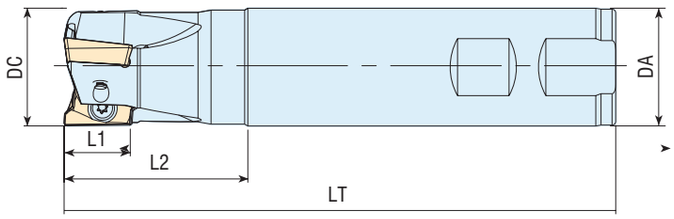




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-R390.11-D12-W12-L100-1	12	1	12	100	25	10	R390-11T3..	TDA-013	LLT-8
NPDF90-R390.11-D16-W16-L100-2R	16	2	16	100	30	10			
NPDF90-R390.11-D16-W16-L150-2	16	2	16	150	50	10			
NPDF90-R390.11-D16-W16-L150-2R	16	2	16	150	50	10			
NPDF90-R390.11-D20-W20-L090-2R	20	2	20	90	30	10			
NPDF90-R390.11-D20-W20-L100-3R	20	3	20	100	30	10			
NPDF90-R390.11-D20-W20-L150-3	20	3	20	150	50	10	R390-11T3..	TDA-014	LLT-8
NPDF90-R390.11-D20-W20-L150-3R	20	3	20	150	50	10			
NPDF90-R390.11-D20-C20-L150-3	20	3	20	150	30	10			
NPDF90-R390.11-D22-W20-L090-2R	22	2	20	90	30	10			
NPDF90-R390.11-D25-C20-L150-3	25	3	20	150	40	10			
NPDF90-R390.11-D25-W25-L100-3R	25	3	25	100	30	10			
NPDF90-R390.11-D25-W25-L150-3	25	3	25	150	50	10			
NPDF90-R390.11-D25-W25-L150-3R	25	3	25	150	50	10			
NPDF90-R390.11-D30-W25-L150-4R	30	4	25	150	30	10			
NPDF90-R390.11-D32-C25-L200-3	32	3	25	200	40	10			
NPDF90-R390.11-D32-W32-L150-5R	32	5	32	150	50	10			
NPDF90-R390.17-D25-W25-L150-2	25	2	25	150	50	15.4	R390-1704..	TDA-046	LLT-15
NPDF90-R390.17-D25-W25-L150-2R	25	2	25	150	50	15.4		TDA-046	
NPDF90-R390.17-D30-W25-L150-3	30	3	25	150	40	15.4		TDA-046	
NPDF90-R390.17-D30-W25-L150-3R	30	3	25	150	40	15.4		TDA-047	
NPDF90-R390.17-D32-W32-L150-3R	32	3	32	150	40	15.4		TDA-047	
NPDF90-R390.18-D32-C32-L150-3	32	3	32	150	45	15.4	R390-1806..	TDA-066	LLT-15

Portaherramientas de fresado 90º - RT0702 / RT1003 / RT1606

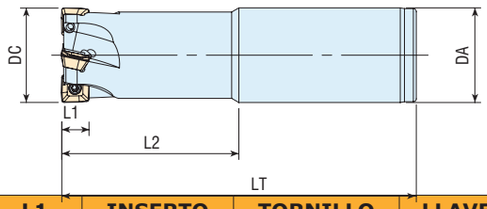




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-RT07-D10-W10-L120-2	10	2	10	120	30	7	RT0702	TDA-006	LLT-6
NPDF90-RT07-D12-C12-L120-2	12	2	12	120	30	7			
NPDF90-RT07-D12-W12-L120-2	12	2	12	120	30	7			
NPDF90-RT07-D14-W12-L120-2	14	2	12	120	30	7			
NPDF90-RT10-D16-C15-L160-2	16	2	15	160	30	10	RT1003	TDA-014	LLT-8
NPDF90-RT10-D16-W16-L120-2R	16	2	16	120	30	10			
NPDF90-RT10-D16-W16-L150-2	16	2	16	150	30	10			
NPDF90-RT10-D16-C16-L200-2	16	2	16	200	100	10			
NPDF90-RT10-D17-W16-L160-2	17	2	16	160	30	10			
NPDF90-RT10-D17-C16-L200-2	17	2	16	200	30	10			
NPDF90-RT10-D18-W16-L120-2R	18	2	16	120	30	10			
NPDF90-RT10-D20-C19-L200-3	20	3	19	200	30	10			
NPDF90-RT10-D20-C20-L110-3	20	3	20	110	30	10			
NPDF90-RT10-D20-W20-L120-3R	20	3	20	120	30	10			
NPDF90-RT10-D20-W20-L150-3	20	3	20	150	50	10			
NPDF90-RT10-D20-C20-L200-3	20	3	20	200	100	10			
NPDF90-RT10-D21-W20-L200-3	21	3	20	200	30	10			
NPDF90-RT10-D22-W20-L120-3R	22	3	20	120	30	10			
NPDF90-RT10-D22-C20-L150-3	22	3	20	150	30	10			
NPDF90-RT10-D22-C20-L200-3	22	3	20	200	30	10			
NPDF90-RT10-D25-W25-L120-4R	25	4	25	120	40	10			
NPDF90-RT10-D25-W25-L150-4	25	4	25	150	50	10			
NPDF90-RT10-D25-C25-L200-4	25	4	25	200	100	10			
NPDF90-RT10-D26-C25-L250-4	26	4	25	250	32	10			
NPDF90-RT10-D32-W32-L120-5R	32	5	32	120	50	10			
NPDF90-RT10-D32-W32-L150-5	32	5	32	150	50	10			
NPDF90-RT10-D32-C32-L200-5	32	5	32	200	100	10			
NPDF90-RT10-D33-C32-L250-4	33	4	32	250	32	10			
NPDF90-RT16-D25-W25-L120-2R	25	2	25	120	40	16	RT1606	TDA-064	LLT-15
NPDF90-RT16-D25-W25-L150-2	25	2	25	150	50	16			
NPDF90-RT16-D25-C25-L200-2	25	2	25	200	100	16			
NPDF90-RT16-D32-W32-L120-3R	32	3	32	120	50	16			
NPDF90-RT16-D32-W32-L150-3	32	3	32	150	50	16			
NPDF90-RT16-D32-C32-L200-3	32	3	32	200	100	16			
NPDF90-RT16-D32-C32-L250-3	32	3	32	250	100	16			
NPDF90-RT16-D32-C32-L270-3	32	3	32	270	100	16			
NPDF90-RT16-D40-W32-L120-4R	40	4	32	120	50	16		TDA-066	LLT-15
NPDF90-RT16-D40-W32-L150-4	40	4	32	150	50	16			
NPDF90-RT16-D40-C32-L200-4	40	4	32	200	100	16			

Portaherramientas de fresado 90º - SEET09T3..

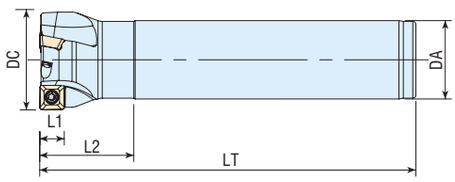




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-SE09-D25-C25-L120-3R	25	3	25	120	60	6.7	SEET 09T3..	TDA-027	LLT-8
NPDF90-SE09-D25-C25-L150-2	25	2	25	150	50	6.7			
NPDF90-SE09-D32-C32-L120-4R	32	4	32	120	60	6.7			
NPDF90-SE09-D32-C32-L150-3	32	3	32	150	50	6.7			

Portaherramientas de fresado 90º - SOMT0803..

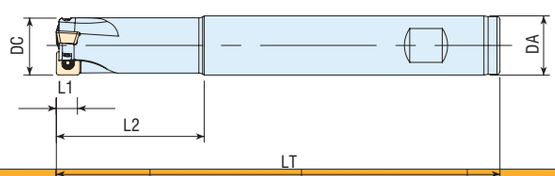




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-SOMT08-D20-C16-L110-2R	20	2	16	110	25	7	SOMT0803..	TDA-027	LLT-8
NPDF90-SOMT08-D25-C20-L110-2R	25	2	20	110	25	7			
NPDF90-SOMT08-D32-C25-L120-3R	32	3	25	120	30	7			

Portaherramientas de fresado 90º - SPGT..

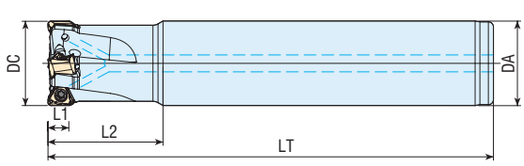




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-SPGT0602-D16-W16-L150-2	16	2	16	150	50	5.5	SPGT060204	TDA-008	LLT-7
NPDF90-SPGT07T3-D20-W20-L150-3	20	3	20	150	50	7	SPGT07T308	TDA-014	LLT-8
NPDF90-SPGT07T3-D25-W25-L150-3	25	3	25	150	50	7			
NPDF90-SPGT0904-D30-W32-L150-3	30	3	32	150	50	9	SPGT090408	TDA-047	LLT-15

Portaherramientas de fresado 90º - TNGX1004..

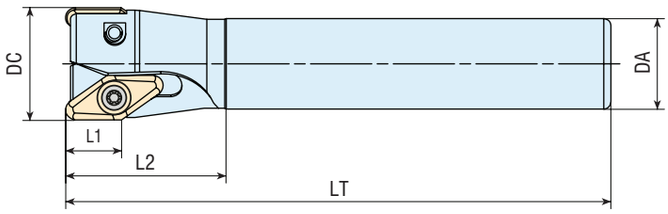




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-TNG10-D20-C20-L125-2R	20	2	20	125	29	5	TNGX1004..	TDA-014	LLT-8
NPDF90-TNG10-D20-C20-L125-3R	20	3	20	125	29	5			
NPDF90-TNG10-D20-C20-L150-3R	20	3	20	150	50	5			
NPDF90-TNG10-D21-C20-L200-3R	21	3	20	200	30	5			
NPDF90-TNG10-D25-C25-L150-3R	25	3	25	150	34	5			
NPDF90-TNG10-D25-C25-L150-4R	25	4	25	150	34	5			
NPDF90-TNG10-D25-C25-L170-4R	25	4	25	170	50	5			
NPDF90-TNG10-D26-C25-L250-4R	26	4	25	250	35	5			
NPDF90-TNG10-D32-C32-L170-4R	32	4	32	170	37	5			
NPDF90-TNG10-D32-C32-L170-5R	32	5	32	170	37	5			
NPDF90-TNG10-D33-C32-L250-5R	33	5	32	250	35				

Portaherramientas de fresado 90º - VCKT2205..

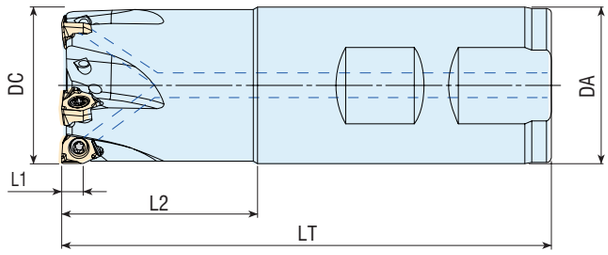




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-VC2205-D32-C25-L150-2R	32	2	25	150	50	15	VCKT2205..	TDA-077	LLT-15
NPDF90-VC2205-D40-C32-L150-3R	40	3	32	150	50	15			

Portaherramientas de fresado 90º - WNGU0403 / WNGU0806

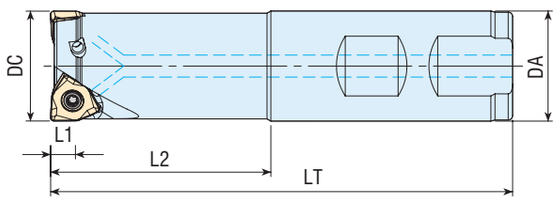




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-WNG04-D20-W20-L81-3R	20	3	20	81	31	4	WNGU0403..	TDA-014	LLT-8
NPDF90-WNG04-D20-C20-L170-3R	20	3	20	170	50	4			
NPDF90-WNG04-D25-W25-L88-3R	25	3	25	88	32	4			
NPDF90-WNG04-D25-W25-L88-4R	25	4	25	88	32	4			
NPDF90-WNG04-D25-C25-L170-3R	25	3	25	170	50	4			
NPDF90-WNG04-D32-W25-L100-5R	32	5	25	100	35	4			
NPDF90-WNG04-D32-W32-L100-5R	32	5	32	100	40	4			
NPDF90-WNG04-D32-C25-L170-4R	32	4	25	170	35	4			
NPDF90-WNG04-D32-C32-L170-4R	32	4	32	170	50	4			
NPDF90-WNG08-D40-W32-L100-3R	40	3	32	100	35	7.5	WNGU0806..	TDA-066	LLT-15
NPDF90-WNG08-D40-C32-L170-3R	40	3	32	170	35	7.5			

Portaherramientas de fresado 90º - WNHU0604..

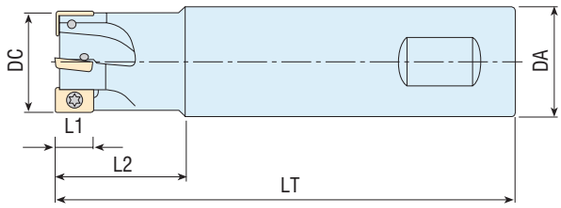




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-WNHU06-D25-W25-L150-2R	25	2	25	150	50	5.7	WNGU0403..	TDA-014	LLT-8
NPDF90-WNHU06-D32-W32-L150-3R	32	3	32	150	50	5.7			
NPDF90-WNHU06-D40-W32-L150-4R	40	4	32	150	35	5.7			

Portaherramientas de fresado 90º - XD.T11T3..

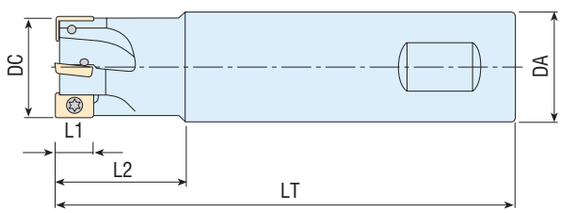




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-XD11T3-D16-W16-L150-2	16	2	16	150	30	10	XD.T11T3..	TDA-013	LLT-8
NPDF90-XD11T3-D17-C16-L150-2	17	2	16	150	30	10			
NPDF90-XD11T3-D20-W20-L150-3	20	3	20	150	50	10		TDA-014	LLT-8
NPDF90-XD11T3-D21-C20-L080-3R	21	3	20	80	25	10			
NPDF90-XD11T3-D21-C20-L150-3	21	3	20	150	30	10			
NPDF90-XD11T3-D25-W25-L150-4	25	4	25	150	50	10			
NPDF90-XD11T3-D30-W25-L120-4	30	4	25	120	30	10			
NPDF90-XD11T3-D32-W32-L150-4	32	4	32	150	50	10			
NPDF90-XD11T3-D33-C20-L080-4R	33	4	20	80	30	10			

Portaherramientas de fresado 90º - XCKX13T3

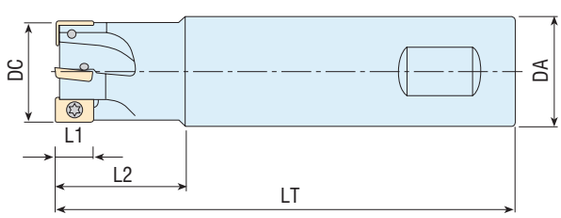




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-XC13-D20-W20-L150-2	20	2	20	150	60	13	XCKX13T3..	TDA-025	LLT-8
NPDF90-XC13-D25-W25-L150-3	25	3	25	150	60	13		TDA-027	LLT-8
NPDF90-XC13-D32-W32-L150-Z	32	4	32	150	60	13			

Portaherramientas de fresado 90º - XO..0602.. / XO..0903.. / XO..1204..

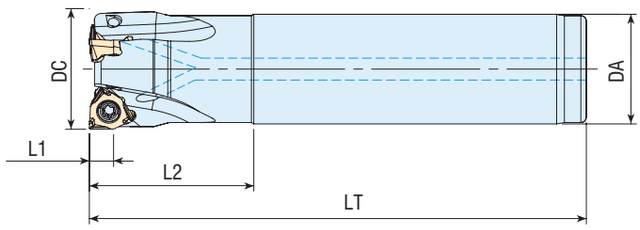




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-XO06-D10-C12-L120-2	10	2	12	120	50	5	XO..0602..	TDA-002	LLT-6
NPDF90-XO06-D12-C12-L120-2	12	2	12	120	25	5			
NPDF90-XO09-D16-W16-L150-2	16	2	16	150	50	8	XO..0903..	TDA-013	LLT-8
NPDF90-XO09-D20-W20-L150-3	20	3	20	150	50	8			
NPDF90-XO12-D20-W20-L150-2	20	2	20	150	50	11	XO..1204..	TDA-043	LLT-10
NPDF90-XO12-D20-C20-L200-2	20	2	20	200	100	11			
NPDF90-XO12-D22-W20-L150-2	22	2	20	150	30	11			
NPDF90-XO12-D25-W25-L150-3	25	3	25	150	50	11			
NPDF90-XO12-D25-C25-L200-3	25	3	25	200	100	11			
NPDF90-XO12-D32-C25-L150-4	32	4	25	150	40	11			
NPDF90-XO12-D32-W32-L150-4	32	4	32	150	50	11			
NPDF90-XO12-D32-C32-L250-4	32	4	32	250	100	11			

Portaherramientas de fresado 90º - XNEX0403.. / XNEX0806..

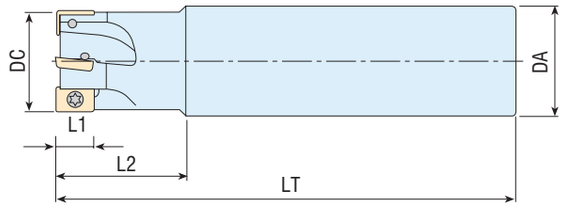




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-XN0403-D16-C16-L100-1R	16	1	16	100	30	4	XNEX0403..	TDA-014	LLT-8
NPDF90-XN0403-D22-C20-L110-3R	22	3	20	110	30	4			
NPDF90-XN0806-D32-C32-L110-2R	32	2	32	110	40	7.5	XNEX0806..	TDA-066	LLT-15

Portaherramientas de fresado 90º - ZCMT1003R

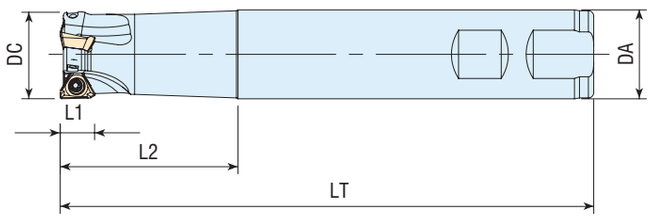




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-ZC1003-D16-C14-L150-2	16	2	14	150	25	9	ZCMT100308R	TDA-014	LLT-8
NPDF90-ZC1003-D16-C14-L200-2	16	2	14	200	25	9			
NPDF90-ZC1003-D16-C15-L150-2	16	2	15	150	25	9			
NPDF90-ZC1003-D16-C16-L150-2	16	2	16	150	25	9			
NPDF90-ZC1003-D16-C16-L200-2	16	2	16	200	50	9			
NPDF90-ZC1003-D17-C16-L150-2	17	2	16	150	25	9			
NPDF90-ZC1003-D17-C16-L200-2	17	2	16	200	25	9			
NPDF90-ZC1003-D20-C18-L150-3	20	3	18	150	25	9			
NPDF90-ZC1003-D20-C18-L200-2	20	2	18	200	25	9			
NPDF90-ZC1003-D20-C20-L150-3	20	3	20	150	40	9			
NPDF90-ZC1003-D20-C18-L200-3	20	3	18	200	25	9			
NPDF90-ZC1003-D21-C20-L150-2	21	2	20	150	30	9			
NPDF90-ZC1003-D21-C20-L150-3	21	3	20	150	30	9			
NPDF90-ZC1003-D21-C20-L200-3	21	3	20	200	30	9			
NPDF90-ZC1003-D25-C20-L150-3	25	3	20	150	30	9			
NPDF90-ZC1003-D25-C20-L200-3	25	3	20	200	30	9			
NPDF90-ZC1003-D25-C25-L150-3	25	3	25	150	40	9			
NPDF90-ZC1003-D26-C25-L170-3	26	3	25	170	25	9			
NPDF90-ZC1003-D26-C25-L200-3	26	3	25	200	25	9			
NPDF90-ZC1003-D32-C25-L180-4	32	4	25	180	30	9			
NPDF90-ZC1003-D33-C32-L200-4	33	4	32	200	25	9			

Portaherramientas de fresado 90º - 3P..0603 / 3P..1004 / 3P..1505

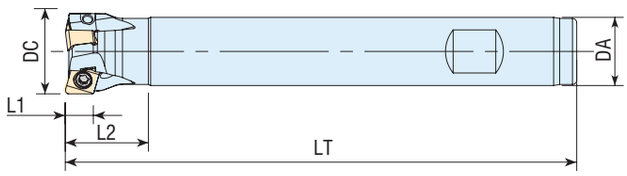




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-3P0603-D16-W16-L120-3R	16	3	16	120	25	4.7	3P.T0603..	TDA-006	LLT-6
NPDF90-3P0603-D20-W20-L150-3R	20	3	20	150	25	4.7			
NPDF90-3P0603-D25-W25-L150-5R	25	5	25	150	25	4.7			
NPDF90-3P1004-D20-W20-L150-2	20	2	20	150	40	7	3P.T1004	TDA-012	LLT-8
NPDF90-3P1004-D21-C20-L200-2	21	2	20	200	30	7			
NPDF90-3P1004-D25-W25-L150-3	25	3	25	150	40	7			
NPDF90-3P1505-D32-W32-L150-3	32	3	32	150	50	11	3P.T1505	TDA-056	LLT-15
NPDF90-3P1505-D38-W32-L150-3	38	3	32	150	35	11			
NPDF90-3P1505-D40-W32-L150-4	40	4	32	150	35	11			

Portaherramientas de fresado 90º - 4NK0603..

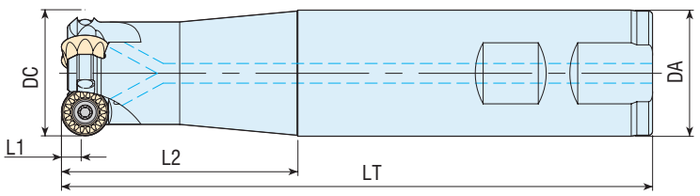




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF90-4N06-D16-W16-L120-2R	16	2	16	120	25	6	4NK0603..	TDA-024	LLT-8
NPDF90-4N06-D16-W16-L160-2	16	2	16	160	25	6			
NPDF90-4N06-D20-W16-L120-3R	20	3	16	120	20	6			
NPDF90-4N06-D20-W16-L160-3	20	3	16	160	2	6			

Portaherramientas de fresado - Placa Redonda RPMT

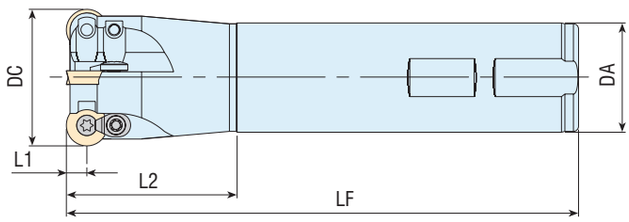




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDFC-RP08T2M-D20-W20-L150-2R	20	2	20	150	60	4	RPMT08T2..	TDA-014	LLT-8
NPDFC-RP08T2M-D25-W25-L200-3R	25	3	25	200	100	4			
NPDFC-RP10T3M-D25-W25-L200-2R	25	2	25	200	100	5	RPMT10T3..	TDA-047	LLT-15
NPDFC-RP10T3M-D32-W32-L200-3R	32	3	32	200	100	5			
NPDFC-RP1204M-D32-W32-L150-3R	32	3	32	150	60	6	RPMT1204..	TDA-064	LLT-15
NPDFC-RP1204M-D32-W32-L200-3R	32	3	32	200	100	6			
NPDFC-RP1606M-D40-W32-L150-2R	40	2	16	150	35	8	RPMT1606	TDA-081	LLT-20
NPDFC-RP1606M-D40-W32-L200-2R	40	2	16	200	35	8			

Portaherramientas de fresado - Placa Redonda RD...

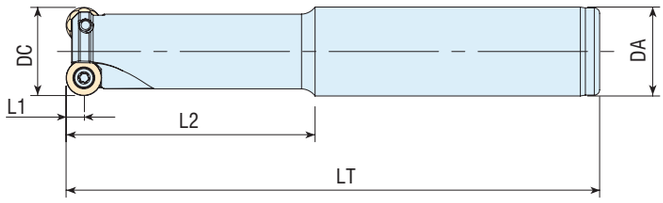




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	BRIDA	TORNILLO BRIDA	LLAVE
NPDFC-RD0501-D08-W10-L100-1R	8	1	10	100	20	2.5	RD..0501	TDA-005	-	-	LLT-6
NPDFC-RD0501-D10-W12-L100-2R	10	2	12	100	20	2.5		TDA-006	-	-	LLT-6
NPDFC-RD0501-D12-W12-L120-2R	12	2	12	120	20	2.5					
NPDFC-RD0803-D16-W16-L150-2	16	2	16	150	60	4	RD..0803	TDA-025	-	-	LLT-8
NPDFC-RD0803-D16-C20-L200-2	16	2	20	200	60	4					
NPDFC-RD0803-D20-W20-L150-3	20	3	20	150	60	4					
NPDFC-RD08T2-D16-W16-L150-2	16	2	16	150	60	4	RD..08T2	TDA-014	-	-	LLT-8
NPDFC-RD08T2-D20-W20-L150-2	20	2	20	150	60	4					
NPDFC-RD1003-D20-W20-L150-2	20	2	20	150	60	5	RD..1003	TDA-047	BDA-26	TDA-049	LLT-15
NPDFC-RD1003-D20-C20-L160-2	20	2	20	160	70	5					
NPDFC-RD1003-D20-C20-L250-2	20	2	20	250	150	5					
NPDFC-RD1003-D21-C20-L160-2	21	2	20	160	70	5					
NPDFC-RD1003-D25-W25-L150-2	25	2	25	150	60	5					
NPDFC-RD1003-D25-C25-L160-2	25	2	25	160	70	5					
NPDFC-RD1003-D25-W25-L200-2	25	2	25	200	100	5					
NPDFC-RD1003-D25-C25-L200-2	25	2	25	200	100	5					
NPDFC-RD1003-D25-C25-L250-2	25	2	25	250	150	5					
NPDFC-RD1003-D26-C25-L160-2	26	2	25	160	70	5					
NPDFC-RD1003-D32-W32-L150-3	32	3	32	150	60	5					
NPDFC-RD1003-D32-C32-L250-2	32	2	32	250	150	5					
NPDFC-RD1003-D33-C32-L160-3	33	3	32	160	70	5					
NPDFC-RD1003-D40-W32-L150-4	40	4	32	150	35	5					
NPDFC-RD1003-D40-C32-L250-2	40	2	32	250	50	5					
NPDFC-RD10T3-D20-C20-L150-2	20	2	20	150	60	5	RD..10T3	TDA-047	BDA-26	TDA-049	LLT-15
NPDFC-RD10T3-D20-W20-L150-2	20	2	20	150	60	5					
NPDFC-RD10T3-D25-C25-L150-2	25	2	25	150	60	5					
NPDFC-RD10T3-D25-C25-L200-2R	25	2	25	200	100	5					
NPDFC-RD10T3-D25-W25-L150-2	25	2	25	150	60	5					
NPDFC-RD10T3-D32-C25-L250-3R	32	3	25	250	35	5					
NPDFC-RD10T3-D32-W32-L150-3	32	3	32	150	60	5					
NPDFC-RD12T3-D25-W25-L150-2	25	2	25	150	60	6	RD..12T3	TDA-047	BDA-26	TDA-049	LLT-15
NPDFC-RD12T3-D25-W25-L200-2	25	2	25	200	100	6					
NPDFC-RD12T3-D25-C25-L250-2	25	2	25	250	150	6					
NPDFC-RD12T3-D25-C25-L300-2	25	2	25	300	200	6					
NPDFC-RD12T3-D32-W32-L150-3	32	3	32	150	60	6					
NPDFC-RD12T3-D32-C32-L250-2	32	2	32	250	150	6					
NPDFC-RD12T3-D40-W32-L150-4	40	4	32	150	50	6					
NPDFC-RD12T3-D40-C32-L250-2	40	2	32	250	50	6					
NPDFC-RD1204-D32-C32-L160-3	32	3	32	160	70	6	RD..1204	TDA-047	BDA-26	TDA-049	LLT-15
NPDFC-RD1204-D32-W32-L160-3	32	3	32	160	70	6					
NPDFC-RD1204-D33-C32-L160-3	33	3	32	160	70	6					
NPDFC-RD1604-D40-W32-L150-2	40	2	32	150	35	8	RD..1604	TDA-077	BDA-18	TDA-066	LLT-15

Portaherramientas de fresado - Placa Redonda QP..10T3 / QP..1204

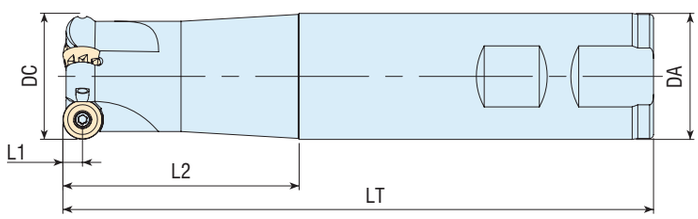




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDFC-QP10T3-D20-C20-L150-1R	20	1	20	150	70	5	QP..10T3..	TDA-047	LLT-15
NPDFC-QP10T3-D25-C25-L120-2R	25	2	25	120	40	5			
NPDFC-QP10T3-D25-C25-L150-2R	25	2	25	150	70	5			
NPDFC-QP10T3-D25-C25-L170-2	25	2	25	170	90	5			
NPDFC-QP10T3-D32-C32-L150-3R	32	3	32	150	70	5			
NPDFC-QP10T3-D32-C32-L170-3	32	3	32	170	90	5			
NPDFC-QP1204-D25-C25-L150-2R	25	2	25	150	70	6	QP..1204..	TDA-064	LLT-15

Portaherramientas de fresado - Placa Redonda RPNX10T3

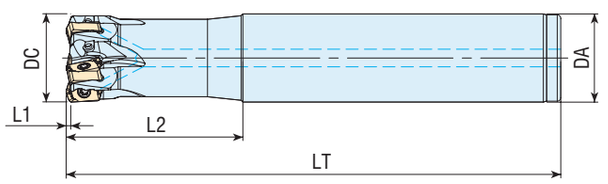




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDFC-RP10T3-D25-W25-L125-2	25	2	25	125	60	5	RPNX10T3..	TDA-032	80-T10
NPDFC-RP10T3-D25-W25-L150-2	25	2	25	150	60	5			
NPDFC-RP10T3-D32-W32-L150-3	32	3	32	150	60	5			

Portaherramientas de fresado - Placa BNGX10T3

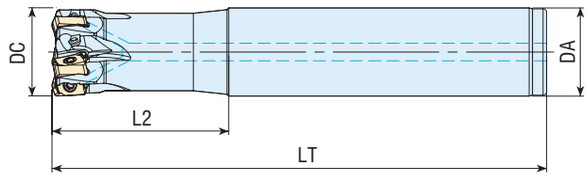




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF-BN10T3-D16-C16-L100-2R	16	2	16	100	30	1	BNGX10T3..	TDA-014	LLT-8
NPDF-BN10T3-D16-C16-L150-2R	16	2	16	150	50	1			
NPDF-BN10T3-D20-C20-L130-3R	20	3	20	130	40	1			
NPDF-BN10T3-D20-C20-L130-4R	20	4	20	130	40	1			
NPDF-BN10T3-D20-C20-L160-3R	20	3	20	160	80	1			
NPDF-BN10T3-D25-C25-L140-4R	25	4	25	140	50	1			
NPDF-BN10T3-D25-W25-L140-4R	25	4	25	140	50	1			
NPDF-BN10T3-D25-C25-L140-5R	25	5	25	140	50	1			
NPDF-BN10T3-D25-C25-L180-4R	25	4	25	180	100	1			
NPDF-BN10T3-D32-C32-L150-5R	32	5	32	150	70	1			
NPDF-BN10T3-D32-C32-L150-6R	32	6	32	150	70	1			
NPDF-BN10T3-D35-C32-L200-6R	35	6	32	200	50	1			

Portaherramientas de fresado - Placa EO..0602 / ZOMT0602..

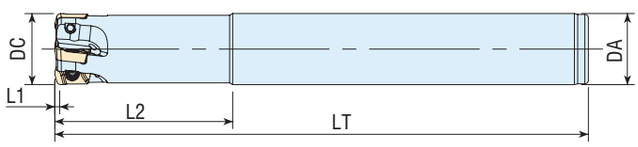




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF-EO0602-D10-C10-L080-2	10	2	10	80	20	-	EO..0602..	TDA-002	LLT-6
NPDF-EO0602-D10-C09-L120-2	10	2	9	120	15	-	ZOMT0602..		
NPDF-EO0602-D10-C10-L120-2	10	2	10	120	60	-			
NPDF-EO0602-D12-C12-L080-2	12	2	12	80	20	-			
NPDF-EO0602-D12-C12-L080-3	12	3	12	80	20	-			
NPDF-EO0602-D12-C11-L120-2	12	2	11	120	15	-			
NPDF-EO0602-D12-C11-L120-3	12	3	11	120	15	-			
NPDF-EO0602-D12-C12-L120-2	12	2	12	120	60	-			
NPDF-EO0602-D12-C12-L120-3	12	3	12	120	60	-			
NPDF-EO0602-D16-C16-L150-4	16	4	16	150	60	-			

Portaherramientas de fresado - Placa EP..1003 / ZPMT1003 / YPHW1003

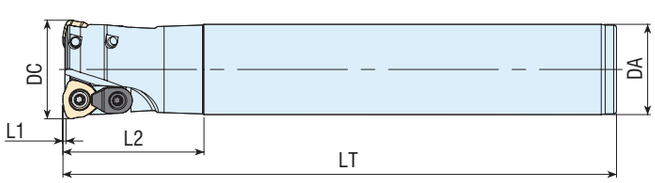




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF-EP1003-D16-C16-L150-2R	16	2	16	150	50	1	EP.. 1003..	TDA-013	LLT-3
NPDF-EP1003-D17-C16-L150-2R	17	2	16	150	20	1	ZPMT 1003..		
NPDF-EP1003-D20-C20-L150-4R	20	4	20	150	50	1	YPHW 1003..		
NPDF-EP1003-D21-C20-L150-4R	21	4	20	150	20	1			
NPDF-EP1003-D25-C25-L200-4R	25	4	25	200	100	1			
NPDF-EP1003-D25-C25-L250-4R	25	4	25	250	100	1			

Portaherramientas de fresado - Placa JDMW1204..

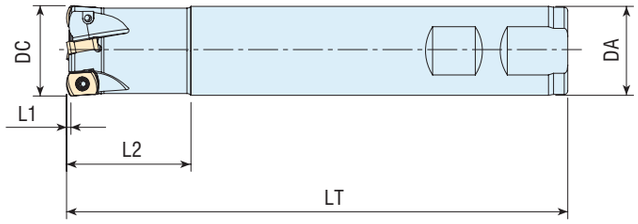




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	BRIDA	TORNILLO BRIDA	LLAVE
NPDFC-JD1204-D32-C32-L150-2	32	2	32	150	50	1	JDMW 1204..	TDA-071	BDA-18	TDA-066	LLT-15
NPDFC-JD1204-D32-C32-L200-2	32	2	32	200	50	1					
NPDFC-JD1204-D35-C32-L200-2	35	2	32	200	50	1					
NPDFC-JD1204-D35-C32-L250-2	35	2	32	250	50	1					

Portaherramientas de fresado - Placa BLMP0603..

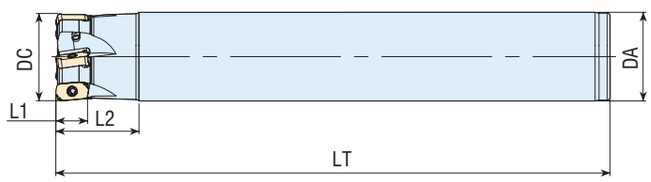




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF-BL0603-D16-C15-L150-2	16	2	15	150	20	1	BLBP0603..	TDA-014	LLT-8
NPDF-BL0603-D16-C16-L100-2R	16	2	16	100	30	1			
NPDF-BL0603-D16-C16-L150-2	16	2	16	150	50	1			
NPDF-BL0603-D17-C16-L150-2	17	2	16	150	20	1			
NPDF-BL0603-D17-W16-L170-2	17	2	16	170	20	1			
NPDF-BL0603-D17-W16-L170-2R	17	2	16	170	20	1			
NPDF-BL0603-D17-C16-L200-2	17	2	16	200	30	1			
NPDF-BL0603-D18-C16-L150-2	18	2	16	150	20	1			
NPDF-BL0603-D18-W16-L150-2R	18	2	16	150	20	1			
NPDF-BL0603-D20-C20-L130-3	20	3	20	130	50	1			
NPDF-BL0603-D20-C20-L160-3	20	3	20	160	50	1			
NPDF-BL0603-D21-C20-L200-3	21	3	20	200	25	1			
NPDF-BL0603-D21-W20-L200-3	21	3	20	200	25	1			
NPDF-BL0603-D22-W20-L150-3	22	3	20	150	20	1			
NPDF-BL0603-D25-C25-L250-4	25	4	25	250	40	1			
NPDF-BL0603-D26-C25-L200-4	26	4	25	200	35	1			
NPDF-BL0603-D26-W25-L200-4	26	4	25	200	35	1			
NPDF-BL0603-D26-C25-L250-4	26	4	25	250	35	1			
NPDF-BL0603-D32-C32-L150-5	32	5	32	150	70	1			
NPDF-BL0603-D32-C32-L200-5	32	5	32	200	120	1			
NPDF-BL0603-D33-C32-L150-5	33	5	32	150	40	1			
NPDF-BL0603-D33-C32-L200-5	33	5	32	200	40	1			
NPDF-BL0603-D33-C32-L250-5	33	5	32	250	40	1			

Portaherramientas de fresado - Placa Redonda LNMU0303..

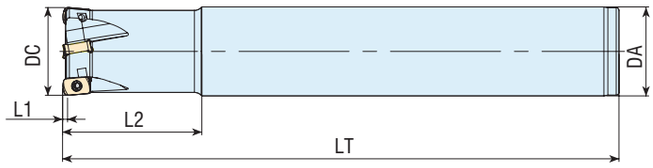




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF-LN0303-D16-C15-L150-2	16	2	15	150	30	12	LNMU0303	TDA-014	LLT-8
NPDF-LN0303-D16-W16-L150-2R	16	2	16	150	50	12			
NPDF-LN0303-D20-W20-L150-3R	20	3	20	150	50	12			
NPDF-LN0303-D21-C20-L150-3	21	3	20	150	30	12			
NPDF-LN0303-D25-W25-L150-4R	25	4	25	150	50	12			
NPDF-LN0303-D26-C25-L150-4	26	4	25	150	30	12			
NPDF-LN0303-D33-C32-L200-5	33	5	32	200	30	12			

Portaherramientas de fresado - Placa ENMU1004..

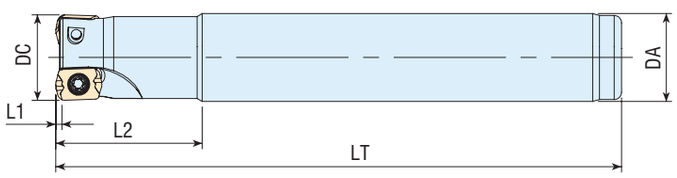




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF-EN1004-D16-C15-L150-2	16	2	15	150	25	1	ENMU1004..	TDA-013	LLT-8
NPDF-EN1004-D16-C16-L150-2	16	2	16	150	25	1			
NPDF-EN1004-D16-C16-L250-2	16	2	16	250	70	1			
NPDF-EN1004-D17-C16-L150-2R	17	2	16	150	25	1			
NPDF-EN1004-D17-C16-L150-2	17	2	16	150	25	1			
NPDF-EN1004-D17-C16-L200-2	17	2	16	200	25	1			
NPDF-EN1004-D18-C16-L150-2	18	2	16	150	25	1			
NPDF-EN1004-D20-C20-L150-3	20	3	20	150	40	1			
NPDF-EN1004-D20-C20-L250-3	20	3	20	250	70	1			
NPDF-EN1004-D21-C20-L150-2	21	2	20	150	30	1			
NPDF-EN1004-D21-C20-L150-3	21	3	20	150	30	1			
NPDF-EN1004-D21-C20-L150-3R	21	3	20	150	30	1			
NPDF-EN1004-D21-C20-L200-3	21	3	20	200	30	1			
NPDF-EN1004-D22-C20-L150-3	22	3	20	150	30	1	ENMU1004..	TDA-014	LLT-8
NPDF-EN1004-D25-C25-L150-3	25	3	25	150	40	1			
NPDF-EN1004-D25-C25-L150-4	25	4	25	150	40	1			
NPDF-EN1004-D26-C25-L150-3	26	3	25	150	30	1			
NPDF-EN1004-D26-C25-L150-4	26	4	25	150	30	1			
NPDF-EN1004-D26-C25-L200-3	26	3	25	150	30	1			
NPDF-EN1004-D26-C25-L200-3R	26	3	25	200	30	1			
NPDF-EN1004-D26-C25-L250-3R	26	3	25	250	30	1			
NPDF-EN1004-D28-C25-L200-4	28	4	25	200	30	1			
NPDF-EN1004-D32-C32-L200-4	32	4	32	200	50	1			
NPDF-EN1004-D33-C32-L200-4	33	4	32	200	30	1			
NPDF-EN1004-D33-C32-L200-4R	33	4	32	200	30	1			

Portaherramientas de fresado - Placa LPGT0102....

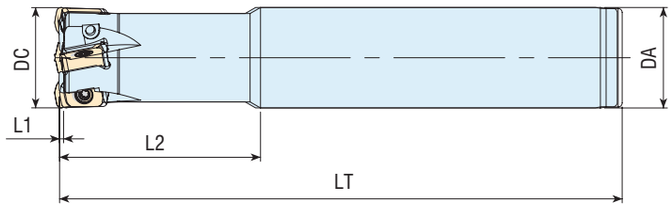




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF-LP0102-D10-C09-L120-2	10	2	9	120	20	0.5	LPGT0102..	TDA-002	LLT-6
NPDF-LP0102-D10-C10-L120-2	10	2	10	120	20	0.5			
NPDF-LP0102-D12-C11-L120-2	12	2	11	120	20	0.5			
NPDF-LP0102-D12-C12-L120-2	12	2	12	120	20	0.5			

Portaherramientas de fresado - Placa LOGU0303..

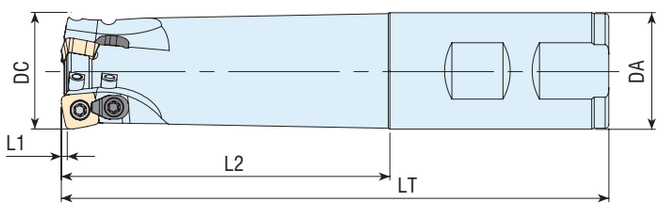




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF-LO03-D16-C15-L160-2	16	2	15	15	30	1	LOGU0303..	TDA-024	LLT-8
NPDF-LO03-D16-C16-L100-2	16	2	16	16	30	1			
NPDF-LO03-D16-C16-L130-2R	16	2	16	16	40	1			
NPDF-LO03-D16-C16-L160-2	16	2	16	16	50	1			
NPDF-LO03-D16-C16-L160-2R	16	2	16	16	100	1			
NPDF-LO03-D17-C16-L180-2	17	2	16	16	30	1			
NPDF-LO03-D20-C20-L130-3	20	3	20	20	40	1			
NPDF-LO03-D20-C20-L130-3R	20	3	20	20	40	1			
NPDF-LO03-D20-C20-L160-3	20	3	20	20	80	1			
NPDF-LO03-D20-C20-L160-3R	20	3	20	20	100	1			
NPDF-LO03-D21-C20-L150-3R	21	3	20	20	30	1			
NPDF-LO03-D21-C20-L200-3	21	3	20	20	30	1			
NPDF-LO03-D21-C20-L200-3R	21	3	20	20	30	1			
NPDF-LO03-D25-C25-L140-4	25	4	25	25	50	1			
NPDF-LO03-D25-C25-L180-4	25	4	25	25	100	1			
NPDF-LO03-D26-C25-L250-4	26	4	25	25	40	1			
NPDF-LO03-D32-C32-L200-5	32	5	32	32	120	1			
NPDF-LO03-D33-C32-L250-5	33	5	32	32	40	1			

Portaherramientas de fresado - Placa SD..06T2

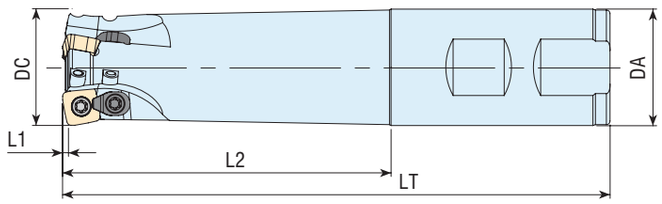




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF-SD06T2-D16-C16-L100-2R	16	2	16	100	50	0.8	SD..06T2..	TDA-008	LLT-7
NPDF-SD06T2-D16-C16-L150-2R	16	2	16	150	50	0.8			
NPDF-SD06T2-D16-C16-L200-2	16	2	16	200	100	0.8			
NPDF-SD06T2-D17-C16-L150-2R	17	2	16	150	50	0.8			
NPDF-SD06T2-D20-C20-L150-3R	20	3	20	150	50	0.8			
NPDF-SD06T2-D20-C20-L200-3	20	3	20	200	100	0.8			
NPDF-SD06T2-D21-C20-L150-3R	21	3	20	150	50	0.8			
NPDF-SD06T2-D25-C25-L150-4R	25	4	25	150	60	0.8			
NPDF-SD06T2-D26-C25-L150-4R	26	4	25	150	60	0.8			

Portaherramientas de fresado - Placa SD..09T3

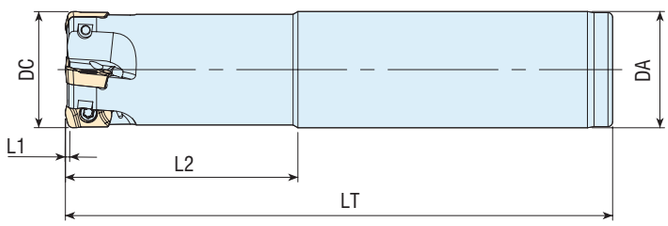




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	BRIDA	TORNILLO BRIDA	LLAVE
NPDF-SD09T3-D22-W20-L150-2	22	2	20	150	30	1.4	SD..09T3..	TDA-044	BDA-26	TDA-039	LLT-10
NPDF-SD09T3-D25-C25-L150-2	25	2	25	150	94	1.4					
NPDF-SD09T3-D25-W25-L150-2	25	2	25	150	94	1.4					
NPDF-SD09T3-D28-C25-L150-2	28	2	25	150	30	1.4					
NPDF-SD09T3-D32-C32-L150-3	32	3	32	150	100	1.4					
NPDF-SD09T3-D32-W32-L150-3	32	3	32	150	90	1.4					
NPDF-SD09T3-D25-C25-L150-3	25	3	25	150	60	1.4			-	-	
NPDF-SD09T3-D32-C32-L150-4	32	4	25	150	60	1.4			-	-	

Portaherramientas de fresado - Placa EP..1003.. / YPHW1003.. / ZPMT1003..

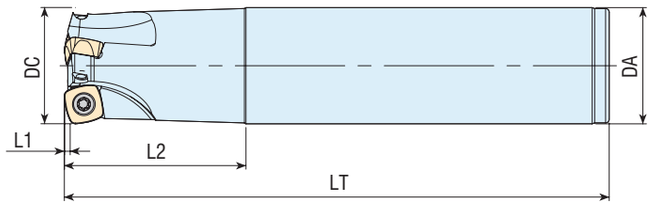




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF-YP1003-D16-C15-L150-2	16	2	15	150	20	1	EP..1003..	TDA-013	LLT-8
NPDF-YP1003-D16-C15-L200-2	16	2	15	200	20	1	YPHW1003..		
NPDF-YP1003-D16-C16-L150-2	16	2	16	150	50	1	ZPMT1003..		
NPDF-YP1003-D17-C16-L150-2	17	2	16	150	20	1			
NPDF-YP1003-D17-C16-L200-2	17	2	16	200	20	1			
NPDF-YP1003-D20-C18-L150-3	20	3	18	150	25	1			
NPDF-YP1003-D20-C18-L200-3	20	3	18	200	25	1			
NPDF-YP1003-D20-C20-L150-3	20	3	20	150	50	1			
NPDF-YP1003-D21-C20-L150-3	21	3	20	150	20	1			
NPDF-YP1003-D21-C20-L150-3R	21	3	20	150	20	1			
NPDF-YP1003-D21-C20-L150-4	21	4	20	150	20	1			
NPDF-YP1003-D21-C20-L200-3	21	3	20	200	20	1			
NPDF-YP1003-D21-C20-L200-3	21	3	20	200	20	1			
NPDF-YP1003-D25-C20-L150-4	25	4	20	150	25	1			
NPDF-YP1003-D25-C20-L200-4	25	4	20	200	25	1			
NPDF-YP1003-D25-C25-L150-4	25	4	25	150	50	1			
NPDF-YP1003-D26-C25-L150-4	26	4	25	150	30	1			
NPDF-YP1003-D26-C25-L150-4	26	4	25	150	30	1			
NPDF-YP1003-D26-C25-L200-3	26	3	25	200	30	1			
NPDF-YP1003-D26-C25-L200-4	26	4	25	200	30	1			

Portaherramientas de fresado - Placa SPNW1004..

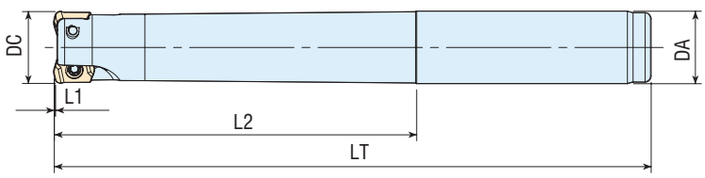




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF-SP1004-D25-C25-L150-2	25	2	25	150	50	1.5	SPNW1004..	TDA-045	LLT-15
NPDF-SP1004-D32-C32-L150-3	32	3	32	150	50	1.5			

Portaherramientas de fresado - Placa YOHW0602..

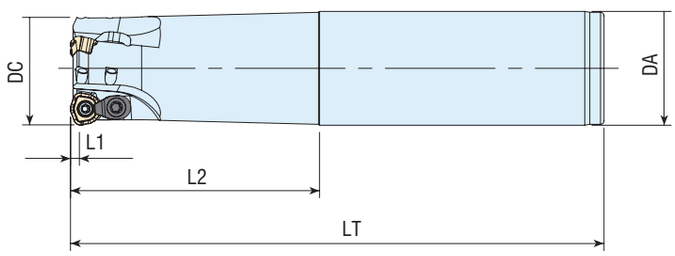




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF-YO0602-D10-C09-L120-2	10	2	9	120	15	0.3	YOHW0602..	TDA-002	LLT-6
NPDF-YO0602-D10-C10-L080-2	10	2	10	80	20	0.3			
NPDF-YO0602-D10-C10-L120-2	10	2	10	120	60	0.3			
NPDF-YO0602-D10-C10-L120-2R	10	2	10	120	60	0.3			
NPDF-YO0602-D10-C10-L120-2R	10	2	10	120	60	0.3			
NPDF-YO0602-D12-C11-L120-2	12	2	11	120	15	0.3			
NPDF-YO0602-D12-C11-L120-2R	12	2	11	120	15	0.3			
NPDF-YO0602-D12-C11-L120-2R	12	2	11	120	15	0.3			
NPDF-YO0602-D12-C11-L120-3	12	3	11	120	15	0.3			
NPDF-YO0602-D12-C12-L080-2	12	2	12	80	20	0.3			
NPDF-YO0602-D12-C12-L080-3	12	3	12	80	20	0.3			
NPDF-YO0602-D12-C12-L120-2	12	2	12	120	60	0.3			
NPDF-YO0602-D12-C12-L120-2R	12	2	12	120	60	0.3			
NPDF-YO0602-D12-C12-L120-3	12	3	12	120	60	0.3			
NPDF-YO0602-D12-C12-L120-3R	12	3	12	120	60	0.3			

Portaherramientas de fresado - Placa WDMT..

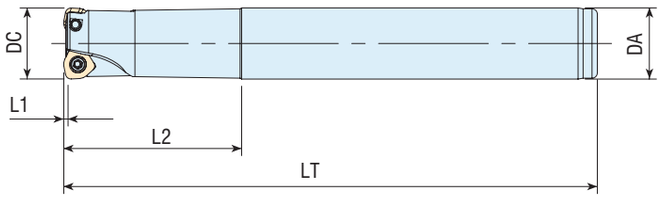




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	BRIDA	TORNILLO BRIDA	LLAVE
NPDF-WD0603-D16-C16-L150-2	16	2	16	150	70	2	WDMT0603..	TDA-014	-	-	LLT-8
NPDF-WD0603-D20-C20-L150-3	20	3	20	150	70	2					
NPDF-WD0804-D25-C25-L150-2	25	2	25	150	70	1.5	WDMT0804..	TDA-032	BDA-26	TDA-032	LLT-10
NPDF-WD0804-D32-C32-L150-3	32	3	32	150	70	1.5					
NPDF-WD1205-D32-C32-L150-2	32	2	32	150	70	3	WDMT1205..	TDA-058	BDA-18	TDA-066	LLT-15

Portaherramientas de fresado - Placa WD.W0503.. / WD.W06T3..

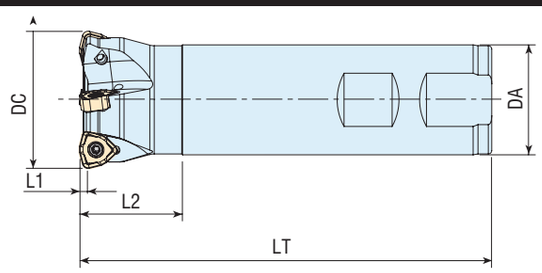




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	BRIDA	TORNILLO BRIDA	LLAVE
NPDF-WD0503D-D20-C20-L150-2	20	2	20	150	50	1.25	WD.W0503..	TDA-031	-	-	LLT-10
NPDF-WD0503D-D21-C20-L150-2	21	2	20	150	30	1.25					
NPDF-WD06T3D-D26-C25-L200-2	26	2	25	200	30	1.5	WD.W06T3..	TDA-045	BDA-26	TDA-049	LLT-15
NPDF-WD06T3D-D33-C32-L200-3	33	3	32	200	32	1.5					

Portaherramientas de fresado - Placa WNMX..

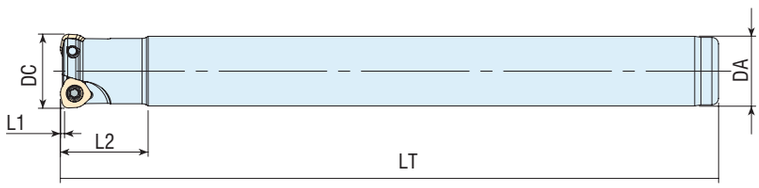




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF-WN0603-D16-C16-L110-2R	16	2	16	110	30	1	WNMX0603..	TDA-014	LLT-8
NPDF-WN0603-D16-C16-L150-2R	16	2	16	150	70	1			
NPDF-WN0603-D17-C16-L150-2R	17	2	16	150	20	1			
NPDF-WN0603-D20-C20-L150-2R	20	2	20	150	70	1			
NPDF-WN0603-D20-C20-L200-2R	20	2	20	200	100	1			
NPDF-WN0603-D21-C20-L150-2R	21	2	20	150	20	1			
NPDF-WN09T3-D25-C25-L200-2	25	2	25	200	120	1.5			
NPDF-WN09T3-D30-W25-L120-3R	30	3	25	120	30	1.5			
NPDF-WN09T3-D32-W32-L120-3R	32	3	32	120	30	1.5			
NPDF-WN09T3-D32-W32-L200-3R	32	3	32	200	100	1.5			
NPDF-WN09T3-D35-W32-L200-4R	35	4	32	200	50	1.5			
NPDF-WN09T3-D40-W32-L120-4R	40	4	32	120	30	1.5			
NPDF-WN09T3-D40-C32-L200-4	40	4	32	200	30	1.5			
NPDF-WN1305-D32-C32-L150-2R	32	2	32	150	70	2	WNMX1305..	TDA-066	LLT-15
NPDF-WN1305-D32-C32-L200-2R	32	2	32	200	120	2			
NPDF-WN1305-D40-C32-L200-3R	40	3	32	200	30	2			

Portaherramientas de fresado - Placa WOMW04T2..

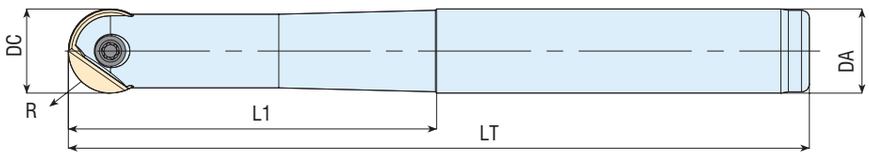




REFERENCIA	DC	Z	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDF-WO04T2D-D16-C16-L150-2	16	2	16	150	20	0.8	WOMW04T2..	TDA-014	LLT-8
NPDF-WO04T2D-D17-C16-L150-2	17	2	16	150	20	0.8			

Portaherramientas de Copiado - Placa BNM..

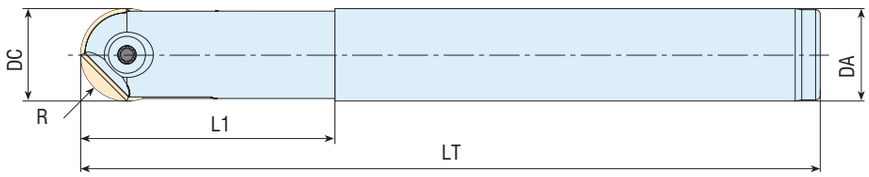




REFERENCIA	DC	R	DA	LT	L2	INSERTO	TORNILLO	LLAVE
NPDC-BNM12-D12-C12-L130	12	6	12	130	32	BNM120-S	TPA-008	LLT-10
NPDC-BNM16-D16-C16-L175	16	8	16	175	70	BNM160-S	TPA-009	LLT-15
NPDC-BNM16-D16-C16-L200	16	8	16	200	100			
NPDC-BNM20-D20-C20-L160	20	10	20	160	70	BNM200-S	TPA-005	LLT-20
NPDC-BNM20-D20-C20-L200	20	10	20	200	100			
NPDC-BNM20-D20-C20-L250	20	10	20	250	150			
NPDC-BNM25-D25-C25-L160	25	12.5	25	160	70	BNM250-S	TPA-006	LLT-20
NPDC-BNM25-D25-C25-L200	25	12.5	25	200	100			
NPDC-BNM25-D25-C25-L250	25	12.5	25	250	150			

Portaherramientas de Copiado - Placa ROHX..

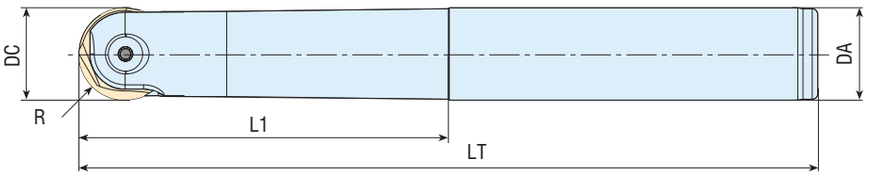




REFERENCIA	DC	R	DA	LT	L2	INSERTO	TORNILLO	LLAVE
NPDC-RO12-D12-C12-L120	12	6	12	120	35	ROHX 1203	TPA-002	LLT-15
NPDC-RO12-D12-C16-L160	12	6	16	160	50			
NPDC-RO16-D16-C16-L160	16	8	16	160	45	ROHX 1604	TPA-004	LLT-20
NPDC-RO16-D16-C16-L200	16	8	16	200	45			
NPDC-RO16-D16-C20-L200	16	8	20	200	65			
NPDC-RO20-D20-C20-L160	20	10	20	160	55	ROHX 2005	TPA-005	LLT-20
NPDC-RO20-D20-C20-L200	20	10	20	200	55			
NPDC-RO20-D20-C25-L220	20	10	25	220	80			

Portaherramientas de Copiado - Placa P3...

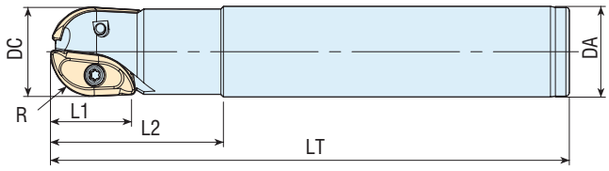




REFERENCIA	DC	R	DA	LT	L2	INSERTO	TORNILLO	LLAVE
NPDC-P3208-D08-C10-L110	8	4	10	110	25	P3208	TPA-001	LLT-8
NPDC-P3210-D10-C10-L130	10	5	10	130	30	P3210	TPA-002	LLT-15
NPDC-P3210-D10-C12-L130	10	5	12	130	30	P3210	TPA-002	LLT-15
NPDC-P3212-D12-C12-L130	12	6	12	130	32	P3212	TPA-003	LLT-20
NPDC-P3216-D16-C16-L175	16	8	16	175	75	P3216	TPA-004	LLT-20
NPDC-P3220-D20-C20-L200	20	10	20	200	100	P3220	TPA-005	LLT-20
NPDC-P3225-D25-C25-L200	25	12.5	25	200	100	P3225	TPA-006	LLT-20
NPDC-P3232-D32-C32-L200	32	16	32	200	100	P3232	TPA-007	LLA-4

Portaherramientas de Copiado - Placa XPHT...

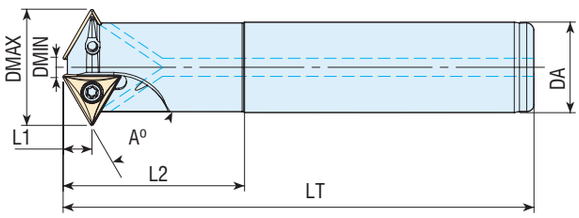




REFERENCIA	DC	R	DA	LT	L2	L1	INSERTO	TORNILLO	LLAVE
NPDC-XP16-D16-C16-L150	16	8	16	150	40	16	XPHT 16R0803	TDA-014	LLT-8
NPDC-XP20-D20-C20-L150	20	10	20	150	50	20	XPHT 20R10R3	TDA-043	LLT-10
NPDC-XP25-D25-C25-L150	25	12.5	25	150	50	25	XPHT 25R1204	TDA-064	LLT-15

Portaherramientas de Avellanado - Placa TB.. TC..

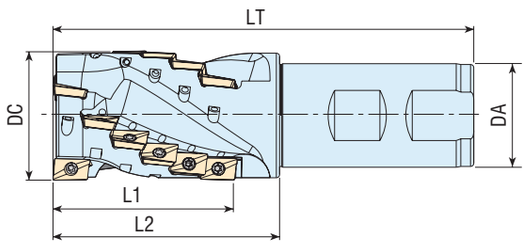




REFERENCIA	Aº	Dmax	DA	Dmin	LT	L2	Z	L1	INSERTO	TORNILLO	LLAVE
NPDF60-TB0601-D13-C10-L150-2R	60	13	10	2.5	150	40	2	3.3	TBGT060102	TDA-006	LLT-6
NPDF60-TC0902-D20.5-C16-L150-2R	60	20.5	16	5.2	150	40	2	4.7	TC.T090202	TDA-008	80-T07
NPDF60-TC1102-D26-C20-L150-3R	60	26	20	8.3	150	50	3	5.4	TC.T110202	TDA-014	LLT-8
NPDF60-TC16T3-D32-C25-L150-2R	60	32	25	6.4	150	50	2	8	TC.T16T304	TDA-047	LLT-15
NPDF60-TC16T3-D40-C32-L250-3R	60	40	32	13.7	250	50	3	8	TC.T16T304	TDA-047	LLT-15

Portaherramientas de Fresado - Placa AP..1003... / AP..1204..



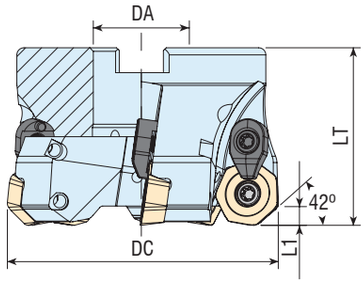


REFERENCIA	Z	DC	DA	L1	L2	LT	INSERTO	TORNILLO	LLAVE
NPDF90-AP10-D20-W20-L087-0204	4-2	20	20	28	37	87	AP..1003..	TDA-014	LLT-8
NPDF90-AP10-D20-W20-L087-0206	6-2	20	20	28	37	87			
NPDF90-AP10-D25-W25-L105-0208R	8-2	25	25	37	50	105			
NPDF90-AP10-D32-W32-L115-0315R	15-3	32	32	46	55	115			
NPDF90-AP10-D40-W32-L130-0318R	18-3	40	32	55	70	130			

REFERENCIA	Z	DC	DA	L1	L2	LT	INSERTO	TORNILLO	LLAVE
NPDF90-AP1204-D32-W32-L140-0212R	12-2	32	32	68	80	140	AP..1204..	TDA-044	LLT-10
NPDF90-AP1204-D40-W32-L160-0321R	21-3	40	32	79	100	160			

Plato de Fresado 42º - XDMW0806..

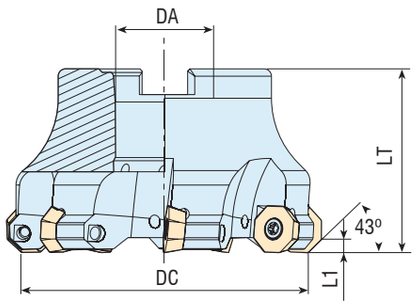




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Brida Placa	Tornillo Brida	Llave
NPDF42C-XD0806-D063-E27-4R	63	4	27	50	12	XDMW0806..	TDA-079	BDA-30	TDA-079	LLT-20
NPDF42C-XD0806-D080-E27-5R	80	5	27	50	12					
NPDF42C-XD0806-D100-E32-6R	100	6	32	63	12					
NPDF42C-XD0806-D125-E40-7	125	7	40	63	12					
NPDF42C-XD0806-D160-E40-8	160	8	40	63	12					
NPDF42C-XD0806-D200-E60-9	200	9	60	63	12					

Plato de Fresado 43º - OD..0504..

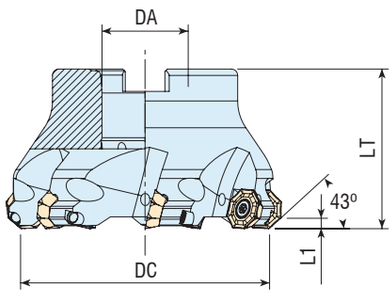




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Brida Placa	Tornillo Brida	Llave
NPDF43-OD0504-D040-E16-4R	40	4	16	40	3.5	OD..0504..	TDA-049	-	-	LLT-15
NPDF43-OD0504-D050-E22-5R	50	5	22	40	3.5					
NPDF43-OD0504-D063-E22-6R	63	6	22	40	3.5					
NPDF43-OD0504-D080-E27-7R	80	7	27	50	3.5					
NPDF43-OD0504-D100-E32-8R	100	8	32	50	3.5					

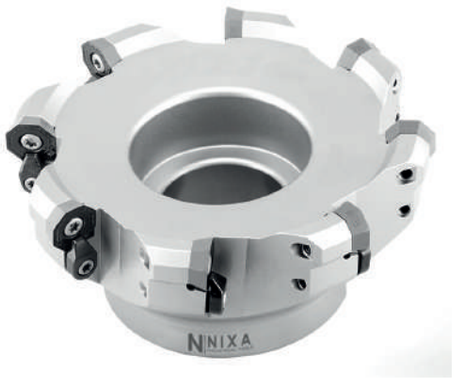
Plato de Fresado 43º - OF..05T3..

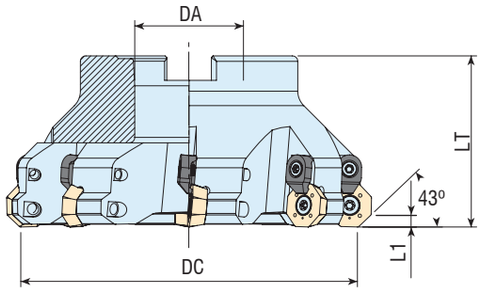




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Brida Placa	Tornillo Brida	Llave
NPDF43-OF05T3-D050-E22-5R	50	5	22	40	3	OF..05T3..	TDA-064	-	-	LLT-15
NPDF43-OF05T3-D063-E22-6R	63	6	22	40	3		TDA-066	-	-	LLT-15
NPDF43-OF05T3-D080-E27-7R	80	7	27	50	3					
NPDF43-OF05T3-D125-E40-9	125	9	40	63	3					

Plato de Fresado 43º - OD..0605..

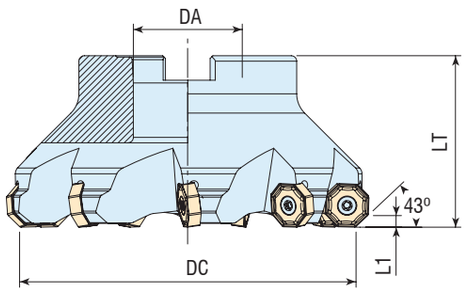




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Brida Placa	Tornillo Brida	Llave
NPDF43C-OD0605-D080-E27-6R	80	6	27	50	4	OD..0605..	TDA-081	BDA-18	TDA-066	LLT-20
NPDF43C-OD0605-D100-E32-7R	100	7	32	50	4					
NPDF43C-OD0605-D125-E40-8	125	8	40	63	4					

Plato de Fresado 43º - ON..0604..

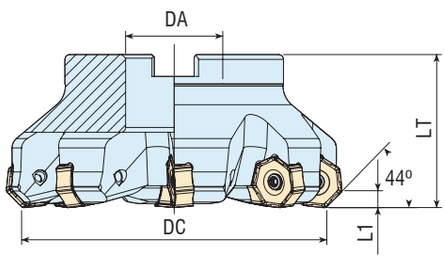




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Brida Placa	Tornillo Brida	Llave
NPDF43-ON0604-D050-E22-5R	50	5	22	40	4	ON..0604..	TDA-066	-	-	LLT-15
NPDF43-ON0604-D063-E22-6R	63	6	22	40	4					
NPDF43-ON0604-D080-E27-7R	80	7	27	50	4					
NPDF43-ON0604-D100-E32-8R	100	8	32	50	4					
NPDF43-ON0604-D125-E40-9	125	9	40	63	4					

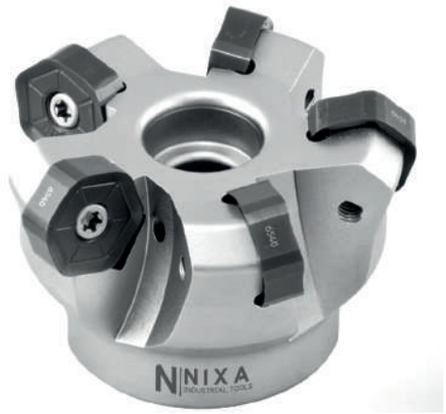
Plato de Fresado 44º - ONHX 0606....

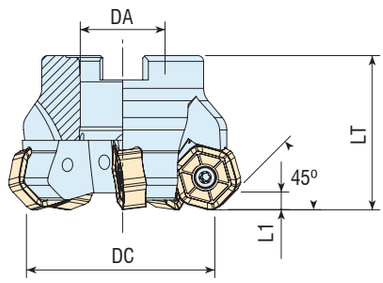




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Brida Placa	Tornillo Brida	Llave
NPDF44-ON0606-D063-E22-6R	63	6	22	40	3.8	ONHX 0606..	TDA-079	-	-	LLT-15
NPDF44-ON0606-D080-E27-8R	80	8	27	50	3.8					
NPDF44-ON0606-D100-E32-10R	100	10	32	50	3.8					

Plato de Fresado 45º - HN..0905..

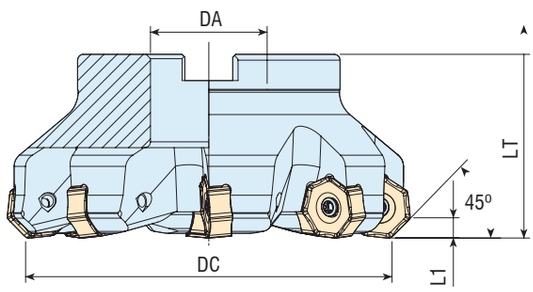




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF45-HN0905-D050-E22-5R	50	5	22	40	4.5	HN..0905..	TDA-066	LLT-15
NPDF45-HN0905-D063-E22-6R	63	6	22	40	4.5			
NPDF45-HN0905-D080-E27-7R	80	7	27	50	4.5			
NPDF45-HN0905-D125-E40-10	125	10	40	63	4.5			
NPDF45-HN0905-D160-E40-12	160	12	40	63	4.5			
NPDF45-HN0905-D200-E60-16	200	16	60	63	4.5			

Plato de Fresado 45º - NNMU2007..

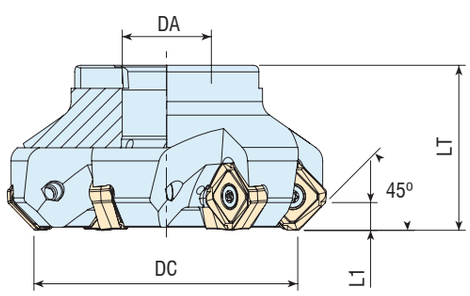




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Brida Placa	Tornillo Brida	Llave
NPDF45-NN2007-D100-E32-7R	100	7	32	50	6	NNMU2007..	TDA-082	-	-	LLT-20
NPDF45-NN2007-D125-E40-8	125	8	40	63	6					
NPDF45-NN2007-D160-E40-10	160	10	50	63	6					

Plato de Fresado 45º - SAKU1706

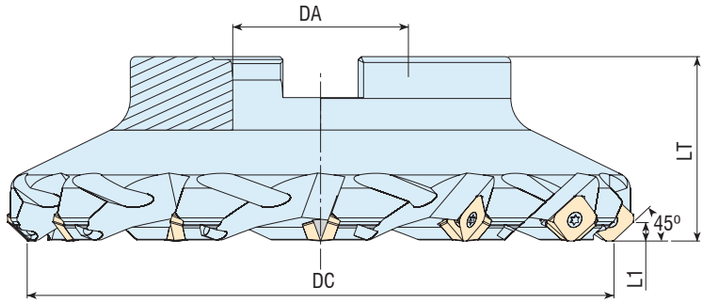




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF45-SA1706-D080-E27-6R	80	6	27	50	8.4	SAKU1706..	TDA-082	LLT-20
NPDF45-SA1706-D100-E32-7R	100	7	32	50	8.4			
NPDF45-SA1706-D125-E40-9	125	9	40	63	8.4			

Plato de Fresado 45º - SE..12T3.. / R245-12R3..

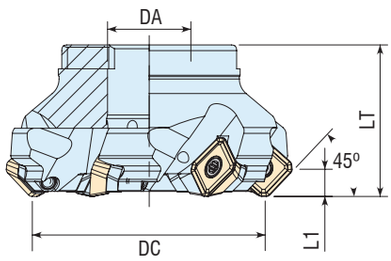




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Brida Placa	Tornillo Brida	Llave
NPDF45-SE12-D050-E22-4R	50	4	22	40	6	SE..12T3..	TDA-049	-	-	LLT-15
NPDF45-SE12-D063-E22-5R	63	5	22	40	6	R245-12T3..				
NPDF45-SE12-D080-E27-6R	80	6	27	50	6					
NPDF45-SE12-D100-E32-7R	100	7	32	50	6					
NPDF45-SE12-D125-E40-8	125	8	40	63	6					
NPDF45-SE12-D160-E40-10	160	10	40	63	6					
NPDF45-SE12-D200-E60-12	200	12	60	63	6					

Plato de Fresado 45º - SEMT13T3..

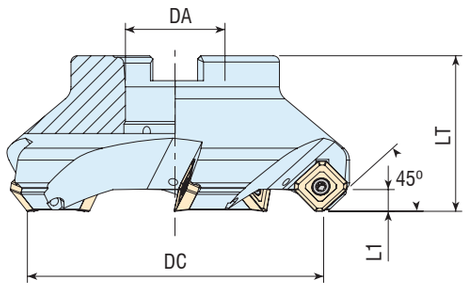




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Placa Base	Tornillo base	Tornillo placa	Llave
NPDF45-SE13-D050-E22-4R	50	4	22	40	6	SEMT13T3..	-	-	TDA-049	LLT-15
NPDF45-SE13-D063-E22-5R	63	5	22	40	6		-	-		
NPDF45-SE13-D080-E27-6R	80	6	27	50	6		-	-		
NPDF45B-SE13-D050-E22-5R	50	5	22	40	6	SEMT13T3	PB-025	TPB-015	TDA-050	LLT-15
NPDF45B-SE13-D063-E22-6R	63	6	22	40	6					
NPDF45B-SE13-D080-E27-8R	80	8	27	50	6					
NPDF45B-SE13-D100-E32-10R	100	10	32	50	6					
NPDF45B-SE13-D125-E40-12	125	12	40	63	6					

Plato de Fresado 45º - SE..14M4

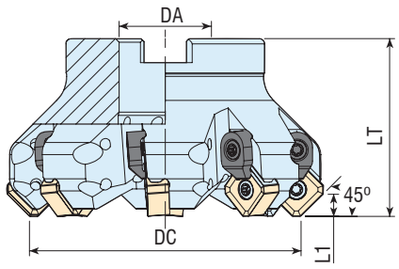




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF45-SE14M4-D063-E22-4R	63	4	22	40	7	SE..14M4..	TDA-049	LLT-15
NPDF45-SE14M4-D080-E27-5R	80	5	27	50	7			
NPDF45-SE14M4-D100-E32-5R	100	5	32	50	7			
NPDF45-SE14M4-D125-E40-6	125	6	40	63	7			
NPDF45-SE14M4-D160-E40-7	160	7	40	63	7			

Plato de Fresado 45º - SN..12

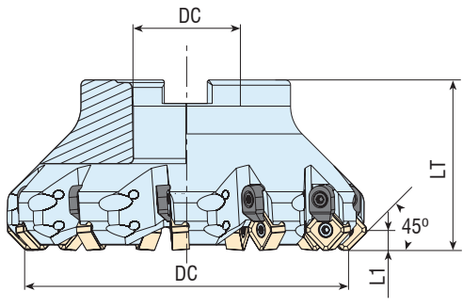




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Brida Placa	Tornillo Brida	Llave
NPDF45C-SN12-D050-E22-4R	50	4	22	42	6	SN..12..	TDA-055	BDA-18	TDA-066	LLT-15
NPDF45C-SN12-D050-E22-5R	50	5	22	42	6					
NPDF45C-SN12-D063-E22-6R	63	6	22	42	6					
NPDF45C-SN12-D063-E22-7R	63	7	22	42	6					
NPDF45C-SN12-D080-E27-7R	80	7	27	52	6					
NPDF45C-SN12-D080-E27-8R	80	8	27	52	6					
NPDF45C-SN12-D100-E32-8R	100	8	32	52	6					
NPDF45C-SN12-D100-E32-10R	100	10	32	52	6					
NPDF45C-SN12-D125-E40-11	125	11	40	65	6					
NPDF45C-SN12-D160-E40-12	160	12	40	65	6					
NPDF45C-SN12-D200-E60-14	200	14	60	65	6					

Plato de Fresado 45º - SN..1206

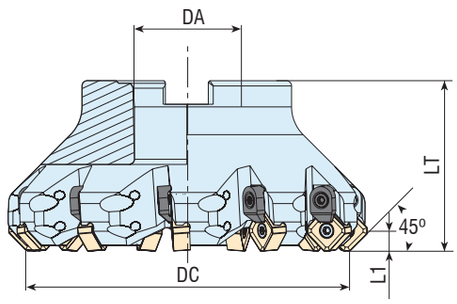




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Brida Placa	Tornillo Brida	Llave
NPDF45C-SN1206-D050-E22-4R	50	4	22	42	6	SN..1206..	TDA-066	BDA-18	TDA-066	LLT-15
NPDF45C-SN1206-D050-E22-5R	50	5	22	42	6					
NPDF45C-SN1206-D063-E22-6R	63	6	22	42	6					
NPDF45C-SN1206-D063-E22-7R	63	7	22	42	6					
NPDF45C-SN1206-D080-E27-7R	80	7	27	52	6					
NPDF45C-SN1206-D080-E27-8R	80	8	27	52	6					
NPDF45C-SN1206-D100-E32-8R	100	8	32	52	6					
NPDF45C-SN1206-D100-E32-10R	100	10	32	52	6					
NPDF45C-SN1206-D125-E40-11	125	11	40	65	6					
NPDF45C-SN1206-D160-E40-12	160	12	40	65	6					
NPDF45C-SN1206-D200-E60-14	200	14	60	65	6					

Plato de Fresado 45º - SNEG1205..

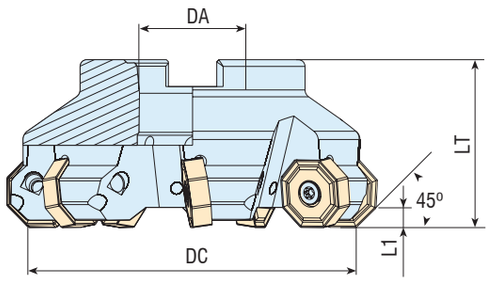




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Brida Placa	Tornillo Brida	Llave
NPDF45C-SN12Z-D050-E22-5R	50	5	22	42	6	SN..1206..	TDA-066	BDA-18	TDA-066	LLT-15
NPDF45C-SN12Z-D063-E22-6R	63	6	22	42	6					
NPDF45C-SN12Z-D080-E27-7R	80	7	27	52	6					
NPDF45C-SN12Z-D100-E32-9R	100	9	32	52	6					
NPDF45C-SN12Z-D125-E40-11	125	11	40	65	6					
NPDF45C-SN12Z-D160-E40-12	160	12	60	65	6					
NPDF45C-SN12Z-D200-E60-14	200	14	60	65	6					

Plato de Fresado 45º - ON..0806..

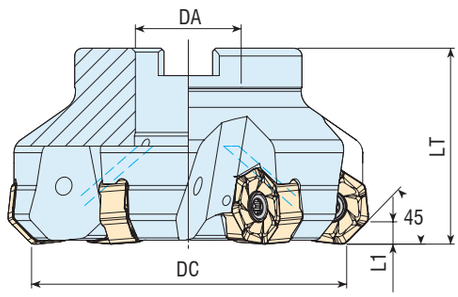




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF45-ON0806-D063-E22-5R	63	5	22	40	5.5	ON..0806..	TDA-082	LLT-20
NPDF45-ON0806-D063-E22-6R	63	6	22	40	5.5			
NPDF45-ON0806-D080-E27-6R	80	6	27	50	5.5			
NPDF45-ON0806-D080-E27-8R	80	8	27	50	5.5			
NPDF45-ON0806-D100-E32-7R	100	7	32	50	5.5			
NPDF45-ON0806-D100-E32-10R	100	10	32	50	5.5			
NPDF45-ON0806-D125-E40-8	125	8	40	63	5.5			
NPDF45-ON0806-D125-E40-12	125	12	40	63	5.5			
NPDF45-ON0806-D160-E40-10	160	10	40	63	5.5			
NPDF45-ON0806-D160-E40-14	160	14	40	63	5.5			
NPDF45-ON0806-D200-E60-12	200	12	60	63	5.5			
NPDF45-ON0806-D250-E60-14	250	14	60	63	5.5			
NPDF45-ON0806-D315-E60-16	315	16	60	63	5.5			

Plato de Fresado 45º - XNMU0906..

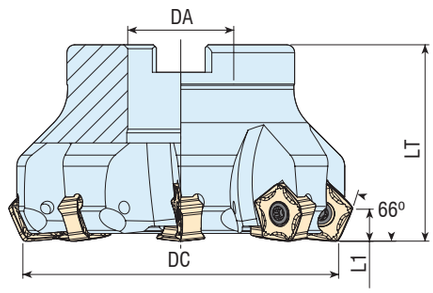




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF45-XN0906-D063-E22-6R	63	6	22	50	5	XNMU0906..	TDA-083	LLT-20
NPDF45-XN0906-D080-E27-6R	80	6	27	50	5			
NPDF45-XN0906-D100-E32-7R	100	7	32	55	5			
NPDF45-XN0906-D125-E40-8	125	8	40	63	5			

Plato de Fresado 66º - PNMU0905..

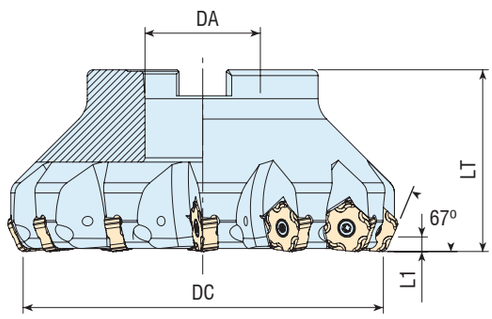




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF66-PN0905-D050-E22-5	50	5	22	40	8	PNMU0905..	TDA-066	LLT-15
NPDF66-PN0905-D063-E22-6	63	6	22	40	8			
NPDF66-PN0905-D080-E27-8	80	8	27	50	8			
NPDF66-PN0905-D100-E32-10	100	10	32	50	8			
NPDF66-PN0905-D125-E40-12	125	12	40	63	8			

Plato de Fresado 67º - PNEG1105..

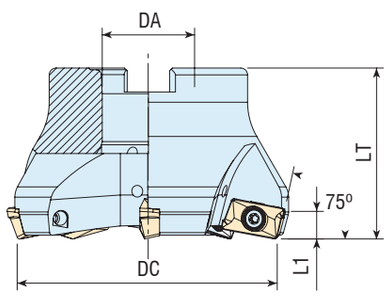




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF67-PN1105-D050-E22-5	50	5	22	50	5	PNEG1105..	TDA-066	LLT-15
NPDF67-PN1105-D063-E22-6	63	6	22	50	5			
NPDF67-PN1105-D080-E27-8	80	8	27	50	5			
NPDF67-PN1105-D100-E32-10	100	10	32	50	5			
NPDF67-PN1105-D125-E40-12	125	12	40	63	5			
NPDF67-PN1105-D160-E40-14	160	14	40	63	5			

Plato de Fresado 75º - AP..1604..

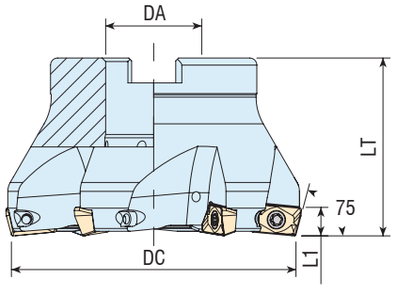




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF75-AP16-D063-E22-4R	63	4	22	40	6	AP..1604..	TDA-066	LLT-15
NPDF75-AP16-D080-E27-5R	80	5	27	50	6			
NPDF75-AP16-D100-E32-6R	100	6	32	50	6			
NPDF75-AP16-D125-E40-7	125	7	40	63	6			

Plato de Fresado 75º - XOMX1204..

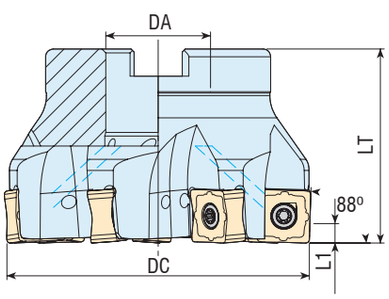




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF75-XO12-D050-E22-4R	50	4	22	40	-	XOMX1204..	TDA-044	LLT-10
NPDF75-XO12-D063-E22-5R	63	5	27	40	-			
NPDF75-XO12-D080-E27-6R	80	6	27	50	-			

Plato de Fresado 88º - SNMU1305..

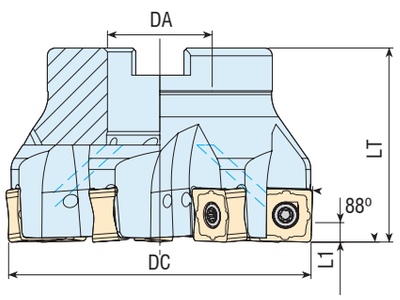




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF88-SN1305-D050-E22-4	50	4	22	40	5	SNMU1305..	TDA-066	LLT-15
NPDF88-SN1305-D050-E22-5	50	5	22	40	5			
NPDF88-SN1305-D063-E22-5	63	5	22	40	5			
NPDF88-SN1305-D063-E22-7	63	7	22	40	5			
NPDF88-SN1305-D080-E27-6	80	6	27	50	5			
NPDF88-SN1305-D080-E27-9	80	9	27	50	5			
NPDF88-SN1305-D100-E32-7	100	7	32	50	5			
NPDF88-SN1305-D100-E32-11	100	11	32	50	5			
NPDF88-SN1305-D125-E40-13	125	13	40	63	5			

Plato de Fresado 88º - SNGX1306..

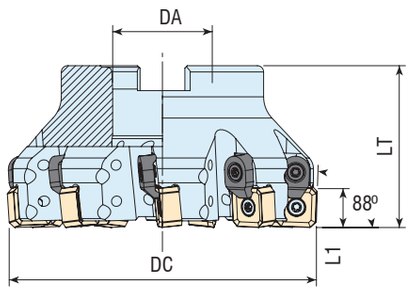




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF88-SN1306-D050-E22-5R	50	5	22	40	5	SNGX1306..	TDA-056	LLT-15
NPDF88-SN1306-D063-E22-6R	63	6	22	40	5			
NPDF88-SN1306-D080-E27-7R	80	7	27	50	5			

Plato de Fresado 88º - SN..1206..

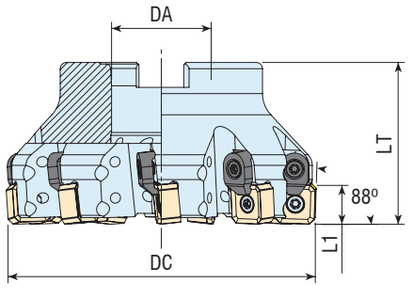




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Brida Placa	Tornillo Brida	Llave
NPDF88C-SN1206-D050-E22-5R	50	5	22	40	11.5	SN..1206..	TDA-071	BDA-18	TDA-066	LLT-15
NPDF88C-SN1206-D063-E22-6R	63	6	22	40	11.5					
NPDF88C-SN1206-D080-E27-7R	80	7	27	50	11.5					
NPDF88C-SN1206-D100-E32-9R	100	9	32	52	11.5					

Plato de Fresado 88º - SN..12..

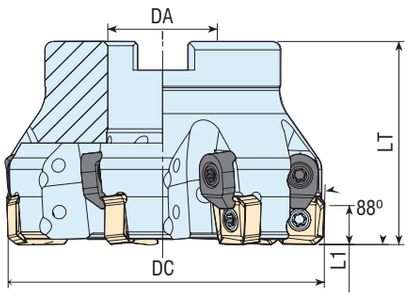




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Brida Placa	Tornillo Brida	Llave
NPDF88C-SN12-D050-E22-5R	50	5	22	40	11.5	SN..12..	TDA-055	BDA-18	TDA-066	LLT-15
NPDF88C-SN12-D063-E22-6R	63	6	22	40	11.5					
NPDF88C-SN12-D080-E27-7R	80	7	27	50	11.5					
NPDF88C-SN12-D100-E32-9R	100	9	32	52	11.5					

Plato de Fresado 88º - SNEG1205..

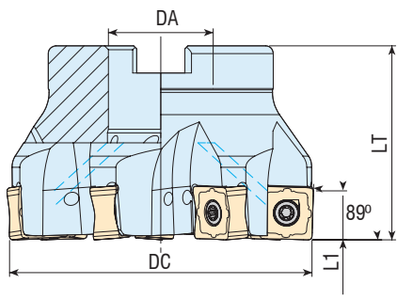




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Brida Placa	Tornillo Brida	Llave
NPDF88C-SN12Z-D063-E22-6R	63	6	22	40	11.5	SNEG1205..	TDA-066	BDA-18	TDA-066	LLT-15
NPDF88C-SN12Z-D080-E27-7R	80	7	27	50	11.5					

Plato de Fresado 89º - SNMU1305 / OXMT0507

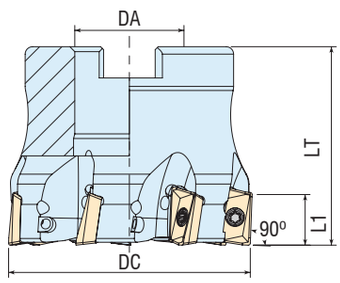




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF89-SN1305I-D040-E16-4R	40	4	16	40	10	SNMU1305..	TDA-055	LLT-15
NPDF89-SN1305I-D050-E22-5R	50	5	22	40	10	SNMG1305..		
NPDF89-SN1305I-D063-E22-6R	63	6	22	40	10	OXMT0507..		
NPDF89-SN1305I-D063-E22-7R	63	7	22	40	10			
NPDF89-SN1305I-D080-E27-8R	80	8	27	50	10			
NPDF89-SN1305I-D100-E32-10R	100	10	32	50	10			

Plato de Fresado 90º - ADMT10T3..

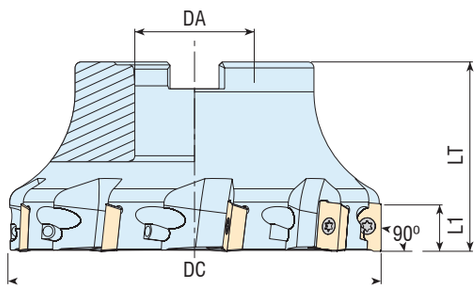




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-AD10T3-D040-E16-6R	40	6	16	40	10	ADMT10T3..	TDA-014	LLT-8
NPDF90-AD10T3-D050-E22-7R	50	7	22	40	10			

Plato de Fresado 90º - AD..1505.

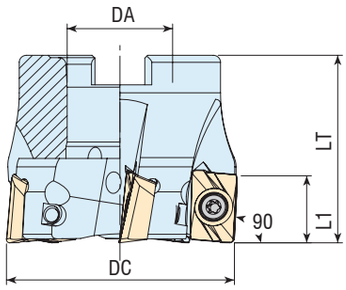




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-AD1505-D040-E16-4R	40	4	16	40	14.3	AD..1505..	TDA-066	LLT-15
NPDF90-AD1505-D050-E22-5R	50	5	22	40	14.3			
NPDF90-AD1505-D063-E22-6R	63	6	22	40	14.3			
NPDF90-AD1505-D080-E27-7R	80	7	27	50	14.3			
NPDF90-AD1505-D100-E32-8R	100	8	32	50	14.3			
NPDF90-AD1505-D125-E40-9	125	9	40	63	14.3			

Plato de Fresado 90º - AD..150508

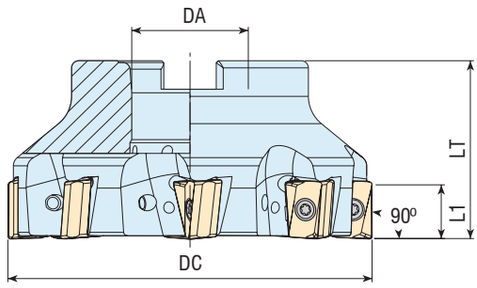




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-AD1505D-D050-E22-5R	50	5	22	40	14.3	ADKT150508	TDA-066	LLT-15
NPDF90-AD1505D-D063-E27-6R	63	6	27	50	14.3			
NPDF90-AD1505D-D080-E27-8R	80	8	27	50	14.3			
NPDF90-AD1505D-D100-E32-8R	100	8	32	50	14.3			
NPDF90-AD1505D-D125-E40-9	125	9	40	63	14.3			

Plato de Fresado 90º - ANGX1105.. / ANGX1506..

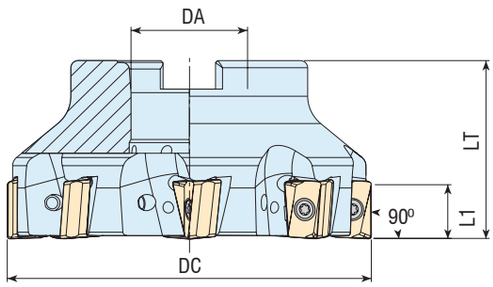




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-AN11-D040-E16-4R	40	4	16	40	11	ANGX1105..	TDA-032	LLT-10
NPDF90-AN1506-D050-E22-4R	50	4	22	40	14.5	ANGX1506..	TDA-067	LLT-15
NPDF90-AN1506-D063-E22-5R	63	5	22	40	14.5			
NPDF90-AN1506-D080-E27-6R	80	6	27	50	14.5			
NPDF90-AN1506-D100-E32-8R	100	8	32	50	14.5			
NPDF90-AN1506-D125-E40-9	125	9	40	63	14.5			
NPDF90-AN1506-D160-E40-10	160	10	40	63	14.5			

Plato de Fresado 90º - AN.X1607..

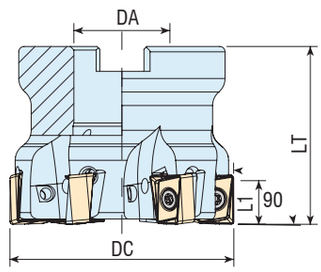




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-AN1607-D050-E22-4R	50	4	22	40	15	AN.X1607..	TDA-066	LLT-15
NPDF90-AN1607-D063-E22-6R	63	6	22	40	15			
NPDF90-AN1607-D080-E27-7R	80	7	27	50	15			
NPDF90-AN1607-D100-E32-8R	100	8	32	50	15			
NPDF90-AN1607-D125-E40-10	125	10	40	63	15			

Plato de Fresado 90º - ANKX1205..

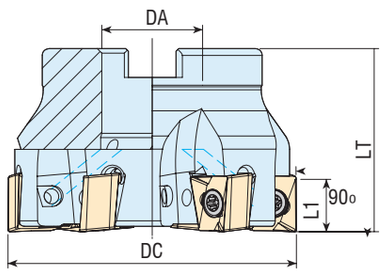




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-AN12-D040-E16-4R	40	4	16	40	12	ANKX1205..	TDA-067	LLT-15
NPDF90-AN12-D050-E22-5R	50	5	22	40	12			
NPDF90-AN12-D063-E27-6R	63	6	27	50	12			

Plato de Fresado 90º - ANKX1207 / ANKX1607

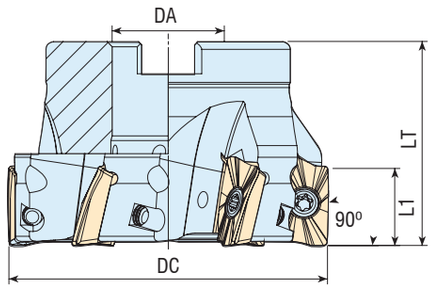




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-AN1207-D040-E16-4R	40	4	16	40	10	ANKX1207..	TDA-066	LLT-15
NPDF90-AN1207-D050-E22-5R	50	5	22	40	10			
NPDF90-AN1207-D063-E22-6R	63	6	22	40	10			
NPDF90-AN1607X-D050-E22-4R	50	4	22	40	15	ANKX1607..	TDA-066	LLT-15
NPDF90-AN1607X-D063-E22-6R	63	6	22	40	15			
NPDF90-AN1607X-D080-E27-7R	80	7	27	50	15			

Plato de Fresado 90º - AO..1236 / AO..1848

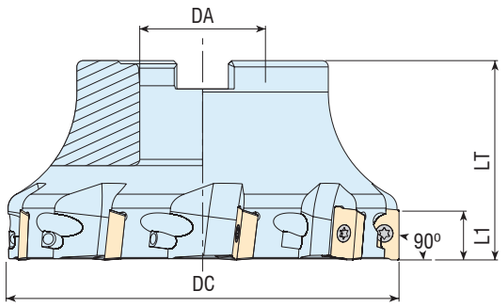




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-AO1236-D050-E22-5R	50	5	22	40	10	AO..1236..	TDA-014	LLT-8
NPDF90-AO1848-D050-E22-5R	50	5	22	40	15	AO..1848..	TDA-066	LLT-15
NPDF90-AO1848-D063-E22-6R	63	6	22	40	15			

Plato de Fresado 90º - AP..1003 / AP..1604..

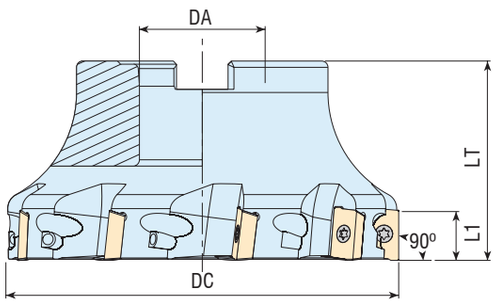




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-AP10-D040-E16-5R	40	5	16	40	10	AP..1003..	TDA-014	LLT-8
NPDF90-AP10-D050-E22-6R	50	6	22	40	10			
NPDF90-AP10-D063-E22-7R	63	7	22	40	10			
NPDF90-AP10-D080-E27-8R	80	8	27	50	10			
NPDF90-AP10-D100-E32-9R	100	9	32	50	10			
NPDF90-AP16-D040-E16-4R	40	4	16	40	16	AP..1604..	TDA-066	LLT-15
NPDF90-AP16-D050-E22-5R	50	5	22	40	16			
NPDF90-AP16-D052-E22-5R	52	5	22	40	16			
NPDF90-AP16-D063-E22-6R	63	6	22	40	16			
NPDF90-AP16-D080-E27-7R	80	7	27	50	16			
NPDF90-AP16-D100-E32-8R	100	8	32	50	16			
NPDF90-AP16-D125-E40-9	125	9	40	63	16			
NPDF90-AP16-D160-E40-10	160	10	40	63	16			
NPDF90-AP16-D200-E60-12	200	12	60	63	16			

Plato de Fresado 90º - AP..1705..

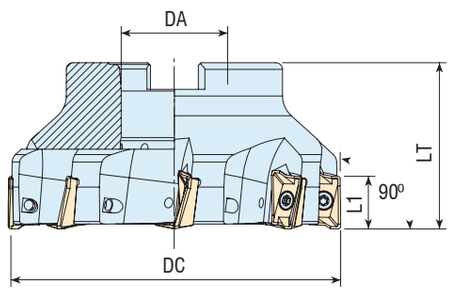




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-AP1705-D050-E22-5R	50	5	22	40	16	AP..1705..	TDA-066	LLT-15
NPDF90-AP1705-D063-E22-6R	63	6	22	40	16			
NPDF90-AP1705-D080-E27-7R	80	7	27	50	16			
NPDF90-AP1705-D100-E32-8R	100	8	32	50	16			

Plato de Fresado 90º - AX.T1235.. / AX.T1705..

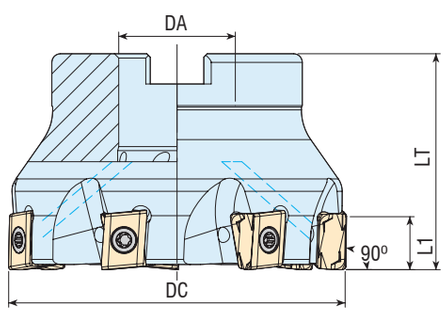




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-AX1235-D040-E16-6R	40	6	16	40	10	AX.T1235..	TDA-028	LLT-8
NPDF90-AX1235-D050-E22-7R	50	7	22	40	10			
NPDF90-AX1235-D063-E22-8R	63	8	22	40	10			
NPDF90-AX1235-D080-E27-10R	80	10	27	50	10			
NPDF90-AX1705-D040-E16-4R	40	4	16	40	14	AX.T1705..	TDA-066	LLT-15
NPDF90-AX1705-D050-E22-5R	50	5	22	40	14			
NPDF90-AX1705-D063-E22-6R	63	6	22	40	14			
NPDF90-AX1705-D080-E27-7R	80	7	27	50	14			
NPDF90-AX1705-D100-E32-8R	100	8	32	50	14			

Plato de Fresado 90º - LNMT1506..

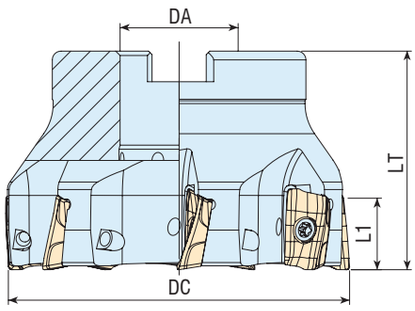




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-LN1506X-D063-E22-6	63	6	22	40	7	LNMT1506..	TDA-062	LLT-15
NPDF90-LN1506X-D080-E27-7	80	7	27	50	7			
NPDF90-LN1506X-D100-E32-8	100	8	32	50	7			

Plato de Fresado 90º - BDMT11T3.. / BDMT1704..

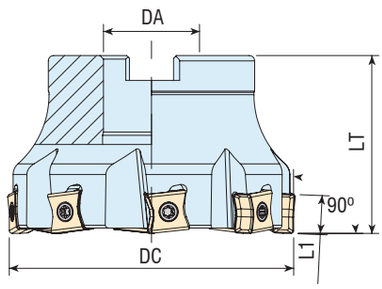




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-BD11T3-D040-E16-4R	40	4	16	40	10	BDMT11T3..	TDA-028	LLT-8
NPDF90-BD11T3-D040-E16-5R	40	5	16	40	10			
NPDF90-BD11T3-D050-E22-5R	50	5	22	40	10			
NPDF90-BD11T3-D063-E22-6R	63	6	22	40	10			
NPDF90-BD1704-D050-E22-4R	50	4	22	40	15.7	BDMT1704..	TDA-066	LLT-15
NPDF90-BD1704-D050-E22-5R	50	5	22	40	15.7			
NPDF90-BD1704-D063-E22-6R	63	6	22	40	15.7			
NPDF90-BD1704-D080-E27-6R	80	6	27	50	15.7			
NPDF90-BD1704-D080-E27-7R	80	7	27	50	15.7			
NPDF90-BD1704-D100-E32-7R	100	7	32	50	15.7			

Plato de Fresado 90º - LN..

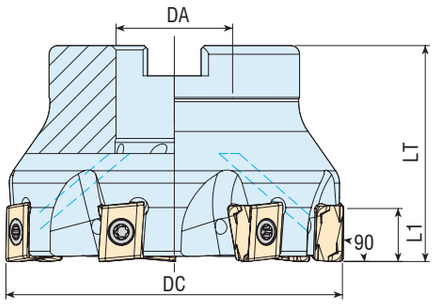




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-LN1106-D050-E22-5	50	5	22	40	10	LNMT1106..	TDA-049	LLT-15
NPDF90-LN1106-D063-E22-6	63	6	22	40	10			
NPDF90-LN1106-D080-E27-8	80	8	27	50	10			
NPDF90-LN1106-D100-E32-9	100	9	32	50	10			
NPDF90-LN1106-D125-E40-10	125	10	40	63	10			
NPDF90-LN1306-D040-E16-4R	40	4	16	40	12.5	T490-LNMT1306	TDA-066	LLT-15
NPDF90-LN1306-D050-E22-5R	50	5	22	40	12.5			
NPDF90-LN1306-D063-E22-6R	63	6	22	40	12.5			
NPDF90-LN1306-D080-E27-7R	80	7	27	50	12.5			
NPDF90-LN1306-D100-E32-8R	100	8	32	50	12.5			
NPDF90-LN1506-D040-E16-4	40	4	16	40	14			
NPDF90-LN1506-D050-E22-5	50	5	22	40	14			
NPDF90-LN1506-D063-E22-6	63	6	22	40	14			
NPDF90-LN1506-D080-E27-7	80	7	27	50	14			
NPDF90-LN1607-D050-E22-3R	50	3	22	40	16	T490-LNHT1607	TDA-087	LLT-20
NPDF90-LN1607-D063-E22-4R	63	4	22	40	16			
NPDF90-LN1607-D080-E27-5R	80	5	27	50	16			
NPDF90-LN1607-D100-E32-6R	100	6	32	50	16			

Plato de Fresado 90º - LNHU1306..

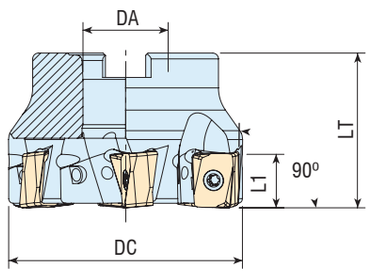




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-LN1306W-D050-E22-5R	50	5	22	40	12	LNHU1306..	TDA-068	LLT-15
NPDF90-LN1306W-D063-E22-6R	63	6	22	40	12			
NPDF90-LN1306W-D080-E27-7R	80	7	27	50	12			

Plato de Fresado 90º - LNGX1307..

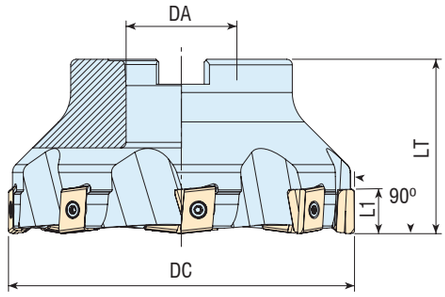




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-LN1307-D050-E22-4R	50	4	22	40	13	LNGX1307..	TDA-057	LLT-15
NPDF90-LN1307-D063-E22-6R	63	6	22	40	13			
NPDF90-LN1307-D080-E27-7R	80	7	27	50	13			
NPDF90-LN1307-D100-E32-8R	100	8	32	50	13			

Plato de Fresado 90º - LNKT1506..

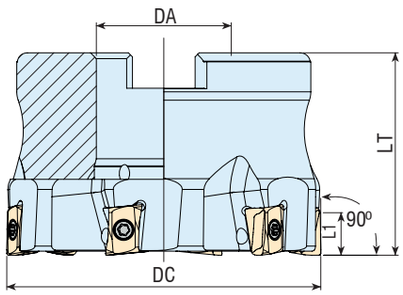




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-LN15Z-D050-E22-4	50	4	22	40	15	LNKT1506..	TDA-066	80-0T15
NPDF90-LN15Z-D063-E22-5	63	5	22	40	15			
NPDF90-LN15Z-D080-E27-6	80	6	27	50	15			
NPDF90-LN15Z-D100-E32-7	100	7	32	50	15			
NPDF90-LN15Z-D125-E40-8	125	8	40	63	15			

Plato de Fresado 90º - LOEX0804..

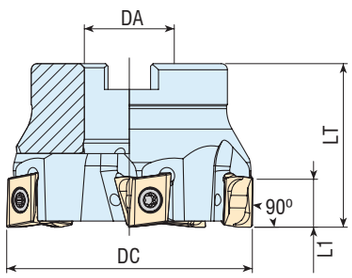




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-LO08-D040-E16-6R	40	6	16	40	2	LOEX0804..	TDA-015	LLT-8
NPDF90-LO08-D050-E22-7R	50	7	22	40	2			
NPDF90-LO08-D063-E27-6R	63	6	27	40	2			

Plato de Fresado 90º - LOGU1207..

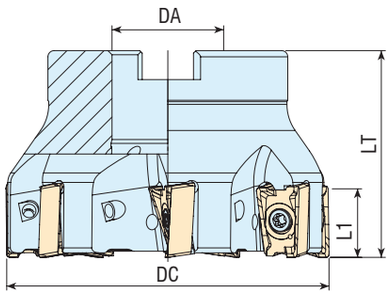




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-LO1207-D040-E16-4R	40	4	16	40	11	LOGU1207..	TDA-062	LLT-15
NPDF90-LO1207-D050-E22-5R	50	5	22	40	11			
NPDF90-LO1207-D063-E22-5R	63	5	22	40	11			

Plato de Fresado 90º - LNGU15T6..

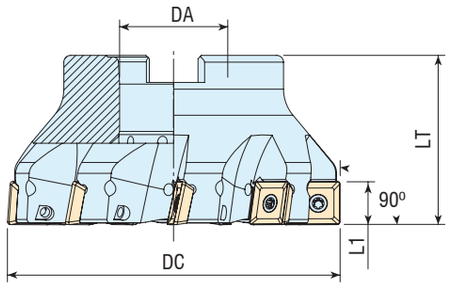




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-LN15T6-D050-E22-5R	50	5	22	40	15.5	LNGU15T6..	TDA-067	LLT-15
NPDF90-LN15T6-D063-E22-6R	63	6	22	40	15.5			
NPDF90-LN15T6-D080-E27-7R	80	7	27	50	15.5			

Plato de Fresado 90º - R290-12T3..

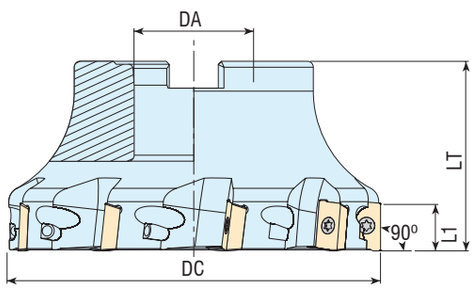




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-R290.12-D050-E22-4R	50	4	22	40	10.7	R290-12T3..	TDA-049	LLT-15
NPDF90-R290.12-D063-E22-5R	63	5	22	40	10.7			
NPDF90-R290.12-D080-E27-7R	80	7	27	50	10.7			
NPDF90-R290.12-D100-E32-9R	100	9	32	50	10.7			
NPDF90-R290.12-D125-E40-11	125	11	40	6	10.7			

Plato de Fresado 90º - R390...

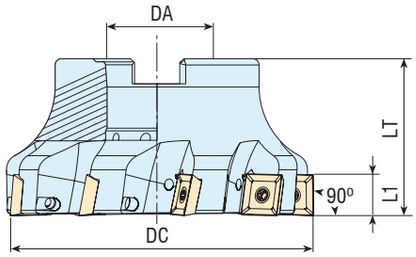




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-R390.11-D040-E16-5R	40	5	16	40	10	R390-11T3..	TDA-014	LLT-8
NPDF90-R390.11-D050-E22-6R	50	6	22	40	10			
NPDF90-R390.11-D063-E22-7R	63	7	22	40	10			
NPDF90-R390.11-D080-E27-9R	80	9	27	50	10			
NPDF90-R390.17-D040-E16-4R	40	4	16	40	15.4	R390-1704..	TDA-049	LLT-15
NPDF90-R390.17-D050-E22-5R	50	5	22	40	15.4			
NPDF90-R390.17-D063-E22-6R	63	6	22	40	15.4			
NPDF90-R390.17-D080-E27-7R	80	7	27	50	15.4			
NPDF90-R390.17-D100-E32-8R	100	8	32	50	15.4			
NPDF90-R390.17-D125-E40-9	125	9	40	63	15.4			
NPDF90-R390.18-D050-E22-4R	50	4	22	40	15.4	R390-1806..	TDA-066	LLT-15
NPDF90-R390.18-D063-E22-5R	63	5	22	40	15.4			
NPDF90-R390.18-D080-E27-6R	80	6	27	50	15.4			
NPDF90-R390.18-D100-E32-7R	100	7	32	50	15.4			
NPDF90-R390.18-D125-E40-8	125	8	40	63	15.4			

Plato de Fresado 90º - 490R-08T3.. / 490R-1404..

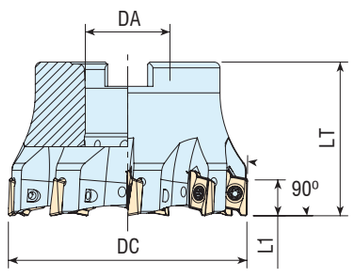




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-490R08-D063-E22-6R	63	6	22	40	5.5	490R-08T3..	TDA-014	LLT-8
NPDF90-490R14-D050-E22-4R	50	4	22	40	10	490R-1404..	TDA-047	LLT-15
NPDF90-490R14-D063-E22-5R	63	5	22	40	10			
NPDF90-490R14-D080-E27-7R	80	7	27	50	10			
NPDF90-490R14-D100-E32-7R	100	7	32	50	10			
NPDF90-490R14-D125-E40-8	125	8	40	63	10			
NPDF90-490R14-D160-E40-12	160	12	40	63	10			
NPDF90-490R14-D200-E60-16	200	16	60	63	10			

Plato de Fresado 90º - RT1003..

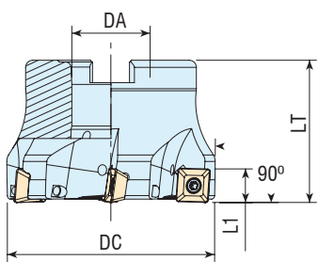




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-RT10-D040-E16-6R	40	6	16	40	10	RT1003..	TDA-014	LLT-8
NPDF90-RT10-D050-E22-7R	50	7	22	40	10			
NPDF90-RT10-D063-E22-9R	63	9	22	40	10			

Plato de Fresado 90º - SEET09T3..

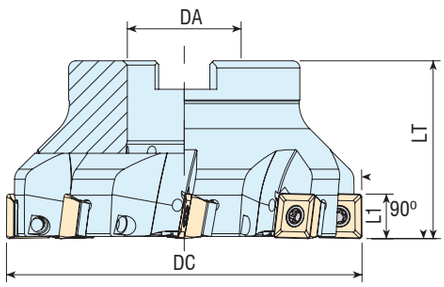




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-SE09-D040-E16-4R	40	4	16	40	6.7	SEET09T3..	TDA-027	LLT-8
NPDF90-SE09-D050-E22-5R	50	5	22	40	6.7			
NPDF90-SE09-D063-E22-6R	63	6	22	40	6.7			

Plato de Fresado 90º - SDMT1204..

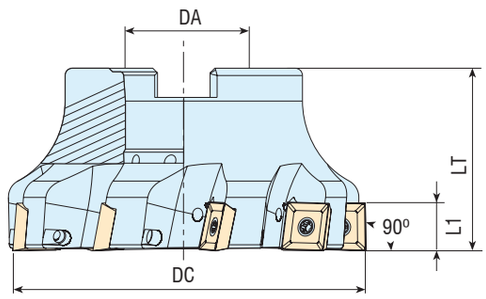




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Placa base	Tornillo base	Tornillo placa	Llave
NPDF90S-SD1204-D050-E22-4R	50	4	22	40	11	SDMT1204..	PB-024	TPB-013	TDA-050	LLT-15
NPDF90S-SD1204-D063-E22-5R	63	5	22	40	11			TPB-011	TDA-051	LLT-15
NPDF90S-SD1204-D080-E27-6R	80	6	27	50	11					
NPDF90S-SD1204-D100-E32-8R	100	8	32	50	11					
NPDF90S-SD1204-D125-E40-10	125	10	40	63	11					
NPDF90S-SD1204-D160-E40-12	160	12	40	63	11					

Plato de Fresado 90º - SD..09M4.. / SD..1305..

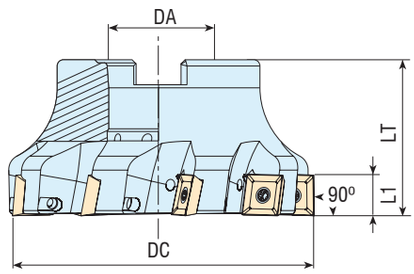




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-SD09M4-D040-E16-4R	40	4	16	40	9	SD..09M4..	TDA-049	LLT-15
NPDF90-SD09M4-D050-E22-5R	50	5	22	40	9			
NPDF90-SD09M4-D063-E22-6R	63	6	22	40	9			
NPDF90-SD09M4-D080-E27-7R	80	7	27	50	9			
NPDF90-SD1305-D050-E22-4R	50	4	22	40	13	SD..1305..	TDA-081	LLT-20
NPDF90-SD1305-D063-E22-5R	63	5	22	40	13			
NPDF90-SD1305-D080-E27-6R	80	6	27	50	13			
NPDF90-SD1305-D100-E32-7R	100	7	32	50	13			
NPDF90-SD1305-D125-E40-8	125	8	40	63	13			
NPDF90-SD1305-D160-E40-10	160	10	40	63	13			

Plato de Fresado 90º - SEET1203..

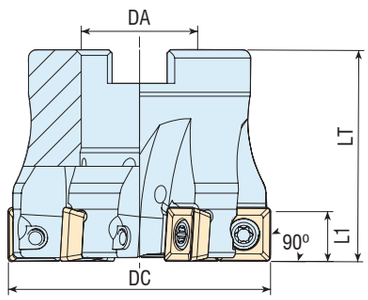




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-SE12-D050-E22-4R	50	4	22	40	12	SEET1203..	TDA-049	LLT-15
NPDF90-SE12-D063-E22-5R	63	5	22	40	12			
NPDF90-SE12-D080-E27-7R	80	7	27	50	12			
NPDF90-SE12-D100-E32-9R	100	9	32	50	12			
NPDF90-SE12-D125-E40-11	125	11	40	63	12			

Plato de Fresado 90º - SPMT1004.. / XPMT1004.. / QPMR1004.. / QPMT1004..

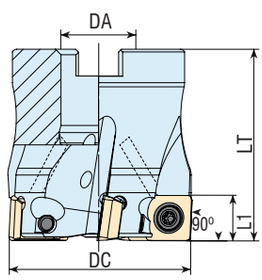




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-SP1004-D040-E16-4R	40	4	16	40	9.4	SPMT1004..	TDA-065	LLT-15
NPDF90-SP1004-D050-E22-4R	50	4	22	40	9.4	XPMT1004..		
NPDF90-SP1004-D050-E22-6R	50	6	22	40	9.4	QPMR1004..		
NPDF90-SP1004-D063-E22-5R	63	5	22	40	9.4	QPMT1004..		
NPDF90-SP1004-D080-E27-7R	80	7	27	50	9.4			
NPDF90-SP1004-D100-E32-8R	100	8	32	50	9.4			

Plato de Fresado 90º - SPMT09T3..

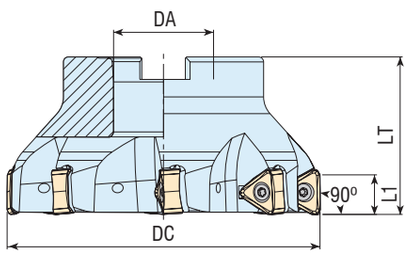




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-SP09T3-D040-E16-5R	40	5	16	40	8.6	SPMT09T3..	TDA-044	LLT-10
NPDF90-SP09T3-D050-E22-6R	50	6	22	40	8.6			
NPDF90-SP09T3-D063-E22-7R	63	7	22	40	8.6			
NPDF90-SP09T3-D080-E27-8R	80	8	27	50	8.6			

Plato de Fresado 90º - TN.X2207..

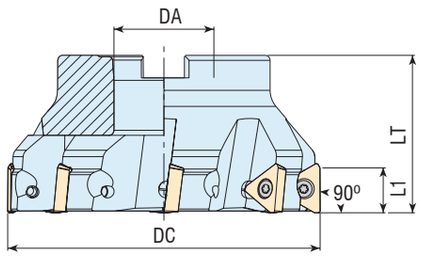




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-TN2207-D063-E22-4R	63	4	22	40	15	TN.X2207..	TDA-075	LLT-20
NPDF90-TN2207-D080-E27-5R	80	5	27	50	15			
NPDF90-TN2207-D100-E32-6	100	6	32	50	15			
NPDF90-TN2207-D125-E40-8	125	8	40	63	15			

Plato de Fresado 90º - TPKT2205..

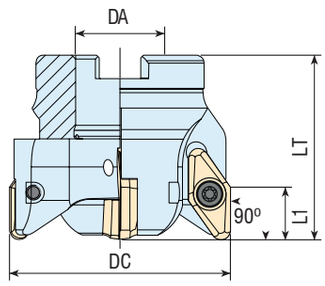




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-TP2205-D063-E22-4	63	4	22	40	18	TPKT2205..	TDA-075	LLT-20
NPDF90-TP2205-D080-E27-6	80	6	27	50	18			
NPDF90-TP2205-D100-E32-7	100	7	32	50	18			
NPDF90-TP2205-D125-E40-8	125	8	40	63	18			
NPDF90-TP2205-D160-E40-9	160	9	40	63	18			
NPDF90-TP2205-D200-E60-12	200	12	60	63	18			

Plato de Fresado 90º - VCKT2205..

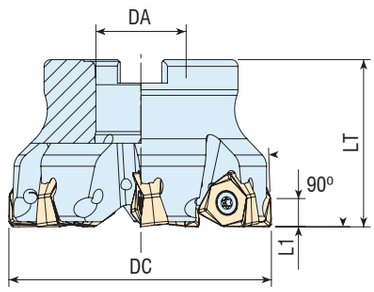




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-VC2205-D050-E22-3R	50	3	22	55	15	VCKT2205..	TDA-077	LLT-15
NPDF90-VC2205-D063-E22-4R	63	4	22	55	15			
NPDF90-VC2205-D066-E27-4R	66	4	27	55	15			
NPDF90-VC2205-D080-E27-5R	80	5	27	60	15			

Plato de Fresado 90º - WNGU0403.. / WNGU0806..

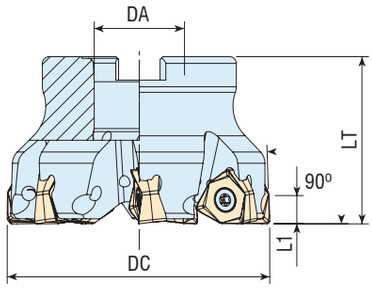




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-WNG04-D040-E16-6R	40	6	16	40	4	WNGU0403..	TDA-014	LLT-8
NPDF90-WNG04-D050-E22-5R	50	5	22	40	4			
NPDF90-WNG04-D050-E22-7R	50	7	22	40	4			
NPDF90-WNG04-D063-E22-6R	63	6	22	40	4			
NPDF90-WNG08-D050-E22-5R	50	5	22	40	7.5	WMGU0806..	TDA-066	LLT-15
NPDF90-WNG08-D063-E22-6R	63	6	22	40	7.5			
NPDF90-WNG08-D080-E27-7R	80	7	27	50	7.5			

Plato de Fresado 90º - WNGU0403.. / WNGU0806..

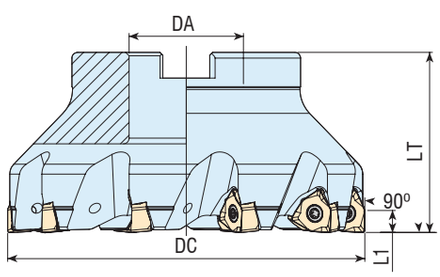




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-WNG04-D040-E16-6R	40	6	16	40	4	WNGU0403..	TDA-014	LLT-8
NPDF90-WNG04-D050-E22-5R	50	5	22	40	4			
NPDF90-WNG04-D050-E22-7R	50	7	22	40	4			
NPDF90-WNG04-D063-E22-6R	63	6	22	40	4			
NPDF90-WNG08-D050-E22-5R	50	5	22	40	7.5	WMGU0806..	TDA-066	LLT-15
NPDF90-WNG08-D063-E22-6R	63	6	22	40	7.5			
NPDF90-WNG08-D080-E27-7R	80	7	27	50	7.5			

Plato de Fresado 90º - WNHU0604.. / WNHU0806..

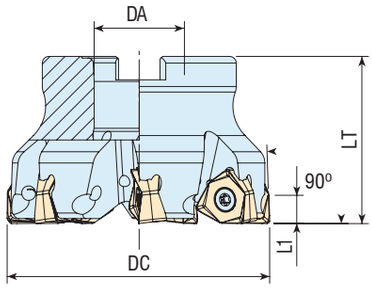




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-WN0604Z-D040-E16-4R	40	4	16	40	5.7	WNHU0604..	TDA-027	LLT-8
NPDF90-WN0604Z-D050-E22-5R	50	5	22	40	5.7			
NPDF90-WN0604Z-D063-E22-6R	63	6	22	40	5.7			
NPDF90-WN0604Z-D080-E27-7R	80	7	27	50	5.7			
NPDF90-WN0604Z-D100-E32-9R	100	9	32	50	5.7			
NPDF90-WN0806Z-D050-E22-4R	50	4	22	40	7.7	WHNU0806..	TDA-066	LLT-15
NPDF90-WN0806Z-D063-E22-5R	63	5	22	40	7.7			
NPDF90-WN0806Z-D080-E27-6R	80	6	27	50	7.7			
NPDF90-WN0806Z-D100-E32-8R	100	8	32	50	7.7			
NPDF90-WN0806Z-D125-E40-10	125	10	40	63	7.7			
NPDF90-WN0806Z-D160-E40-12	160	12	40	63	7.7			

Plato de Fresado 90º - WNMX080608

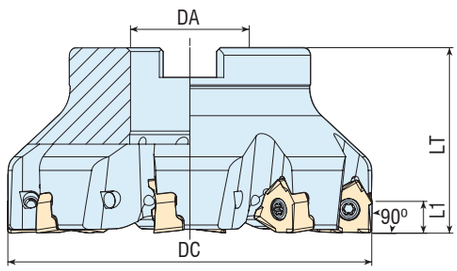




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-WN0806-D050-E16-4R	50	4	16	40	8	WNMX080608	TDA-084	LLT-15
NPDF90-WN0806-D063-E22-5R	63	5	22	40	8			
NPDF90-WN0806-D080-E27-7R	80	7	27	50	8			

Plato de Fresado 90º - XNEX0403.. / XNEX0806..

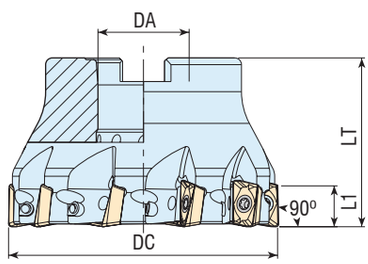




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-XN0403-D040-E16-5R	40	5	16	40	4	XNEX0403..	TDA-014	LLT-8
NPDF90-XN0806-D050-E22-4R	50	4	22	40	7.5	XNEX0806..	TDA-066	LLT-15
NPDF90-XN0806-D063-E22-5R	63	5	22	40	7.5			
NPDF90-XN0806-D080-E27-7R	80	7	27	50	7.5			
NPDF90-XN0806-D100-E32-8R	100	8	32	50	7.5			

Plato de Fresado 90º - XO..1204..

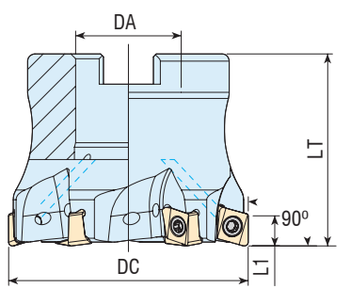




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-XO12-D040-E16-5R	40	5	16	40	11	XO..1204..	TDA-044	LLT-10
NPDF90-XO12-D050-E22-7R	50	7	22	40	11			
NPDF90-XO12-D063-E22-8R	63	8	22	40	11			
NPDF90-XO12-D080-E27-10R	80	10	27	50	11			
NPDF90-XO12-D100-E32-12R	100	12	32	50	11			

Plato de Fresado 90º - 4NKT0603..

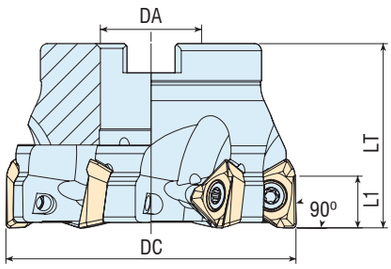




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-4N06-D040-E16-5R	40	5	16	40	6	4NKT0603..	TDA-024	LLT-8
NPDF90-4N06-D050-E22-6R	50	6	22	40	6			

Plato de Fresado 90º - 3PKT1004..

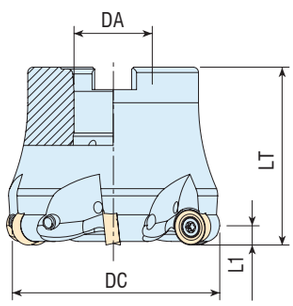




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDF90-3P1004-D040-E16-5R	40	5	16	40	7	3PKT1004..	TDA-012	LLT-8
NPDF90-3P1004-D050-E22-6R	50	6	22	40	7			
NPDF90-3P1505-D050-E22-4R	50	4	22	40	11	3PKT1505..	TDA-056	LLT-15
NPDF90-3P1505-D050-E22-5R	50	5	22	40	11			
NPDF90-3P1505-D063-E22-4R	63	4	22	40	11			
NPDF90-3P1505-D063-E22-6R	63	6	22	40	11			
NPDF90-3P1505-D080-E27-7R	80	7	27	50	11			
NPDF90-3P1505-D100-E32-8R	100	8	32	50	11			
NPDF90-3P1505-D125-E40-10	125	10	40	63	11			

Plato de Fresado - RC..10T3..

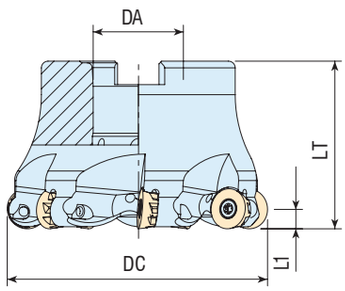




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDFR-RC10T3-D040-E16-4R	40	4	16	40	5	RC..10T3..	TDA-066	LLT-15
NPDFR-RC10T3-D050-E22-5R	50	5	22	50	5			
NPDFR-RC10T3-D063-E22-6R	63	6	22	50	5			

Plato de Fresado - RPNX10T3.. / RPNX1204..

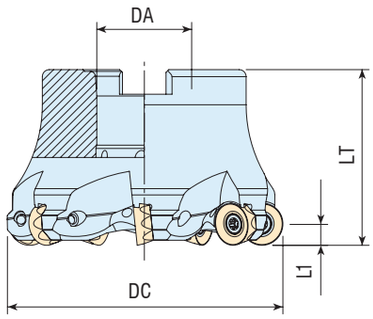




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDFR-RP10T3-D063-E22-6R	63	6	22	40	5	RPNX10T3..	TDA-032	LLT-10
NPDFR-RP10T3-D080-E27-7R	80	7	27	50	5			
NPDFR-RP1204-D040-E16-4R	40	4	16	40	6	RPNX1204..	TDA-049	LLT-15
NPDFR-RP1204-D080-E27-7R	80	7	27	50	6			

Plato de Fresado - RC..1204..

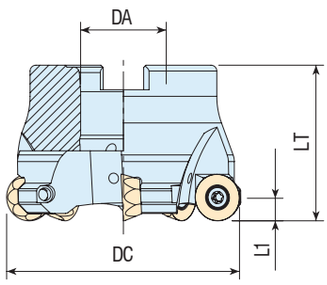




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDFR-RC1204-D040-E16-4R	40	4	16	40	6	RC..1204..	TDA-049	LLT-15
NPDFR-RC1204-D050-E22-5R	50	5	22	50	6			
NPDFR-RC1204-D052-E22-5R	52	5	22	50	6			
NPDFR-RC1204-D063-E22-6R	63	6	22	50	6			
NPDFR-RC1204-D063-E27-6R	80	6	27	50	6			
NPDFR-RC1204-D080-E27-7R	80	7	27	50	6			

Plato de Fresado - QP..10T3.. / QP..1204..

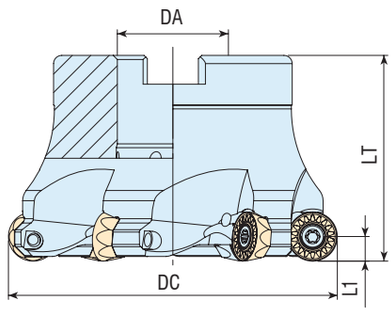




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDFR-QP10T3-D040-E16-4R	40	4	16	40	5	QP..10T3..	TDA-049	LLT-15
NPDFR-QP10T3-D050-E22-5R	50	5	22	40	5			
NPDFR-QP10T3-D063-E22-6R	63	6	22	40	5			
NPDFR-QP1204-D050-E22-4R	50	4	22	40	6	QP..1204..	TDA-066	LLT-15
NPDFR-QP1204-D063-E22-5R	63	5	22	40	6			

Plato de Fresado - RPMT1204..

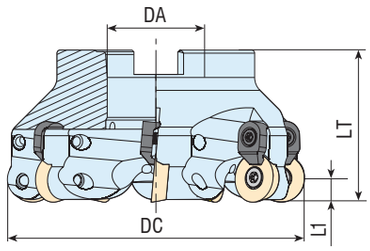




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDFR-RP1204M-D050-E22-4R	50	4	22	50	6	RPMT1204..	TDA-066	LLT-15
NPDFR-RP1204M-D052-E22-5R	52	5	22	50	6			
NPDFR-RP1204M-D063-E22-5R	63	6	22	50	6			
NPDFR-RP1204M-D080-E27-6R	80	7	27	50	6			

Plato de Fresado - RD..

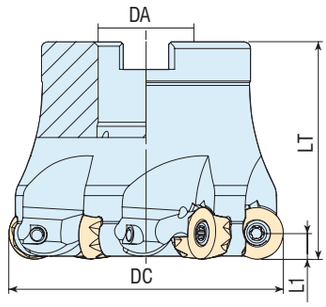




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Brida Placa	Tornillo Brida	Llave
NPDFR-RD0702-D050-E22-6R	50	6	22	40	3.5	RD..0702..	TDA-014	-	-	LLT-8
NPDFR-RD0803-D050-E22-5R	50	5	22	40	4	RD..0803..	TDA-027	-	-	LLT-8
NPDFRC-RD1003-D040-E16-4R	40	4	16	40	5	RD..1003..	TDA-049	BDA-26	TDA-049	LLT-15
NPDFRC-RD1003-D050-E22-5R	50	5	22	50	5					
NPDFRC-RD1003-D052-E22-5	52	5	22	50	5					
NPDFRC-RD1003-D063-E22-6R	63	6	22	50	5					
NPDFRC-RD1003-D080-E27-7R	80	7	27	50	5					
NPDFRC-RD1003-D100-E32-8R	100	8	32	50	5					
NPDFRC-RD10T3-D050-E22-5R	50	5	22	50	5	RD..10T3..	TDA-049	BDA-26	TDA-049	LLT-15
NPDFRC-RD10T3-D063-E22-6R	63	6	22	50	5					
NPDFRC-RD12T3-D040-E16-4R	40	4	16	40	6	RD..12T3..	TDA-049	BDA-26	TDA-049	LLT-15
NPDFRC-RD12T3-D050-E22-5R	50	5	22	50	6					
NPDFRC-RD12T3-D052-E22-5R	52	5	22	50	6					
NPDFRC-RD12T3-D063-E22-6R	63	6	22	50	6					
NPDFRC-RD12T3-D080-E27-7R	80	7	27	50	6					
NPDFRC-RD12T3-D100-E32-8R	100	8	32	50	6					
NPDFRC-RD12T3-D125-E40-9	125	9	40	63	6					
NPDFRC-RD1204-D040-E16-4R	40	4	16	40	6	RD..1204..	TDA-049	BDA-26	TDA-049	LLT-15
NPDFRC-RD1204-D050-E22-5R	50	5	22	50	6					
NPDFRC-RD1204-D052-E22-5R	52	5	22	50	6					
NPDFRC-RD1204-D063-E22-6R	63	6	22	50	6					
NPDFRC-RD1204-D080-E27-7R	80	7	27	50	6					
NPDFRC-RD1204-D100-E32-7R	100	7	32	50	6					
NPDFRC-RD1204-D100-E32-8R	100	8	32	50	6					
NPDFRC-RD1604-D050-E22-4R	50	4	22	50	8	RD..1604..	TDA-077	BDA-18	TDA-066	LLT-15
NPDFRC-RD1604-D052-E22-4R	52	4	22	50	8					
NPDFRC-RD1604-D063-E22-5R	63	5	22	50	8					
NPDFRC-RD1604-D066-E22-5R	66	5	22	50	8					
NPDFRC-RD1604-D066-E27-5R	66	5	27	50	8					
NPDFRC-RD1604-D080-E27-6R	80	6	27	50	8					
NPDFRC-RD1604-D100-E32-7R	100	7	32	50	8					
NPDFRC-RD1604-D125-E40-7	125	7	40	63	8					
NPDFRC-RD1604-D160-E40-8	160	8	40	63	8					

Plato de Fresado - RYMX1004.. / RYMX1205..

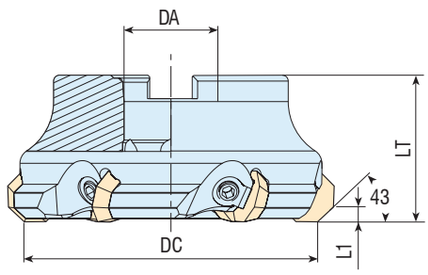




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Tornillo Placa	Llave
NPDFR-RY10-D040-E16-4R	40	4	16	40	5	RYMX1004..	TDA-049	LLT-15
NPDFR-RY10-D040-E16-5R	40	5	16	40	5			
NPDFR-RY10-D050-E22-5R	50	5	22	50	5			
NPDFR-RY10-D063-E22-6R	63	6	22	50	5			
NPDFR-RY12-D040-E16-4R	40	4	16	40	6	RYMX1205..	TDA-066	LLT-15
NPDFR-RY12-D050-E22-5R	50	5	22	50	6			
NPDFR-RY12-D052-E22-5R	52	5	22	50	6			
NPDFR-RY12-D063-E22-6R	63	6	22	50	6			
NPDFR-RY12-D080-E27-6R	80	6	27	50	6			
NPDFR-RY12-D100-E32-7R	100	7	32	50	6			

Plato de Fresado 43º - OF..0704..

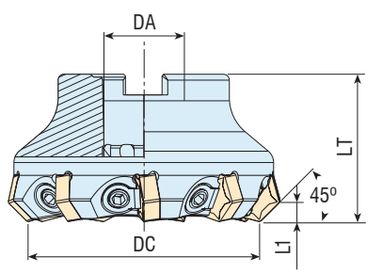




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Brida Placa	Tornillo Brida	Llave
NPDF43C-OF07-D063-E22-4	63	4	22	45	5	OF..0704..	BDA-24	TPA-012	LLA-4
NPDF43C-OF07-D080-E27-5	80	5	27	50	5				
NPDF43C-OF07-D100-E32-6	100	6	32	50	5				
NPDF43C-OF07-D125-E40-8	125	8	40	63	5				
NPDF43C-OF07-D160-E40-9	160	9	40	63	5				

Plato de Fresado 45º - HN..0905..

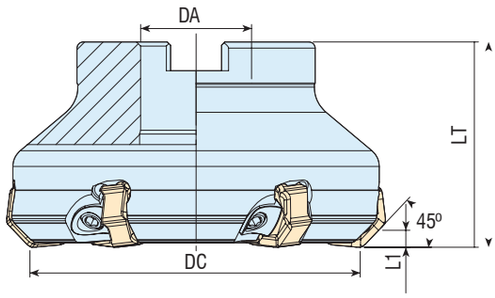




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Brida Placa	Tornillo Brida	Llave
NPDF45C-HN0905-D063-E22-7	63	7	22	40	4.5	HN..0905..	BDA-24	TPA-012	LLA-4
NPDF45C-HN0905-D080-E27-9	80	9	27	50	4.5				
NPDF45C-HN0905-D100-E32-11	100	11	32	50	4.5				
NPDF45C-HN0905-D125-E40-13	125	13	40	63	4.5				
NPDF45C-HN0905-D160-E40-15	160	15	40	63	4.5				

Plato de Fresado 45º - XNMU0806..

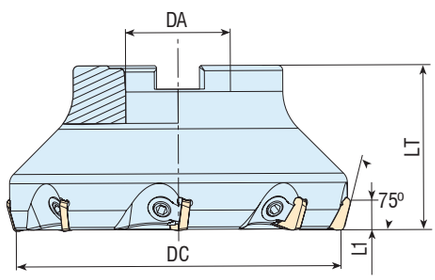




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Brida Placa	Tornillo Brida	Llave
NPDF45C-XN0806-D063-E22-5	63	5	22	50	4.5	XNMU0806..	BDA-31	TPA-016	LLA-3
NPDF45C-XN0806-D080-E27-6	80	6	27	50	4.5				
NPDF45C-XN0806-D100-E32-8	100	8	32	50	4.5				
NPDF45C-XN0806-D125-E40-8	125	8	40	63	4.5				
NPDF45C-XN0806-D160-E40-10	160	10	40	63	4.5				
NPDF45C-XN0806-D200-E60-12	200	12	60	63	4.5				

Plato de Fresado 75º - SPKN1203..

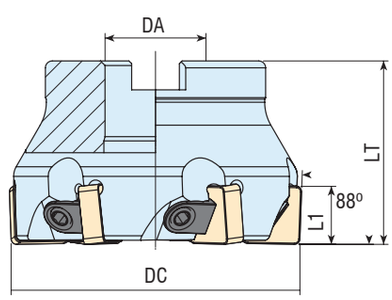




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Brida Placa	Tornillo Brida	Llave
NPDF75C-SP12-D050-E22-4	50	4	22	42	8	SPKN1203..	BDA-23	TPA-014	LLA-4
NPDF75C-SP12-D063-E22-5	63	5	22	40	8			TPA-010	LLA-4
NPDF75C-SP12-D080-E27-6	80	6	27	50	8				
NPDF75C-SP12-D100-E32-7	100	7	32	50	8				
NPDF75C-SP12-D125-E40-8	125	8	40	63	8				
NPDF75C-SP12-D160-E40-9	160	9	40	63	8				
NPDF75C-SP12-D200-E60-12	200	12	60	63	8				

Plato de Fresado 88º - SN..1204..

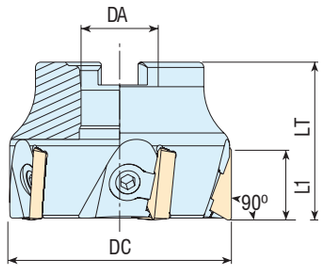




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Brida Placa	Tornillo Brida	Llave
NPDF88C-SN1204-D050-E22-5	50	5	22	40	11	SN..1204..	BDA-28	TPA-015	LLA-3
NPDF88C-SN1204-D063-E22-6	63	6	22	40	11				
NPDF88C-SN1204-D080-E27-7	80	7	27	50	11				
NPDF88C-SN1204-D100-E32-8	100	8	32	50	11				
NPDF88C-SN1204-D125-E40-11	125	11	40	63	11				

Plato de Fresado 90º - TP..1603.. / TP..2204..

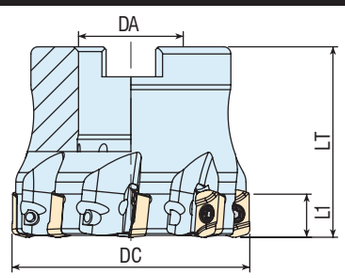




REFERENCIA	DC	Z	DA	LT	L1	INSERTO	Brida Placa	Tornillo Brida	Llave
NPDF90C-TP16-D050-E22-4	50	4	22	40	12	TP..1603..	BDA-23	TPA-014	LLA-4
NPDF90C-TP16-D063-E22-6	63	6	22	45	12			TPA-010	LLA-4
NPDF90C-TP16-D080-E27-7	80	7	27	50	12		BDA-24	TPA-011	LLA-4
NPDF90C-TP16-D100-E32-8	100	8	32	50	12				
NPDF90C-TP16-D125-E40-8	125	8	40	63	12				
NPDF90C-TP22-D063-E22-5	63	5	22	45	18	TP..2204..	BDA-24	TPA-011	LLA-4
NPDF90C-TP22-D080-E27-6	80	6	27	50	18				
NPDF90C-TP22-D100-E32-7	100	7	32	50	18				
NPDF90C-TP22-D125-E40-8	125	8	40	63	18				
NPDF90C-TP22-D160-E40-9	160	9	40	63	18				
NPDF90C-TP22-D200-E60-12	200	12	60	63	18				
NPDF90C-TP22-D250-E60-15	250	15	60	63	18				
NPDF90C-TP22-D315-E60-Z18	315	18	60	63	18				

Plato de Fresado - EP1003.. / ZPMT1003.. / YPHW1003..

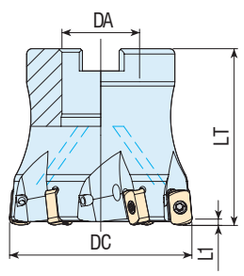




REFERENCIA	dcx	zepf	dcpon	lf	apmx	INSERTO	Tornillo Placa	Llave
NPDAA-EP1003-D050-E22-8R	50	8	22	40	1	-	TDA-014	LLT-8
NPDAA-EP1003-D063-E22-8R	63	8	22	40	1			

Plato de Fresado - ENMU1004..

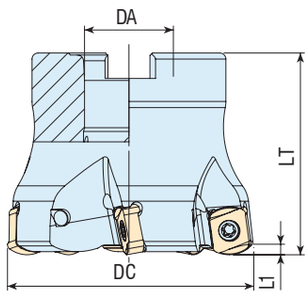




REFERENCIA	dcx	zepf	dcpon	lf	apmx	INSERTO	Tornillo Placa	Llave
NPDAA-EN1004-D050-E22-5R	50	5	22	50	1	ENMU1004..	TDA-014	LLT-8
NPDAA-EN1004-D050-E22-6R	50	6	22	50	1			
NPDAA-EN1004-D052-E22-6R	52	6	22	50	1			
NPDAA-EN1004-D063-E22-6R	63	6	22	50	1			

Plato de Fresado - BLP0603 / BLP0904..

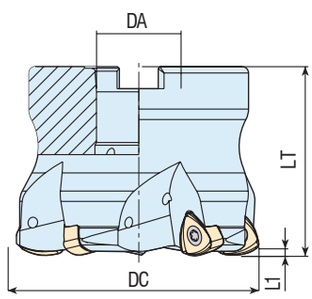




REFERENCIA	dcx	zepf	dcpon	lf	apmx	INSERTO	Tornillo Placa	Llave
NPDAA-BL0603-D040-E16-6R	40	6	16	40	1	BLMP0603..	TDA-014	LLT-8
NPDAA-BL0603-D050-E22-7R	50	7	22	40	1			
NPDAA-BL0904-D040-E16-5R	40	5	16	40	2	BLMP0904..	TDA-044	LLT-10
NPDAA-BL0904-D050-E22-6R	50	6	22	50	2			
NPDAA-BL0904-D063-E22-5R	63	5	22	50	2			
NPDAA-BL0904-D063-E22-7R	63	7	22	63	2			

Plato de Fresado - BLMP1205..

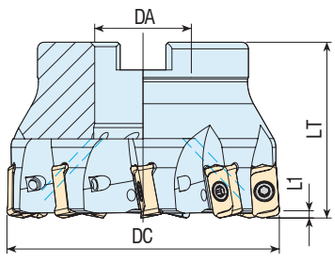




REFERENCIA	dcx	zepf	dcpon	lf	apmx	INSERTO	Tornillo Placa	Llave
NPDAA-BL1205-D050-E22-3R	50	3	22	40	2	BLMP1205..	TDA-066	LLT-15
NPDAA-BL1205-D063-E22-4R	63	4	22	40	2			
NPDAA-BL1205-D080-E27-5R	80	5	27	50	2			

Plato de Fresado - LOGU0303..

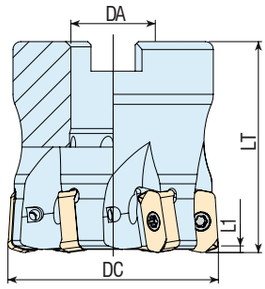




REFERENCIA	dcx	zepf	dcpon	lf	apmx	INSERTO	Tornillo Placa	Llave
NPDAA-LO03-D040-E16-6R	40	6	16	40	1	LOGU0303	TDA-024	LLT-8
NPDAA-LO03-D050-E22-7R	50	7	22	40	1			
NPDAA-LO03-D063-E22-9R	63	9	22	40	1			

Plato de Fresado - LNMU0303..

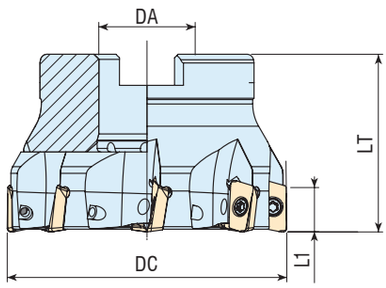




REFERENCIA	dcx	zepf	dcpon	lf	apmx	INSERTO	Tornillo Placa	Llave
NPDAA-LN0303-D040-E16-6R	40	6	16	40	12	LNMU0303..	TDA-014	LLT-8
NPDAA-LN0303-D050-E22-7R	50	7	22	50	12			
NPDAA-LN0303-D063-E22-9R	63	9	22	50	12			

Plato de Fresado - JDMT1003..

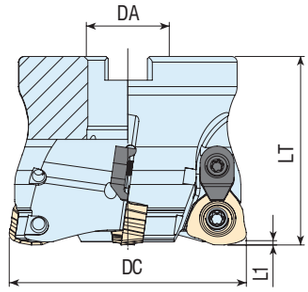




REFERENCIA	dcx	zepf	dcpon	lf	apmx	INSERTO	Tornillo Placa	Llave
NPDAA-JD1003-D040-E16-6R	40	6	16	40	9	JDMT1003..	TDA-014	LLT-8
NPDAA-JD1003-D063-E22-8R	63	8	22	40	9			

Plato de Fresado - JDMW1204.. / JDMW1405..

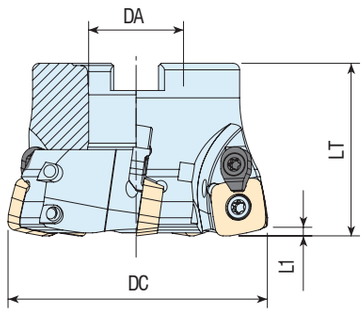




REFERENCIA	dcx	zepf	dcpon	lf	apmx	INSERTO	Tornillo Placa	Brida Placa	Tornillo Brida	Llave
NPDAAC-JD1204-D052-E22-3R	52	3	22	50	1.5	JDMW1204..	TDA-071	BDA-18	TDA-066	LLT-15
NPDAAC-JD1204-D052-E22-4R	52	4	22	50	1.5					
NPDAAC-JD1204-D063-E22-5R	63	5	22	50	1.5					
NPDAAC-JD1204-D080-E27-6R	80	6	27	50	1.5					
NPDAAC-JD1204-D100-E32-7R	100	7	32	50	1.5					
NPDAAC-JD1405-D052-E22-3R	52	3	22	40	2	JDMW1405..	TDA-081	BDA-18	TDA-066	LLT-20
NPDAAC-JD1405-D063-E22-4R	63	4	22	40	2					

Plato de Fresado - SD..1204

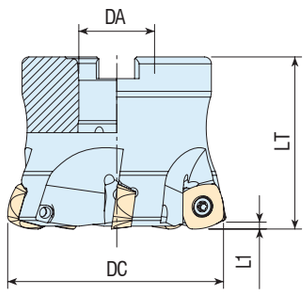




REFERENCIA	dcx	zepf	dcpon	lf	apmx	INSERTO	Tornillo Placa	Brida Placa	Tornillo Brida	Llave
NPDAA-SD1204-D050-E22-4R	50	4	22	40	1.8	SD..1204..	TDA-066	BDA-26	TDA-049	LLT-15
NPDAA-SD1204-D063-E22-5R	63	5	22	40	1.8					
NPDAA-SD1204-D080-E27-6R	80	6	27	50	1.8					
NPDAA-SD1204-D100-E32-8R	100	8	32	50	1.8					

Plato de Fresado - SD..1205..

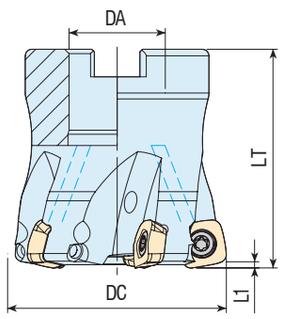




REFERENCIA	dcx	zepf	dcpon	lf	apmx	INSERTO	Tornillo Placa	Llave
NPDAA-SD1205-D052-E22-4R	52	4	22	50	2	SD..1205..	TDA-066	LLT-15
NPDAA-SD1205-D052-E22-5R	52	5	22	50	2			
NPDAA-SD1205-D066-E22-5R	66	5	22	50	2			
NPDAA-SD1205-D066-E22-6R	66	6	22	50	2			
NPDAA-SD1205-D080-E27-6R	80	6	27	70	2			

Plato de Fresado - SOMT1004..

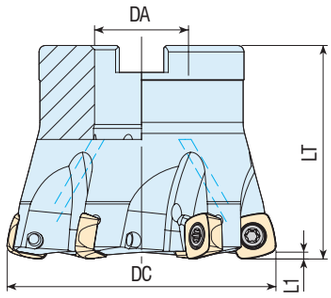




REFERENCIA	dcx	zepf	dcpon	lf	apmx	INSERTO	Tornillo Placa	Llave
NPDAA-SO1004-D050-E22-5R	50	5	22	50	1.5	SOMT1004..	TDA-066	LLT-15
NPDAA-SO1004-D063-E22-6R	63	6	22	50	1.5			
NPDAA-SO1004-D080-E27-7R	80	7	27	63	1.5			

Plato de Fresado - SPNW1004..

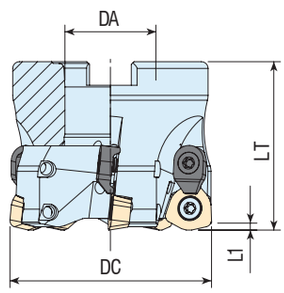




REFERENCIA	dcx	zepf	dcpon	lf	apmx	INSERTO	Tornillo Placa	Llave
NPDAA-SP1004-D050-E22-5R	50	5	22	50	1.5	SPNW1004..	TDA-045	LLT-15
NPDAA-SP1004-D052-E22-5R	52	5	22	50	1.5			
NPDAA-SP1004-D063-E22-6R	63	6	22	50	1.5			

Plato de Fresado - WD.W06T3.. / WD.W0805.. / WD.W10X6..



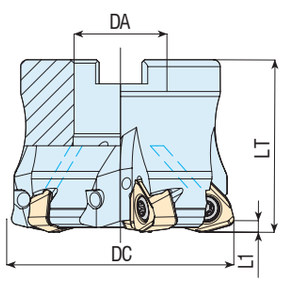


REFERENCIA	dcx	zepf	dcpon	lf	apmx	INSERTO	Tornillo Placa	Brida Placa	Tornillo Brida	Llave
NPDAAC-WD06T3D-D042-E16-4R	42	4	16	45	1.5	WD.W06T3..	TDA-045	BDA-26	TDA-049	LLT-15
NPDAAC-WD06T3D-D050-E22-5R	50	5	22	50	1.5					
NPDAAC-WD06T3D-D052-E22-5R	52	5	22	50	1.5					
NPDAAC-WD0805D-D052-E22-4R	52	4	22	50	2	WD.W0805..	TDA-079	BDA-27	TDA-079	LLT-20
NPDAAC-WD0805D-D063-E22-5R	63	5	22	50	2					
NPDAAC-WD0805D-D063-E27-5R	63	5	27	50	2					
NPDAAC-WD0805D-D066-E27-5R	66	5	27	50	2					
NPDAAC-WD0805D-D080-E27-5	80	5	27	50	2					
NPDAAC-WD0805D-D100-E32-6	100	6	32	50	2					
NPDAAC-WD10X6D-D125-E40-6	125	6	40	63	2.5	WD.W10X6..	TDA-079	BDA-27	TDA-079	LLT-20
NPDAAC-WD10X6D-D160-E40-7	160	7	40	63	2.5					

Plato de Fresado - WNMX09T3..



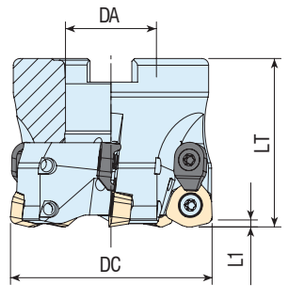
- Compatible con placas KRLY
- Placas no disponibles



REFERENCIA	dcx	zepf	dcpon	lf	apmx	INSERTO	Tornillo Placa	Llave
NPDAA-WN09T3-D040-E16-4R	40	4	16	40	1.5	WNMX09T3..	TDA-032	LLT-10
NPDAA-WN09T3-D050-E22-5R	50	5	22	40	1.5			
NPDAA-WN09T3-D063-E22-6R	63	6	22	40	1.5			

Plato de Fresado - WDMT0804.. / WDMT1205..

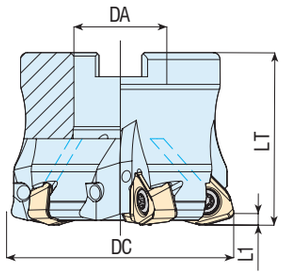




REFERENCIA	dcx	zepf	dcpon	lf	apmx	INSERTO	Tornillo Placa	Brida Placa	Tornillo Brida	Llave
NPDAAC-WD0804-D040-E16-4R	40	4	16	40	1.5	WDMT0804..	TDA-032	BDA-26	TDA-032	LLT-10
NPDAAC-WD0804-D050-E22-4R	50	4	22	50	1.5					
NPDAAC-WD1205-D050-E22-4R	50	4	22	50	3	WDMT1205..	TDA-058	BDA-18	TDA-066	LLT-15
NPDAAC-WD1205-D052-E22-4R	52	5	22	50	3					
NPDAAC-WD1205-D063-E22-5R	63	6	22	50	3					
NPDAAC-WD1205-D080-E27-6R	80	5	27	63	3					

Plato de Fresado - WNMU0907..

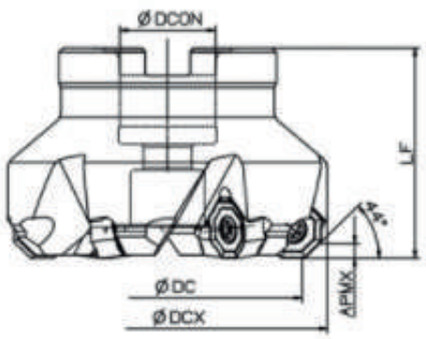




REFERENCIA	dcx	zepf	dcpon	lf	apmx	INSERTO	Tornillo Placa	Llave
NPDAA-WN0907-D050-E22-4R	50	4	22	50	3	WNMU0907..	TDA-082	LLT-20
NPDAA-WN0907-D052-E22-4R	52	4	22	50	3			
NPDAA-WN0907-D063-E22-5R	63	5	22	50	3			
NPDAA-WN0907-D066-E27-5R	66	5	27	50	3			
NPDAA-WN0907-D080-E27-6R	80	6	27	50	3			
NPDAA-WN0907-D100-E32-7R	100	7	32	50	3			

Plato de Fresado 25º - 745..

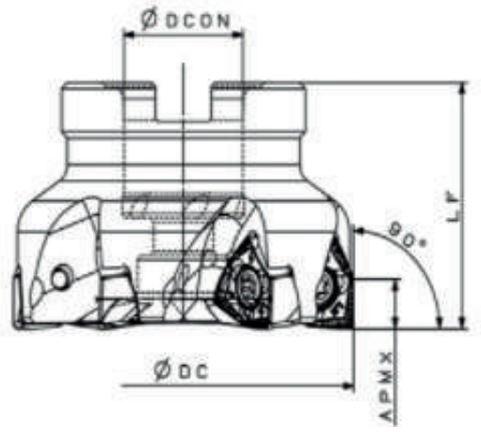




REFERENCIA	øDC	øDCX	Z	øDcon	LT	apmx	INSERTO	Tornillo Placa	Llave
NPDF25-745R-D063-E22-5	63	86.4	5	22	50	2.8	745..	TDA-114	LLT-15
NPDF25-745R-D080-E27-6	80	103.4	6	27	50	2.8			
NPDF25-745R-D100-E32-7	100	123.4	7	32	50	2.8			
NPDF25-745R-D125-E40-8	125	148.4	8	40	63	2.8			

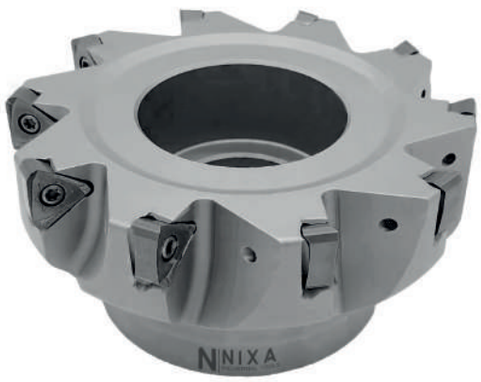
Plato de Fresado 90º - WNGX0806

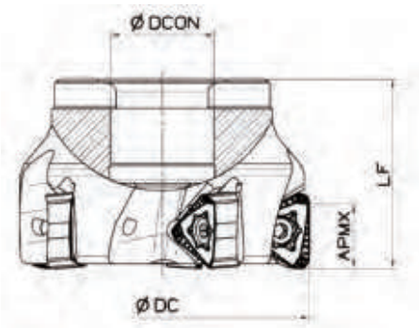




REFERENCIA	øDC	Z	øDcon	LT	apmx	INSERTO	Tornillo Placa	Llave
NPDF90-WNX08-D050-E22-5R	50	5	22	40	7.5	WNGX0806	TDA-108	LLT-15
NPDF90-WNX08-D063-E22-6R	63	5	22	40	7.5			
NPDF90-WNX08-D080-E27-7R	80	7	27	50	7.5			
NPDF90-WNX08-D100-E32-8	100	8	32	50	7.5			
NPDF90-WNX08-D125-E32-10	125	10	40	63	7.5			

Plato Fresado 90º - TNGX1306

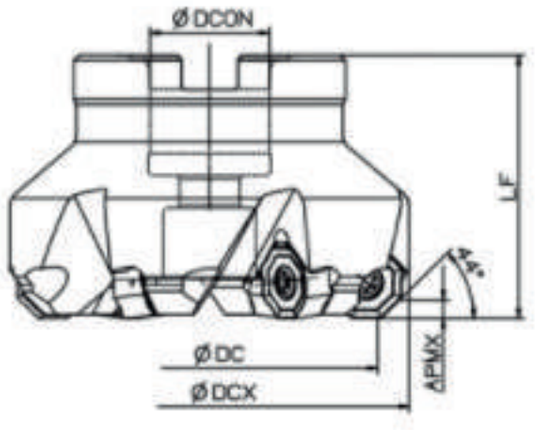




REFERENCIA	øDC	Z	øDcon	LT	apmx	INSERTO	Tornillo Placa	Llave
NPDF90-TN13-D050-E22-5R	50	5	22	40	7.5	TNGX1306	TDA-109	LLT-15
NPDF90-TN13-D063-E22-6R	63	5	22	40	7.5			
NPDF90-TN13-D080-E27-7R	80	7	27	50	7.5			
NPDF90-TN13-D100-E32-8	100	8	32	50	7.5			
NPDF90-TN13-D125-E32-10	125	10	40	63	7.5			

Plato Fresado 44º - ONMU0504 / ONMU0906

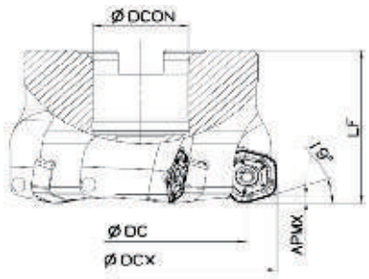




REFERENCIA	øDC	øDCX	Z	øDcon	LT	apmx	INSERTO	Tornillo Placa	Llave
NPDF44-ON0504-D050-5R	50	64.6	5	22	48.4	3.5	ONMU0504	TDA-110	LLT-15
NPDF44-ON0504-D063-6R	63	77.6	6	22	48.4	3.5			
NPDF44-ON0504-D080-7R	80	94.6	7	27	48.4	3.5			
NPDF44-ON0504-D100-8	100	114.6	8	32	48.4	3.5			
NPDF44-ON0504-D125-10	125	139.6	10	40	61.4	3.5			
NPDF44-ON0906-D050-5R	50	76.2	5	22	50	5.5	ONMU0906	TDA-111	LLT-20
NPDF44-ON0906-D063-6R	63	93.2	6	22	50	5.5			
NPDF44-ON0906-D080-7R	80	113.2	7	27	50	5.5			
NPDF44-ON0906-D100-8	100	138.2	8	32	63	5.5			
NPDF44-ON0906-D125-10	125	173.2	10	40	63	5.5			

Plato de Fresado 19º - PDMT1305

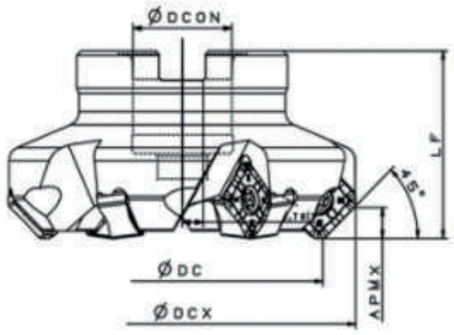




REFERENCIA	øDC	Z	øDcon	LT	apmx	INSERTO	Tornillo Placa	Llave
NPDF19-PD13-D050-E22-5R	50	5	22	40	7.5	PDMT1305	TDA-112	LLT-15
NPDF19-PD13-D063-E22-6R	63	5	22	40	7.5			
NPDF19-PD13-D080-E27-7R	80	7	27	50	7.5			
NPDF19-PD13-D100-E32-8	100	8	32	50	7.5			
NPDF19-PD13-D125-E32-10	125	10	40	63	7.5			

Plato de Fresado 45º - SNMX1306

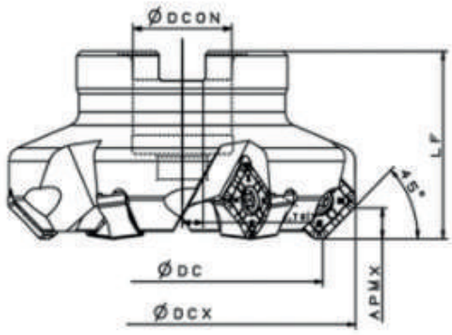




REFERENCIA	øDC	øDCX	Z	øDcon	LT	apmx	INSERTO	Tornillo Placa	Llave
NPDF45-SNMX13-D050-E22-5R	50	64.6	5	22	40	6.5	SNMX1306	TDA-115	LLT-15
NPDF45-SNMX13-D063-E22-6R	63	77.6	5	22	40	6.5			
NPDF45-SNMX13-D080-E27-7R	80	94.6	7	27	50	6.5			
NPDF45-SNMX13-D100-E32-8	100	114.6	8	32	50	6.5			
NPDF45-SNMX13-D125-E32-10	125	139.6	10	40	63	6.5			

Plato de Fresado 75º - SNMX1306

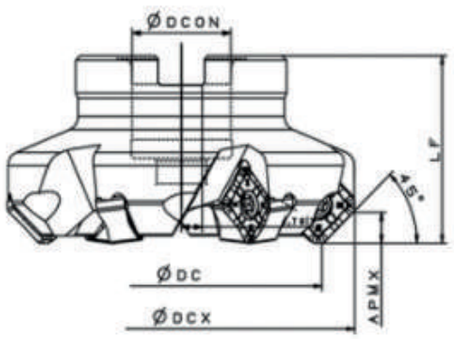




REFERENCIA	øDC	øDCX	Z	øDcon	LT	apmx	INSERTO	Tornillo Placa	Llave
NPDF75-SNMX13-D050-E22-5R	50	56.2	5	22	40	10.3	SNMX1306	TDA-115	LLT-15
NPDF75-SNMX13-D063-E22-6R	63	69.2	5	22	40	10.3			
NPDF75-SNMX13-D080-E27-7R	80	86.2	7	27	50	10.3			
NPDF75-SNMX13-D100-E32-8	100	106.2	8	32	50	10.3			
NPDF75-SNMX13-D125-E32-10	125	131.2	10	40	63	10.3			

Plato de Fresado 88º - SNMX1306

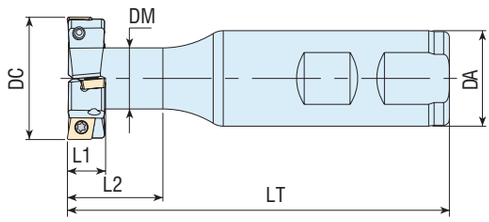


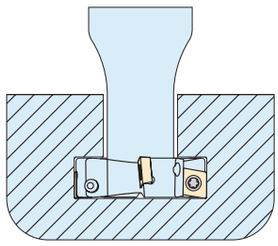


REFERENCIA	øDC	øDCX	Z	øDcon	LT	apmx	INSERTO	Tornillo Placa	Llave
NPDF88-SNMX13-D050-E22-5R	50	50.6	5	22	40	10.9	SNMX1306	TDA-115	LLT-15
NPDF88-SNMX13-D063-E22-6R	63	63.6	5	22	40	10.9			
NPDF88-SNMX13-D080-E27-7R	80	80.6	7	27	50	10.9			
NPDF88-SNMX13-D100-E32-8	100	100.6	8	32	50	10.9			
NPDF88-SNMX13-D125-E32-10	125	125.6	10	40	63	10.9			

Plato de Fresado 90º - CC..



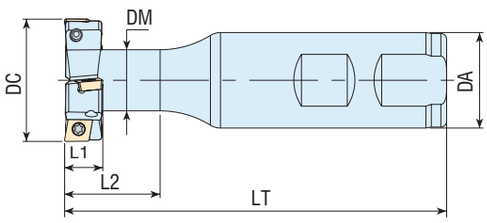


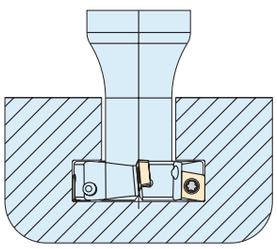


REFERENCIA	Z1	Z2	DC	L1	DA	LT	DM	L2	INSERTO	Tornillo Placa	Llave
NDF90-CC06-D17X8-W16-L85-2	2	1	17	8	16	85	10	16	CC..0602..	TDA-014	LLT-8
NDF90-CC06-D32X8-W25-L100-4	4	2	32	8	25	100	16	23			
NDF90-CC06-D28X8-W20-L66-4	4	2	28	8	20	66	14	15.5			
NDF90-CC06-D45.5X8-W25-L100-6	6	3	45.5	8	25	100	12	30			
NDF90-CC06-D63X8-W32-L125-8	8	4	63	8	32	125	31.5	30			
NDF90-CC06-D18X9-W16-L90-2	2	1	18	9	16	90	10	16			
NDF90-CC06-D20X9-W16-L85-4	4	2	20	9	16	85	10	16			
NDF90-CC06-D23X10-W20-L90-4	4	2	23	10	20	90	12	25			
NDF90-CC06-D32X10-W25-L100-4	4	2	32	10	25	100	16	25			
NDF90-CC06-D45X10-W32-L120-6	6	3	45	10	32	120	20	25			
NDF90-CC06-D25X11-W25-L100-4	4	2	25	11	25	100	13	20			
NDF90-CC09-D30X12-W25-L100-4	4	2	30	12	25	100	16	25	CC..09T3..	TDA-047	LLT-15
NDF90-CC09-D32X12-W25-L100-2	2	1	32	12	25	100	16	25			
NDF90-CC09-D32X12-W25-L100-4	4	2	32	12	25	100	16	25			
NDF90-CC09-D32X14-W25-L100-4	4	2	32	14	25	100	16	25			
NDF90-CC09-D37X16-W32-L120-4	4	2	37	16	32	120	17	30			
NDF90-CC09-D40X17-W32-L120-4R	4	2	40	17	32	120	19	30			
NDF90-CC09-D42X17-W32-L120-4	4	2	42	17	32	120	19	30			
NDF90-CC12-D47X20-W32-L120-4	4	2	47	20	32	120	25	45	CC..1204..	TDA-081	LLT-20
NDF90-CC12-D52X21-W32-L120-4	4	2	52	21	32	120	25	45			
NDF90-CC12-D50X22-W32-L120-4	4	2	50	22	32	120	25	45			
NDF90-CC12-D55X22-W32-L120-4	4	2	55	22	32	120	2	45			

Plato de Fresado 90º - SPMG / SPGT



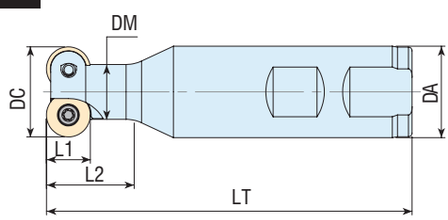


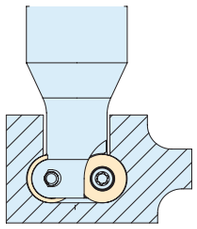


REFERENCIA	Z1	Z2	DC	L1	DA	LT	DM	L2	INSERTO	Tornillo Placa	Llave
NDF90-SP05-D22.5X5-W25-L100-4	4	2	22.5	5	25	100	12	25	SPMG050204	TDA-006	LLT-6
NDF90-SP05-D30X5-W25-L100-4	4	2	30	5	25	100	10	25			
NDF90-SPGT0502-D63X6-W32-L125-10	10	5	63	6	32	125	31	30	SPGT050204	TDA-006	LLT-6
NDF90-SPGT0904-D32X14-W32-L120-4R	4	2	32	14	32	120	17.5	30	SPGT090408	TDA-047	LLT-15
NDF90-SPGT0904-D37X16-W32-L120-4R	4	2	37	16	32	120	21	40			
NDF90-SPGT0904-D42X17-W32-L120-4R	4	2	42	17	32	120	21	40			
NDF90-SPGT1104-D47X20-W32-L120-4R	4	2	47	20	32	120	24	45	SPGT110408	TDA-066	LLT-15
NDF90-SP06-D80X7-W32-L120-10	10	5	80	7	32	120	32	30	SPMG060204	TDA-008	LLT-7

Plato de Fresado - RD..



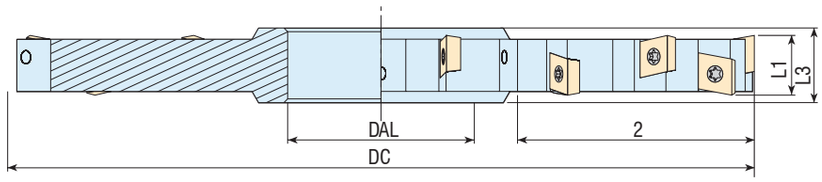




REFERENCIA	Z	DC	L1	DA	LT	DM	L2	INSERTO	Tornillo Placa	Llave
NDFR-RD0702-D17-W16-L90-2	2	17	7	16	90	10	12	RD..0702	TDA-014	LLT-8
NDFR-RD0702-D25-W16-L90-3	3	25	7	16	90	15	12			
NDFR-RD0702-D35-W25-L100-5	5	35	7	25	100	20	20			
NDFR-RD1003-D21-W25-L100-2	2	21	10	25	100	12	20	RD..1003	TDA-047	LLT-15
NDFR-RD1003-D80-W32-L165-6R	6	80	10	32	165	30	31.5			
NDFR-RD12T3-D25-W25-L100-2	2	25	12	25	100	15	24	RD..12T3	TDA-047	LLT-15
NDFR-RD12T3-D80-W32-L165-6R	6	80	12	32	165	30	31.5			
NDFR-RD1604-D34-W32-L110-2	2	34	16	32	110	20	30	RD..1604	TDA-077	LLT-15

Disco de Fresado 90º - SPGT

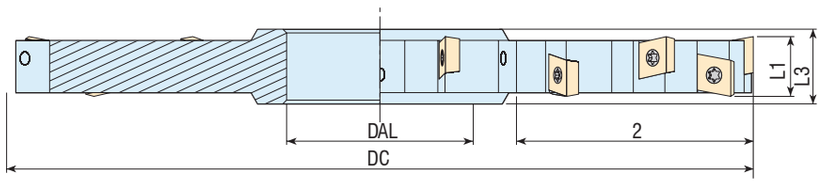




REFERENCIA	Z	Z2	DC	L1	L2	DA	L3	INSERTO	Tornillo Placa	Llave
NDDF-SPGT05-D80x6-D27-10	10	5	80	6	17	27	10	SPGT050204	TDA-006	LLT-6
NDDF-SPGT05-D100x6-D32-12	12	6	100	6	25	32	10			
NDDF-SPGT05-D125x6-D40-14	14	7	125	6	35	40	10			
NDDF-SPGT05-D160x6-D40-Z18	18	9	160	6	52	40	10			
NDDF-SPGT06-D80x7-D27-10	10	5	80	7	17	27	11	SPGT060204	TDA-008	80-T07
NDDF-SPGT06-D100x7-D32-12	12	6	100	7	25	32	11			
NDDF-SPGT06-D125x7-D40-14	14	7	125	7	35	40	11			
NDDF-SPGT06-D160x7-D40-16	16	8	160	7	52	40	11			
NDDF-SPGT06-D200x7-D40-18	18	9	200	7	70	40	11			
NDDF-SPGT07-D100x10-D32-12	12	6	100	10	25	32	11	SPGT07T308	TDA-014	LLT-8

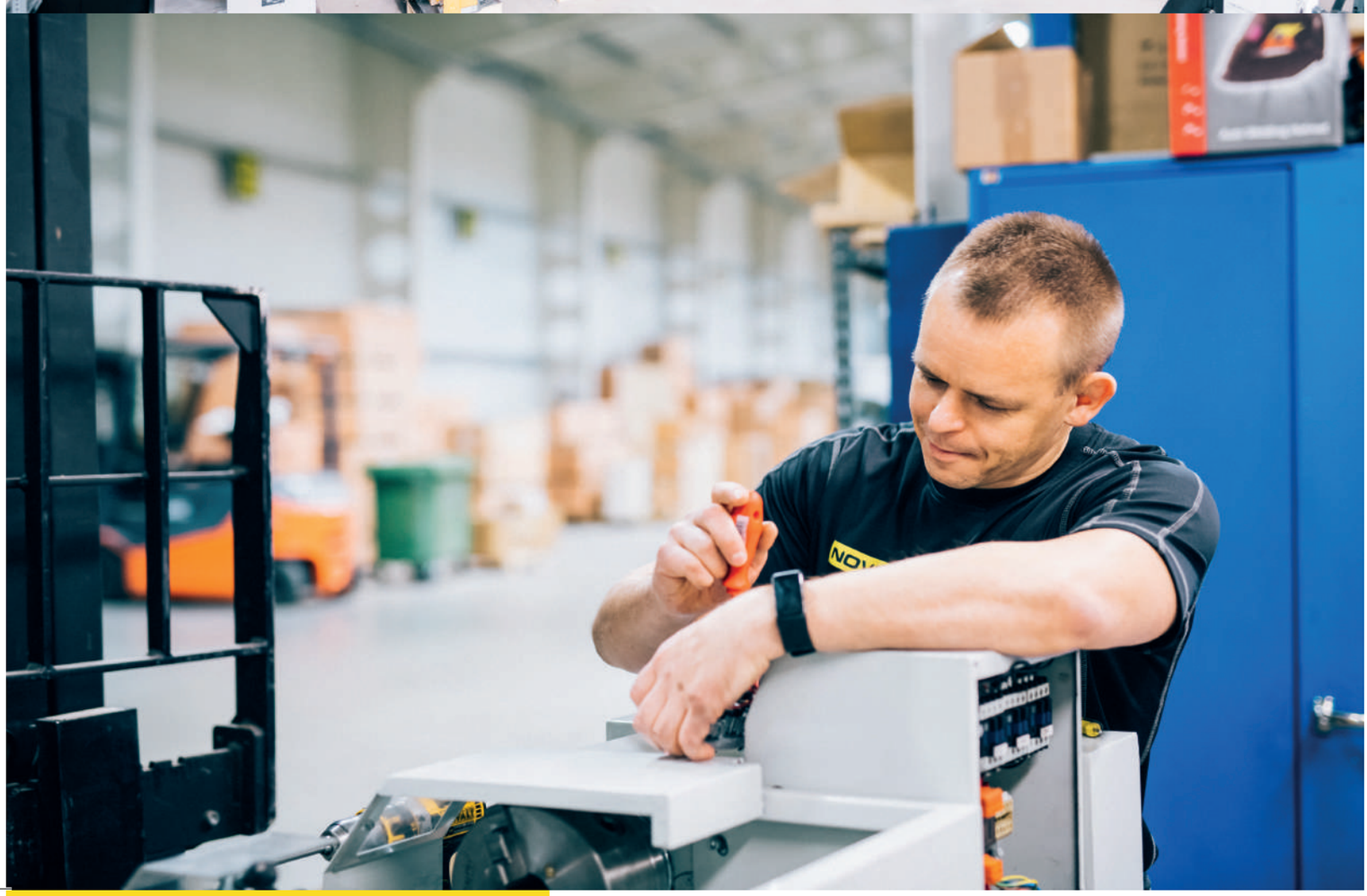
Disco de Fresado 90º - SPGT





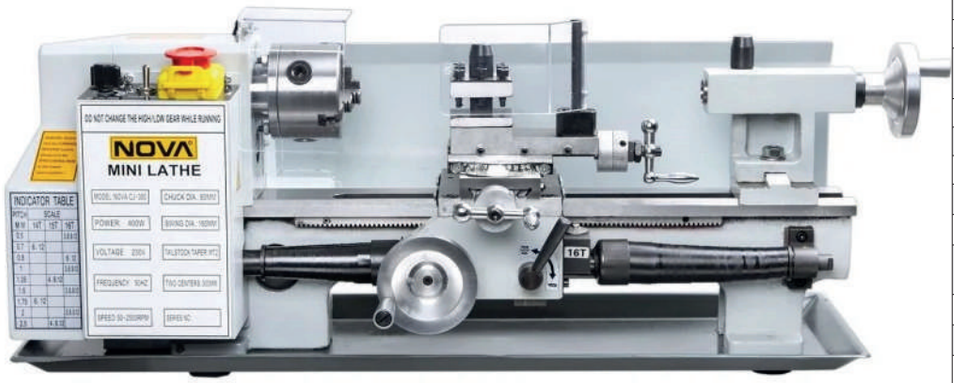
REFERENCIA	Z	Z2	DC	L1	L2	DA	L3	INSERTO	Tornillo Placa	Llave
NDDF-CC06-D80x8-D27-10	10	5	80	8	17	27	12	CC..0602	TDA-014	LLT-8
NDDF-CC06-D100x8-D32-12	12	6	100	8	25	32	12			
NDDF-CC06-D125x8-D40-14	14	7	125	8	35	40	12			
NDDF-CC06-D160x8-D40-16	16	8	160	8	52	40	12			
NDDF-CC06-D200x8-D40-Z18	18	9	200	8	70	40	12			
NDDF-CC06-D80x10-D27-10	10	5	80	10	17	27	14			
NDDF-CC06-D100x10-D32-12	12	6	100	10	25	32	14			
NDDF-CC06-D125x10-D40-14	14	7	125	10	35	40	14			
NDDF-CC06-D160x10-D40-16	16	8	160	10	52	40	14			
NDDF-CC06-D200x10-D40-18	18	9	200	10	70	40	14			
NDDF-CC09-D80x12-D27-8	8	4	80	12	17	27	16	CC..09T3	TDA-049	LLT-15
NDDF-CC09-D100x12-D32-10	10	5	100	12	25	32	16			
NDDF-CC09-D125x12-D40-12	12	6	125	12	35	40	16			
NDDF-CC09-D160x12-D40-14	14	7	160	12	52	40	16			
NDDF-CC09-D200x12-D40-16	16	8	200	12	70	40	16			
NDDF-CC09-D80x14-D27-8	8	4	80	14	17	27	18			
NDDF-CC09-D100x14-D32-10	10	5	100	14	25	32	18			
NDDF-CC09-D125x14-D40-12	12	6	125	14	35	40	18			
NDDF-CC09-D160x14-D40-14	14	7	160	14	52	40	18			
NDDF-CC09-D200x14-D40-16	16	8	200	14	70	40	18			
NDDF-CC12-D80x16-D27-6	6	3	80	16	17	27	20	CC.1204	TDA-081	LLT-20
NDDF-CC12-D100x16-D32-8	8	4	100	16	25	32	20			
NDDF-CC12-D125x16-D40-10	10	5	125	16	35	40	20			
NDDF-CC12-D160x16-D40-12	12	6	160	16	52	40	20			
NDDF-CC12-D200x16-D40-14	14	7	200	16	70	40	20			
NDDF-CC12-D80x18-D27-6	6	3	80	18	17	27	22			
NDDF-CC12-D100x18-D32-8	8	4	100	18	25	32	22			
NDDF-CC12-D125x18-D40-10	10	5	125	18	35	40	22			
NDDF-CC12-D160x18-D40-12	12	6	160	18	52	40	22			
NDDF-CC12-D200x18-D40-14	14	7	200	18	70	40	22			
NDDF-CC12-D250x18-D40-16	16	8	250	18	90	40	22			
NDDF-CC12-D80x20-D27-6	6	3	80	20	17	27	24			
NDDF-CC12-D100x20-D32-8	8	4	100	20	25	32	24			
NDDF-CC12-D125x20-D40-10	10	5	125	20	35	40	24			
NDDF-CC12-D160x20-D40-12	12	6	160	20	52	40	24			
NDDF-CC12-D200x20-D40-14	14	7	200	20	70	40	24			
NDDF-CC12-D250x20-D40-16	16	8	250	20	90	40	24			


RADIOLAITTEET



Torno NOVA CJ300

• Un mini torno con 300 mm entre centros. La precisión es de 0,01 mm o mejor.
• El motor 400 W / 230 V es silencioso y con control de velocidad continuo (100–2500 rpm).



Código:	NOVA-CJ300
Características	
Alimentación	230 V
Revoluciones	100-2500 rpm
Distancia entre centros	300 mm
Distancia sobre bancada	180 mm
Diámetro del husillo	20 (amarre 16mm)
Cono contrapunto	MK2
Recorrido carro Y	35 mm
Recorrido carro X	65 mm
Velocidad Y	0,1 - 0,20 mm/r
Potencia	400 W
Herramienta máxima de amarre	10 mm
Rango rosca (métrica)	0,5-2,5
Longitud	310 mm
Ancho	820 mm
Altura	300 mm
Peso	38 Kg

Torno NOVA 290VF

NOVA 290VF con convertidor de frecuencia. El modelo cuenta con 700 mm de espacio entre centros y alimentación automática longitudinal y lateral. Potente motor de 1100 vatios, control de velocidad continuo y pantalla digital para RPM. 38 mm de diámetro de agujero a través del husillo. Mesa deslizante de hierro fundido templado. Las barras deslizantes del banco están endurecidas por inducción, lo que proporciona una precisión de 0,04 / 0,01 mm. Rodamientos de rodillos cónicos de alta calidad.
Mandril protegido, parada de emergencia e interruptor de mínima tensión.
• Incluye: Plato de 3 garras (160 mm), Puntos Fijos (MT2 y MT5), juego de engranajes para roscar, 2 rodamientos de soporte (guías y bandeja), placa trasera, llaves y caja de herramientas de mantenimiento.
• El soporte de la imagen es opcional.



Código:	NOVA-290VF
Características	
Voltaje	230 V
Potencia	1100 W
Velocidad de rotación	50-2000 rpm
Distancia entre centros	700 mm
Distancia sobre bancada	290
Diámetro del husillo	38 mm
Herramienta máxima de amarre	12 mm
Cono contrapunto	MK3
Recorrido del contrapunto	70 mm
Recorrido Y	70 mm
Recorrido X	140 mm
Velocidad eje Y	0.07-0.72
Velocidad eje X	0.017-0.25
Gama rosca (mm)	0,2-3,5 (18pcs)
Gama rosca (pulgada)	8-56 (21pcs)
Longitud	620 mm
Ancho	1400 mm
Altura	520 mm
Peso	210 Kg

Torno NOVA 6133B

Torno central NOVA 6133B (230 V) con equipamiento muy versátil. El precio incluye la placa trasera y el soporte. Las barras deslizantes están templadas por inducción. La distancia entre centros es de 600 mm y una pieza grande de 320 mm tiene espacio para girar en el mandril. Avances automáticos longitudinales y verticales. Potente motor (1100 V). Cuerpo sin vibraciones y estructura fuerte.
Incluye: mandril de 3 mordazas (160 mm), juego de engranajes, centro vivo, placa posterior, caja de herramientas y soporte.



Código:	NOVA-6133B
Características	
Voltaje	230 V
Potencia	1100W
Velocidad de rotación	65-1600 rpm (12 velocidades)
Distancia entre centros	600 mm
Distancia sobre bancada	320 mm
Diámetro del husillo	38 mm
Herramienta máxima	16 mm
Cono contrapuntopunto	MK3
Recorrido del contrapunto	70 mm
Recorrido carro Y	100 mm
Recorrido carro X	170 mm
Velocidad eje Y	0,1 - 1,4
Velocidad eje X	0,022 - 0,3
Gama rosca (mm)	0,5-4 (17)
Gama rosca (pulgada)	9-48TPI (26)
Longitud	660 mm
Ancho	1400 mm
Altura	520 mm
Peso	255 Kg

NOVA 290VF+25VL

¡MÁQUINA COMBINADA NOVA 290VF + 25V DE CALIDAD SUPERIOR
El nuevo modelo tiene una distancia entre puntas de 700 mm y alimentación automática longitudinal y lateral. Potente motor de 1100 W, control de velocidad continuo y display digital de revoluciones y rosca del asiento.
Casquillo husillo 38 mm. Hierro fundido, mesa guía endurecida y conductores de tierra y endurecidos por inducción
permiten una precisión de 0,04 / 0,01 mm. Opciones de roscado versátiles y alta calidad de rodamientos de rodillos cónicos.



Código:	NOVA-290VF+25VL

El torno tiene un protector de mandril, parada de emergencia y disparador de mínima tensión. El cortador / taladro tiene su propio motor potente de 750 W y un fuerte bastidor en cola de milano, que garantiza la estabilidad y la máxima precisión del cortador. Siempre puede obtener los ángulos de taladrado y fresado correctos con un cabezal de corte giratorio de 90 ° en ambas direcciones. Escala de medición precisa también para la altura del cabezal de corte con limitador de movimiento longitudinal. Desviación de la concentricidad mediante un rodamiento de rodillos cónicos superpreciso: ¡menos de 0,015 mm medidos desde el asiento del eje!

INCLUYE: Mandril de 3 mordazas, puntas centrales (MK2 y MK4 fijas), Juego de engranajes para roscar, soporte de guía y soporte para el carro, placa trasera, cárter de aceite / bandeja de carga, llaves, caja de herramientas.

El soporte de imagen es un accesorio no incluido

Torno NOVA 230A

Torno para metales NOVA 230A de ALTA CALIDAD para usos exigentes. Las guías templadas y mecanizadas con precisión garantizan una precisión de primera clase. Avance longitudinal y lateral automático. Nova 230A es un torno con un espaciado de punta de 910 mm, con un diámetro máximo de la pieza de trabajo de 300 mm y una pieza guía desmontable de hasta 430 mm. Potente motor trifásico de 1,5 kW. INCLUYE: Accesorios completos: Mandriles de tres y cuatro mordazas, freno de pie y soporte resistente con gabinete, placa trasera, cárter de aceite, sistema de enfriamiento, soportes de cojinetes (2 piezas) y luz de trabajo.



Código:	NOVA-230A
Características	
Voltaje	380 V
Potencia	1500 W
Velocidad de rotación	65-1800 rpm (18pcs)
Distancia entre centros	910 mm
Distancia bancada	300 mm
Giro sobre carro transversal	178 mm
Agujero husillo	38 (MK5)
Máxima herramienta	16 mm
Cono contrapunto	MK3
Recorrido contrapunto	100 mm
Recorrido	860 mm
Recorrido de carro Y	76 mm
Recorrido de carro X	160 mm
Velocidad avance Y	0.052-1.392 mm/r (32pcs)
Velocidad avance X	0.014-0.38 mm/r (32pcs)

Características	
Rango de hilos (métrico)	0.4-7.0 (26pcs)
Rango de hilos (pulgadas)	4-56 (34pcs)
Longitud	730 mm
Ancho	1600 mm
Alto	1160 mm
Peso	431 Kg
Sistema Amarre	D1-4 Camlock (MK5)

Torno NOVA 38B

El NOVA 38B es un torno de puntas con un mandril de 51 mm, con una gran pantalla digital Sino de serie. Además de los mandriles de 200 mm de 3 y 4 mordazas, templado por inducción y
guías mecanizadas de precisión. El torno viene con dos soportes guía. Comodidad en el trabajo y
la seguridad se ve reforzada por un freno de pie y una luz de trabajo halógena. Diámetro máximo de la pieza de trabajo
es de 375 mm y gracias a la pieza de cable desmontable hasta 502 mm.

INCLUYE: soporte (con gabinete y caja), mandril de 3 mordazas (200 mm), mandril de 4 mordazas (200 mm), 2 rodamientos de soporte (para guías y carro), cárter de aceite, placa trasera, pieza de montaje de brida de 250 mm, luz de trabajo, bomba de enfriamiento, llaves, caja central y caja de herramientas.



Código	NOVA-38B
Características	
Voltaje	380 V
Potencia	1500 W
Velocidad de rotación	70-2000 rpm (8 velocidades)
Distancia entre centros	1000 mm
Distancia bancada	375 mm
Giro sobre carro transversal	502 mm
Agujero husillo	51 mm
Máxima herramienta	16 mm
Cono contrapunto	MK4
Recorrido de carro Y	95 mm
Recorrido de carro X	160 mm

Características	
Velocidad avance Y	0.052-1.392 mm/r
Velocidad avance X	0.014-0.380 mm/r
Rango de hilos (métrico)	0.4-7
Rango de hilos (pulgadas)	4-56
Longitud	1800 mm
Ancho	750 mm
Alto	1600 mm
Peso	505 Kg

Torno NOVA 6240

El torno NOVA 6240 TIP LATCH está equipado con un buje de mandril de 52 mm, pantalla digital LCD,
Con sistema de medición de 3 ejes y asientos de 3 y 4 mordazas de 178 mm y 200 mm. Endurecido por inducción y
Las guías mecanizadas con precisión (ancho 206 mm) garantizan la máxima precisión y comodidad en el trabajo más
Luz de trabajo halógena. El diámetro máximo de la pieza de trabajo es de 400 mm y la pieza guía desmontable
gracias hasta 534 mm! En el paquete se incluyen dos cojinetes de soporte (para guías y trineo).

INCLUYE: Soporte de hierro fundido, mandril de 3 mordazas (178 mm), mandril de 4 mordazas (200 mm), 2 rodamientos de soporte (para guías y contrapunto), base de aceite, placa trasera, pieza de montaje de brida de 320 mm, caja de herramientas, puntas centrales fijas.



Código:	NOVA-6240
Características	
Voltaje	380 V
Potencia	1500 / 2200 W
Velocidad de rotación	45-1800 rpm (16pcs)
Distancia entre centros	1000 mm
Distancia bancada	400 mm
Giro sobre carro transversal	534 mm
Agujero husillo	265 mm
Máxima herramienta	52 mm
Cono contrapunto	16
Recorrido contrapunto	MK3
Recorrido	115 mm
Recorrido de carro Y	90 mm
Recorrido de carro X	203 mm

Características	
Velocidad avance Y	0.043-0.653 mm/r - (48pcs)
Velocidad avance X	0.014-0.206 mm/r - (48pcs)
Rango de hilos (métrico)	0.4-7.0 (37pcs)
Rango de hilos (pulgadas)	4-56 (28pcs)
Longitud	1920 mm
Ancho	1220 mm
Alto	750 mm
Peso	740 Kg

Torno NOVA 1440K

El torno NOVA 1440K es un torno de metal de alta calidad y precisión con un mecanismo de engranajes de alta calidad y un gran motor de 3,3 / 2,2 kW. La distancia entre puntas es de 1000 mm, la penetración del husillo de 52 mm y el ancho de las guías de 250 mm. El torno con freno de pie tiene trineos mecanizados con precisión, guías templadas y rectificadas, y un banco de torno libre de vibraciones hecho de hierro fundido sólido. Las ruedas dentadas del eje principal rectificadas y endurecidas garantizan precisión y una larga vida útil. ¡La Nova 1440K también tiene una pieza de cable desmontable que permite girar hasta 580 x 190 mm de diámetro!

INCLUYE: Cárter de aceite, placa posterior, soporte, pantalla digital LCD, mandril de 3 mordazas (200 mm) y mordazas de repuesto, mandril de 4 mordazas (250 mm), puntas centrales (fijas) 1 pieza, manguito retráctil, MK6-MK4, montaje con brida pieza 350mm, bomba de enfriamiento, bomba de trabajo led, led, caja de herramientas.



Código:	NOVA-1440K
Características	
Voltaje	380 V
Potencia	3300/2200 W
Velocidad de rotación	45-1800 rpm (16pcs)
Distancia entre centros	1000 mm
Distancia bancada	410 mm
Giro sobre carro transversal	580 mm
Agujero husillo	255 mm
Máxima herramienta	52 mm
Cono contrapunto	20
Recorrido contrapunto	MK4
Recorrido	120 mm
Recorrido de carro Y	140 mm
Recorrido de carro X	210 mm

Características	
Velocidad avance Y	0.05-1.7 mm/r - (17pcs)
Velocidad avance X	0.025-0.85 mmr/ - (17pcs)
Rango de hilos	8-44 (21pcs)
Rango de hilos (métrico)	0.3-3.5 (18pcs)
Rango de hilos (pulgadas)	2-72 (45pcs)
Longitud	850 mm
Ancho	1940 mm
Alto	1320 mm
Peso	1255 Kg

Fresadora NOVA X16A

La Fresadora NOVA X16A está equipado con un motor sin escobillas de carbono de 500 W, cono MT3 y un marco de hierro fundido estable que garantiza un trabajo sin vibraciones. El cabezal de fresado inclinable hace que el trabajo sea versátil. El modelo con ruedas de metal es una buena solución a largo plazo para quienes hacen mucho trabajo de fresado.

Nota. El motor de alimentación de la mesa que se muestra en la ilustración es un accesorio.
- motor de carbono sin escobillas de 500W
- ruedas de metal duraderas
- mesa grande 460x120mm

- control de velocidad continuo
- disponible como accesorio motor de alimentación a la mesa

Código:	NOVA-X16A
Características	
Voltaje	230 V
Potencia	500 W
Motor	100-2500 rpm
Capacidad taladro	16 mm
Capacidad fresado	36 / 20 mm
Inclinación cabezal	45 / 45º
Amarre	MK3
Ranuras T	12 mm
Distancia husillo a mesa	280 mm
Max movimiento de la cabeza	180 mm
Tamaño mesa principal	460 x 120 mm
Recorrido mesa	300 x 130 mm
Longitud	520 mm
Ancho	580 mm
Alto	760 mm
Peso	60 Kg



Fresadora NOVA BF25VL

La fresadora NOVA BF25VL ES una máquina de primera calidad con capacidad de fresado con motor de 25mm y 750 W para fresado, taladrado, rectificado y roscado. Marco de cola de salmón resistente, precisión de 0,01 mm e inclinación de 45 grados en ambas direcciones garantizan una marca de mecanizado de máxima calidad. La calidad de trabajo está garantizada por una mesa de alimentación cruzada de alta calidad, pantalla digital para el movimiento del husillo, control de velocidad continuo, así como inversión y dos rangos de velocidad.

El soporte de imagen es un accesorio.





Fresadora NOVA BF25VL (Visualizada)

Código:	NOVA-BF25VL
Características	
Voltaje	230 V
Potencia	750 W
Velocidad rotación	50 - 2250 rpm
Capacidad taldrado	25 mm
Capacidad fresado	65 / 20 mm
Inclinación cabezal	90º
Amarre	MK3
Ranuras T	12 mm
Distancia husillo a mesa	370 mm
Max movimiento de la cabeza	50 mm
Tamaño mesa principal	700 x 180 mm
Recorrido mesa	490 x 150 mm
Ruido funcionamiento	78 dB(A)
Longitud	570 mm
Ancho	950 mm
Alto	940 mm
Peso	120 Kg

Soporte (Opcional)

Código:	NOVA-BF20VL-25VL-STAND
Características	
Peso	32 Kg



Fresadora NOVA BF30VL

La fresadora NOVA BF30VL (sin display). Ofrecemos fresadoras de metales de muy alta calidad a un precio asequible. También disponible con una gran pantalla digital Sino, que hace que el trabajo sea muy fácil y preciso.
La NOVA BF30VL es una máquina con un motor de 1,1 kW y una capacidad de taladrado de 30 mm para fresar, taladrar, rectificar y roscar. El robusto marco en cola de milano, la precisión de 0,01 mm y la inclinación de 45 grados en ambas direcciones garantizan resultados de mecanizado de máxima calidad. La calidad de trabajo está garantizada por una mesa de alimentación cruzada de alta calidad, una pantalla digital para el movimiento del husillo, control de velocidad continuo, así como un cambio de dirección y dos rangos de velocidad.



Fresadora NOVA BF30VL (Visualizada)



Soporte (Opcional)

Código:	NOVA-BF30VL
Características	
Voltaje	230 V
Potencia	1100 W
Motor	50-2250 rpm
Capacidad taldrado	30 mm
Capacidad fresado	30 / 70 mm
Incilinación cabezal	90º
Amarre	MK3
Zona de ranura T	61 mm
Ancho ranura T	14 mm
Distancia husillo a mesa	360 mm
Recorrido husillo	70 mm
Dimensiones mesa	840 x 210 mm
Recorrido mesa	590 x 220 mm
Nivel de ruido	78 dB(A)
Largo	680 mm
Ancho	1030 mm
Alto	1210 mm
Peso	235 Kg

Fresadora NOVA X40

La fresadora La NOVA X-40 es uno de los modelos de fresadora más populares del mercado.
La NOVA X-40 es uno de los modelos de fresadora más populares del mercado.
Equipada con una capacidad de taladrado de 40/32 mm (hierro / acero) y un engranaje, la fresadora tiene un motor de 1,1 kW, un "Micro-feed" y un sonido de funcionamiento silencioso. Las esquinas de taladrado / fresado versátiles y de alta calidad están garantizadas por una inclinación bidireccional de 90 ° y un cabezal de corte giratorio de 360 °. El movimiento longitudinal máximo de la mesa es de 560 mm y el movimiento transversal es de 190 mm. El soporte de imagen es un accesorio.
INCLUYE:
portabrocas, soporte de fresa MK4, manguitos adaptadores MK4-> MK3 y MK3-> MK2, tornillos de montaje con ranura en T, llave inglesa, bidón de aceite, llaves



Código:	NOVA-X40
Características	
Voltaje	380 V
Potencia del motor	1100 W
Motor	2850
Velocidad de rotación	75-3200 rpm (12 velocidades)
Capacidad de taladrado	40 / 32 mm
Capacidad de fresado	76 / 32 mm
Inclinación del cabezal	90º
Amarre	MK4
Ancho ranura T	14 mm
Distancia del husillo a mesa	450 mm
Recorrido	120 mm
Tamaño de la mesa	800 X 240 mm
Recorrido de la mesa	560 X 190 mm
Peso	285 Kg

Soporte (Opcional)



Código:	NOVA-X40-45-STAND
Características	
Peso	35 Kg

Fresadora NOVA X45

La fresadora NOVA X-45 (ALIMENTACIÓN POR HUSILLO + DISPOSITIVOS DE MEDICIÓN DIGITAL)
El NOVA X-45 está equipado con un alimentador automático de husillo, equipo de medición digital de 3 ejes y con un cuerpo de cola de milano, es decir, en lugar de un tubo vertical, el cuerpo es rectangular.

El NOVA X-45 está equipado con un alimentador automático de husillo, equipo de medición digital de 3 ejes y con un cuerpo de cola de milano, es decir, en lugar de un tubo vertical, el cuerpo es rectangular. Con una capacidad de perforación de 45/32 mm (hierro / acero) y una capacidad de fresado de 80/32 mm y con engranajes, tiene un motor de 1,5 kW, un "Micro-feed" y un sonido de funcionamiento silencioso. El taladrado / fresado versátil y de alta calidad en las esquinas está garantizado por un cabezal de fresado que se puede inclinar 90 ° en ambas direcciones.
El movimiento longitudinal máximo de la mesa es de 760 mm y el movimiento transversal es de 190 mm. Base de aceite y soporte de gabinete opcional.
INCLUYE:
portabrocas, escuadra de planear MK4, manguitos adaptadores MK4-> MK3 y MK3-> MK2, tornillos de montaje con ranura en T, llave de tuercas, bidón de aceite, llaves.
El soporte de imagen es un accesorio.



Soporte (Opcional)



Código:	NOVA-X40-45-STAND
Características	
Peso	35 Kg

Taladro - Fresadora NOVA 40H

El taladro-fresadora NOVA 40H es una fresadora / taladradora con motor de dos velocidades de 1,1 kW, accionamiento por engranajes y marcha atrás automática con o sin avance del husillo.
La NOVA 40H es una fresadora / taladradora con un motor de dos velocidades de 1,1 kW, transmisión por engranajes y marcha atrás automática. El taladrado / fresado versátil y de alta calidad en las esquinas está garantizado por un cabezal de fresado que se puede inclinar 90 ° en ambas direcciones. Sistema de refrigeración y luz de trabajo de serie. Máquina fiable y de alta calidad apta para roscar.

INCLUYE:
portabrocas de 13 mm, soporte de planeado MK4, manguitos adaptadores MK4-> MK3 y MK3-> MK2, tornillos de montaje con ranura en T, llave de llave, bidón de aceite.

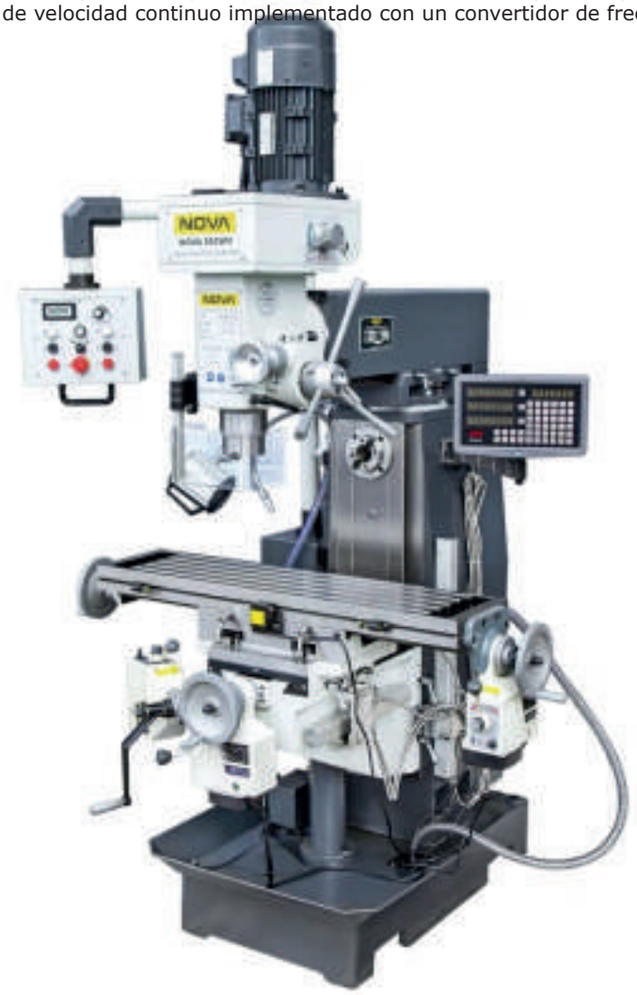


Código:	NOVA-40H
Características	
Voltaje	380 V
Potencia del motor	1100 W
Velocidad de rotación	75-3200 rpm (12 Velocidades)
Capacidad taldrado	40 mm
Capacidad fresado	32 mm
Inclinación cabezal	90º
Amarre	MK4
Ranura en T	12 mm
Distancia husillo a mesa	610 mm
Distancia de husillo a cuerpo	278 mm
Recorrido	120 mm
Zona amarre mesa	600 X 190 mm
Dimensiones mesa	650 X 450 mm
Recorrido mesa	370 X 190 mm
Ancho	720 mm
Largo	820 mm
Alto	1830 mm
Peso	350 Kg

Fresadora NOVA 50CWV

La fresadora NOVA 50CWV, CONTROL DE VELOCIDAD PASO A PASO
Modelo diseñado para uso profesional, con potentes motores (propio husillo horizontal y vertical). Control de velocidad sin taladro con convertidor de frecuencia.
Modelo diseñado para uso profesional, con potentes motores (propio husillo horizontal y vertical). Además del control de velocidad continuo y bien equipado, también tenemos un sistema de medición digital de 3 ejes, una alimentación automática para el eje Y, un sistema de refrigeración y un husillo según la norma ISO40. Control de velocidad continuo implementado con un convertidor de frecuencia. Muy alta calidad, buen acabado y construcción robusta.

Código:	**NOVA-50CWV**
Características	
Voltaje	380V
Potencia	2,2kW + 1,5kW
Capacidad taladrado	30 mm
Capacidad fresado	100/25 mm
Inclinación cabezal	45º
Amarre	ISO40
Ranura T	14 mm
Distancia Husillo a mesa	70-370 mm
Distancia Husillo a columna	250-650 mm
Recorrido husillo	120 mm
Dimensiones mesa	1000 x 240 mm
Dimensiones recorrido	580 X 230 mm
Longitud	1280 mm
Ancho	1100 mm
Alto	2100 mm
Peso	850 Kg



Taladro de columna NOVA 116

El taladro de columna NOVA 116 está equipado con una pantalla de velocidad digital, control de velocidad continuo y un puntero láser.



Código:	**NOVA-116**
Características	
Voltaje	230 V
Potencia del motor	450 W
Motor	1420 rpm
Velocidad de rotación	500-2600 rpm
Amarre	B16
Distancia del eje a mesa	155 mm
Diámetro del cuerpo	58 mm
Tamaño de la mesa	290 mm
Soporte	384 X 254 mm
Diámetro central mesa	ø30
Altura	880 mm
Peso	37 Kg

Taladro de columna NOVA 4125A - 380V

El taladro NOVA 4125A bien equipado viene de serie con un marco resistente, mango de alimentación de hierro fundido, portaherramientas, dispensador de fluido de corte y portabrocas de liberación rápida de 16 mm.

Código:	NOVA-4125A
Características	
Voltaje	380 V
Potencia	1100 W
Motor	1400 rpm
Velocidad rotación	160-3000 rpm (16 pcs)
Capacidad taladrado	25 mm
Amarre	MT3
Distancia columna a mesa	215 mm
Recorrido	85 mm

Características	
Diámetro de columna	80 mm
Dimensiones mesa	350 x 350 mm
Dimensiones base	290 x 480 mm
Altura	1620 mm
Peso	81 Kg



Taladro de columna NOVA 4132A - 230V

El modelo NOVA 4132A está equipado con un motor de 1,5 kW y refrigeración líquida. La NOVA 4132A pesa 140 kg, tiene un husillo MT4 con un movimiento de 120 mm y una distancia al marco de 250 mm.

Código:	NOVA-4132A
Características	
Voltaje	230 V
Potencia	1500 W
Motor	1400 rpm
Velocidad rotación	120 - 3480 rpm (12 pcs)
Capacidad taladrado	32 mm
Amarre	MK4

Características	
Distancia columna a mesa	250 mm
Recorrido	110 mm
Dimensiones mesa	425 x 475 mm
Dimensiones base	420 x 580 mm
Altura	1670 mm
Peso	140 Kg



Taladro de columna NOVA 16R

El NOVA 16R es una Taladradora radial de cinco velocidades, de alta calidad y confiable equipada con una función de inclinación y ajuste horizontal. El NOVA 16R de 37 kg y 930 mm de altura tiene un motor de 550 vatios y un eje MK2 con un movimiento de 80 mm. Portabrocas de 16 mm de serie.
El NOVA 16R, que es más versátil que un taladro de columna convencional, es un modelo muy popular en todo el mundo.

Código:	NOVA-16R
Características	
Voltaje	230 V
Potencia	550 W
Motor	1400 rpm
Velocidad rotación	500-2450 rpm
Capacidad taladrado	16 mm
Amarre	MT2
Distancia columna a mesa	140 - 425 mm
Recorrido	80 mm
Dimensiones mesa	220 x 220 mm
Dimensiones base	200 x 340 mm
Altura	930 mm
Peso	37 Kg



Taladro de columna NOVA 16RF



El versátil y fiable taladro NOVA 16RF es una máquina perforadora radial de pie, de cinco velocidades, de alta calidad y fiable. Cinco (5) velocidades. El taladro tiene un peso de 62 kg, la altura es de 1660 mm, motor de 550 vatios y husillo MT-2 con movimiento de 80 mm. El portabrocas de 16 mm forma parte del equipo estándar. Puede perforar en diferentes ángulos muy fácilmente porque la cabeza de perforación tiene ajuste longitudinal e inclinación en ambas direcciones.

Código:	**NOVA-16RF**
Características	
Voltaje	230 V
Potencia	550 W
Motor	1400 rpm
Velocidad rotación	500-2450 rpm
Capacidad taldrado	16 mm
Amarre	MK2 / 16mm
Distancia eje a columna	140 - 425 mm
Recorrido	80 mm
Dimensiones mesa	240 X 420 mm
Altura	1660 mm
Peso	62 Kh
Diametro central mesa	ø30 mm

Taladro de columna NOVA 25ET



El Taladro perforador accionado por engranajes para uso intensivo.
Equipado con un motor de dos velocidades de 650/900 W que gira en ambos sentidos. (Para Roscar)
Taladro perforador accionado por engranajes para uso intensivo. Equipado con un motor de dos velocidades de 650/900 W que gira en ambos sentidos, lo que lo hace ideal para roscar en acero (M10) y hierro fundido (M16). El modelo 25ET resistente de 190 kg tiene una capacidad de taladrado de 25 mm y el husillo MT3 tiene un movimiento de 125 mm.

Incluido: Portabrocas de 16 mm y llaves para herramientas.

Código:	**NOVA-25ET**
Características	
Voltaje	380 V
Potencia del motor	650 / 900 W
Velocidad de rotación	105-2900 rpm
Capacidad de taldarado	25 mm
Roscado en fundido y materiales blandos	M16
Roscado para acero	M10
Amarre	MK3
Recorrido	125 mm
Peso	190 Kg

Taladro de columna NOVA 5035V

El taladro NOVA 5035V es una perforadora industrial con control de velocidad continuo, sistema de enfriamiento y alimentación automática con convertidor de frecuencia. Las ranuras en T en la mesa grande aseguran firmemente la abrazadera del tornillo de la máquina o la mesa de alimentación transversal. El taladro NOVA 5035V de 412 kg y 2160 mm de altura tiene un motor de 1680 vatios, una capacidad de perforación de 35 mm y un husillo MK4 con movimiento de 160 mm.
¡NOTA! El modelo 5035V se entrega sin mesa de alimentación cruzada.
INCLUYE:
Portabrocas 1-13 mm, husillo MK4-B16, 3 fundas adaptadoras MK4> MK3, MK4> MK2, MK3> MK1, Llaves para herramientas.



Código:	NOVA-5035V
Características	
Voltaje	380 V
Ppotencia	1680 W
Velocidad rotación	65-3250rpm
Capacidad taldrado	35 mm
Capacidad fresado	80 mm
Inclinación cabezal	+45°
Capacidad Roscado	M22
Amarre	MK4
Ranuras T	14 mm

Características	
Distancia eje a mesa	625 mm
Distancia eje a columna	320 mm
Distancia husillo a soporte	1180 mm
Recorrido	160 mm
Diámetro columna	120 mm
Dimensiones mesa	500 x 420 mm
Longitud	855 mm
Ancho	510 mm
Alto	2160 mm
Peso	412 Kg
Alimentación automática	0,1 / 0,2 / 0,3 mm/r

Taladro de columna NOVA 5050

El potente NOVA 5050 es un taladro industrial muy popular y confiable que tiene tres velocidades con avance automático. La NOVA 5050 es una taladradora de 690 kg de peso y 2330 mm de altura con motor de 2,8 kW, capacidad de taladrado de 50 mm, capacidad de roscado M30 en acero y husillo MT4 con movimiento de 240 mm. Los rangos de 12 velocidades (52-2050 rpm), la dirección de rotación automática, la alimentación automática de tres velocidades (0,12; 0,23, 0,4 mm / r), el motor de elevación de la mesa y las pantallas digitales de velocidad y alimentación proporcionan una operación versátil y conveniente.



Código:	NOVA-5050
Características	
Voltaje	380 V
Potencia	2,2kW/2,8kW
Velocidad rotación	52-2050 12 pcs
Capacidad taladrado	50 mm
Capacidad Roscado	M30
Amarre	MK4
Ranura en T	14 mm
Distancia husillo a mesa	590 mm
Distancia eje a columna	290 mm
Distancia husillo a base	1175 mm

Características	
Recorrido	240 mm
Diámetro columna	180 mm
Dimensiones mesa	600 x 500 mm
Soporte inferior	445 x 435 mm
Movimiento mesa	530 mm
Longitud	1010 mm
Ancho	580 mm
Alto	2330 mm
Peso	690 Kg

Taladro Radial NOVA 3050

El taladro Nova 3050 es una taladradora radial para uso exigente en talleres. Aquí hay una máquina que le servirá durante décadas. Fácil y conveniente de usar. Las funciones motorizadas hacen que las operaciones sean fáciles y rápidas. El taladro NOVA 3050 de 3500 kg de peso y 2500 mm de alto tiene un motor de 4 kW, una capacidad de taladro de 50 mm y un husillo MT5 con un movimiento de 315 mm. El movimiento del cabezal de perforación es de 1250 mm / 180 grados. Los 16 rangos de velocidad (25-2000 rpm) y los rangos de velocidad de alimentación automática de 0,04-3,2 mm / r (16 piezas) y los motores de alimentación de 0,75 / 1,5 kW garantizan operaciones versátiles y convenientes.

Código:	NOVA-3050
Características	
Voltaje	380 V
Potencia	4000 W
Velocidad rotación	25-2000 rpm (16 Velocidades)
Capacidad taladrado	50 mm
Capacidad roscado	M20
Amarre	MT5
Distancia a columna	350-1600 mm
Distancia a soporte	320-1220 mm
Recorrido	315 mm
Longitud	2840 mm
Largo	1070 mm
Alto	2500 mm
Peso	3500 Kg
Fuerza (Nm)	Max 500 Nm



Sierra de cinta NOVA 85B

Esta sierra de cinta de metal portátil y fácil de manejar, 85B pesa solo 19 kg, tiene un ajuste de velocidad continuo y un ajuste del ángulo de la sierra de 90-45 °.



Código:	NOVA-85B
Características	
Voltaje (V)	230 V
Potencia	1000 W
Velocidad de corte	30-80 m/min
Dimensiones cinta	1325 x 13 x 0,65mm
Ángulo de corte	90-45º
Capacidad rectángulo	90° 85 x 105, 45° 65 x 75 (L x K)
Capacidad diámetro/ángulo	90° a ø85, 45° a ø70
Capacidad diámetro	ø 160 mm
Altura abrazadera	45 mm
Altura de mesa	115 mm
Ruido	82 dB(A)
Longitud	700 mm
Ancho	320 mm
Alto min-max	430 (680) mm
Peso	19 Kg

Sierra de cinta NOVA 115S

Ahora obtiene una sierra de cinta para metal con una hoja giratoria, por casi el mismo precio que una sierra tradicional. No es necesario girar la pieza al serrar. Sierra ideal para espacios reducidos. Potente motor de 370 vatios. Se puede transportar fácilmente. Fácil de quitar del soporte. Gran sierra para conciertos. También puedes usarlo fácilmente sobre una mesa sin soporte. También hay ruedas en el marco que facilitan el movimiento de la máquina cuando la tienes sobre una mesa. Parada automática de la hoja. Fácil cambio de hoja. Guías de hoja buenas y estables. Sierra fácil de usar y segura también para escuelas e instituciones educativas. La hoja se puede levantar para que la sierra se pueda utilizar como una sierra de cinta convencional. La mesa se incluye como accesorio estándar.





Código:	NOVA-115S
Características	
Voltaje	230 V
Potencia	370 W
Motor	1420 rpm
Velocidad de corte	20/29/50 m/min
Dimensiones cinta	1638 X 13 X 0,65 mm
Ángulo corte	90-45º
Capacidad corte rectángulo	90° 110 X 150 Mm, 45° 85 X 110 Mm
Capacidad corte diámetro-ángulo	90° a ø110 Mm, 45° a ø85 Mm
Capacidad corte diámetro	187 mm
Altura abrazadera	65 mm
Altura mesa	690 mm
Longitud	500 mm
Ancho	1000 mm
Alto min-max	1070 (1480) mm
Peso	78 Kg

Sierra de cinta NOVA 128S

NOVA 128S es una práctica sierra "pequeña" sobre un soporte con ruedas. Fijación rápida del material a cortar. Cuchilla pivotante y parada automática. Descenso hidráulico de la cuchilla, para que el material a cortar esté siempre en el mismo lugar.
Ángulo de sierra 45 ° (izquierda) -60 ° (derecha). Peso: 81 kilogramos. Alto: 1090 mm. El soporte está incluido. El soporte tiene ruedas que facilitan el movimiento.



Código:	NOVA-128S
Características	
Voltaje	230 V
Potencia	550 W
Motor	1440 rpm
Dimensiones cinta	1638 X 13 mm
Ángulo corte	45° (Izq), -60° (Drch)
Capacidad corte rectángulo	90° / 100 X 150 Mm 45°/ 90 X 75 Mm -60°/ 55 X 55 Mm
Capacidad corte diámetro	90°/ ø125 Mm 45° /ø90 Mm -60°/ ø55 Mm
Longitud	430 mm
Ancho	860 mm
Alto	1090 mm
Peso	81 Kg

Sierra de cinta NOVA 12N

NOVA 128S es una práctica sierra "pequeña" sobre un soporte con ruedas. Fijación rápida del material a cortar.
Cuchilla pivotante y parada automática. Descenso hidráulico de la cuchilla, para que el material a cortar esté siempre en el mismo lugar.
Ángulo de sierra 45 ° (izquierda) -60 ° (derecha). Peso: 81 kilogramos. Alto: 1090 mm.
El soporte está incluido. El soporte tiene ruedas que facilitan el movimiento.



Código:	NOVA-12N
Características	
Voltaje	380 V
Potencia	750 W
Velocidad de corte	22/33/45/65 m/min
Ángulo corte	90-45º
Dimensiones sierra cinta	2362 X 20 X 0,9 mm
Capacidad corte rectángulo	90º / 178 X 305 Mm 45º / 110 X 178 Mm
Capacidad corte diámetro-ángulo	90° / ø178 Mm 45° / ø127 Mm
Ancho	1210 mm
Largo	440 mm
Altura min-max	1040 (1660) mm
Peso	140 Kg

Sierra de cinta NOVA 170G

Sierra de cinta NOVA 170G con motor de dos velocidades. Una sierra de cinta para metal que es muy popular en el mundo y tiene un precio competitivo para un uso muy exigente. La sierra está equipada con un motor de dos velocidades de 750/1100 vatios y tiene un acoplamiento rápido para sujetar la pieza de trabajo, una hoja giratoria, descenso hidráulico de la hoja y parada automática.
La Sierra NOVA 170G de 170 kg también viene de serie con una bomba de refrigeración, un soporte y un panel de control fácil de usar.



Código:	NOVA-170G
Características	
Voltaje	380 V
Potencia	750 / 1100 W (dos modos velocidad)
Velocidad de corte	40 / 80 m/min
Dimensiones sierra cinta	2085 x 20 x 0,9 mm
Ángulo de corte	90-45º
Capacidad de corte rectangular	90° 170x200 mm 60° 60x60 mm 45° 110x110
Capacidad corte diámetro ángulo	90° a ø170mm 60° ø70mm 45° a ø120mm
Peso	170

Sierra de cinta NOVA 280GV

Construcción robusta de hierro fundido. Hoja giratoria, por lo que el ajuste de los ángulos de la sierra es fácil. Gran capacidad de corte. Motor: 1,1 kW / 380 V. Velocidad de corte: 40/80 m / min. Hoja: 2450 x 0,9 x 27 mm. El ajuste del ángulo 60/45/15 ° a la derecha y a la izquierda 45/30/15 °. Refrigeración: bomba mecánica. Descenso hidráulico de la hoja. Parada automática de la hoja. Peso: 259 kilogramos. La pieza siempre estará en la misma posición, tú eliges los ángulos con el sistema de ajuste. Ahorra espacio y puede instalar la máquina para que no sea necesario moverla ni girarla. Gran capacidad de corte. Puede elegir entre corte manual o automático.



Código:	NOVA-280GV
Características	
Voltaje	380 V
Potencia	1100 W
Velocidad corte sierra	40/80 m/min
Dimensiones sierra de cinta	2450 X 27 X 0,9 mm
Ángulo de corte	90-60
Peso:	260

Sierra de cinta NOVA 310HD

Construcción robusta de hierro fundido. Hoja giratoria, por lo que el ajuste de los ángulos de la sierra es fácil. Gran capacidad de corte. Motor: 1,1 kW / 380 V. Velocidad de corte: 40/80 m / min. Hoja: 2450 x 0,9 x 27 mm. El ajuste del ángulo 60/45/15 ° a la derecha y a la izquierda 45/30/15 °. Refrigeración: bomba mecánica. Descenso hidráulico de la hoja. Parada automática de la hoja. Peso: 259 kilogramos. La pieza siempre estará en la misma posición, tú eliges los ángulos con el sistema de ajuste. Ahorra espacio y puede instalar la máquina para que no sea necesario moverla ni girarla. Gran capacidad de corte. Puede elegir entre corte manual o automático.

Código:	**NOVA-310HD**
Características	
Voltaje	380 V
Potencia	1100 / 850 W
Motor	930/1400 rpm
Velocidad de corte	53/79 m/min
Dimensiones sierra de cinta	2750 X 27 X 0,9 mm
Ángulo de corte	-45 / +60º
Capacidad corte rectangular	90° 280 X 240 Mm 45° 200 X 240 Mm 60° 125 X 240 Mm Izq -45° 225 X 240 Mm
Capacidad corte diámetro ángulo	90° ø250 mm 45° ø200 mm 60° ø125 mm Izq -45° ø225 mm
Largo soporte mesa	1000 mm
Ancho soporte mesa	334 mm
Altura mesa	740 mm
Ancho	900 mm
Largo	1300 mm
Alto min-max	1350 (1650) mm
Peso	350 Kg



Soporte de Rodillos - NOVA RJ1

Altura regulable de 700 a 1080 mm. Gira 360 °. Diámetro del rodillo 57 mm. Anchura del rodillo 400 mm. Peso 6 kilogramos



Código:	**NOVA-RJ1**
Características:	
Ancho	400 mm
Área de trabajo (Altura)	700-1080 mm
Peso	6 Kg

Sierra de cinta NOVA 460G

Nova 460G es una sierra de cinta para metal semiautomática diseñada para un uso profesional exigente.
Gran capacidad de aserrado: 330 mm a 90 ° aserrado recto. Semiautomático: con solo presionar un botón, la pieza de trabajo se sujeta, la hoja de sierra corte y se levanta al finalizar el corte y suelta la pieza de trabajo. Giro en ambas direcciones.

Código:	NOVA-460G
Características	
Voltaje	380 V
Potencia	1500/2200 W
Velocidad de corte	40/80 m/min
Dimensiones sierra cinta	3960 X 27 X 0,9 mm
Capacidad corte rectangular	90° 460 X 250 Mm 60° (Right) 205 X 250 Mm 45° (Izq/Decha) 305 X 250 Mm
Capacidad corte diámetro ángulo	90° 330 nm 60° (Derecha) 205 nm 45° (Izq/Derecha) 305 nm
Peso	900 Kg



Soporte de Rodillos - NOVA RJ9

Altura regulable de 630 a 1100 mm. Diámetro del rodillo 57 mm. Ancho del rodillo 390 mm. Peso 33 kilogramos



Código:	NOVA-RJ9
Características:	
Altura de trabajo regulable	630 - 1100 mm
Número de rodillos	9 rodillos
Ancho y largo	530x1720 mm
Capacidad de carga	200kg
Ancho del rodillo	390mm
Diámetro del rodillo	57 mm
Anchura del espacio de trabajo	530 mm
Longitud	1720 mm
Peso	33 Kg

Soporte de Rodillos - NOVA RJ5I

Altura regulable de 630 a 1100 mm. Número de rollos: 5. Capacidad de carga 600 kg. Ancho del rodillo 360 mm.
Longitud de la mesa de rodillos 1000 mm. Diámetro del rodillo 59 mm. Peso 31 kg.



Código:	NOVA-RJ5I
Características:	
Área de trabajo ancho	360 mm
Altura regulable de mesa	630-1100 mm
Ancho	450 mm
Longitud	1000 mm
Peso	31 Kg

Lijadora de Banda - NOVA 75

El reemplazo de la correa se ha hecho muy fácil y práctico, y centrar la correa es fácil y funciona al 100%. La lijadora tiene una estructura fuerte y un motor de alta calidad. El precio es muy competitivo debido a la importación directa de fábrica. Esta es una lijadora líder en el mercado que está disponible con motor de 230V y 380V.



Modelo: 230V
Modelo: 380 V

Código 230V:	**NOVA-75-230**
Código 380V:	**NOVA-75-380**
Características	
Voltaje	230 / 380 V
Potencia	W3000
Motor	2800 rpm
Dimensiones banda	75x2000 mm
Velocidad de banda	1800 m/s
Longitud	720 mm
Ancho	480 mm
Alto	1050 mm
Peso	63 Kg

Lijadora de Banda - NOVA 150

NOVA 150 de construcción estable con motor cualitativo de 4 kW (1400/2800 rpm). Es muy fácil y conveniente cambiar el cinturón. El centrado de la banda es muy sencillo y 100% funcional. Fácil de usar y soporta un uso exigente.



Código:	**NOVA-150**
Características	
Voltaje	380 V
Potencia	4000 W
Motor	1400 / 2800 rpm
Dimensiones banda	150x2000 mm
Velocidad de banda	900 / 1800 m/s
Longitud	830 mm
Ancho	530 mm
Alto	1030 mm
Peso	81 Kg

Lijadora Banda/Disco - NOVA 50

La rectificadora Nova 50 es una herramienta excelente para cualquier persona que trabaje con metal.
Ahora la molienda es increíblemente fácil y práctica. Lijado de banda y disco en la misma máquina.
El eficiente motor de 750 W (230 V) supera a todos los oponentes. Homologado CE y clasificado como modelo superior.
La longitud de la banda en este modelo es de 50 x 1000 mm.



Código:	NOVA-50
Características	
Voltaje	230 V
Potencia	750 W
Dimensiones banda de lija	50 x 1000 mm
Velocidad banda de lija	1320 m/s
Dimensiones disco de lija	152 mm
Longitud	54 mm
Ancho	54 mm
Alto	37 mm
Peso	26 Kg

Lijadora Banda - NOVA 100

El reemplazo de la correa es muy fácil y conveniente. El centrado de la cinta es muy sencillo y 100% funcional. Construcción fuerte.

Código:	NOVA-100
Características	
Voltaje	230 V
Potencia	1500 W
Dimensiones banda de lija	100 x 1220 mm
Velocidad banda de lija	1140 m/s
Longitud	680 mm
Ancho	360 mm
Alto	940 mm
Peso	44 Kg



Lijadora de tubos y perfiles - NOVA 76

Nova 76 garantiza un rectificado angular preciso y rápido tanto para tubos como para diferentes perfiles. Esta máquina es apta para todo tipo de lijado de metales. Ángulos de 30 a 90 °.
Diámetro pieza: 20 - 76 mm. Para tuberías, así como una variedad de perfiles.
Motor: 3kW / 380V. Velocidad: 2800 rpm. Cinturón: 100 x 2000 mm.
Velocidad de la cinta: 1800 m / min.
Dimensiones: 1450 x 1150 x 650 mm. Peso: 168 kilogramos. Viene con pieza de sujeción con ajustes precisos. Ajuste fácil y preciso para diferentes ángulos. El cinturón es rápido y fácil de cambiar. Viene con un rodillo de soporte de lijado de 26 mm.
Opcional: rodillos de 20, 26, 32, 42, 48, 60 y 76 mm.



Codigo:	NOVA-76
Características	
Voltaje	380 V
Potencia	3000 W
Ángulo de rectificado	30-90°
Tamaño banda de lija	100x2000 mm
Velocidad banda de lija	1800 m/s
Rango	20-76 mm
Longitud	1150 mm
Ancho	650 mm
Alto	1450 mm
Peso	168 Kg

Lijadora de Banda - NOVA 220

Construcción robusta. La sustitución de la correa es muy fácil y práctica, y centrar la correa es fácil y funciona al 100%.



Código:	NOVA-220
Características	
Voltaje	380 V
Potencia	4000 W
Motor	2800 rpm
Dimensiones banda	220x2000 mm
Velocidad de banda	1800 mm
Longitud	960 mm
Ancho	580 mm
Alto	1080 mm
Peso	95 Kg

Afiladora de Brocas - NOVA PP13A

La NOVA PP13A PRO es una máquina diseñada para afilar brocas de 3-13 mm.



Codigo:	NOVA-PP13A
Características	
Voltaje	230 V
Potencia	180 W
Velocidad	5300 rpm
Capacidad	3-13 mm
Ancho	340 mm
Largo	290 mm
Peso	10 Kg

Afiladora de Brocas - NOVA PP30 PRO

La NOVA PP30 PRO es una afiladora de grado profesional diseñada para afilar brocas. Con la máquina puede afilar brocas de 4-30 mm. Dispositivo preciso y de alta calidad para afilar. Se incluyen casquillos ER40 / ER20 (4-30 mm).



Código:	NOVA-PP30PRO
Características	
Voltaje	230 V
Potencia	450 W
Capacidad:	4-30 mm
Motor	3000 rpm
Peso	30 Kg

Compresor - NOVA 068

Los COMPRESORES NOVA se fabrican en una de las fábricas de compresores más grandes del mundo. Esto garantiza que la calidad sea de primera y que las máquinas funcionen. NOVA 068 produce 600 l / min con un motor de 4 KW. La presión máxima para este modelo es de 8 bar. Compare precio / calidad y características con cualquier otro compresor del mercado.



Código:	NOVA-068
Características	
Voltaje	380 V
Potencia	4000 W
Presión	8 bar
Suministro aire	600 l/min
Caudal salida	480 l/min
Capacidad	88 l
Longitud	1200 mm
Ancho	480 mm
Alto	880 mm
Peso	118 Kg

Compresor - NOVA 105

Se ha seleccionado una de las fábricas de compresores de aire más grandes del mundo para producir también compresores de aire NOVA. Esta asociación garantiza un alto nivel de calidad, pero debido a nuestro contacto directo, esto se puede lograr a bajo costo. Este modelo te ofrece 8 bares de presión durante años de uso. ¡El flujo de succión máximo es tan alto como 1050 l / min! Motor muy potente de 7,5 kW.



Codigo:	NOVA-105
Características	
Voltaje	380 V
Potencia	3700 W
Motor	760 rpm
Capacidad	270 l
Presión	12 bar
Suministro de Aire	1050 l/min
Caudal salida	6 bar 760 l/min 8 bar 740 l/min 10 bar 720 l/min 12,5 bar 710 l/min
Fusible	16
Nivel de ruido	80
Longitud	1500
Ancho	550
Alto	1170
Peso	305

Compresor - NOVA SC-10C

Un compresor de tornillo robusto para uso profesional. Potente motor de 7,5 kw con 10 bar F.A.D. 1000 l / min.
Paquete completo de compresor de tornillo con tanque y deshumidificador.
El fácil ajuste de la presión máxima y de carga facilita el ajuste de la salida de presión de acuerdo con su sistema de presión y sus necesidades.
Una función de seguridad detecta el emparejamiento de errores de las fases, lo que evita que la máquina se dañe.
El gabinete se abre rápidamente para las comprobaciones de mantenimiento y todos los componentes están claramente colocados para que puedan ser reparados fácilmente y ahorrando tiempo.



Código:	NOVA-SC10C
Características	
Voltaje	380 V
Potencia	7500 W
Capacidad	270 l
Caudal de salida	7 bar 1300 l/min 8 bar 1200 l/min 10 bar 1000 l/min
Fusible	16 A
Nivel de ruido	65+2 dB(A)
Longitud	810 mm
Ancho	1850 mm
Alto	1530 mm
Peso:	365 Kg
Sistema de inicio	Arrancador Schneider Electric
Conductor	Cinta-Correa
Conector salida aire	3/4"
Lubricante	12 l

Prensa hidráulica - NOVA TY3001

Potencia: 30 toneladas. Construcción robusta y resistente. Un manómetro grande y claro. Ajuste lateral para cilindro, el movimiento lateral es de 300 mm. La prensa hidráulica tiene una altura de trabajo de 0-920 mm. La presión hidráulica está controlada por una bomba manual. El TY-3001 también funciona con aire comprimido. Al combinar la manguera de aire del compresor, se elimina el bombeo manual. Debido a la función neumática, es ideal para todo tipo de talleres de reparación, instituciones educativas, etc.



Código:	NOVA-TY3001
Características	
Capacidad prensa	30 t
Longitud carrera	160 mm
Velocidad compresor pistón	2,5 mm/s
Velocidad del pistón	0,5 mm/s
Anchura de áea de trabajo	530 mm
Altura área de trabajo	0-920 mm
Regulación del cilindro	300 mm
Longitud	880 mm
Ancho	740 mm
Alto	1800 mm
Peso	150 Kg

Prensa hidráulica - NOVA TY5001

Neumático. Conecta la manguera de aire del compresor y la bomba de mano se deja afuera. Cómodo de usar. El ajuste de la mesa está bien realizado. Potencia: 50 toneladas. Neumático. Estructura muy resistente y robusta. Manómetro grande y claro. Debido a la función neumática es ideal para todo tipo de talleres de reparación, instituciones educativas, etc.



Código:	NOVA-TY5001
Características	
Capacidad prensa	50 t
Longitud de carrera	230 mm
Diámetro del pistón	60 mm
Velocidad de compresión del pistón	1,5 mm/s
Velocidad del pistón	0,4 mm/s
Anchura del área de trabajo	650 mm
Altura del área de trabajo	860 mm
Longitud	1300 mm
Ancho	800 mm
Alto	1660 mm
Peso:	243 Kg

Juego de Brochas - NOVA

El juego de llaves NOVA de alta calidad es una solución versátil, duradera y fácil de usar para hacer cuñas internas.
Las brochas endurecidas duran años. NOVA KB48 incluye:
Brochas de 4 y 5 mm de ancho así como manguitos con bridas de 12, 14, 15 y 16 mm.
Brochas de 6 y 8 mm con manguitos con bridas de 18, 19, 20, 22, 24, 25, 26, 28 y 30 mm.
Los insertos estándar se suministran con espaciadores/cuñas.



Código:	NOVA-KB48
Características:	
Juego Medidas	4-5-6-8
Código:	**NOVA-KB1014**
Características:	
Juego Medidas	10-12-14

Barredora Magnética - NOVA MAG18 / NOVA MAG 24

NOVA MAG18 es una barredora magnética que le ayuda a recoger trozos y piezas de metal del taller. Ancho de trabajo 460 mm (18")
NOVA MAG 24 es una barredora magnética que le ayuda a recoger trozos y piezas de metal del taller. Ancho de trabajo 610 mm (24")

Código:	NOVA-MAG18
Características:	
Ancho MAG 18	460 mm
Peso MAG 18	5 kg
Código:	**NOVA-MAG14**
Características:	
Ancho MAG 24	610 mm
Peso MAG 24	6 kg



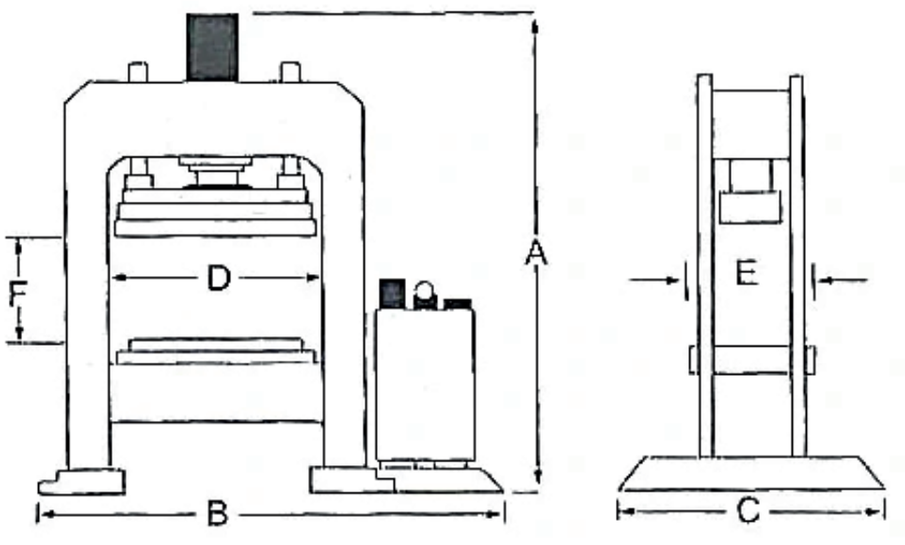
Prensa Hidráulica 30T/50T - NOVA HP30 / NOVA HP50

Prensas hidráulicas para trabajos duros. Diseños duraderos y de alta calidad para talleres y otros profesionales del metal.
30 toneladas de fuerza de compresión con un motor de 3 kW.



Código:	NOVA-HP30
Características: HP30	
Voltaje	380 V
Potencia	3000 W
Capacidad	30 t
Longitud carrera	200 mm
Diámetro del pistón	65 mm
Velocidad del pistón	Sup 7, Inf 10 mm/s
Presión	25 MPa
Capacidad depósito	8 l
Dimensiones mesa	300 x 450 mm
Rango movimiento mesa	270 mm
Peso	420 Kg

Código:	NOVA-HP50
Características: HP50	
Voltaje	380 V
Potencia	3000 W
Capacidad	50 t
Capacidad depósito	12 l
Longitud de carrera	220 mm
Velocidad del pistón	Sup 8, Inf 6
Presión	25MPa
Dimensiones mesa	345 x 475 mm
Rango movimiento mesa	405 mm
Peso	780 Kg



Referencia	Modelo	A	B	C	D	E	F
NOVA-HP30	HP-30	1460	1100	450	500	160	490
NOVA-HP50	HP-50	1750	1300	550	800	200	540

Cabina Chorreadora de Arena - NOVA SBC220

El gabinete de granallado Nova SBC220 es una herramienta profesional. Granallado muy potente con 8,62 bar - 125 PSI. El tamaño del armario es de 860 x 550 x 1390 mm. Facil y seguro de usar. Equipado con guantes protectores de calidad. Amplio espacio de trabajo en la máquina.



Código:	NOVA-SBC220
Características:	
Presión	8,62 (125PSI)
Consumo de aire	300 - 600 bar/l/min
Longitud	550 mm
Ancho	860 mm
Alto	1390 mm
Peso	48 Kg

Cabina Chorreadora de Arena - NOVA SBC350

El gabinete de granallado Nova SBC220 es una herramienta profesional. Granallado muy potente con 8,62 bar - 125 PSI. El tamaño del armario es de 860 x 550 x 1390 mm. Facil y seguro de usar. Equipado con guantes protectores de calidad. Amplio espacio de trabajo en la máquina.



Código:	NOVA-SBC350
Características:	
Presión	4,14 - 8,2 bar
Consumo de aire	400 - 600 bar/l/min
Longitud	1000 mm
Ancho	610 mm
Alto	1630 mm
Peso	90 Kg
Dimensiones Interiores	945 x 605 x 605 mm
Capacidad de arena	18 Kg

Cabina Chorreadora de Arena - NOVA SBC420

La máquina NOVA SBC420 es un modelo profesional para uso industrial. Este modelo tiene puertas que se abren en ambos extremos y también una tapa que se abre. Granallado muy potente con 50-120 PSI. Luz dentro del gabinete.
Tamaño de la máquina: 1300 x 900 x 1300 mm. Gran espacio de trabajo: 1200 x 600 x 570 mm.
Operado con interruptor de pie. Facil y seguro de usar.
Viene con 5 películas protectoras para el vidrio y la lámpara en el interior.



Código:	NOVA-SBC420
Características:	
Presión	3,45 - 8,6 (50 - 125 PSI)
Consumo de aire	680 bar/l/min
Longitud	900 mm
Ancho	1300 mm
Alto	1700 mm
Peso	125 Kg
Dimensiones Interior	1200x600x570 mm

Cabina Chorreadora de Arena - NOVA SBC990

La máquina NOVA SBC990 está equipado de serie con pedal, luz de trabajo, puerta frontal enorme y colector de polvo de aspiración adjunto con filtro. Se incluyen 4 puntas de cerámica y una película de repuesto para la cubierta de la ventana.
El área de trabajo dentro del gabinete es de las mas grandes a nivel compacto: 1175 x 864 x 851 mm.



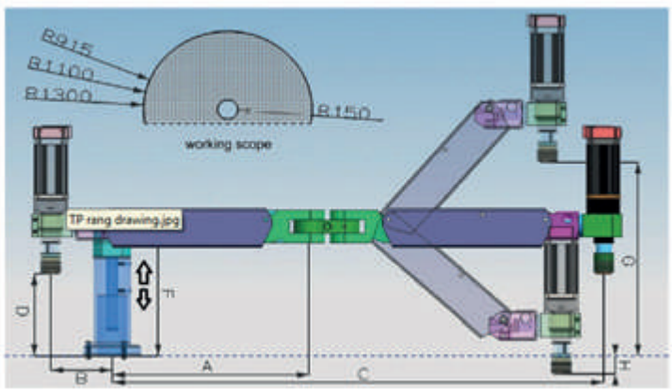
Código:	NOVA-SBC990
Características:	
Presión	5,5-8,6 bar
Consumo de aire	680 bar/l/min
Longitud	1220 mm
Ancho	1334 mm
Alto	1765 mm
Peso	222 Kg
Dimensiones Interior	1175x864x851 mm

Roscadora Neumática Taipu: R31091512 (TP915-12P)



Características:	
Capacidad Roscado	M3-M12
Rango de Radio	915mm
Tamaño de cabeza roscado	Serie 1 - ø19mm
Capacidad Aire	0.6mpa 90 PS (7bar-840lt/min)
Max rpm roscado	600 rpm
Orientación	Vertical
Peso Neto	13/19 Kg

- Portaherramientas de cambio rápido Φ19 mm (Serie 1).
- Incluye 6 cabecillas de roscado con la máquina
- Cambio rápido de 3 a 5 segundos para reducir el tiempo de trabajo y aumentar la productividad
- Base ajustable en altura de 40-60 mm que genera más radio de trabajo.
- Mediante el pie y con tres tornillos M8 se puede fijar la máquina a una mesa o banco de trabajo.



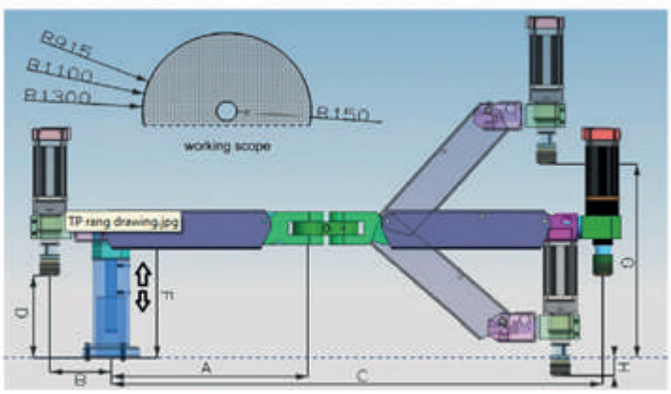
A	B	C	D	F	G	H
400	150	915	200	180	430-530	50

Roscadora Eléctrica Taipu: R31091512 (TP915-12P)

- Portaherramientas de cambio rápido Φ19 mm (Serie 1). Incluye 6 cabecillas de roscado con la máquina
- Cambio rápido de 3 a 5 segundos para reducir el tiempo de trabajo y aumentar la productividad
- Base ajustable en altura de 40-60 mm que genera más radio de trabajo.
- Mediante el pie y con tres tornillos M8 se puede fijar la máquina a una mesa o banco de trabajo.



Características:	
Capacidad Roscado	M2-M12
Rango de Radio	915mm
Tamaño de cabeza roscado	Serie 1 - ø19mm
Potencia Motor (W)	1200W
Max rpm roscado	600 rpm
Max fuerza roscado	30N.m
Orientación	Vertical
Peso Neto	21/28 Kg



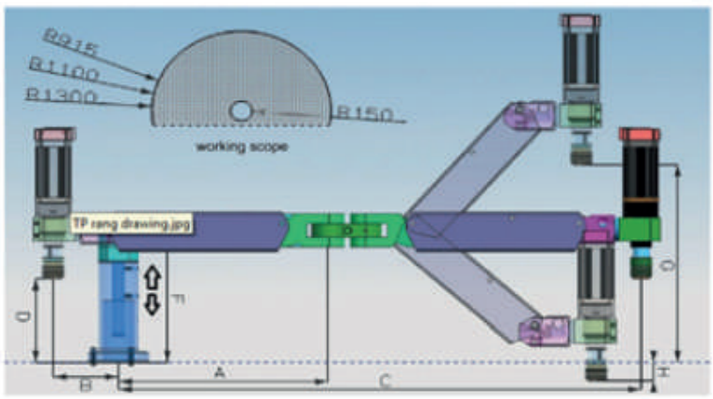
A	B	C	D	F	G	H
400	150	915	200	180	430-530	50

Roscadora Eléctrica Taipu: R32091516 (TP915-16A)

- Portaherramientas de cambio rápido Φ19 mm (Serie 1). Incluye 6 cabecillas de roscado con la máquina
- Cambio rápido de 3 a 5 segundos para reducir el tiempo de trabajo y aumentar la productividad
- Base ajustable en altura de 40-60 mm que genera más radio de trabajo.
- Mediante el pie y con tres tornillos M8 se puede fijar la máquina a una mesa o banco de trabajo.

Características:	
Capacidad Roscado	M3-M16
Rango de Radio	915mm
Tamaño de cabeza roscado	Serie 1 - ø19mm
Potencia Motor (W)	1200W
Max rpm roscado	250 rpm
Max fuerza roscado	50N.m
Orientación	Vertical
Peso Neto	21/28 Kg





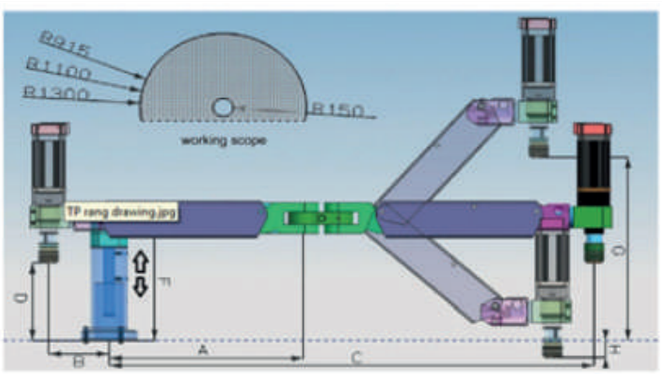
A	B	C	D	F	G	H
400	150	915	200	180	430-530	50

Roscadora Eléctrica Taipu: R32110024 (TP1100-24AU) - Roscado Vertical y Horizontal

- Portaherramientas de cambio rápido Φ31 mm (Serie 2). Incluye 6 cabecillas de roscado con la máquina.
- Cambio rápido de 3 a 5 segundos para reducir el tiempo de trabajo y aumentar la productividad
- Base ajustable en altura de 40-60 mm que genera más radio de trabajo.
- Mediante el pie y con tres tornillos M8 se puede fijar la máquina a una mesa o banco de trabajo.

Características:	
Capacidad Roscado	M3-M24
Rango de Radio	1100mm
Tamaño de cabeza roscado	Serie 2 - ø31mm
Potencia Motor (W)	1200W
Max rpm roscado	150 rpm
Max fuerza roscado	250N.m
Orientación	Vertical y Horizontal
Peso Neto	34/45 Kg



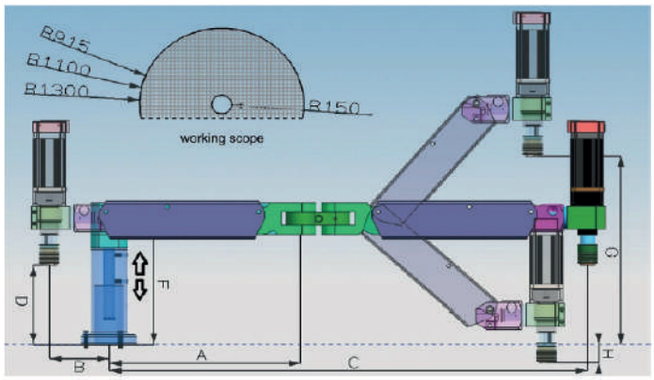


A	B	C	D	F	G	H
480	150	1100	230	300	450-50	100

Roscadora Eléctrica Taipu: R32110030 (TP1100-30AU) - Roscado Vertical y Horizontal



Características:	
Capacidad Roscado	M3-M30
Rango de Radio	1100mm
Tamaño de cabeza roscado	Serie 2 - ø31mm
Potencia Motor (W)	1200W
Max rpm roscado	150 rpm
Max fuerza roscado	270N.m
Orientación	Vertical y Horizontal
Peso Neto	35/46 Kg

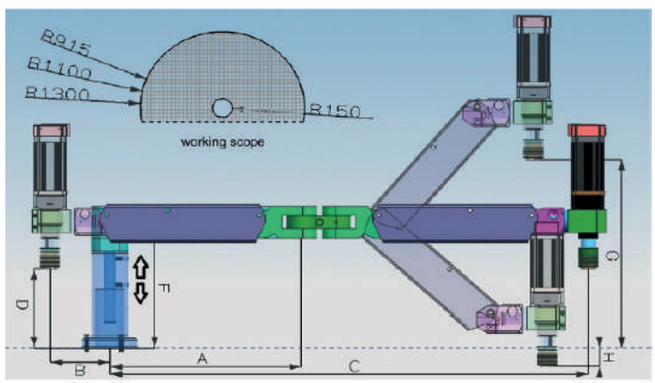


A	B	C	D	F	G	H
480	150	1100	230	300	450-50	100

Roscadora Eléctrica Taipu: R32130042 (TP1300-42AD) - Roscado Vertical y Horizontal



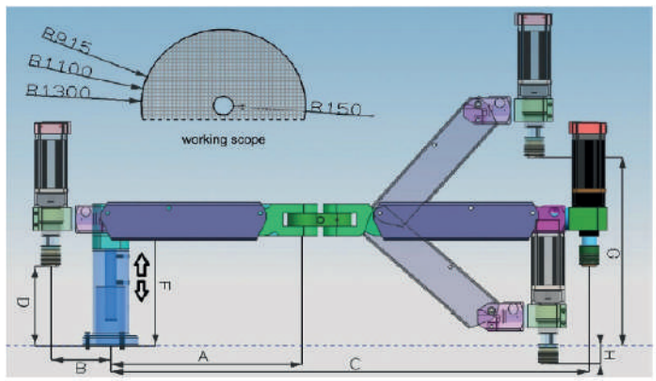
Características:	
Capacidad Roscado	M8-M42
Rango de Radio	1300mm
Tamaño de cabeza roscado	Serie 3 - ø45mm
Potencia Motor (W)	1050W
Max rpm roscado	30/100 rpm
Max fuerza roscado	600N.m
Orientación	Vertical y Horizontal
Peso Neto	110/120 Kg



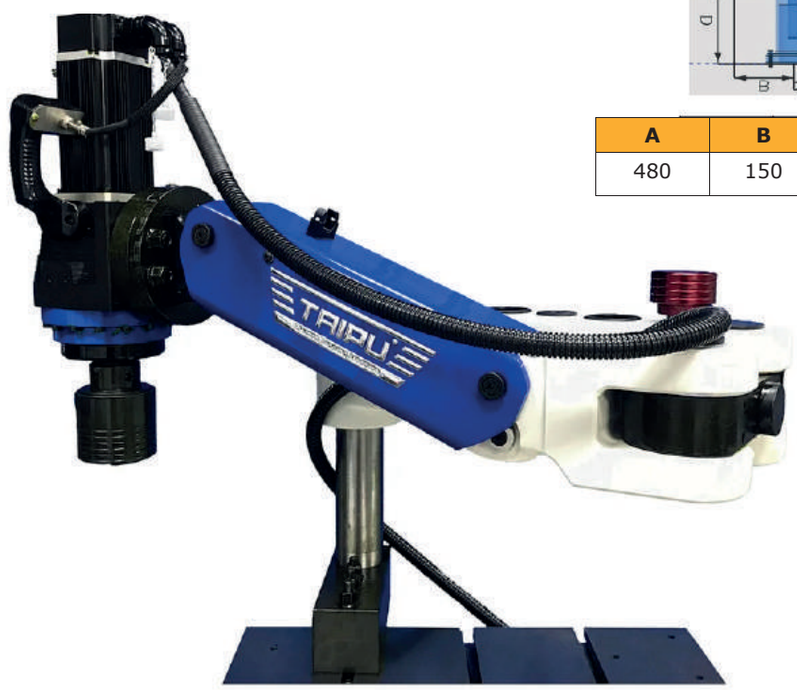
A	B	C	D	F	G	H
480	150	1300	150	400	350-750	50

Roscadora Eléctrica Taipu: R32130060 (TP1300-60VH) - Roscado Vertical y Horizontal

Características:	
Capacidad Roscado	M10-M60
Rango de Radio	1300mm
Tamaño de cabeza roscado	ø60mm
Potencia Motor (W)	1800W
Max rpm roscado	10/20 rpm
Max fuerza roscado	1300N.m
Orientación	Vertical y Horizontal
Peso Neto	155/165 Kg



A	B	C	D	F	G	H
480	150	1300	150	400	350-750	50



Roscadora Eléctrica Taipu: V40080080 (TP-VR1000)

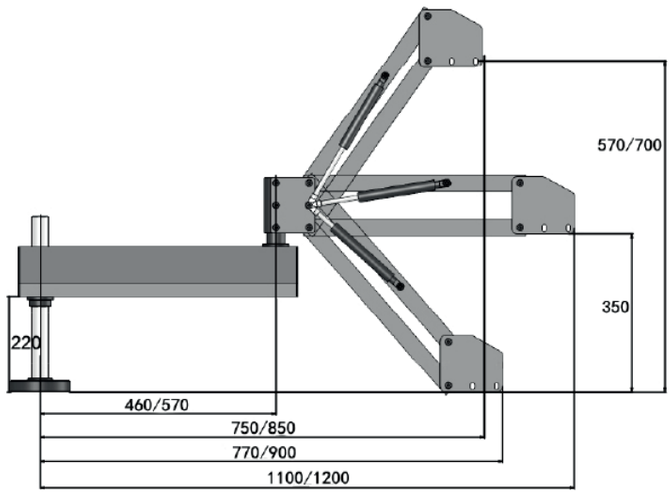
Características:	
Capacidad Roscado	M20-M100
Rango de Radio	1000mm
Tamaño de cabeza roscado	ø60mm
Potencia Motor (W)	2000W
Max rpm roscado	10/20 rpm
Max fuerza roscado	2000N.m
Orientación	Vertical Horizontal (Con accesorios)
Peso Neto	155/165 Kg



Roscadora Eléctrica Taipu: Z33110008 (Z1100-M8) - Roscado Vertical y Horizontal



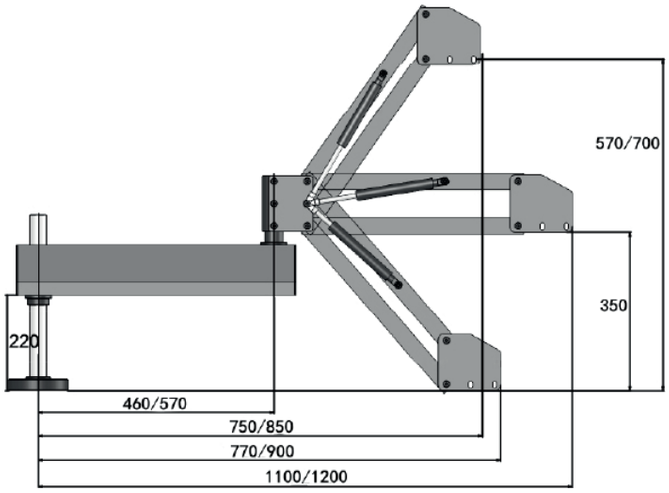
Características:	
Capacidad Roscado	M3-M8
Rango de Radio	1100mm
Tamaño de cabeza roscado	Serie 1 - ø19mm
Potencia Motor (W)	800W
Max rpm roscado	1600 rpm
Max fuerza roscado	13N.m
Orientación	Vertical y Horizontal
Peso Neto	20/30 Kg



Roscadora Eléctrica Taipu: Z33110016 (Z1100-M16) - Roscado Vertical y Horizontal



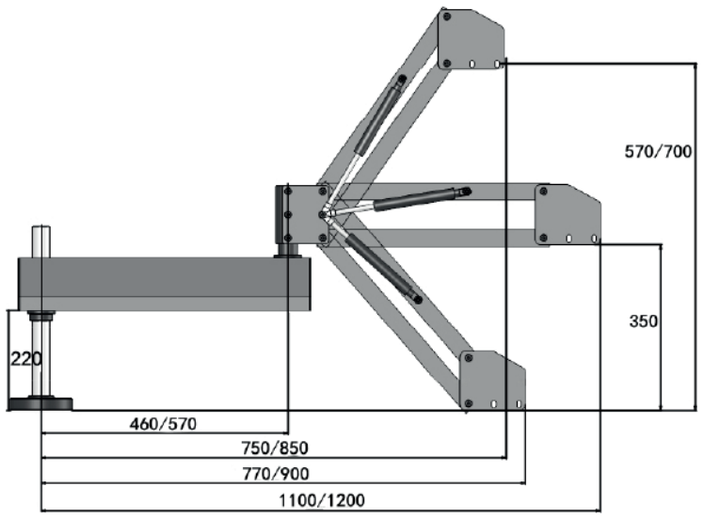
Características:	
Capacidad Roscado	M3-M16
Rango de Radio	1100mm
Tamaño de cabeza roscado	Serie 1 - ø19mm
Potencia Motor (W)	800W
Max rpm roscado	450 rpm
Max fuerza roscado	57N.m
Orientación	Vertical y Horizontal
Peso Neto	23/32 Kg



Roscadora Eléctrica Taipu: Z33150030 (Z1500-M30) - Roscado Vertical y Horizontal

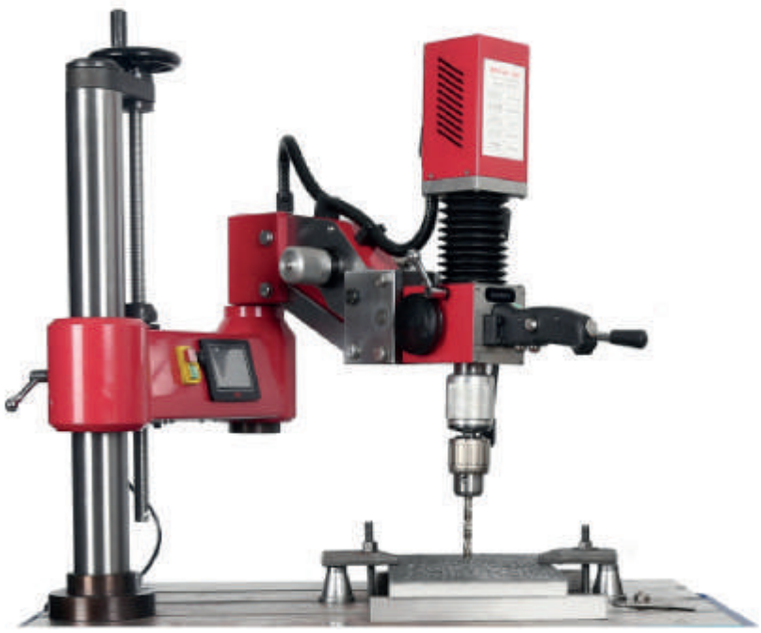


Características:	
Capacidad Roscado	M3-M30
Rango de Radio	1200mm
Tamaño de cabeza roscado	Serie 2 - ø31mm
Potencia Motor (W)	2000W
Max rpm roscado	250 rpm
Max fuerza roscado	240N.m
Orientación	Vertical y Horizontal
Peso Neto	38/48Kg



Taladro-Roscador-Avellanado Taipu DrillTap

- Magnífica máquina robusta para taladrar, roscar y avellanar.
- Suministrado con mesa rígida (Incluido) y adaptadores para roscado y taladrado.



Características: D33085010	
Capacidad de Taladrado	3-10 mm
Capacidad de Roscado	M5-M20
Revoluciones máximas taladrado	5000 rpm
Revoluciones máximas roscado	315 rpm
Máxima capacidad profundidad	80 mm

Características: D33085020	
Capacidad de Taladrado	3-16 mm
Capacidad de Roscado	M5-M20
Revoluciones máximas taladrado	1250 rpm
Revoluciones máximas roscado	315 rpm
Máxima capacidad profundidad	80 mm

Características: D33085030	
Capacidad de Taladrado	3-16 mm
Capacidad de Roscado	M10-M30
Revoluciones máximas taladrado	1250 rpm
Revoluciones máximas roscado	315 rpm
Máxima capacidad profundidad	80 mm

DCP002-U60 - Multiposicionador flexible



Cuerpo de aleación de aluminio σb = 24/ 60 kgf / mm2
- Resistencia a la tracción (25 ° C MPa) = 175
- Térmica expansiva (20-100) 23μm / m · k
- Dureza 60

DCP002-U80 - Adaptador para rotacion 360º





Cuerpo de aleación de aluminio σb = 24/ 60 kgf / mm2
- Resistencia a la tracción (25 ° C MPa) = 175
- Térmica expansiva (20-100) 23μm / m · k
- Dureza 60

Bloque de amarre magnético



Referencia:	DCP009-300
Dimensiones	160x122x65mm
Carga	300 Kgs
Peso	9/10 Kg
Para modelos	R31091212 - R32091515 L32080008/12/16 L33080080/12/16 Z32110008/12/16 Z33110008/12/16

Bloque de amarre magnético



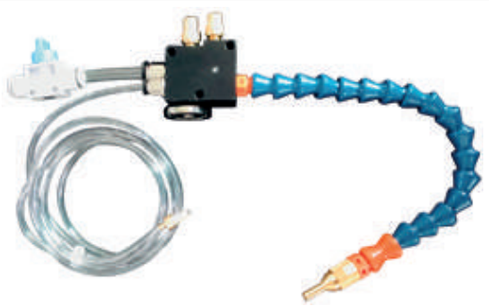
Referencia:	DCP009-600
Dimensiones	240x165x73mm
Carga	600 Kgs
Peso	18/20 Kg
Para modelos	R32110024/30 - L32080024/30 L33080024/30 - Z32120024/30 Z33120024/30

Bloque de amarre magnético



Referencia:	DCP009-1000
Dimensiones	278x165x80mm
Carga	1000 Kgs
Peso	22/25 Kg
Para modelos	R31200012 - Z32120042 T32200008/12/16 T33200008/12/16

Lubricación por pulverización externa magnética



Referencia:	DCP003

Mesa de trabajo rígida para roscadora



Referencia:	DCP001-500
Dimensiones	900x600x700mm
Carga	500 Kgs
Peso	95/105 Kg

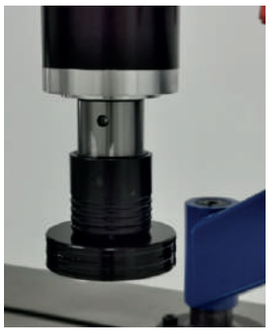
Reductores de cabezal de roscado

Referencia:	Características
DCP005-3119	Reductor ø31 a ø19
DCP005-4831	Reductor ø48 a ø31
DCP005-6048	Reductor ø60 a ø48
DCP005-6031	Reductor ø60 a ø31





Posicionador de Angulo para roscadora







Referencia:	Características
DCP006-19	Posicionador Serie 1 (ø19mm)
DCP006-31	Posicionador Serie 2 (ø31mm)

Portaherramientas para roscado exterior con terraja



Referencia:	Características
DCP007-19	Posicionador Serie 1 (ø19mm)
DCP007-31	Posicionador Serie 2 (ø31mm)
DCP007-48	Posicionador Serie 3 (ø48mm)
DCP007-60	Posicionador Serie 4 (ø60mm)

Portaherramientas/Portabrocas para taladrado/avellanado

Referencia:	Características
DCP008-19	Para modelo Serie 1 (ø19mm)
DCP008-31	Para modelo Serie 2 (ø31mm)



Modelos ZA 27x27D - Altura 390mm

Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
• Dimensiones externas: 600x578
• Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones
ZA39-2	2 Cajones	1x100 | 1x200
ZA39-3	3 Cajones	3x100
ZA39-4	3 Cajones	1x75 | 1x100 | 1x125
ZA39-5	3 Cajones	2x75 | 1x150


ZA39-2


ZA39-3


ZA39-4


ZA39-5

Modelos ZA 27x27D - Altura 840mm

• Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
• Dimensiones externas: 600x578
• Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones
ZA84-1	1 Cajones	1 Puerta 750mm con dos baldas
ZA84-2	2 Cajones 1 Puerta	1x75 | 1x125 1 Puerta 550mm con una balda
ZA84-3	3 Cajones	1x150 | 2x300
ZA84-4	4 Cajones	1x75 | 1x125 1x250 | 1x300
ZA84-5	7 Cajones	2x75 | 2x100 2x125 | 1x150
ZA84-6	5 Cajones	1x75 | 1x100 1x125 | 1x200 | 1x250
ZA84-7	6 Cajones	2x75 | 1x100 2x150 | 1x200
ZA84-8	8 Cajones	4x75 | 2x100 2x125


ZA84-1


ZA84-2


ZA84-3


ZA84-4


ZA84-5


ZA84-6


ZA84-7


ZA84-8

Modelos ZA 27x27D - Altura 990mm

• Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
• Dimensiones externas: 600x578
• Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones Altura Puertas
ZA99-1	1 Cajón 1 Puerta	1 Cajon 100mm 1 Puerta 800mm con 2 baldas
ZA99-2	3 Cajones 1 Puerta	1x75 | 1x125 | 1x150 Puerta 550mm con 1 balda
ZA99-3	5 Cajones	1x150 | 2x300
ZA99-4	6 Cajones	1x75 | 1x125 1x250 | 1x300
ZA99-5	8 Cajones	2x75 | 2x100 2x125 | 1x150
ZA99-6	7 Cajones	1x75 | 2x100 1x125 | 2x150 | 1x200


ZA99-1


ZA99-2


ZA99-3


ZA99-4


ZA99-5


ZA99-6

Modelos ZA 27x27D - Altura 1215mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 600x578
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones Altura Puertas
ZA120-1	4 Cajones 1 Puerta	3X75 | 1X100 1 Puerta 800mm con 2 baldas
ZA120-2	5 Cajones 1 Puerta	1x75 | 1x100 2x125 | 1x150 1 Puerta 550mm con una balda
ZA120-3	5 Cajones	1x100 | 1x125 3x300
ZA120-4	9 Cajones	3x75 | 2x100 2x150 | 2x200
ZA120-5	10 Cajones	3x75 | 4x100 2x150 | 1x200
ZA120-6	6 Cajones	2x100 | 1x125 1x200 | 2x300



ZA120-1



ZA120-2



ZA120-3



ZA120-4



ZA120-5



ZA120-6

Carros ZA 27x27D

Código	Composición
ZAMP-1	578x600x785mm 2 Baldas 2 Ruedas + 2 Ruedas con freno
ZAM39-1	78x600x785mm 3 Cajones de 100 2 Ruedas + 2 Ruedas con freno
ZAM59-1	78x600x785mm 1 cajon 75 | 1 cajón 125 | 1 cajón 300 2 Ruedas + 2 Ruedas con freno
ZAM59-2	78x600x785mm 2 cajones de 75 | 1 cajón de 100 | 1 cajón de 250 2 Ruedas + 2 Ruedas con freno



ZAMP-1



ZAM39-1



ZAM59-1



ZAM59-2

Modelos ZB 36x36D - Altura 390mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 753X731
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones
ZB39-1	1 Cajón	1x300
ZB39-2	2 Cajones	1x100 | 1x200
ZB39-3	3 Cajones	3x100
ZB39-4	3 Cajones	1x75 | 1x100 | 1x125


ZB39-2


ZB39-3


ZB39-4

ZB39-5

Modelos ZB 36x36D - Altura 840mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 753X731
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones
ZB84-1	1 Puerta	1 Puerta 750mm con dos baldas
ZB84-2	2 Cajones 1 Puerta	1x75 | 1x125 1 Puerta 550mm con una balda
ZB84-3	3 Cajones	1x150 | 2x300
ZB84-4	4 Cajones	1x75 | 1x125 1x250 | 1x300
ZB84-5	5 Cajones	1x75 | 1x100 1x125 | 1x200 | 1x250
ZB84-6	6 Cajones	2x75 | 1x100 2x150 | 1x200


ZB84-1


ZB84-2


ZB84-3


ZB84-4


ZB84-5


ZB84-6

Modelos ZB 36x36D - Altura 990mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 753X731
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones Altura Puertas
ZB99-1	1 Cajón 1 Puerta	1 Cajon 100mm 1 Puerta 800mm con 2 baldas
ZB99-2	3 Cajones 1 Puerta	1x75 | 1x125 | 1x150 Puerta 550mm con 1 balda
ZB99-3	5 Cajones	3x100 | 2x300
ZB99-4	6 Cajones	1x75 | 1x100 2x150 | 1x300
ZB99-5	4 Cajones	1x100 | 1x200 2x300
ZB99-6	7 Cajones	1x75 | 2x100 1x125 | 2x150 | 1x200


ZB99-1


ZB99-2


ZB99-3


ZB99-4


ZB99-5


ZB99-6

Modelos ZB 36x36D - Altura 1215mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 753X731
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones Altura Puertas
ZB120-1	4 Cajones 1 Puerta	3X75 | 1X100 1 Puerta 800mm con 2 baldas
ZB120-2	5 Cajones 1 Puerta	1x75 | 1x100 2x125 | 1x150 1 Puerta 550mm con una balda
ZB120-3	5 Cajones	1x100 | 1x125 3x300
ZB120-4	9 Cajones	3x75 | 2x100 2x150 | 2x200
ZB120-5	6 Cajones	2x100 | 1x125 1x200 | 2x300


ZB120-1


ZB120-2


ZB120-3


ZB120-4


ZB120-5

Carros ZB36x36D

Código	Composición
ZBMP-1	731x753x810mm 2 Baldas 2 Ruedas + 2 Ruedas con freno
ZBM39-1	731x753x810mm 3 Cajones de 100 2 Ruedas + 2 Ruedas con freno
ZBM59-1	731x753x810mm 1 cajon 75 | 1 cajón 125 | 1 cajón 300 2 Ruedas + 2 Ruedas con freno
ZBM84-1	731x753x1060mm 1 cajón de 75 | 1 cajón de 100 | 1 cajón de 125 1 cajón de 200 y 1 cajón de 250 2 Ruedas + 2 Ruedas con freno


ZBMP-1


ZBM39-1


ZB120-1


ZB120-1

Modelos ZC 54x27D - Altura 840mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 600X1037
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones
ZC84-2	2 Cajones 1 Puerta	1 x75 | 1 x100 1 Puerta 550mm con 1 balda
ZC84-3	3 Cajones	1x150 | 2x300
ZC84-4	4 Cajones	1x75 | 1x125 1x250 | 1x300
ZC84-5	5 Cajones	1x75 | 1x100 1x125 | 1x200 | 1x250
ZC84-6	6 Cajones	2x75 | 1x100 2x150 | 1x200
ZC84-7	7 Cajones	2x75 | 2x100 2x125 | 1x150
ZC84-8	8 Cajones	4x75 | 2x100 2x125


ZC84-2


ZC84-3


ZC84-4


ZC84-5


ZC84-6


ZC84-7


ZC84-8

Modelos ZC 54x27D - Altura 990mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 600X1037
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones
ZC99-1	1 Cajón 1 Puerta	1x100 1 Puerta 550mm con 2 balda
ZC99-2	3 Cajones 1 Puerta	1x75| 1x125 | 1x150 1 Puerta 550mm con 1 balda
ZC99-3	5 Cajones	3x100 |2x300
ZC99-4	6 Cajones	1x75 | 1x100 1x125 | 2x150 | 1x300
ZC99-5	4 Cajones	1x100 | 1x200 2x300


ZC99-1


ZC99-2


ZC99-3


ZC99-4


ZC99-5

Modelos ZC 54x27D - Altura 1215mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 600X1037
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones Altura Puertas
ZC120-1	4 Cajones 1 Puerta	3X75 | 1X100 1 Puerta 800mm con 2 baldas
ZC120-2	5 Cajones 1 Puerta	1x75 | 1x100 2x125 | 1x150 1 Puerta 550mm con una balda
ZC120-3	5 Cajones	1x100 | 1x125 3x300
ZC120-4	9 Cajones	3x75 | 2x100 2x150 | 2x200
ZC120-5	7 Cajones	1x75 | 2x100 3x200 | 1x250


ZC120-1


ZC120-2


ZC120-3


ZC120-4


ZC120-5

Carros ZC 54x27D

Código	Composición
ZCM59-1	1037x600x855mm 1 cajón 75 | 1 cajón 125 | 1 cajón 300 2 Ruedas + 2 Ruedas con freno
ZCM69-1	1037x600x955mm 1 cajón 75 | 1 cajón 100 | 1 cajón 125 | 1 cajón 300 2 Ruedas + 2 Ruedas con freno
ZCM84-1	1037x600x1105mm 1 cajón 75 | 1 cajón 100 | 1 cajón 125 1 cajón 200 | 1 cajón 250 2 Ruedas + 2 Ruedas con freno


ZCM59-1


ZCM69-1


ZCM84-1

Modelos ZC 54x27D - Altura 840mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 600X731
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones
ZD84-1	1 Puerta	Puerta 750 con 2 baldas
ZD84-2	2 Cajones 1 Puerta	1 x75 | 1 x100 1 Puerta 550mm con 1 balda
ZD84-3	3 Cajones	1x150 | 2x300
ZD84-4	4 Cajones	1x75 | 1x125 1x250 | 1x300
ZD84-5	5 Cajones	1x75 | 1x100 1x125 | 1x200 | 1x250
ZD84-6	6 Cajones	2x75 | 1x100 2x150 | 1x200
ZD84-7	7 Cajones	2x75 | 2x100 2x125 | 1x150
ZD84-8	8 Cajones	4x75 | 2x100 2x125
ZD84-9	9 Cajones	6x75 | 3x100


ZD84-1


ZD84-2


ZD84-3


ZD84-4


ZD84-5


ZD84-6


ZD84-7


ZD84-8


ZD84-9

Modelos ZD 36x27D - Altura 990mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 600X731
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones
ZD99-1	1 Cajón 1 Puerta	1x100 1 Puerta 800mm con 2 balda
ZD99-2	3 Cajones 1 Puerta	1x75| 1x125 | 1x150 1 Puerta 550mm con 1 balda
ZD99-3	5 Cajones	3x100 |2x300
ZD99-4	6 Cajones	1x75 | 1x100 1x125 | 2x150 | 1x300
ZD99-5	4 Cajones	1x100 | 1x200 2x300
ZD99-6	7 Cajones	1x75 | 2x100 1x125 | 2x150 | 1x200


ZD99-1


ZD99-2


ZD99-3


ZD99-4


ZD99-5


ZD99-6

Modelos ZD 36x27D - Altura 1215mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 600X731
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones Altura Puertas
ZD120-1	4 Cajones 1 Puerta	3X75 | 1X100 1 Puerta 800mm con 2 baldas
ZD120-2	5 Cajones 1 Puerta	1x75 | 1x100 2x125 | 1x150 1 Puerta 550mm con una balda
ZD120-3	5 Cajones	1x100 | 1x125 3x300
ZD120-4	9 Cajones	3x75 | 2x100 2x150 | 2x200
ZD120-5	6 Cajones	2x100 | 1X125 1x200 | 2x300


ZD120-1


ZD120-2


ZD120-3


ZD120-4


ZD120-5

Carros ZD 36x27D

Código	Composición
ZDM59-1	731x600x910mm 1 cajón 75 | 1 cajón 125 | 1 cajón 300 2 Ruedas + 2 Ruedas con freno
ZDM59-2	731x600x910mm 1 cajón 75 | 1 cajón 100 | 1 cajón 125 | 1 cajón 200 2 Ruedas + 2 Ruedas con freno
ZDM69-1	731x600x910mm 1 cajón 75 | 1 cajón 100 | 1 cajón 125 1 cajón 200 | 1 cajón 250 2 Ruedas + 2 Ruedas con freno
ZDM84-1	731x600x1060mm 1 cajón 75 | 1 cajón 100 | 1 cajón 125 1 cajón 200 | 1 cajón 250 2 Ruedas + 2 Ruedas con freno


ZDM59-1


ZDM59-2


ZDM69-1


ZDM84-1

Modelos ZE 27x36D - Altura 840mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 578x753
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones
ZE84-1	1 Puerta	Puerta 750 con 2 baldas
ZE84-2	2 Cajones 1 Puerta	1 x75 | 1 x125 1 Puerta 550mm con 1 balda
ZE84-3	3 Cajones	1x150 | 2x300


ZE84-1


ZE84-2


ZE84-3

Modelos ZE 27x36D - Altura 840mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 578x753
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones
ZE84-4	4 Cajones	1x75 | 1x125 1x250 | 1x300
ZE84-5	5 Cajones	1x75 | 1x100 1x125 | 1x200 | 1x250
ZE84-6	6 Cajones	2x75 | 1x100 2x150 | 1x200
ZE84-7	7 Cajones	2x75 | 2x100 2x125 | 1x150
ZE84-8	8 Cajones	4x75 | 2x100 2x125
ZE84-9	9 Cajones	6x75 | 3x100



ZE84-4



ZE84-5



ZE84-6



ZE84-7



ZE84-8



ZE84-9

Modelos ZE 27x36D- Altura 990mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 578x753
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones
ZE99-1	1 Cajón 1 Puerta	1x100 1 Puerta 800mm con 2 balda
ZE99-2	3 Cajones 1 Puerta	1x75| 1x125 | 1x150 1 Puerta 550mm con 1 balda
ZD99-3	5 Cajones	3x100 |2x300
ZE99-4	6 Cajones	1x75 | 1x100 1x125 | 2x150 | 1x300
ZE99-5	4 Cajones	1x100 | 1x200 2x300
ZE99-6	7 Cajones	1x75 | 2x100 1x125 | 2x150 | 1x200



ZE99-1



ZE99-2



ZE99-3



ZE99-4



ZE99-5



ZE99-6

Armario con puerta corredera superior

- Con trasera perforada y llave de cierre
- Modelos en color RAL7035 (Cuerpo) y RAL5012 (Cajones)

Código	Dimensiones
SR1Z	930x220x780mm - largo-fondo-alto
SR3Z	930x220x1084 - largo-fondo-alto
SR4-001	1044x405x1950 - largo-fondo-alto Con 3 baldas
SR-004P	Balda adicional para modelo SR4-001



Modelos SR1Z - SR3Z



Modelo SR4-001

Modelos ZE 27x36D - Altura 1215mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 578x753
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones Altura Puertas
ZE120-1	4 Cajones 1 Puerta	3X75 | 1X100 1 Puerta 800mm con 2 baldas
ZE120-2	5 Cajones 1 Puerta	1x75 | 1x100 2x125 | 1x150 1 Puerta 550mm con una balda
ZE120-3	5 Cajones	1x100 | 1x125 3x300
ZE120-4	9 Cajones	3x75 | 2x100 2x150 | 2x200
ZE120-5	6 Cajones	2x100 | 1X125 1x200 | 2x300



ZE120-1



ZE120-2



ZE120-3



ZE120-4



ZE120-5

Carros ZE 27x36D

Código	Composición
ZEM59-1	578x753x810mm 1 cajón 75 | 1 cajón 125 | 1 cajón 300 2 Ruedas + 2 Ruedas con freno
ZEM59-2	578x753x810mm 1 cajón 75 | 1 cajón 100 | 1 cajón 125 | 1 cajón 200 2 Ruedas + 2 Ruedas con freno
ZEM69-1	578x753x810mm 1 cajón 75 | 1 cajón 100 | 1 cajón 125 | 1 cajón 300 2 Ruedas + 2 Ruedas con freno
ZEM84-1	578x753x1060mm 1 cajón 75 | 1 cajón 100 | 1 cajón 125 1 cajón 200 | 1 cajón 250 2 Ruedas + 2 Ruedas con freno



ZEM59-1



ZEM59-2



ZEM69-1



ZEM84-1

Modelos ZG 54x36D - Altura 840mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 1037x753
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones
ZG84-1	3 Cajones	1x150 | 2x300
ZG84-2	4 Cajones	1x75 | 1x125 1x250 | 1x300
ZG84-3	5 Cajones	1x75 | 1x100 1x125 | 1x200 | 1x250
ZG84-4	6 Cajones	1x75 | 2x100 1x125 | 1x200
ZG84-5	7 Cajones	2x75 | 2x100 2x125 | 1x150
ZG84-6	8 Cajones	4x75 | 2x100 1x125
ZG84-7	9 Cajones	6x75 | 3x100
ZG84-8	1 Puerta 2 Cajones	1x75 | 1x25 1 Puerta 550mm con 1 balda



ZG84-1



ZG84-2



ZG84-3



ZG84-4



ZG84-5



ZG84-6



ZG84-7



ZG84-8

Modelos ZG 54x36D- Altura 990mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 1037x753
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones
ZG99-1	4 Cajones	1x100 | 1x200 2x300
ZG99-2	5 Cajones	3x100 | 2x300
ZD99-3	6 Cajones	1x75 | 1x100 1x125 |2x150 | 1x300
ZG99-4	7 Cajones	1x75 | 2x100 1x125 | 2x150 | 1x200
ZG99-5	8 Cajones	2x75 | 4x100 1x150 | 1x200
ZG99-6	1 Cajón 1 Puerta	1x100 1 Puerta 800mm con 2 balda
ZG99-7	3 Cajones 1 Puerta	1x75 | 1x125 | 1x150 1 Puerta 55mm con 1 balda



ZG99-1



ZG99-2



ZG99-3



ZG99-4



ZG99-5



ZG99-6



ZG99-7

Modelos ZG 54x36D - Altura 1215mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 1037x753
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones Altura Puertas
ZG120-1	5 Cajones	1x100 | 1x125 3x300
ZG120-2	6 Cajones	2x100 | 1x125 1x200 | 2x300
ZG120-3	8 Cajones	2x75 | 2x100 |1x125 1x150 | 1x200 | 1x300
ZG120-4	9 Cajones	3x75 | 2x100 2x150 | 2x200
ZG120-5	6 Cajones	2x100 | 1X125 1x200 | 2x300
ZG150-6	4 Cajones 1 Puerta	3X75 | 1X100 1 Puerta 800mm con 2 baldas



ZG120-1



ZG120-2



ZG120-3



ZG120-4



ZG120-5



ZG120-6

Carros ZG54x36D

Código	Composición
ZGM59-1	1037x753x855mm 1 cajón 75 | 1 cajón 125 | 1 cajón 300 2 Ruedas + 2 Ruedas con freno
ZEGM69-1	1037x753x855mm 1 cajón 75 | 1 cajón 100 | 1 cajón 125 | 1 cajón 300 2 Ruedas + 2 Ruedas con freno
ZGM84-1	1037x753x1105mm 1 cajón 75 | 1 cajón 100 | 1 cajón 125 1 cajón 200 | 1 cajón 250 2 Ruedas + 2 Ruedas con freno



ZGM59-1



ZEGM69-1



ZGM84-1

Modelos ZH 19x36D - Altura 840mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 753x442mm
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones
ZH84-1	1 Puerta	1 Puerta 750mm 2 Baldas
ZH84-2	1 Puerta 2 Cajones	1x75 | 1x125 1 Puerta 550mm con 1 balda
ZH84-3	3 Cajones	1x150 | 2x300
ZH84-4	4 Cajones	1x75 | 1x125 1x250 | 1x300
ZH84-5	5 Cajones	1x100 | 1x100 1x125 | 1x200 | 1x250
ZH84-6	6 Cajones	2x75 | 1x100 2x150 | 1x200
ZH84-7	7 Cajones	2x75 | 2x100 2x125 | 1x150
ZH84-8	8 Cajones	4x75 | 2x100 2x125
ZH84-9	9 Cajones	6x75 | 3x100



ZH84-1



ZH84-2



ZH84-3



ZH84-4



ZH84-5



ZH84-6



ZH84-7



ZH84-8



ZH84-9

Modelos ZH 19x36D - Altura 990mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 753x442mm
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones
ZH99-1	1 Puerta 1 Cajón	1x100 1 Puerta 800mm con 2 baldas
ZH99-2	1 Puerta 3 Cajones	1x75 | 1x125 | 1x150 1 Puerta 550mm con 1 balda
ZH99-3	5 Cajones	3x100 | 2x300
ZH99-4	6 Cajones	1x75 | 1x100 1x125 | 2x150 | 1x300
ZH99-5	4 Cajones	1x100 | 1x200 2x300
ZH99-6	7 Cajones	1x75 | 2x100 | 1x125 2x150 | 1x200



ZH99-1



ZH99-2



ZH99-3



ZH99-4



ZH99-5



ZH99-6

Modelos ZH 19x36D - Altura 1215mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 753x442mm
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones Altura Puertas
ZH120-1	4 Cajones 1 Puerta	3X75 | 1X100 1 Puerta 800mm con 2 baldas
ZH120-2	5 Cajones 1 Puerta	1X75 | 1X100 2X125 | 1x150 1 Puerta 550mm con 1 balda
ZH120-3	5 Cajones	1x100 | 1x125 3x300
ZH120-4	9 Cajones	3x75 | 2x100 2x150 | 2x200
ZH120-5	6 Cajones	2x100 | 1X125 1x200 | 2x300


ZH120-1


ZH120-2


ZH120-3


ZH120-4


ZH120-5

Carros ZH 19x36D

Código	Composición
ZHM59-1	442X753X810mm 1 cajón 75 | 1 cajón 125 | 1 cajón 300 2 Ruedas + 2 Ruedas con freno
ZHM59-2	442X753X810mm 1 cajón 75 | 1 cajón 100 | 1 cajón 125 | 1 cajón 200 2 Ruedas + 2 Ruedas con freno
ZHM69-1	442X753X910mm 1 cajón 75 | 1 cajón 100 | 1 cajón 125 | 1 cajón 300 2 Ruedas + 2 Ruedas con freno
ZHM84-1	442X753X1060mm 1 cajón 75 | 1 cajón 100 | 1 cajón 125 1 cajón 200 | 1 cajón 250 2 Ruedas + 2 Ruedas con freno


ZHM59-1


ZHM59-2


ZHM69-1


ZHM84-1

Modelos ZK 45x36D - Altura 840mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 753x884mm
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones
ZK84-2	1 Puerta 2 Cajones	1x75 | 1x125 1 Puerta 550mm con 1 balda
ZK84-3	3 Cajones	1x150 | 2x300
ZK84-4	4 Cajones	1x75 | 1x125 1x250 | 1x300
ZK84-5	5 Cajones	1x75 | 1x100 1x125 | 1x200 | 1x250
ZK84-6	6 Cajones	2x75 | 1x100 2x150 | 1x200



ZK84-2



ZK84-3



ZK84-4



ZK84-5



ZK84-6

Modelos ZK 45x36D - Altura 990mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 753x884mm
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones
ZK99-1	1 Puerta 1 Cajón	1x100 1 Puerta 800mm con 2 baldas
ZK99-2	1 Puerta 3 Cajones	1x75 | 1x125 | 1x150 1 Puerta 550mm con 1 balda
ZK99-3	5 Cajones	3x100 | 2x300
ZK99-4	6 Cajones	1x75 | 1x100 1x125 | 2x150 | 1x300
ZK99-5	4 Cajones	1x100 | 1x200 2x300
ZK99-6	7 Cajones	1x75 | 2x100 | 1x125 2x150 | 1x200



ZK99-1



ZK99-2



ZK99-3



ZK99-4



ZK99-5



ZK99-6

Modelos ZK 45x36D - Altura 1215mm

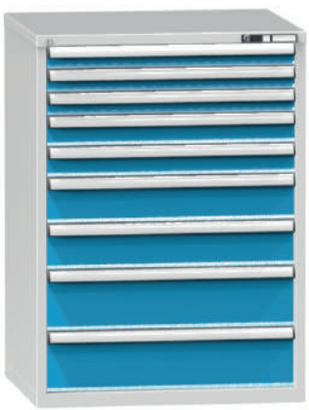
- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 753x884mm
- Opcionales adicionales de personalización disponibles

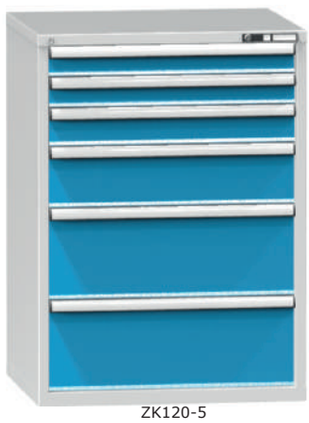
Código	Composición	Altura Cajones Altura Puertas
ZK120-1	4 Cajones 1 Puerta	3X75 | 1X100 1 Puerta 800mm con 2 baldas
ZK120-2	5 Cajones 1 Puerta	1X75 | 1X100 2X125 | 1x150 1 Puerta 550mm con 1 balda
ZK120-3	5 Cajones	1x100 | 1x125 3x300
ZK120-4	9 Cajones	3x75 | 2x100 2x150 | 2x200
ZK120-5	6 Cajones	2x100 | 1X125 1x200 | 2x300


ZK120-1


ZK120-2


ZK120-3


ZK120-4


ZK120-5

Carros ZK 45x36D

Código	Composición
ZKM39-1	884x753x855mm 3 cajones 300 | 1 Balda 2 Ruedas + 2 Ruedas con freno
ZKM59-2	884x753x855mm 1 cajón 75 | 1 cajón 125 | 1 cajón 300 2 Ruedas + 2 Ruedas con freno
ZHM84-1	884x753x1105mm 1 cajón 75 | 1 cajón 100 | 1 cajón 125 1 cajón 200 | 1 cajón 250 2 Ruedas + 2 Ruedas con freno


ZKM39-1


ZKM59-2


ZKM84-1

Modelos ZL 19x27D - Altura 840mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 600x442mm
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones
ZL84-1	1 Puerta	1 Puerta 750mm con 2 baldas
ZL84-2	1 Puerta 2 Cajones	1x75 | 1x125 1 Puerta 550mm con 1 balda
ZL84-3	3 Cajones	1x150 | 2x300
ZL84-4	4 Cajones	1x75 | 1x125 1x250 | 1x300
ZL84-5	7 Cajones	2x75 | 1x100 2x125 | 1x150
ZL84-6	5 Cajones	1x75 | 1x100 1x125 | 1x200 | 1x250
ZL84-7	6 Cajones	2x75 | 1x100 2x150 | 1x200
ZL84-8	8 Cajones	4x75 | 2x100 2x125


ZL84-1


ZL84-2


ZL84-3


ZL84-4


ZL84-5


ZL84-6


ZL84-7


ZL84-8

Modelos ZL 19x27D - Altura 990mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 600x442mm
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones
ZL99-1	1 Puerta 1 Cajón	1x100 1 Puerta 800mm con 2 baldas
ZL99-2	1 Puerta 3 Cajones	1x75 | 1x125 | 1x150 1 Puerta 550mm con 1 balda
ZL99-3	5 Cajones	3x100 | 2x300
ZL99-4	6 Cajones	1x75 | 1x100 1x125 | 2x150 | 1x300
ZL99-5	8 Cajones	3x75 | 2x100 1x125 | 1x150 | 1x200
ZL99-6	7 Cajones	1x75 | 2x100 | 1x125 2x150 | 1x200


ZL99-1


ZL99-2


ZL99-3


ZL99-4


ZL99-5


ZL99-6

Modelos ZL 19x27D - Altura 1215mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 600x442mm
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones Altura Puertas
ZL120-1	4 Cajones 1 Puerta	3X75 | 1X100 1 Puerta 800mm con 2 baldas
ZL120-2	5 Cajones 1 Puerta	1X75 | 1X100 2X125 | 1x150 1 Puerta 550mm con 1 balda
ZL120-3	5 Cajones	1x100 | 1x125 3x300
ZL120-4	9 Cajones	3x75 | 2x100 2x150 | 2x200
ZL120-5	10 Cajones	3X75 | 4X100 2X150 | 1X200
ZL120-6	6 Cajones	2x100 | 1X125 1x200 | 2x300


ZL120-1


ZL120-2


ZL120-3


ZL120-4


ZL120-5


ZL120-6

Carros ZL 19x27D

Código	Composición
ZLMP-1	442x600x785mm 2 Baldas 2 Ruedas + 2 Ruedas con freno
ZLM39-1	442x600x785mm 3 cajones 100 | 1 balda 2 Ruedas + 2 Ruedas con freno
ZLM59-1	442x600x785mm 1 cajón 75 | 1 cajón 125 | 1 cajón 300 2 Ruedas + 2 Ruedas con freno
ZLM59-2	442x600x785mm 2 cajones 75 | 1 cajón 100 | 1 cajón 250 2 Ruedas + 2 Ruedas con freno


ZLMP-1


ZLM39-1


ZLM59-1


ZLM59-2

Modelos ZN 27x19D - Altura 840mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 464x578mm
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones
ZN84-1	1 Puerta	1 Puerta 750mm con 2 baldas
ZN84-2	1 Puerta 2 Cajones	1x75 | 1x125 1 Puerta 550mm con 1 balda
ZN84-3	3 Cajones	1x150 | 2x300
ZN84-4	4 Cajones	1x75 | 1x125 1x250 | 1x300
ZN84-5	7 Cajones	2x75 | 2x100 2x125 | 1x150
ZN84-6	5 Cajones	1x75 | 1x100 1x125 | 1x200 | 1x250
ZN84-7	6 Cajones	2x75 | 1x100 2x150 | 1x200
ZN84-8	8 Cajones	4x75 | 2x100 2x125



ZN84-1



ZN84-2



ZN84-3



ZN84-4



ZN84-5



ZN84-6



ZN84-7



ZN84-8

Modelos ZN 27x19D - Altura 990mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 464x578mm
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones
ZN99-1	1 Puerta 1 Cajón	1x100 1 Puerta 800mm con 2 baldas
ZN99-2	1 Puerta 3 Cajones	1x75 | 1x125 | 1x150 1 Puerta 550mm con 1 balda
ZN99-3	5 Cajones	3x100 | 2x300
ZN99-4	6 Cajones	1x75 | 1x100 1x125 | 2x150 | 1x300
ZN99-5	8 Cajones	3x75 | 2x100 1x125 | 1x150 | 1x200
ZN99-6	7 Cajones	1x75 | 2x100 | 1x125 2x150 | 1x200


ZN99-1


ZN99-2


ZN99-3


ZN99-4


ZN99-5


ZN99-6

Modelos ZN 27x19D - Altura 1215mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 464x578mm
- Opcionales adicionales de personalización disponibles

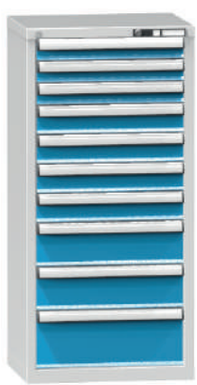
Código	Composición	ANtura Cajones ANtura Puertas
ZN120-1	4 Cajones 1 Puerta	3X75 | 1X100 1 Puerta 800mm con 2 baldas
ZN120-2	5 Cajones 1 Puerta	1X75 | 1X100 2X125 | 1x150 1 Puerta 550mm con 1 balda
ZN120-3	5 Cajones	1x100 | 1x125 3x300
ZN120-4	9 Cajones	3x75 | 2x100 2x150 | 2x200
ZN120-5	10 Cajones	3X75 | 4X100 2X150 | 1X200
ZN120-6	6 Cajones	2x100 | 1X125 1x200 | 2x300


ZN120-1


ZN120-2


ZN120-3


ZN120-4


ZN120-5


ZN120-6

Modelos ZP 36x19D - Altura 840mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 464x731mm
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones
ZP84-1	1 Puerta	1 Puerta 750mm con 2 baldas
ZP84-2	1 Puerta 2 Cajones	1x75 | 1x125 1 Puerta 550mm con 1 balda
ZP84-3	3 Cajones	1x150 | 2x300
ZP84-4	4 Cajones	1x75 | 1x125 1x250 | 1x300
ZP84-5	5 Cajones	1x75 | 1x100 1x125 | 1x200 | 1x250
ZP84-6	5 Cajones	2x75 | 1x100 2x150 | 1x200
ZP84-7	7 Cajones	2x75 | 2x100 2x125 | 1x150
ZP84-8	8 Cajones	4x75 | 2x100 2x125
ZP84-9	9 Cajones	6x75 | 3x100



ZP84-1



ZP84-2



ZP84-3



ZP84-4



ZP84-5



ZP84-7



ZP84-7



ZP84-8



ZP84-9

Modelos ZP 36x19D - Altura 990mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 464x731mm
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones
ZP99-1	1 Puerta 1 Cajón	1x100 1 Puerta 800mm con 2 baldas
ZP99-2	1 Puerta 3 Cajones	1x75 | 1x125 | 1x150 1 Puerta 550mm con 1 balda
ZP99-3	5 Cajones	3x100 | 2x300
ZP99-4	6 Cajones	1x75 | 1x100 1x125 | 2x150 | 1x300
ZP99-5	4 Cajones	1x100 | 1x200 2x300
ZP99-6	7 Cajones	1x75 | 2x100 | 1x125 2x150 | 1x200



ZP99-1



ZP99-2



ZP99-3



ZP99-4



ZP99-5



ZP99-6

Modelos ZP 36x19D - Altura 1215mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 464x731mm
- Opcionales adicionales de personalización disponibles

Código	Composición	ANtura Cajones ANtura Puertas
ZP120-1	4 Cajones 1 Puerta	3X75 | 1X100 1 Puerta 800mm con 2 baldas
ZP120-2	5 Cajones 1 Puerta	1X75 | 1X100 2X125 | 1x150 1 Puerta 550mm con 1 balda
ZP120-3	5 Cajones	1x100 | 1x125 3x300
ZP120-4	9 Cajones	3x75 | 2x100 2x150 | 2x200
ZP120-5	6 Cajones	2x100 | 1x125 1x100 | 2x300
ZP120-6	7 Cajones	1x75 | 2x100 2x150 | 1x250 | 1x300


ZP120-1


ZP120-2


ZP120-3


ZP120-4


ZP120-5


ZP120-6

Modelos ZR 45x19D - Altura 840mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 464X884mm
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones
ZR84-2	1 Puerta 2 Cajones	1x75 | 1x125 1 Puerta 550mm con 1 balda
ZR84-3	3 Cajones	1x150 | 2x300
ZR84-4	4 Cajones	1x75 | 1x125 1x250 | 1x300
ZR84-5	5 Cajones	1x75 | 1x100 1x125 | 1x200 | 1x250
ZR84-6	5 Cajones	2x75 | 1x100 2x150 | 1x200
ZR84-7	7 Cajones	2x75 | 2x100 2x125 | 1x150
ZR84-8	8 Cajones	4x75 | 2x100 2x125
ZR84-9	9 Cajones	6x75 | 3x100


ZR84-2


ZR84-3


ZR84-4


ZR84-5


ZR84-6


ZR84-7


ZR84-8


ZR84-9

Modelos ZR 45x19D - Altura 990mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 464X884mm
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones
ZR99-1	1 Puerta 1 Cajón	1x100 1 Puerta 800mm con 2 baldas
ZR99-2	1 Puerta 3 Cajones	1x75 | 1x125 | 1x150 1 Puerta 550mm con 1 balda
ZR99-3	5 Cajones	3x100 | 2x300
ZR99-4	6 Cajones	1x75 | 1x100 1x125 | 2x150 | 1x300
ZR99-5	4 Cajones	1x100 | 1x200 2x300
ZR99-6	7 Cajones	1x75 | 2x100 | 1x125 2x150 | 1x200



ZR99-1



ZR99-2



ZR99-3



ZR99-4



ZR99-5



ZR99-6

Modelos ZR 45x19D - Altura 1215mm

- Color RAL7035 (Cuerpo) y RAL5012 (Cajones)
- Dimensiones externas: 464X884mm
- Opcionales adicionales de personalización disponibles

Código	Composición	Altura Cajones Altura Puertas
ZR120-1	4 Cajones 1 Puerta	3X75 | 1X100 1 Puerta 800mm con 2 baldas
ZR120-2	5 Cajones 1 Puerta	1X75 | 1X100 2X125 | 1x150 1 Puerta 550mm con 1 balda
ZR120-3	5 Cajones	1x100 | 1x125 3x300
ZR120-4	9 Cajones	3x75 | 2x100 2x150 | 2x200
ZR120-5	6 Cajones	2x100 | 1x125 1x100 | 2x300
ZR120-6	7 Cajones	1x75 | 2x100 2x150 | 1x250 | 1x300



ZR120-1



ZR120-2



ZR120-3



ZR120-4



ZR120-5



ZR120-6

Set de herramientas inalámbricas

El kit de herramientas XT-Line
- Taladro, Taladro de impacto, Amoladora 115mm, Sierra orbital, Sierra de sable Sierra recta circular
- 2 Baterías 18V 2.0 Ah + 1 Batería 18V 4.0 Ah + Cargador
- 1 Bolsa de transporte



Contenido del Set	Descripción
XT102730	Taladro inalámbrico18V
XT102730	Taladro impacto inalámbrico 18V
XT102730	Sierra de sable inalámbrica 18V
XT102740	Lijadora orbital inalámbrica 18V
XT102730	Amoladora inalámbrica 18V
XT102745	Sierra circular inalámbrica 18V
XT102782	2x Batería 18V - 2.0Ah Samsung
XT102784	1X Batería 18V - 4.0 Ah Samsung
XT102785	Cargador batería 18V
XT90060	Bolsa de transporte 670 x 300 x 310mm

Referencia	Descripción
XT102600	Set de herramientas inalámbricas - Set 10 pcs

Set de herramientas inalámbricas

El kit de herramientas XT-Line
- Taladro Combinado SDSplus, Taladro de impacto, Caladora, Sierra Oscilante, Linterna
- 2 Baterías 18V 2.0 Ah + 1 Batería 18V 4.0 Ah
- 1 Bolsa de transporte



Contenido del Set:	Descripción
XT102745	Taladro Inalámbrico SDSplus 18V
XT102800	Taladro impacto inalámbrico 18V
XT102725	Lijadora orbital inalámbrica 18V
XT102735	Caladora inalámbrica 18V
XT102765	Linterna LED inalámbrica 18V
XT102795	Cargador con linterna Led
XT102782	Batería 2X 18V 2.4Ah
XT102785	Batería 1X 18V 2.4Ah
XT102785	Cargador para batería 18V
XT90060	Bolsa de transporte 670 x 300 x 310mm

Referencia	Descripción
XT102610	Set herramientas inalámbricas - Set 10pcs

Set de herramientas inalámbricas



Contenido del Set:	Descripción
XT102700	Taladro de impacto 18V
XT102835	Amoladora angular 125mm - 18V
XT9004	Caja portaherramientas S - 443x310x128mm
XT102782	Batería 18V -2.0Ah Samsung
XT102784	Batería 18V -4.0Ah Samsung
XT102785	Cargador para baterías

Referencia	Descripción
XT102630	Set herramientas inalámbricas - Set 6pcs

Taladro Batería 18V



Taladro XTline Inalámbrico 18V

Taladro inalámbrico diseñado para taladrar o atornillar con dos velocidades y caja de cambios de engranajes metálicos. Mango ergonómico con forma, y portabrocas rápido Iluminación LED de la zona de trabajo.



Parámetros Técnicos:
- Potencia: 18V
- Velocidad: 0-500/0-2000rpm
- Portabrocas: 2-13mm
- Max. ø taladrado Acero: 13mm
- Max. ø taladrado Madera: 35mm
- Max. ø taladrado Hormigón: 13mm
- Peso: 1,2kg (Peso del producto sin batería)
- Máximo apriete: 65Nm
- Aprietes Par: 25+3 Taladrado
- Velocidad: Variable

Referencia	Descripción
XT102800	Caja de Cartón - Sin Baterías

La comocidad del manejo del taladro está garantizada gracias a su diseño ergonómico con asas de goma. Más eficiente y con freno del motor y a prueba de polvo. Caja de cambios con engranajes metálicos. Portabrocas sin llave, con el manejo manual para insertar/quitar brocas.

Parámetros Técnicos:
- Suministro de Potencia: 18V
- Velocidad:: 0-400/0-1400 rpm
- Amarre Portabrocas: 2-13mm
- max. ø taladro: Metal 12mm
- max. ø taladro:Alu 15mm
- max. ø taladro:Madera 25mm
- Máximo Par: 35Nm
- Aprietes Par: 25+1 Taladrado
- Peso: 1.1kg (Peso del producto sin batería)

Referencia	Descripción
XT102700	Caja de Cartón Sín Batería

Llave de impacto Inalámbrico 18 V

Llave inalámbrica con torque ajustable de 3 etapas con un par máximo de 300 Nm. La ventaja es el diseño compacto con forma ergonómica, con mango de goma para un manejo perfectoLa comodidad del manejo del taladro está garantizada gracias a su diseño ergonómico con asas de goma. Más eficiente y con freno del motor y a prueba de polvo. Caja de cambios con engranajes metálicos.



Li-Ion

Parámetros Técnicos:
- Suministro de Potencia: 18V
- Velocidad:0-1000/1800/2700rpm
- Golpes / min: 0-3780bpm
- Par Máximo: 120/180/300Nm
- Amarre: 1/2”
- Peso: 1.2kg (Peso del producto sin batería)

Referencia	Descripción
XT102830	Caja de Cartón - Sin Batería

Taladro de Impacto de Batería 18V

El mecanismo de impacto permite trabajar con todo tipo de tornillos largos o cortos. Dispone de control electrónico de velocidad/motor.



Parámetros Técnicos:
- Suministro de Potencia: 18V
- Velocidad:: 0-2800ot/min
- Golpes / min: 0-3600bpm
- Par Máximo: 180Nm
- Amarre: 1/4”
- Peso: 1.2kg (Peso del producto sin batería)

Referencia	Descripción
XT102710	Caja de Cartón Sín Batería

Maletín Con: Taladro + 2 Baterías





Parámetros Técnicos:
- Suministro de Potencia: 18V
- Velocidad:: 0-400/0-1400 rpm
- Amarre Portabrocas: 2-13mm
- max. ø taladro: Metal 12mm
- max. ø taladro:Alu 15mm
- max. ø taladro:Madera 25mm
- Máximo Par: 35Nm
- Aprietes Par: 25+1 Taladrado
- Peso: 1.1kg (Peso del producto sin batería)
- Tipo Batería: Li-Ion
- Capacidad Batería: 2x2000MAH
- Tiempo de carga: 1h aprox

Accesorios Incluidos:
- Punta 50mm
- 1xPZ1; bit 25mm: head 5mm, 6mm; PPZ1, PH1, PH2, PZ1, PZ2
- Brocas: 1x2mm, 1x2.5mm, 1x3mm, 1x4mm, 1x5mm, 1x6mm
- Amarre Magnético: 55mm

Li-Ion · MADERA · ACERO · AL

2x · 1h · LED · 2x

Referencia	Descripción
XT102770	Maletín con 2 baterías

Maletín Con: Taladro de Impacto + Baterías

La comodidad del manejo del taladro está garantizada gracias a su diseño ergonómico con asas de goma. Más eficiente y con freno del motor y a prueba de polvo. Caja de cambios con engranajes metálicos.





Parámetros Técnicos:
- Suministro de Potencia: 18V
- Velocidad:: 0-2800ot/min
- Golpes / min: 0-3600bpm
- Accesorios: Amarre 50mm PZ1
- Par Máximo: 180Nm
- Amarre: 1/4”
- Peso: 1.2kg (Peso del producto sin batería)
- Capacidad Batería: 1x2000MAH

HEX · 1x · 1h · LED · Li-Ion

Referencia	Descripción
XT102760	Maletín con 1 Batería

Taladro de Impacto de Batería

Taladro inalámbrico para taladrar o atornillar con mecanismo de dos engranajes internos metálicos. Mango de goma ergonómico, sistema de cambio rápido y zona de luz para el área de trabajo.





Taladro Inalámbrico XTline 18V - 4.0Ah

Taladro inalámbrico 18V sin escobillas
Con dos baterías de 4.0Ah + caja incluido.



Parámetros Técnicos:
- Potencia: 18V
- Velocidad: 0-500/0-2000rpm
- Portabrocas: 2-13mm
- Max. ø taladrado Acero: 13mm
- Max. ø taladrado Madera: 35mm
- Max. ø taladrado Hormigón: 13mm
- Máximo apriete: 65Nm
- Aprietes Par: 21+3 Taladrado
- Velocidad: Variable
- Cargador: XT102790 (incluido)
- Batería: XT102790 (2und incluido)
- Peso: 1,1kg
(Peso del producto sin batería)

Referencia	Descripción
XT102865	Equipo Completo: Taladro + Caja + 2 baterías + cargador

Amoladora Batería ø115 - 18V

Amoladora de bateríaø115mm para todo tipo de cortes.
Gracias a su mango permite tres posiciones
para un mejor uso







Parámetros Técnicos:
- Suministro de Potencia: 18V; Velocidad: 10,000 rpm
- Disco ø115mm; Indicador LED de estado batería; Tuerca apriete M14
- Peso 1.6kg (Peso del producto sin batería)
- Accesorios: Llave y Mango

Referencia	Descripción
XT102720	Caja de Cartón - Sin Batería

Maletín Con: Amoladora Batería ø125 - 18V + 2 Baterías







Parámetros Técnicos:**Parámetros Técnicos:**- Suministro de Potencia: 18V; Velocidad: 10,000 rpm
- Disco ø125mm; Indicador LED de estado batería; Tuerca apriete M14
- Peso 1.6kg (Peso del producto sin batería)
- Accesorios: Llave y Mango

Referencia	Descripción
XT102835	Caja de Cartón - Sin Batería

Compresor Batería - 18V

Compresor de Aire, diseñado para inflar pequeños equipos.
Baterías opcionales de 2.0Ah o 4.0Ah

Botón de Arranque

Pantalla LCD con manómetro de bares ó PSI

Equipo con forma ergonómica para un uso más confortable





Parámetros Técnicos:
- Suministro de Potencia: 18V; Máxima presión: 7 bar
- Peso: 0.7kg (Peso del producto sin batería)

Referencia	Descripción
XT102775	Caja de Cartón - Sin Batería

Taladro - Destornillador - 2 Baterías



Batería XT102698



Destornillador de batería dos velocidades y taladro para madera, metal y plásticos. Diseño compacto y ligero. El Destornillador tiene un sistema rápido de extraer el portabrocas y poder atornillar con amarre 1/4”

Parámetros Técnicos:
- Tensión Potencia: 10.8V, 2.0 Ah
- Velocidad sin carga: 0-350 / 0-1350 rpm, Batería 2x2000MAH, Samsung; Amarre 1 -10mm
- Tiempo de carga: 60min, Ajuste Apriete: 18 + 1
- Fuerza: 25Nm, Peso: 1kg, LED Linterna, Indicador LED estado de batería- Peso: 0.9kg (Peso del producto sin batería)
- Max. ø taladrado metal: 6mm
- Max. ø taladrado madera: 10mm
- Max. ø taladrado aluminio: 20mm





Referencia	Descripción
XT102699	Equipo Completo Estuche Plástico
XT102698	1 Batería Lítio10.8V, 2.0Ah Samsung

Destornillador compacto de batería 3,6V

Destornillador compacto de batería, para apretar y aflojar tornillos. Cuerpo giratorio 60º con controlador de par.
Se incluye un práctico estuche de accesorios para su uso.



Accesorios Incluidos:
- 1x Extensión 60mm
- 3x Juego Torq: 6,8,10
- 4x Puntas: 1,2,3,4
- 4x Puntas: S0,S1,S2,S3
- 4x Puntas: PL: 4,6,8,10
- 5x Puntas: IP10,IP15,IP20,IP25,IP30
- 5x Puntas: F: 3,4,5,6,7
- 6x Puntas: TRX: T10,T15,T20,T25,T30,T40
- 7x Puntas: TRX with hole: T10,T15,T20,T25,T30,T35,T40
- 8x Puntas: PH0,PH1,PH2,PH3; PZ1,PZ2,PZ3
- 8x Puntas: HEX: 2,;2,5;3;4;5;5,5;6;8



Parámetros Técnicos:
- Tensión Potencia: 3.6V
- Velocidad:: 200/min
- Amarre: 1/4”
- Cargador: USB
- Max. fuerza: 4Nm
- Posiciones: 10+1 Taladrado
- Peso: 0.5kg (Peso del producto sin batería)
- Tipo Batería: Li-Ion
- Capacidad Batería: 1500MAH
- Tiempo de carga: 3-5h





Referencia	Descripción
XT102106	Caja de Plástico

Lijadora de banda inalámbrica - 18 V

La lijadora de banda inalámbrica es adecuada para trabajar con madera y metal.



Parámetros Técnicos:
- Suministro de Potencia: 18V, Velocidad: 120-380rpm
- Tamaño de banda de lija: 75x457mm
- Peso: 2.4kg (Peso del producto sin batería)

Referencia	Descripción
XT102755	Caja de Cartón - Sin Batería

Cepilladora a batería - 18V

La cepilladora inalámbrica es especialmente adecuada para trabajar con madera. Motor poderoso que asegura un uso más prolongado por carga de batería.



Parámetros Técnicos:
- Suministro de Potencia: 18V, Velocidad: 1400rpm
- Ancho máximo: 82mm | Profundidad máxima 1.5mm
- Máxima profunidad herramienta: 8mm
- Peso: 2.4kg (Peso del producto sin batería)

Referencia	Descripción
XT102750	Caja de Cartón - Sin Batería

Herramienta Múltiple Batería - 18V

La amoladora oscilante corta paneles de yeso, madera, metal, plásticos, composites, etc. Tambien lija esas superficies. Palanca de bloqueo con sistema rápido de sustitución de la herramienta y accesorios. La Luz LED incorporada facilita una visión óptima en el lugar de trabajo.

Luz LED Integrada para facilitar una visiónóptima en el área detrabajo.



Parámetros Técnicos:
- Suministro de Potencia: 18V, Velocidad:: 5000-20000 rpm
- Indicador de Batería LED, Velocidad control: 6-Velocidades
- Ángulo de oscilación: 3º Grados, Sistema de amarre rápido
- Peso: 1.2kg (Peso del producto sin batería)

Referencia	Descripción
XT102725	Caja de Cartón - Sin Batería

Lijadora Orbital Batería - 18V

Diseño ergonómico para un uso fácil en las superficies a trabajar. Soporte de goma para una fácil adaptación de los accesorios.



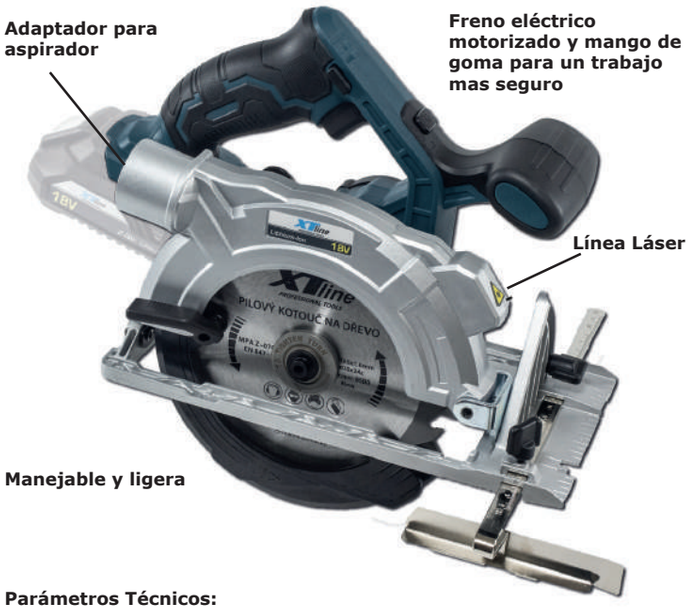


Parámetros Técnicos:
- Suministro de Potencia: 18V
- Velocidad:: 2000-10000 rpm
- Control de Velocidad: 6 grados, diámetro 125mm
- Peso: 1.1kg (Peso del producto sin batería)

Referencia	Descripción
XT102740	Caja de Cartón - Sin Batería

Sierra Circular Batería ø165 - 18V

Se puede ajustar a diferentes ángulos de corte.
Se puede usar para diferente tipo de materiales.



Parámetros Técnicos:
- Suministro de Potencia: 18 V
- Velocidad: 4200 rpm; Diámetro Disco: 165x20x1,6, 20 Dientes
- Corte: 51mm a 90 ° Inclinación: 35mm a 45 °
- Peso: 2.4kg (Peso del producto sin batería)

LASER · MADERA · ACERO · AL · Li-Ion

Referencia	Descripción
XT102745	Caja de Cartón - Sin Batería

Sierra de Calar Batería - 18V

Para uso en corte directo en materiales como madera, Aluminio, madera, etc.. Diseño compacto con un giro pequeño y óptimo.
Sistema de cambio de cuchilla facil y rápido.



Parámetros Técnicos:
- Suministro de Potencia: 18 V
- Velocidad: 0-2700 min, Capacidad Corte: Madera 80mm, Aluminio 12mm, Acero 5mm
- Ángulo de Ajuste 0-45 °, Longitud de Hoja: 20mm, Ajuste de: 4 Grados
- Peso: 1.7kg (Peso del producto sin batería)

LED · MADERA · ACERO · AL · Li-Ion

Referencia	Descripción
XT102735	Caja de Cartón - Sin Batería

Sierra circular a batería ø165 - 18V

Para cortar materiales de madera, ajustable para diferentes ángulos de corte para un ajuste preciso de diferentes materiales de corte.
La sierra está equipada con una guía láser para un corte preciso.



Parámetros Técnicos:
- Suministro de Potencia: 18 V
- Motor sin escobillas
- Velocidad: 4200 rpm; Diámetro Disco: 165x20x1,6, 20 Dientes
- Corte: a 90º - 51mm a 45º - 35mm
- Peso: 2.4kg (Peso del producto sin batería)

LASER · MADERA · ACERO · AL · Li-Ion

Referencia	Descripción
XT102845	Caja de Cartón - Sin Batería

Sierra de Sable Batería - 18V



Parámetros Técnicos:
- Suministro de Potencia: 18V, Velocidad: 0-3000 min
- Potencia de Corte: Madera 115mm, Metal 10mm, Accesorios, 1x sierra madera, 1x sierra metal
- Sistema de Cambio rápido, Indicador LED de batería
- Peso: 1.7kg (Peso del producto sin batería)

MADERA · ACERO · AL · Li-Ion

Referencia	Descripción
XT102730	Caja de Cartón - Sin Batería

Cargador con Luz LED Interna

El cargador es adecuado para cargar dispositivos electrónicos a traves del USB. Además dispone de luz LED. El cargador es suministrado sin catería. Baterías individuales de 2.0Ah o 4.0 Ah. Se compran por separado.



Li-Ion

- Suministro de Potencia 18V; Potencia de carga de salida: 5V
- Corriente de entrada: 1,5A, lámpara LED de 0,3W, intensidad lumínica 60 Lm,
- Peso: 0,12kg (Peso del producto sin batería)

Referencia	Descripción
XT102795	Caja de Cartón - Sin Batería

Baterías de Recambio





Li-Ion

Referencia	Descripción
XT102782	18.0V, Tipo Li-Ion, 2.0Ah - Samsung
XT102784	18.0V, Tipo Li-Ion, 4.0Ah - Samsung
XT102786	18.0V, Tipo Li-Ion, 5.0Ah - Samsung
XT102782E	18.0V, Tipo Li-Ion, 2.0Ah - EVE
XT102784E	18.0V, Tipo Li-Ion, 4.0Ah - EVE
XT102786E	18.0V, Tipo Li-Ion, 5.0Ah - EVE

Linterna LED 3W 18V

Linterna equipada con 3 LED de 3W de alta calidad. Características del LED con amplio ángulo de luz de 90º y con 260 lúmenes.
La lámpara no se suministra ni con batería ni cargador. Se puede comprar cargador 4.0Ah y baterías individuales por separado.



Li-Ion

Parámetros Técnicos
- Suministro de Potencia 18V; consumo de energía: 3W
- Luminosidad: 260 Lm
- Peso: 0.25kg (Peso del producto sin batería)

Referencia	Descripción
XT102765	Caja de Cartón - Sin Batería

Panel de luz LED 35W - 18V

Parámetros Técnicos
- Suministro de Potencia 18V; Potencia: 35W
- Potencia entrada: 15-21V
- Duración batería 1.5h (a máximo brillo)
- Peso: 0.95kg (Peso del producto sin batería)



Referencia	Descripción
XT102768	Caja de Cartón - Sin Batería

Cargador para Baterías



Referencia	Descripción
XT102785	18.0V, Tipo Li-Ion, 2.4Ah
XT102790	18.0V, Tipo Li-Ion, 3.5Ah
XT102792	2x 18.0V, Tipo Li-Ion, 3.5Ah

POWER TOOLS SERIES

www.xtline.com



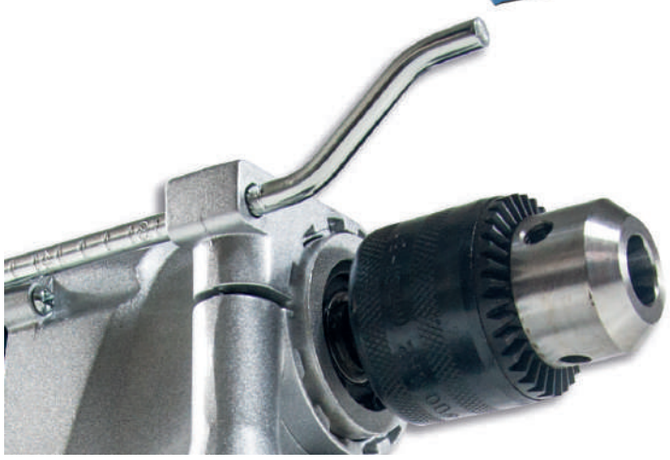
Taladro de Impacto

Taladro de impacto universal. Cuerpo de metal para una alta resistencia. Buen control gracias al gran interruptor, dirección de rotación y velocidad.





ACCESORIOS:
- 1 par de brochas
- Tope de profunidad
- Empuñadura Auxiliar
- Llave Portabrocas



Parámetros Técnicos:
- Potencia 900W; Frecuencia: 230V/50Hz; Peso: 2,9kg
- Velocidad: 0~2800 rpm; Capacidad Taladro: 1,5-13mm
- max. ø taladro madera: 30mm
- max. ø taladro hormigón: 30mm
- max. ø taladro acero: 13mm

Referencia	Descripción
XT106130	Potencia 900W

Taladro de Impacto

Taladro de impacto universal. Cuerpo de metal para una alta resistencia. Buen control gracias al gran interruptor, dirección de rotación y velocidad.

- Cuerpo con Portabrocas 13mm
- Perforación con fuerza e impacto
- Velocidad contínua de control según materiales
- Diseño compacto y poco peso
- Par de fuerza máximo





ACCESORIOS:
- 1 par de brochas
- Tope de profunidad
- Empuñadura Auxiliar
- Llave Portabrocas



Parámetros Técnicos:
- Potencia 850W; Frecuencia 230V/50Hz; Peso: 2,7kg
- Velocidad: 0~3000 rpm; Capacidad Taladro: 1,5-13mm
- max. ø taladro madera: 30mm
- max. ø taladro hormigón: 30mm
- max. ø taladro acero: 13mm

Referencia	Descripción
XT106120	Potencia 850W

Taladro de Impacto - 1050W



Parámetros Técnicos:
- Diámetro Max hormigón: 16mm
- Diámetro Max madera: 40mm
- Diámetro Max metal: 13mm
- Portabrocas: 1.5-13mm con llave
- Potencia: 1050W - Velocidad: 0-1200/3000 rpm
- Peso: 3.2 kg

Referencia	Descripción
XT106150	Potencia: 1050W

Martillo Combinado- SDS PLUS 3J



Parámetros Técnicos:
- Diámetro Hormigón: 28mm
- Diámetro Madera: 30mm
- Diámetro Metal: 13mm
- Amarre: SDS-Plus
- Potencia 850W; Frecuencia: 230V/50Hz; Potencia Impacto: 3J
- Velocidad:: 0~1300 rpm, Peso: 3,2kg

Referencia	Descripción
XT106005	Potencia 850W, 3J

Martillo Combinado SDS PLUS 3J

Martillo combinado con dos tipo de amarre: Tipo SDS-PLUS y amarre cilíndrico para broca.



Parámetros Técnicos:
- Diámetro Max hormigón: 28mm
- Diámetro Max madera: 30mm
- Diámetro Max metal: 13mm
- Portabrocas: SDS-Plus o Portabrocas hasta 13mm sin llave
- Potencia 850W; Frecuencia 230V/50Hz; Potencia Impacto 3J
- Velocidad:: 0~1300 rpm, Peso: 3,2kg

Referencia	Descripción
XT106010	Potencia 850W, 3J



Martillo Combinado SDS-Max

El Martillo combinado se utiliza para taladrar y picar con un corte en ángulo ajustable con una posición de bloqueo.
Sistema antivibraciones para un cómodo trabajo.
El equipo en caso de sobrecarga se auto-apaga automáticamente.
Para uso en ladrillos, hormigón o piedra.

Anti-vibración para reducir lafatiga de trabajo



6 grados ajustables para el control de velocidad

Características
- El ángulo de corte es ajustable con 12 tipos de cinceles
- Mango Ergonómico
- Indicador de encendido y protección sobreesfuerzo
- Sistema Anti-vibración para facilitar el trabajo
- Velocidades ajustables 6 y control de impacto
- Protegido con embrague de seguridad

Parámetros Técnicos:
- Potencia 1100W; Frecuencia 230V/50Hz; Peso: 6,14kg
- Velocidad: 300~760 rpm; Martilleo: 1900-4860BPM
- Fuerza de Golpeo 1-7J, Amarre SDS MAX





Referencia	Descripción
XT106061	Potencia 1100W, 1-7J

Martillo Cortador SDS-Max

Utilizado principalmente para trabajos de demolición en hogares, pero también para uso en corto plazo profesional.
La sujeción hexagonal permite un cambio cómodo de herramienta.
El martillo está equipado con un bloqueo en 12 pasos para un posicionamiento óptimo del cincel.
Uso: Para trabajar en materiales de construcción; Ladrillos, Homigón, Piedra, etc...



Anti-vibraciónpara reducir lafatiga de trabajo

CARACTERÍSTICAS
El ángulo de corte es ajustable a 12 tipos para el cincel.
Amarre Ergonómica suave 360º
Sistema anti-vibración: Reduce la carga de trabajo
Indicador de Encendido y protección
6 Velocidades de control

Parámetros Técnicos:
- Potencia 1200W; frequency 230V/50Hz; Peso: 5,6kg
- Velocidad: 300~760 rpm; Martilleo 1900-4860BPM
- Fuerza de Ataque 14J, Amarre SDS MAX





Referencia	Descripción
XT106057	Potencia 1200W, 14J

Martillo Combinado - SDS PLUS 3.5J

Martillo combinado SDS PLUS para taladrar y cincelar mampostería y hormigón. Para cortar yeso, baldosas, taladrar anclajes y agujeros pasantes y perforación de núcleos. Función de taladrado, taladrado con martilleo y picar. Posibilidad de cambiar la cabeza para sujetar la broca SDS plus y para sujeción de vástago cilíndrico. El mango ergonómico permite trabajo más cómodo y conveniente



Parámetros Técnicos:
- Diámetro Max hormigón: 30mm
- Diámetro Max madera: 30mm
- Diámetro Max metal: 13mm
- Diámetro Max en pared: 80mm
- Portabrocas: SDS-Plus
- Potencia 1000W; Frecuencia 230V/50Hz; Potencia Impacto 3.5J
- Golpes-fuerza 2800-3400min; Velocidad: 650-1000 rpm, Peso: 4,63kg

Referencia	Descripción
XT106040	Potencia: 1000W - 3.5J

Martillo Combinado - SDS PLUS 6J



Parámetros Técnicos:
- Diámetro Max hormigón: 30mm
- Diámetro Max madera: 45mm
- Diámetro Max metal: 15mm
- Portabrocas: SDS-Plus
- Potencia 900W; Frecuencia 230V/50Hz; Potencia Impacto 6J
- Golpes-fuerza 0-4500min; Velocidad: 0-850rpm, Peso: 5,1kg

Referencia	Descripción
XT106050	Potencia: 900W - 6J

Amoladora ø115mm - 720W



Parámetros Técnicos:
- Diámetro Disco: ø115mm
- Con llave de apriete incorporada
- Potencia 720W - Diámetro amarre: ø22.2
- Tuerca de amarre: M14
- Velocidad: 11000 rpm, Peso: 1.9kg

Referencia	Descripción
XT105115	Potencia: 720W - ø115mm

Amoladora ø125mm - 1400W



Parámetros Técnicos:
- Diámetro Disco: ø125mm
- Con llave de apriete incorporada
- Potencia 1400W - Diámetro amarre: ø22.2
- Velocidad de regulación: 1-6 - Tuerca amarre: M14
- Velocidad: 2800-10000 rpm, Peso: 3kg

Referencia	Descripción
XT105130	Potencia: 1400W - ø125mm

Amoladora ø125mm - 840W



Parámetros Técnicos:
- Diámetro Disco: ø125mm
- Con llave de apriete incorporada
- Potencia 840W - Diámetro amarre: ø22.2
- Tuerca de amarre: M14
- Velocidad: 10000 rpm, Peso: 2.0kg

Referencia	Descripción
XT105125	Potencia: 840W - ø125mm

Amoladora ø150mm - 1200W



Parámetros Técnicos:
- Diámetro Disco: ø150mm
- Con llave de apriete incorporada
- Potencia 1200W - Diámetro amarre: ø22.2
- Tuerca de amarre: M14
- Velocidad: 9000 rpm, Peso: 3.5kg



Referencia	Descripción
XT105150	Potencia: 1200W - ø150mm

Amoladora ø230mm - 2600W



Parámetros Técnicos:
- Diámetro Disco: ø230mm
- Con llave de apriete incorporada
- Potencia 2600W - Diámetro amarre: ø22.2
- Tuerca de amarre: M14
- Velocidad: 6500 rpm, Peso: 6.0kg



Referencia	Descripción
XT105240	Potencia: 2600W - ø230mm

Pulidora Excéntrica



Pulidora excéntrica diseñada especialmente para pulir, preservar y tratar pinturas en carrocerias de vehículos sin el uso del agua y también para retocar pequeños defectos, rasguños, etc...
Puede usarse con todo tipo de discos de pulido con o sin pasta de abrillantado o pulido.





Parámetros Técnicos:
- Potencia 600W; 230V/50Hz
- Diámetro disco 150mm, Peso 2,2kg
- Velocidad:: modo 1-3: 1500-3700 rpm para pulido con cera
  modo 4-6: 4800-6800 rpm para pulido

El producto se suministra sin accesorios



Referencia	Descripción
XT105300	Potencia 600W

Pulidora de Tambor



Para la aplicación como el esmerilado, pulido, satinado, etc... Se puede usar con diferente tipo de materiales, como madera, acero, inoxidables, plásticos, etc.. usando el tambor mas adecuado.
Uso óptimo gracias a su versatilidad y ergonomía de fácil uso.





Parámetros Técnicos:
- Potencia 1300W; 230V/50Hz
- Velocidad: 900-3200 rpm, Diámetro: 100x120mm, Peso: 2,8kg

El producto se suministra sin accesorios



Referencia	Descripción
XT105350	Potencia 1300W

Amoladora Orbital Delta - 200W

La amoladora vibratoria es una herramienta para moler materiales de madera, metal, sino también para rectificar acabados dañados. No se recomienda la lijadora para lijar paneles de yeso, eliminación de rayones microfinos después de lavar el vehículo,etc.)



Parámetros Técnicos:
- Superficie de lijado: 150x100mm
- Potencia 200W - Longitud cable: 2metros
- Velocidad: 12500 rpm, Peso: 1.2kg

El producto se suministra sin accesorios

Referencia	Descripción
XT106235	Potencia: 200W

Amoladora Orbital ø125 - 450W

Amoladora compacta excéntrica con diseño ergonómico. Agarre superior para mayor comodidad en cualquier posición de trabajo. Adecuado para moler y pulir varios material, pintura y barniz.



Parámetros Técnicos:
- Superficie de lijado: ø125mm
- Potencia 450W - Accesorio: Extractor de polvo
- Velocidad: 6000-13000 rpm, Peso: 1.75kg

El producto se suministra sin accesorios

Referencia	Descripción
XT106382	Potencia: 450W

Lijadora Orbital

Lijadora orbital con un diseño ergonómico y agarre superior para una mayor comodidad en su uso en todas las posiciones de trabajo. Adecuado para esmerilar, pulir, etc...

TECNOLOGÍA
Cambio rápido del papel

FUERZA
Extracción del polvo







Parámetros Técnicos:
- Potencia 380W; 230V/50Hz; Velocidad: 6 000 - 13 000 rpm
- Diámetro disco 125mm; Extracción del polvo
- Peso 2.2kg

El producto se suministra sin accesorios

Referencia	Descripción
XT106380	Potencia 380W

Lijadora de Banda - 240W



- Facil cambio de papel de lijado
- Tecnología de base de soporte en aluminio resistente
- Salida de extracciòn de polvo





Parámetros Técnicos:
- Potencia 240W; 230V/50Hz; Velocidad: 6000-12000rpm
- Dimensiones de lija: 90mm x 182mm
- Peso 1,5kg

El producto se suministra sin accesorios

Referencia	Descripción
XT106245	Potencia 240W

Juego de Amoladora multifuncional con regulación de velocidad + 6 Accesorios



Referencia	Descripción
XT105135	Potencia: 1400W - Velocidad variable

Accesorio para amoladora - Fresado



Referencia	Descripción
XT105315	Diámetro ø125mm
XT105320	Máquina + Accesorio de fresado ø125mm

Accesorio para amoladora - Banda de lija



Referencia	Descripción
XT105319	Banda 533x30 mm
XT105342	Máquina + Accesorio banda de lija 533x30mm

Accesorio para amoladora - Banda de lija



Referencia	Descripción
XT105305	Banda de 533x30mm
XT105337	Máquina + Accesorio de banda 533x30mm

Accesorio para amoladora - Pulidora



Referencia	Descripción
XT105306	Diámetro ø125mm
XT105345	Máquina + Accesorio pulidora ø125mm

Accesorio para amoladora - Tapa de extracción



Referencia	Descripción
XT105307	Diámetro ø125mm
XT105140	Máquina + Accesorio extracción ø125mm

Accesorio para amoladora - Pulidora



Referencia	Descripción
XT105307	Diámetro ø150mm
XT105325	Máquina + Accesorio pulidora ø150mm

Lijadora de tubos 1300W

La amoladora de cinta para tubos es una ayuda útil para pulir y esmerilar tubos, pulido rugoso y acabado satinado.



Parámetros Técnicos:
- Potencia 1300W; 230V/50Hz; Velocidad: 1100-3200 rpm
- Medidas banda 760x40mm - Peso 4.2kg
- Gran ángulo de la correa (270 °) para un trabajo eficiente

El producto se suministra sin accesorios

Referencia	Descripción
XT105340	Potencia 1300W

Maquina pulidora/rectificadora ø225m

Accesorios incluidos:
1 par de carbono
2x papel de lija (tamaño 150, 180, 240)
2x conectores
1x llave hexagonal
1x manguera de extracción de polvo



Parámetros Técnicos:
- Potencia 710W; 230V/50Hz; Velocidad: 1100-2000 rpm
- Medidas banda 760x40mm Diámetro disco: ø225mm
- Accesorios opcionales: Aspiradora industrial XT102810

Referencia	Descripción
XT106322	Potencia 710W - ø225mm

Herramienta Multifunción

Multi-herramienta para un uso general con diferentes tipos de herramientas.
Dispone de diferentes accesorios para corte, lijado, pulido.
El cabezal se puede ajustar en diferentes ángulos.

- Posibilidad de amarrar el equipo en otras superficies
- Equipamiento: 1xHoja sierra semicircular, 1xHoja sierra, 3x Papel lija (gr40,60,80)



Parámetros Técnicos:
- Potencia 400W; 230V/50Hz
- Velocidad: 15000-22000 rpm
- Peso 1,6kg

Referencia	Descripción
XT106200	Potencia: 400W

Lijadora de Banda





Abrazaderas (opcionales)



Posicionamiento de banda de lija



Cambio rápido de banda de lija



Ajuste manual del mango amarre

Parámetros Técnicos:
- Potencia 1010W; 230V/50Hz; Velocidad: 120-380 rpm
- Nivel de presión acústica (LpA): 90dB
- Nivel de potencia acústica (LwA): 101dB
- Vibraciones 5,07m/s2; Peso 3,6kg

MADERA ACERO AL

Referencia	Descripción
XT106310	Potencia: 1010W, Banda Lija: 75x533mm
106310-76	Abrazaderas: 2pcs

Mini Multi-Herramienta

Multiherramienta para el rectificado, taladrado, pulido, etc...
Se suministra en un estuche con 40 accesorios

TECNOLOGÍA
Mango ergonómico para su uso manualmente



TECNOLOGÍA
Control de velocidad



Parámetros Técnicos:
- Potencia 135W; 230V/50Hz
- Velocidad: 10000-35000 rpm
- 1,8-3,2mm; Peso 0,9kg

MADERA ACERO AL

Referencia	Descripción
XT107050	Potencia: 135W

Caladora - 750W







Parámetros Técnicos:
- Potencia 750W; 230V/50Hz; Velocidad: 600-2900 rpm
- 6 Velocidades de velocidad
- Capacidad de Corte: madera - 132mm, en metal 10mm
- Ajuste de ángulo -45° - +45°; Peso 2.5kg

DŘEVO OCEL AL

Referencia	Descripción
XT106368	Potencia: 750W

Caladora - 600W

Sierra de calar para cortar madera, aglomerado y metal.
Dispone de ajuste de velocidad, modo de corte y acción del péndulo.

ACCESORIOS
- 1 pieza extracción polvo
- 1 pieza adatador
- 1 filtro de polvo
- 2 cuchillas corte
- 1 regla
- 1 manual



MATERIAL
Protección de superficie en plástico



TECNOLOGÍA
4 tipos de cambios oscilante



TECNOLOGÍA
Cambio de herramienta rápido



Parámetros Técnicos:
- Potencia 600W; 230V/50Hz; Velocidad: 16 000 rpm
- Cuchilla: 65mm; Capacidad de Corte: madera - 130mm, en metal 10mm
- Altura de oscilación 26mm; Amarre tipo T
- Ajuste de ángulo -45° - +45°; Peso 3.0kg

DŘEVO OCEL AL

Referencia	Descripción
XT106360	Potencia: 600W

Caladora - 550W

Sierra de calar para cortar madera, aglomerado y metal. Dispone de ajuste de velocidad, modo de corte y acción del péndulo.



ACCESORIOS
- 1 pieza extracción polvo
- 1 pieza adatador
- 1 filtro de polvo
- 2 cuchillas corte
- 1 regla

MATERIAL
Selección del corte en 3 niveles 0-3



TECNOLOGÍA
Velocidad control



TECNOLOGÍA
Botón de funcionamiento conntinuado



Parámetros Técnicos:
- Potencia 550W; 230V/50Hz
- Capacidad de corte: madera - 65mm, aluminio - 12mm, metal 6mm
- Velocidad: 800-2600 rpm
- Ajuste de ángulo -45° - +45°; Peso 2.1kg

Referencia	Descripción
XT106365	Potencia: 550W

Rectificadora de Banco

Pequeña amoladora-rectificadora de banco para pequeñas tareas de rectificados, pulidos, etc.. en espacios cerrados o de difícil acceso. Uso para tipo de materiales adecuando los accesorios.

TECNOLOGÍA
Control de velocidad

POTENCIA
Dos discos frontales



SEGURIDAD
Base con 4 orificios para su amarre en banco de trabajo

TECNOLOGÍA
Manguera flexible

Parámetros Técnicos:
- Potencia 150W; 230V/50Hz
- Velocidad: 0-10000 rpm
- Diámetro disco: 75x20x10mm; Peso 2,7kg

Referencia	Descripción
XT107100	Potencia: 150W

Planeadora-Canteadora

TECNOLOGÍA
13 posiciones de control de profundidad

TECNOLOGÍA
Extracción del polvo en dos sentidos



POTENCIA
Soporte práctico para un facil manejo y alta seguridad en su uso



TECNOLOGÍA
Ajuste de la profundidad de corte de hasta 3 mm dependiendo la superficie.
La máxima profundidad de corte es de 18 mm lo que hace que la máquina sea muy versatil para ranuras y bordes.

ACCESORIOS
- 1 Set guias paralelas
- 1 Soporte

Parámetros Técnicos:
- Potencia 750W; 230V/50Hz; Velocidad: 17 000 rpm
- Tamaño de cuchilla 82x3mm; mango ergonómico; superficie deslizante de aluminio
- Ancho 82mm; Ajustable en rango 0-3mm; profundidad ranura 0-18mm
- Orificios de extracción del polvo en ambos lados; Peso 3.0kg

Referencia	Descripción
XT106372	Potencia: 750W

Recambios para máquina: XT106372



Referencia	Descripción
XT106373	Dimension: 82X3mm

Esmeriladora

Potente motor con lámpara para una mejor visión del área de trabajo.

TECNOLOGÍA
Lampara ajustable

POTENCIA
Discos finos o gruesos

SEGURIDAD
Interruptor
Protegido

Sistema anti-vibración



Parámetros Técnicos:
- Potencia 150W - 230V/50Hz
- Velocidad: 2850 rpm
- Peso 5.5kg
- Nivel de presión acústica: LpA v dB: 83.5 d
- Nivel de potencia acústica: LWA v dB: 96.5dB (A)
- Diámetro disco: 125x16x12,7mm

Referencia	Descripción
XT107125	ø125mm/150W + luz 40W

Esmeriladora

Parámetros Técnicos:
- Potencia 300W - 230V/50Hz
- Velocidad: 2850 rpm
- Peso 8kg
- Nivel de presión acrústica: LpA v dB: 96.5dB (A)
- Nivel de potencia acústica: LpA v dB: 83.5 dB (A)
- Diámetro disco: 150x20x12,7mm



Referencia	Descripción
XT107150	ø150mm/300W + luz 40W

Esmeriladora

Esmeriladora de banco de baja velocidad para el afilado de tijeras, cuchillos, cinceles, etc.. Dos tipos de disco para uso independiente.



Parámetros Técnicos:
- Potencia 250W; 230V/50Hz; Velocidad: 2850 rpm
- Diámetro disco superior: 200x40x20mm
- Diámetro disco: 150x20x12.7mm
- Nivel presión acústica LWA v dB: 96.5dB(A)
- Nivel potencia acústica LpA v dB 83.5dB(A)
- Peso 8.5kg

Referencia	Descripción
XT107175	ø150/200mm; 250W

Esmeriladora

Esmeriladora de gran potencia de dos discos para el desbarbado de todo tipo de metales. Resistente diseño con eliminación de vibraciones.









Parámetros Técnicos:
- Potencia 520W; 230V/50Hz; Velocidad: 2850 rpm
- Diámetro disco: 200x25x16mm
- Nivel presión acústica LWA v dB: 96.5dB(A)
- Nivel potencia acústica LpA v dB 83.5dB(A)
- Peso 18kg

Referencia	Descripción
XT107200	ø200mm; 520W

Afiladora de Cadenas





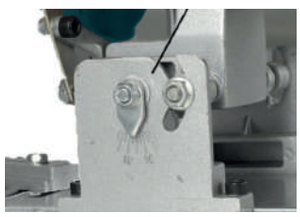
Parámetros Técnicos:
- Potencia 85W - 230V/55Hz
- Tamaño disco: 108x3,2x22,2mm
- Velocidad: 4800 rpm
- Peso 2,8kg

Referencia	Descripción
XT108802	Potencia:185W
XT108812	Recambio disco: 108x32x22,2

Afiladora Eléctrica de Discos

Utilizado para el rectificado de hojas de sierra o discos de sierra.
El ángulo de rectificado es ajustable para garantizar la precisión.







Parámetros Técnicos:
- Potencia 110W; 230V/50Hz; Velocidad: 5300 rpm
- Nivel acústico LWA v dB: 96.5dB(A); nivel de presión sonora LpA v dB 83.5dB(A); Peso 8.5kg

Referencia	Descripción
XT108803	Potencia: 110W
XT108813	Disco 100x10mm

Afiladora de Brocas

Diseñado para el afilado de brocas de forma rápida y precisa.
Sistema de ajuste gracias a su portabrocas universal.







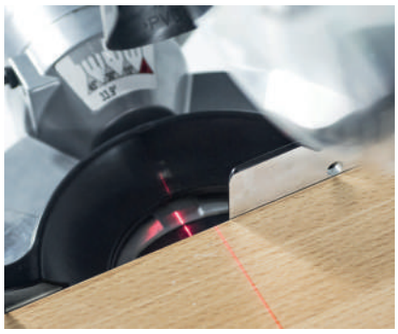


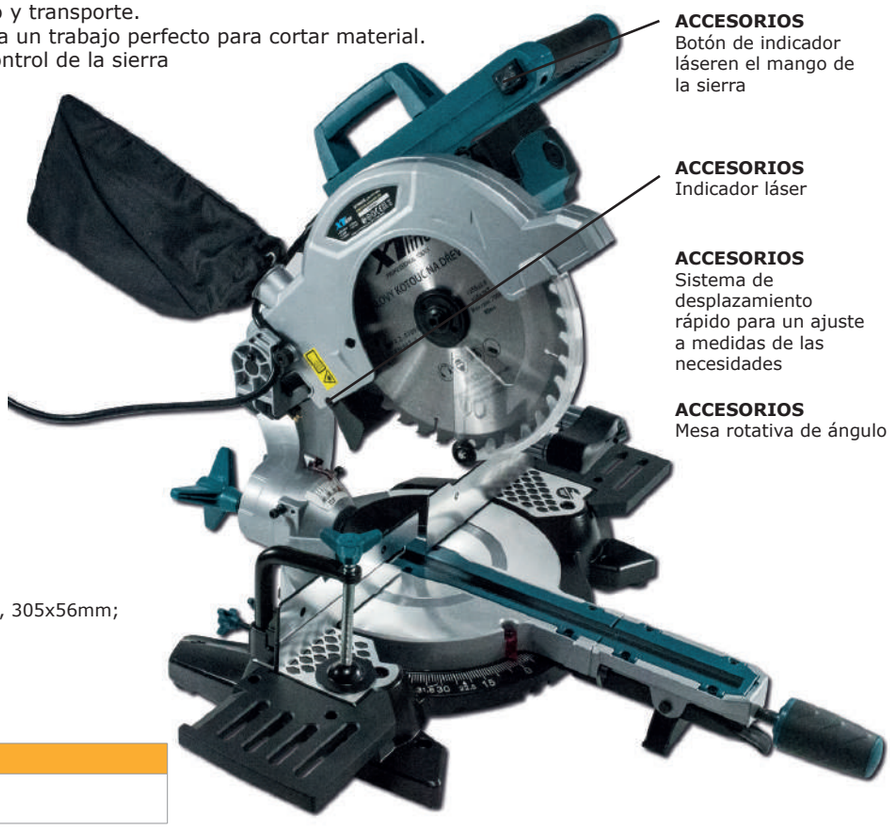
Parámetros Técnicos:
- Potencia 80W; 230V/50Hz; Velocidad: 4800 rpm
- Diámetro de brocas: 3-13mm
- Longitud de brocas: Hasta 60mm, Peso 2,9kg

Referencia	Descripción
XT108808	Potencia: 80W
XT108818	Disco de recambio

Ingletadora - ø255mm

La sierra de inglete es adecuada para cortar madera, plástico y metales no ferrosos. El marcado láser de la línea de corte es práctico para un corte preciso. El diseño permite al usuario trabajar cerca de la pared.
La construcción de la sierra es adecuada para trabajos móviles incluso en áreas pequeñas para un fácil manejo.
Diseño muy compacto para un fácil almacenamiento y transporte.
El potente motor de 2000 W con 4500 rpm garantiza un trabajo perfecto para cortar material.
Mangos de soporte extra anchos para un cómodo control de la sierra



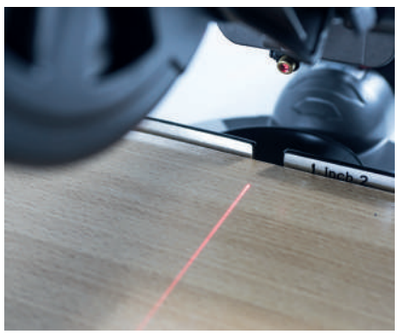


Parámetros Técnicos:
- Potencia 2000W; 230V/50Hz; Velocidad: 4500 rpm
- Diámetro disco: 255mm, Diámetro amarre disco: 30mm
- Corte a: 0°x 0°, 0°x45°; 45°x 0°; 45°x 45°/ 305x90mm, 305x56mm; 305x80mm, 305x56mm
- Ángulo corte ajustable -45° a +45°; Peso: 15,5kg

LASER DŘEVO AL

Referencia	Descripción
XT106255	Diámetro: 255mm Potencia: 2000W

Ingletadora - ø210mm





Parámetros Técnicos:
- Potencia 1700W; 230V/50Hz; Velocidad: 4500 rpm
- Diámetro disco: 210mm, Diámetro amarre disco: 30mm
- Corte a: 0°x 0°, 0°x45°; 45°x 0°; 45°x 45°/ 300x60, 300x35; 210x60, 210x35mm
- Ángulo de corte ajustable -45° a +45°; Peso: 9,5kg

LASER DŘEVO AL

Referencia	Descripción
XT106210	Diámetro: 210mm Potencia: 1700W

Ingletadora ø305mm



Parámetros Técnicos:
- Potencia 2000W; 230V/50Hz; Velocidad: 4500 rpm
- Diámetro disco: 305mm, Diámetro amarre disco: 30mm
- Corte 0ºx90º de 340x120mm; 0ºx45º izquierda de 340x48mm
  +/-45ºx90º de 235x102mm; +/-45ºx45º izquierda de 235x48mm
  +/-45ºx45º derecha de 235x40mm
- Ángulo corte ajustable -45° a +45°; Peso: 15,5kg

LASER DŘEVO AL

Referencia	Descripción
XT106305	Diámetro: 305mm Potencia: 2000W

Cizalla-Cortadora de chapa

Las cizallas para chapa se utilizan para cortes y recortes rápidos y sin virutas hojas de acero macizas y perforadas y hojas de metales no ferrosos. Permiten un corte de chapa rápido y preciso hasta un espesor de 1,6 mm



Parámetros Técnicos:
- Potencia 600W; Frecuencia 230V/50Hz; Velocidad: 4500 rpm
- Espesor máximo de corte: 1.6mm
- Peso 2,5kg

ACERO

Referencia	Descripción
XT106335	Potencia: 600W

Sierra Circular ø185



Parámetros Técnicos:
- Potencia 1350W; Frecuencia 230V/50Hz; Velocidad: 5000 rpm
- Diámetro disco 185mm; diámetro amarre: 30mm
- Corte 90° 62mm, 45°46mm; ángulo de corte ajustable -45° - +45°
- Peso 4,5kg

MADERA AL

Referencia	Descripción
XT106185	Potencia: 1350W

Sierra Circular ø185



Parámetros Técnicos:
- Potencia 1350W; Frecuencia 230V/50Hz; Velocidad: 5300 rpm
- Diámetro disco 185mm; diámetro amarre: 30mm
- Corte 90° 62mm, 45° 46mm; ángulo de corte ajustable -45° - +45°
- Peso 4,1kg

MADERA AL

Referencia	Descripción
XT106187	Potencia: 1380W

Sierra Circular

Para cortes en madera y materiales similares.
También puede usarse en otro tipo de materiales como plásticos y aluminio.

ACCESORIOS
1x Regla
1x Disco



PROTECCIÓN
Cubierta de plástico para máxima seguridad

MATERIAL
Cuerpo de aluminio para un corte estable.

Parámetros Técnicos:
- Potencia 1400W; Frecuencia 230V/50Hz; Velocidad: 5.000 rpm
- Diámetro disco 190mm; diámetro amarre 16mm
- Corte 90° 63mm, 45°44mm; ángulo de corte ajustable -45°/+45°;
- Peso 4,1kg

Referencia	Descripción
XT106190	Potencia: 1350W

Fresadora Frontal

Cortadora frontal-fresadora para tamaños de 8-12mm
Cortador de arco, amarre ergonómico, llave inglesa y extensión-tope.

TECNOLOGÍA
Ajuste de profundidad para el fresado



SEGURIDAD
Base de aluminio estable

Parámetros Técnicos:
- Potencia 1200W; Frecuencia 230V/50Hz;
- Velocidad: 16000-30000 rpm
- Eje: 8,12mm; Peso 4,5kg

Referencia	Descripción
XT106395	Potencia: 1200W

Sierra Circular

Para cortes en madera y materiales similares.
También puede usarse en otro tipo de materiales como plásticos y aluminio.

ACCESORIOS
1x Regla
1x Disco

AJUSTES
Ajuste para ángulos







Parámetros Técnicos:
- Potencia 1300W; Frecuencia 230V/50Hz; Velocidad: 4500 rpm
- Diámetro disco 160mm; diámetro amarre 20mm
- Corte 90° 55mm, 45°35mm; ángulo de corte ajustable -45° - +45°
- Peso 3,5kg

Referencia	Descripción
XT106160	Potencia: 1300W

Sierra de Sable

Hoja de sierra delgada para cortar madera, tuberías, perfiles, etc..
Reemplazo de hoja de forma rápida sin llave.





Parámetros Técnicos:
- Potencia 650W; Frecuencia 230V/50Hz; Velocidad: 500-3000 rpm
- Tamaño de cuchilla: 65mm
- Rendimiento en madera 115mm, en metal - 10mm
- Peso 2.7kg

Referencia	Descripción
XT106390	Potencia: 650W

Soldador Portatil

Soldador electrofusión para soldar todo tipo de tubos termopásticos hasta ø63mm. Adaptadores incorporados con material de teflón anti-adherente. Regulación de temperatura de 0-300ºC. Indicador de potencia y temperatura.

Caja de Metalcon accesorios

ACCESORIOS
Extensiones en ø(32,40,50,63mm)





Parámetros Técnicos:
- Potencia 230V/50Hz; Potencia 800W; Tiempo de calentamiento <15min.
- Peso 3,4kg

Referencia	Descripción
XT101001	800W, ø 20-63mm

Accesorios para Soldador (XT101001)



Referencia	Descripción
XT101020	20mm
XT101025	25mm
XT101032	32mm
XT101040	40mm
XT101050	50mm
XT101063	63mm

Pistola de Calor

Pistola de calor para eliminar pinturas, barniz o dar formas con la contracción/dilatación de materiales. Pantalla LCD para mostrar la temperatura actual. Varias boquillas para un trabajo efectivo.





Boquillas diferentes tipos



Calentador:
en espiral cerámico

Parámetros Técnicos:
- Potencia 230V/50Hz; Potencia 2000W; 50-650°C,
- 4 boquillas, 1 rascador
- Flujo aire 250-500l/min
- Peso: 0,95kg

Referencia	Descripción
XT106230	2000W, Caja de Cartón

Soldador Portatil



ACCESORIOS
Extensiones en ø(16,20,25,32mm)



Parámetros Técnicos:
- Potencia 800W; Potencia 230V/50Hz; Tiempo de calentamiento <15min.;
- Peso 2,8kg

Referencia	Descripción
XT103001	800W, ø 16-32mm

Accesorios para Soldador (XT103001)



Referencia	Descripción
XT101020	20mm
XT101025	25mm
XT101032	32mm
XT101040	40mm

Pistola de Calor





Modelo XT106220:
3 Tipos de Temperatura

Parámetros Técnicos:
- Potencia 230V/50Hz; Potencia 2000W; 3 Temperaturas 50-450-600°C,
- 4 Boquillas, 1 rascador
- Flujo aire 250-500l/min
- Peso: 0,95kg

Referencia	Descripción
XT106220	2000W, Caja de Cartón

Máquina de soldar Inverter 160A

Tecnología de ciclo de trabajo alto a 40ºC, que se encarga del funcionamiento continuo a largo plazo e incluso a temperaturas ambiente elevadas. Equipado con grandes acoplamientos rápidos para cables de sujeción con terminales 35-50mm.



Parámetros Técnicos:
- Rango de soldadura: 20-160A
- Ciclo de trabajo 40º - 71A-100% / 92A-60% / 160A-20%
- Electrodos de 1.6 a 4 mm
- Potencia 5300W
- Proteccion IP21 - Peso: 4kg

Referencia	Descripción
XT103160	Potencia: 160A

Pistola de pegamento

Pistola de cola para pegar diversos materiales como textiles, madera, metal, corcho, plástico, cerámica ...



Referencia	Descripción
XT10905	Potencia: 100W - barra ø7.2mm

Pistola de pegamento

TECNOLOGÍA
Función anti-goteo
Fusible de seguridad
Cuerpo cerámico
Boquilla intercambiable



Referencia	Descripción
XT10910	Potencia: 100W - barra ø11mm
XT10916	Potencia: 150W - barra ø11mm

Pistola de pegamento



Referencia	Descripción
XT10906	40W, pegamento barra ø 11mm
XT10929	80W, pegamento barra ø 11mm

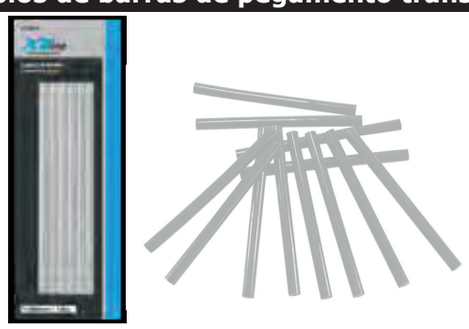
Pistola de soldar

La pistola de soldadura está diseñada para soldar fácilmente, conexiones eléctricas soldadas, hacer modelos y pintar por anillo.



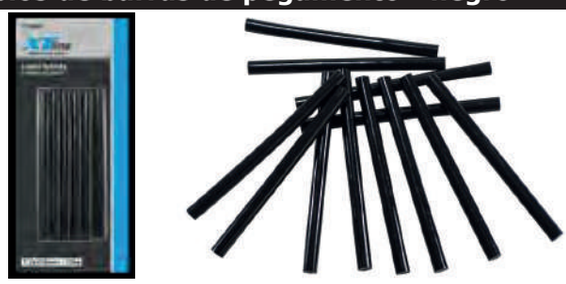
Referencia	Descripción
XT10930	Potencia: 150W
P19932	Hilo soldar ø1mm/200g

Recambios de barras de pegamento transparente



Referencia	Descripción
XT10901	Longitud 100mm - ø7mm - Pack 12 und
XT10902	Longitud 300mm - ø7mm - Pack 20 und
XT10903	Longitud 300mm - ø11mm - Pack 10 und

Recambios de barras de pegamento - negro



Referencia	Descripción
XT10805	Longitud 100mm - ø7.2 mm - Pack 12 und
XT10806	Longitud 100mm - ø11 mm - Pack 12 und

Compresor 2HP 1.5Kw



Parámetros Técnicos:
- Compresor aceite, potencia: 1,5kW; caudal de presión: 24litros
- Max. presión 8bar; 2850 rpm
- Potencia: 230V/ 50-60Hz
- Potencia: 187 l/min; fuerza zalida: 125l/min
- Peso 23kg

Referencia	Descripción
XT2002	Pistón Simple 1,5kW

Compresor 0,75HP 550W



Parámetros Técnicos:
- Potencia: 550W; Capacidad: 6 litros
- Max. presión 8bar; 1400 rpm
- Potencia: 230V/ 50-60Hz
- Potencia orientable: 45 l/min;
- Peso: 15kg

Referencia	Descripción
XT2009	Potencia: 550W

Compresor 3HP 2.2Kw

Compresor XT-Line de doble pistón para la producción de aire comprimido con presión máxima de 8bar para operar con herramientas neumáticas y similares. Bomba lubricada con aceite para extender su vida útil.

TECNOLOGÍA
Doble Pistón

CAPACIDAD
Depósito de 50 litroscon alta potencia de salida







Parámetros Técnicos:
- Compresor aceite, potencia: 2,2kW; caudal de presión: 50litros
- Máx. presión: 8bar; 2 manómetros, 2850 rpm
- Potencia: 230V/ 50-60Hz
- Potencia: 356l/min; fuerza salida: 250l/min
- Peso 39kg

Referencia	Descripción
XT2004	Doble Pistón 2,2kW

Compresor Portatil 1,5HP 1,1KW

Compartimento incorporado. Sin aceite y libre de mantenimientos.







Parámetros Técnicos:
- Compresor de aceite, potencia: 1.1kW
- Máx.. presión 8bar; 3550 rpm
- Potencia: 230V/ 50-60Hz
- Potencia orientable: 180 l/min;
- Peso 6.3kg

Referencia	Descripción
XT2011	Potencia: 1.1Kw

Aspiradora Industrial para suelo seco/húmedo

Diseñado para el uso industrial básico como residuos medios o pequeñas zonas con líquidos. Mango flexible para acceso a zonas difíciles.

Accesorios incluidos:
- Tubo telescópico
- Tubo metálico largo
- Boquilla para suelo
- Bolsa de papel
- Adaptador
- Filtro Hepa







Parámetros Técnicos:
- Potencia 1400W; Potencia 230V/50Hz, Protección IPX4
- Contenedor plástico 20l, Potencia succión 58l/s
- Cable conexión eléctrica 3m, Peso: 4kg

Referencia	Descripción
XT102819	Potencia: 1400W

Accesorios para Aspiradora Industrial



XT1028B03



XT1028B02



XT1028F01



XT1028B12



XT1028F04



XT1028B11



XT1028B09



XT1028F13



XT1028H01



XT1028P04



XT1028P07



Referencia	Descripción
XT1028B01	Boquilla para Suelo Madera/Parquet
XT1028B02	Boquilla de Suelo
XT1028B03	Ruedas 1pack/4pcs
XT1028B09	Tubo de ranura
XT1028B12	Enchufe adaptador
XT1028F01	Bolsa papel 1pack/5pcs
XT1028F04	Bolsa textil 1pack/1pc
XT1028F11	Filtro Hepa
XT1028F13	Filtro de espuma
XT1028H01	Manguera de plástico 3m
XT1028P04	Tubo metálico (Pack 2)
XT1028P07	Tubo telescópico metálico

Accesorios para Aspiradora Industrial

La aspiradora industrial está equipada con dos funciones de aspiración: seco y húmedo.
La aspiradora tiene una manguera de succión de 3 m y un tubo de acero de longitud ajustable.
Es adecuado para eliminar virutas, serrín y polvo de yeso.
Estable y manejable gracias a las ruedas delanteras y traseras.





Parámetros Técnicos:
- Potencia 1600W; Potencia 230V/50Hz,
- Contenedor plástico 30l
- Cable conexión eléctrica 4m
- Sistema de aspiración: Seco/Húmedo
- Potencia succión 78l/s
- Longitud de manguera: 3m
- Peso: 13.4kg

Referencia	Descripción
XT102810	Potencia: 1600W



XT10281A0



XT10281B1



XT10281B3



XT10281C2



XT10281E5



XT10281F6



XT10281L9

Accesorios de recambio

Referencia	Descripción
XT10281A0	Filtro Hepa
XT10281B1	Filtro de polvo
XT10281C2	Adaptador
XT10281B3	Cepillo brocha 32mm
XT10281D4	Tubo plástico
XT10281E5	Conector
XT10281F6	Tubo fino de aspiración
XT10281G7	Tubo telescópico metálico
XT10281H8	Bolsa textil
XT10281L9	Boquilla de Suelo



XT10281G7



XT10281D4



XT10281H8

Montacargas eléctrico

Polipasto eléctrico diseñado para elevación o descenso vertical de cargas fijas. Elevación de cargas mediante polea de hasta 250 kg, elevación recta de pesos de hasta 125 kg.



Parámetros Técnicos:
- Potencia: 540W
- Potencia 230V/50Hz
- Max capacidad 125/250kg
- Cable de acero de 3 mm
- Altura máxima 12/6 m
- Peso 10,7kg

Referencia	Descripción
XT108250	Potencia: 540W

Montacargas eléctrico

Polipasto eléctrico diseñado para elevación o descenso vertical de cargas fijas. Levantamiento de cargas mediante polea hasta 600 kg, levantamiento recto de pesos hasta 300 kg.



Parámetros Técnicos:
- Potencia: 1200W
- Potencia 230V/50Hz
- Max capacidad 300/600kg
- Cable de acero de 4.5 mm
- Altura máxima 12/6 m
- Peso 17,5kg

Referencia	Descripción
XT108600	Potencia: 1200W

Montacargas eléctrico



Referencia	Descripción
XT108100	Largo: 750mm



Pulverizador a batería 18V



El rociador inalámbrico es adecuado para tratar de difundir los líquidos en un espacio de trabajo amplio. Cómodo mediante a las dos correas para su enganche en la espalda.

Parámetros Técnicos:
- Voltaje: 18V
- Capacidad de agua: 1.3m/min
- Capacidad depósito:10l
- Flujo de agua: 1.3l/min
- Longitud manfuera: 800mm
- Presión maxima: 3bar
- Peso: 2.75kg (Sin batería ni deposito lleno)

Referencia	Descripción
XT102940	Caja de cartón - Sin batería



Hidrolimpiadora a presión

La limpiadora de alta presión está diseñada para limpiar superficies de diversos materiales (madera, piedra, plástico, hierro, etc.).
La principal ventaja de la limpieza es el lavado de medios de transporte (coche, moto, moto, maquinaria, suelos industriales, etc.)
Manejo muy fácil gracias a las ruedas. Todos los accesorios se pueden guardar en los compartimentos de limpieza



Parámetros Técnicos:
- Potencia: 1800W
- Potencia 230V/50Hz
- Fujo de agua: 6l/min
- Dimensiones: 410x320x575mm
- Presión de trabajo: 105bar - Presión maxima: 165bar
- Peso 10,6kg

Referencia	Descripción
XT121701	Potencia: 1800W

the best of HONITON HONIDRIVER

Un ejemplo de multifuncionalidad de las llaves con un producto patentado, HONIDRIVER. Honidriver supera al tipo estandar de las llaves. Cada borde de llave tiene una geometría especial para adaptarse a cada necesidad. Con HONIDRIVER puede utilizar las llaves incluso con cabezas de tornillo dañadas.
Aplicable a los tipos de Amarre:
Métrica, Sae, 3PT, 4PT, 6PT, Torx, Spline, Sistema Cuadrado

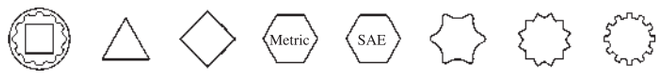








Puede usarse para seis tipos de aprietes diferentes



MEDIDA	METRIC	SAE	STAR	SIZE	METRIC	SAE	STAR
3.2	3.2	1/8"	E4	16	16	5/8"	E20
4	4	5/32"	E5	17	17	21/32"	
4.5	4.5			18	18	11/16"	E22
5	5	3/16"	E6	19	19	3/4"	E24
5.5	5.5	7/32"	E7	20	20	25/32"	
6	6		E8	21	21	13/16"	E26
1/4"		1/4"	E8	22	22	7/8"	E28
7	7	9/32"		23	23	29/32"	E28
8	8	5/16"	E10	24	24	15/16"	E30
9	9	11/32"	E11	25	25	31/32"	E32
10	10	3/8"	E12	26	26	1"	E32
11	11	7/16"	E14	27	27	1-1/16"	E34
12	12	15/32"		28	28	1-3/32"	E36
13	13	1/2"	E16	29	29	1-1/8"	E36
14	14	9/16"	E18	30	30	1-3/16"	E38
15	15	19/32"		32	32	1-1/4"	E40

SET 1/4” - 20 pcs



Pcs	Descripción
14x	1/4” Cabeza vaso: 3.2 4 4.5 5 5.5 6 7 8 9 10 11 12 13 14 mm
1x	1/4” Llave de carraca
2x	1/4” Extensión 50,150mm
1x	1/4” Destornillador cuadradillo
1x	1/4” Articulación
1x	1/4” Mango amarre en T

Referencia	Descripción
H1120	40CRV, Caja de plástico

SET 1/2” - 27 pcs



Pcs	Descripción
18x	1/2” Cabeza vaso : 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 27 30 32 mm
1x	1/2” Llave de carraca
2x	1/2” Extensión 125, 250 mm
2x	1/2” Adaptador 16, 21 mm
1x	1/2” Articulación
1x	1/2” Mango amarre en T

Referencia	Descripción
H4027	40CRV, Caja de plástico

SET 1/4”- 3/8”- 1/2” - 99 pcs

HONIDRIVER



Pcs	Descripción
13x	1/4” Cabeza vaso : 3.2 4 4.5 5 5.5 7 8 9 10 11 12 13 mm
11x	3/8” Cabeza vaso : 9 10 11 12 13 14 15 16 17 18 19 mm
14x	1/2” Cabeza vaso : 14 15 16 17 18 19 20 21 22 23 24 27 30 32mm
1x	1/4” Mango de destornillador
2x	1/4” Extensión 50 150 mm
2x	3/8” Extensión 75 150 mm
2x	1/2” Extensión 125 150 mm
2x	3/8”Adaptador 14 18 mm
2x	1/2”Adaptador 15 21 mm
3x	Adaptador 3/8”- 1/4” 3/8”- 1/2” 1/2”- 3/8”
3x	Articulación 1/4” 3/8” 1/2”
21x	1/4” Contactos punta:
	PH 1 2 3 PZ 1 2 3
	PL 4 5.5 7 HEX 3 4 5 6 7 8
	TRX 10 15 20 25 30 40
3x	Llave allen : 1.5 2 2.5
17x	5/16” Punta :
	PH 3 4 PZ 3 4 PL 8 10 12
	HEX 3 4 5 6 7 8 TRX 40 45 50 55

Referencia	Descripción
H4399	40CRV, Caja de plástico

SET 1/4”- 3/8”- 1/2” - 111 pcs

HONIDRIVER



Pcs	Descripción
13x	1/4” Cabeza vaso : 3.2 4 4.5 5 5.5 7 8 9 10 11 12 13 mm
11x	3/8” Cabeza vaso : 9 10 11 12 13 14 15 16 17 18 19 mm
14x	1/2” Cabeza vaso : 14 15 16 17 18 19 20 21 22 23 24 27 30 32 mm
3x	Llave de carraca 1/4” 3/8” 1/2”
1x	1/4” Mango de destornillador
2x	1/4” Extensión 50 150 mm
2x	3/8” Extensión 75 150 mm
2x	1/2” Extensión 125 150 mm
2x	3/8”Adaptador 14 18 mm
2x	1/2”Adaptador 15 21 mm
3x	Adaptador 3/8”- 1/4” 3/8”- 1/2” 1/2”- 3/8”
3x	Articulación 1/4” 3/8” 1/2”
21x	1/4” Contactos punta:
	PH 1 2 3 PZ 1 2 3
	PL 4 5.5 7 HEX 3 4 5 6 7 8
	TRX 10 15 20 25 30 40
3x	Llave allen : 1.5 2 2.5
17x	5/16” Punta :
	PH 3 4 PZ 3 4 PL 8 10 12
	HEX 3 4 5 6 7 8 TRX 40 45 50 55
12x	Llave combinada: 8 9 10 11 12 13 14 15 16 17 18 19mm

Referencia	Descripción
H4321	40CRV, Caja de plástico

SET 1/4” - 68 pcs

HONIDRIVER



Pcs	Descripción
13x	1/4” Cabeza vaso : 3.2 4 4.5 5 5.5 7 8 9 10 11 12 13 mm
14x	1/2” Cabeza vaso : 10 11 12 13 14 15 16 17 19 21 22 24 27 30 32 mm
3x	Llave de carraca 1/4” 1/2”
1x	1/4” Mango de destornillador
2x	1/4” Extensión 50 150 mm
2x	1/2” Extensión 125 150 mm
1x	1/2” T-M head
2x	1/2”Adaptador 15 21 mm
2x	Articulación 1/4” 1/2”
21x	1/4” Contactos punta :
	PH 1 2 3 PZ 1 2 3
	PL 4 5.5 7 HEX 3 4 5 6
	TRX 10 15 20 25 30 40
3x	Llave allen : 1.5 2 2.5
8x	llave combinada: 10 11 12 13 14 15 17 19 mm

Referencia	Descripción
H4368	40CRV, Caja de plástico

SET 1/4" - 11pcs en soporte de plástico



Referencia	Descripción
H2200	Vaso 1/4": 4 4.5 5 5.5 6 7 8 9 10 11 13mm

SET 3/8" - 10 pcs en soporte de plástico



Referencia	Descripción
H2300	Vaso 3/8": 9 10 11 12 13 14 15 16 17 19mm

SET 1/2" - 10 pcs en soporte de plástico



Referencia	Descripción
H2400	Vaso 1/2": 10 11 12 13 14 15 17 19 22 24mm

SET 1/4" - 43 pcs



Pcs	Descripción
12x	1/4" Cabeza vaso: 4 4.5 5 5.5 6 7 8 9 10 11 12 13 mm
1x	1/4" Llave de carraca
2x	1/4" Extensión 50 100 mm
1x	1/4" Mango con cuadradillo
1x	1/4" Adaptador 1/4"- 3/8", Amarre T
1x	1/4" Articulación universal
3x	Llave allen : 1.5 2 2.5 mm
1x	1/4" Extensión flexible 150 mm
21x	1/4" Vaso con Punta :
	HEX 3 4 5 6 7 8 PL 4 5.5 7
	PH 1 2 3 PZ 1 2 3

Referencia	Descripción
H1143	40CRV, Caja metálica

SET 1/2" - 25 pcs



Pcs	Descripción
18x	1/2" Cabeza vaso: 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 27 30 32 mm
1x	1/2" Llave de carraca
1x	1/2" Mango amarre en T
2x	1/2" Extensión 125 250 mm
2x	1/2" Adaptador 16 21 mm
1x	1/2" Articulación universal

Referencia	Descripción
H4054	40CRV, Caja metálica

SET 1/4" - 33 pcs



Pcs	Descripción
12x	1/4" Cabeza vaso: 4 4.5 5 5.5 6 7 8 9 10 11 12 13 mm
1x	1/4" Llave de carraca
2x	1/4" Extensión 50 100 mm
1x	1/4" Mango con cuadradillo
1x	1/4" Adaptador 1/4"- 3/8", Amarre T
1x	1/4" Articulación universal
1x	1/4" Mango con cuadradillo
3x	Llave allen : 1.5 2 2.5 mm
12x	1/4" Vaso con Punta :
	PH 1 2 | PL 3 4 5 6 7 | HEX 3 4 5 6 8

Referencia	Descripción
H1133	40CRV, Caja metálica



Pcs	Descripción
18x	3/8" Cabeza vaso : 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 24 mm
9x	3/8" Cabeza vaso larga: 8 10 11 12 13 14 15 17 19 mm
7x	3/8" Cabeza vaso E: E6 E8 E10 E11 E12 E14 E16
1x	3/8" Llave de carraca
1x	3/8" Articulación universal
12x	3/8" Vaso con Puntas : PH 2 3
	PH 2 3 | PZ 2 3 | PL 5,5 8 | HEX 4 5 6 7 8 | TRX T20 T25 T27 T30 T40 T45

Referencia	Descripción
H13058	40CRV, Caja metálica

SET 3/8" - 22 pcs



Pcs	Descripción
15x	3/8" Cabeza vaso: 6 7 8 9 10 11 12 13 14 15 16 17 18 19 22 mm
1x	3/8" Llave de carraca
2x	3/8" Extensión 75,150mm
1x	3/8" Mango amarre en T
1x	3/8" Articulación
2x	3/8" Adaptador Vaso 16,21mm

Referencia	Descripción
H1322	40CRV, Caja metálica

SET 1/2" - 28 pcs



Pcs	Descripción
20x	1/2" Cabeza vaso: 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 27 30 32 mm
1x	1/2" Llave de carraca
2x	1/2" Extensión 125 250 mm
2x	1/2" Adaptador 16 21 mm
1x	1/2" Mango amarre en T
1x	1/2" Articulación universal
1x	1/2" Llave de carter

Referencia	Descripción
H4028	40CRV, Caja metálica

SET 1/4" - 1/2" - 59 pcs



Pcs	Descripción
12x	1/4" Cabeza vaso: 4 4.5 5 5.5 6 7 8 9 10 11 12 13 mm
1x	1/4" Mango con cuadradillo
1x	1/4" Mango amarre en T
14x	1/2" Vaso : 10 11 12 13 14 15 17 19 21 22 24 27 30 32 mm
1x	1/4" Llave de carraca
1x	1/4" Extensión 100 mm
1x	1/4" Articulación universal
1x	1/2" Llave de carraca
2x	1/2" Extensión 125 250 mm
2x	1/2" Adaptador 16 21 mm
1x	1/2" Reductor 1/2"- 3/8", T-M Cabeza
1x	1/2" Articulación universal
3x	Llave allen : 1.5 2 2.5 mm
18x	1/4" Vaso con Punta :
	PH 1 2 3 PZ 1 2
	PL 4 5.5 7 HEX 4 5 6 8
	TRX 10 15 20 25 27 30

Referencia	Descripción
H4059	40CRV, Caja metálica

SET 1/2" - 17 pcs



Pcs	Descripción
11x	1/2" Cabeza vaso: 10 11 12 13 14 15 17 19 21 22 24 mm
1x	1/2" Llave de carraca
2x	1/2" Extensión 125 250 mm
1x	1/2" Reductor a 3/8"- 1/2", T-M Vaso
1x	1/2" Articulación universal
1x	1/2"Adaptador 21 mm

Referencia	Descripción
H4017	40CRV, Caja de plástico

SET 1/2" - 25 pcs



Pcs	Descripción
18x	1/2" Cabeza vaso: 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 27 30 32 mm
1x	1/2" Llave de carraca
1x	1/2" Adaptador 21 mm
1x	1/2" Mango amarre en T
1x	1/2" Articulación universal
1x	1/2" Mango giratorio

Referencia	Descripción
H4052	40CRV, Caja metálica

SET 1/2" - 13 pcs



Pcs	Descripción
11x	1/2" Cabeza vaso: 8 10 11 12 13 14 15 17 19 21 22 mm
1x	1/2" Llave de carraca
1x	1/2" Extensión 125 mm

Referencia	Descripción
H4030	40CRV, Caja metálica

SET 1/4" - 46 pcs



Pcs	Descripción
13x	1/4" Cabeza vaso: 4 4.5 5 5.5 6 7 8 9 10 11 12 13 14 mm
1x	1/4" Llave de carraca
1x	1/4" Mango con cuadradillo
1x	1/4" Articulación universal
1x	1/4" Mango amarre en T
2x	1/4" Extensión : 50 100 mm
1x	1/4" Extensión flexible 150 mm
4x	Llave allen: 1.25 1.5 2 2.5 mm
1x	Adaptador
21x	1/4" Vaso con Punta :
	PH 1 2 3 PL 5.5 6.5 8
	HEX 3 4 5 6 7 8 10 PZ 1 2 3
	TRX 10 15 20 25 27 30 40 45 50 55

Referencia	Descripción
H1160	40CRV, Caja de plástico

SET 1/2" - 25 pcs



Pcs	Descripción
18x	1/2" Vaso : 8 9 10 11 12 13 14 15 16 17 18 19 21 22 24 27 30 32 mm
1x	1/2" Llave de carraca
1x	1/2" T-Extensión
1x	1/2" Articulación universal
2x	1/2" Extensión 125 250 mm
2x	1/2" Adaptador 16 21 mm



Referencia	Descripción
H4025	40CRV, Caja de plástico

SET 1/4" - 3/8" - 1/2" - 99 pcs



Pcs	Descripción
13x	1/4" Vaso : 3.2 4 4.5 5 5.5 7 8 9 10 11 12 13 mm
11x	3/8" Vaso : 9 10 11 12 13 14 15 16 17 18 19 mm
14x	1/2" Vaso : 14 15 16 17 18 19 20 21 22 23 24 27 30 32mm
3x	Llave de carraca 1/4" 3/8" 1/2"
1x	1/4" Mango con cuadradillo
2x	1/4" Extensión 50 150 mm
2x	3/8" Extensión 75 150 mm
2x	1/2" Extensión 125 150 mm
2x	3/8"Adaptador 14 18 mm
2x	1/2"Adaptador 15 21 mm
3x	Adaptador 3/8"- 1/4" 3/8"- 1/2" 1/2"- 3/8"
3x	Articulación 1/4" 3/8" 1/2"
21x	1/4" Vaso con Punta:
	PH 1 2 3 PZ 1 2 3
	PL 4 5.5 7 HEX 3 4 5 6 7 8
	TRX 10 15 20 25 30 40
3x	Llave allen : 1.5 2 2.5
17x	5/16" Punta:
	PH 3 4 PZ 3 4 PL 8 10 12
	HEX 3 4 5 6 7 8 TRX 40 45 50 55

Referencia	Descripción
H4099	Tipo estandar (Vasos de 6) 40CRV, Caja de plástico

SET 1/4" - 1/2" - 56 pcs



Pcs	Descripción
13x	1/2" Vaso : 10 11 12 13 14 15 17 19 22 24 27 30 32 mm
1x	1/2" Llave de carraca
2x	1/2" Adaptador 16 21 mm
1x	1/2" Adaptador 3/8"- 1/2", -bar Vaso
1x	1/2" Articulación universal
11x	1/4" Vaso : 4 4.4 5 5.5 6 7 8 9 10 11 13 mm
17x	1/4" Vaso Punta:
	PZ 1 2 PL 4 5.5 7 | TRX 10 15 20 25 30 HEX 3 4 5 6
1x	1/4" Llave de carraca
1x	1/4" Mango con cuadradillo
1x	1/4" Mango amarre en T
1x	1/4" Articulación universal
1x	1/4" Extensión 100 mm
3x	Llave allen : 1.5 2 2.5 mm

Referencia	Descripción
H4060	40CRV, Caja de plástico

SET 1/4" - 3/8" - 1/2" 111 pcs



Pcs	Descripción
13x	1/4" Vaso : 3.2 4 4.5 5 5.5 7 8 9 10 11 12 13 mm
11x	3/8" Vaso : 9 10 11 12 13 14 15 16 17 18 19 mm
14x	1/2" Vaso : 14 15 16 17 18 19 20 21 22 23 24 27 30 32mm
3x	Llave de carraca 1/4" 3/8" 1/2"
1x	1/4" Mango con cuadradillo
2x	1/4" Extensión 50 150 mm
2x	3/8" Extensión 75 150 mm
2x	1/2" Extensión 125 150 mm
2x	3/8"Adaptador 14 18 mm
2x	1/2"Adaptador 15 21 mm
3x	Adaptador 3/8"- 1/4" 3/8"- 1/2" 1/2"- 3/8"
3x	Articulación 1/4" 3/8" 1/2"
21x	1/4" Vaso con Punta:
	PH 1 2 3 PZ 1 2 3 | PL 4 5.5 7 HEX 3 4 5 6 7 8 | TRX 10 15 20 25 30 40
3x	Llave allen : 1.5 2 2.5
17x	5/16" Punta:
	PH 3 4 PZ 3 4 PL 8 10 12 | HEX 3 4 5 6 7 8 TRX 40 45 50 55
12x	Llave combinada: 8 9 10 11 12 13 14 15 16 17 18 19mm

Referencia	Descripción
H4421	Tipo estandar (Vasos de 6) 40CRV, Caja de plástico

INFORMACIÓN TÉCNICA

Honiton, el conjunto de cabezales de enchufe más vendido, que no debería falta en cualquier taller.
Su composición completa con equipos de 1/4 ”y accesorios de 1/2 ”lo convierten en un equipo altamente completo para un uso indispensable. Todas las piezas están hechas de acero resistente 40CrV han sido certificadas por una ingeniería técnica.

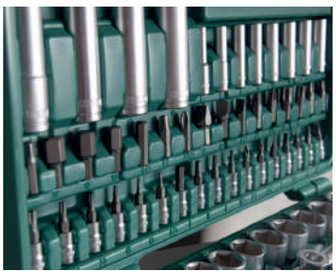
EQUIPAMIENTO
Diferentes tipos de vasos bien ordenados para un facil uso

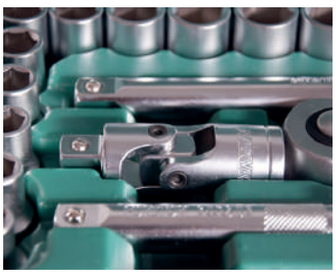
EQUIPAMIENTO
Adaptador rápido de puntas PH - PL - HEX y TRX

TECNOLOGÍA
La Llave de carraca con palanca para cambio de dirección y botón de cambio rápido de heramienta

MATERIAL
Los Vasos de medida 1/4” y 1/2” más usados fabricados acero cromo-vanadio.

EQUIPAMIENTO
Vasos de bujía de 16 y 21mm

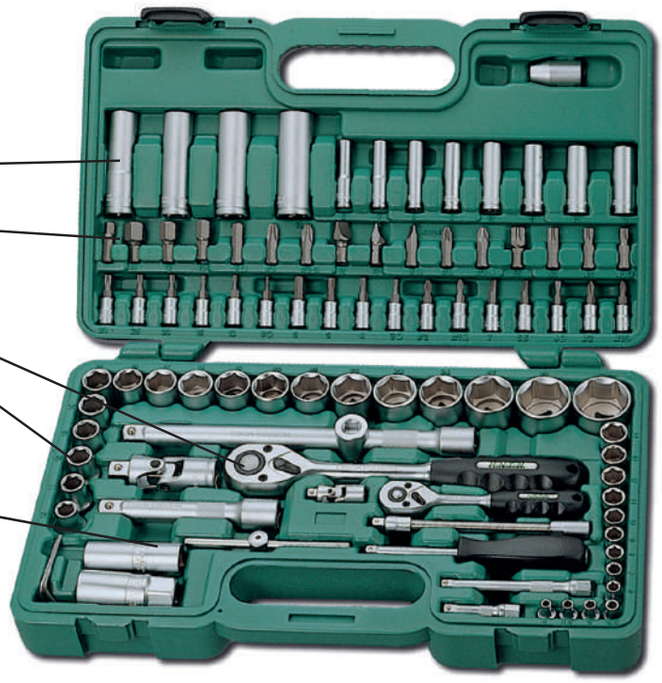





Pcs	Descripción
18x	1/2” Vaso : 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 27 30 32 mm
4x	1/2” Vaso 77.7 mm : 14 15 17 19 mm
13x	1/4” Vaso : 4 4.5 5 5.5 6 7 8 9 10 11 12 13 14 mm
8x	1/4” Vaso 50 mm : 6 7 8 9 10 11 12 13 mm
17x	1/4” Vaso Punta:
	PH 1 2 PZ 1 2 | PL 4 5.5 7 HEX 3 4 5 6 | TRX 8 10 15 20 25 30
15x	Punta 8x30mm:
	PH 3 4 PZ 3 4 PL 8 10 12 | HEX 8 10 12 14 TRX 40 45 50 55
1x	1/2” Mango amarre en T
1x	1/2” Articulación universal
2x	1/2” Extensión 125 250 mm
2x	1/2” Adaptador 16 21 mm
1x	1/2” Llave de carraca
1x	1/2” reductor 3/8”- 1/2”
1x	1/4” Mango amarre en T
1x	1/4” Mango con cuadradillo
1x	1/4” Llave de carraca
1x	1/4” Articulación universal
2x	1/4” Extensión 50 100 mm
1x	1/2”- 5/16” Adaptador
1x	1/4” Extensión flexible 150 mm
3x	Llave allen : 1.5 2 2.5 mm

Referencia	Descripción
H4056	40CRV, Caja de plástico

SET 1/4” - 1/2” - 94 pcs



SET 1/4” - 1/2” - 94 pcs





Pcs	Descripción
17x	1/2” Vaso : 10 11 12 13 14 15 16 17 18 19 20 21 22 24 27 30 32 mm
13x	1/4” Vaso 25.5mm : 4 4.5 5 5.5 6 7 8 9 10 11 12 13 14 mm
5x	1/2” Vaso 77.0mm : 14 15 17 19 22 mm
8x	1/4” Vaso 50.0mm : 6 7 8 9 10 11 12 13 mm
18x	1/4” Vaso Punta:
	PH 1 2 PZ 1 2 | PL 4 5.5 7 HEX 3 4 5 6 | TRX 8 10 15 20 25 27 30
16x	Punta 8x30mm:
	PH 3 4 PZ 3 4 PL 8 10 12 | HEX 7 8 10 12 14 | TRX 40 45 50 55
1x	1/4” Mango amarre en T
1x	1/2” Adaptador 3/8”- 1/2”, Mango amarre en T Vaso
1x	1/2” Articulación universal
1x	1/4” Articulación universal
2x	1/2” Adaptador 16 21 mm
1x	1/4” Mango con cuadradillo
2x	1/2” Extensión 125 250 mm
2x	1/4” Extensión 50 100 mm
3x	Llave allen : 1.5 2 2.5 mm
1x	1/2” Llave de carraca
1x	1/4” Llave de carraca
1x	1/2” - 5/16” Adaptador
1x	1/4 Extensión flexible 150mm

Referencia	Descripción
H4040	40CRV, Caja de plástico

SET 1/2" - 64 pcs



Pcs	Descripción
20x	1/2" Vaso: 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 27 30 32 mm
8x	1/2" Vaso largo: 10 11 12 13 14 15 17 19 mm
7x	1/2" Vaso: E10 E11 E12 E14 E15 E17 E19
4x	1/2" Vaso de Impacto: 17 19 21 24 mm
2x	1/2" Adaptador: 16 21 mm
2x	1/2" Extensión: 125 250 mm
1x	1/2" Articulación
1x	1/2" Mango amarre en T
1x	1/2" Punta Adaptador
15x	Puntas 8mm:
	PH 3,4; PZ 3,4; PL 8,10,12 | HEX 8,10,12,14; TRX 40,45,50,55

Referencia	Descripción
H4064	40CRV, Caja de plástico

SET 3/4" - 21 pcs



Pcs	Descripción
16x	3/4" Vaso: 19 21 22 23 24 26 27 29 30 32 35 36 38 41 46 50 mm
1x	3/4" Vaso
1x	3/4" Mango amarre en T
3x	3/4" Extensión 100 200 400 mm

Referencia	Descripción
H6021	40CRV, Caja de plástico

SET 3/4" - 14pcs



Pcs	Descripción
10x	3/4" Vaso : 22 24 27 30 32 36 38 41 46 50 mm
1x	3/4" Llave de carraca
1x	3/4" Mango amarre en T
2x	3/4" Extensión 100 200 mm

Referencia	Descripción
H6014	40CRV, Caja de plástico



INFORMACIÓN TÉCNICA

TECNOLOGÍA
Llave ajustable en longitud







SET 1/4” - 3/8” - 1/2” 155 pcs

El Set más completo con amarre 1/4”, 3/8” y 1/2”
Con todas las herramientas disponibles para el profesional





Pcs	Descripción
13x	1/4” Vaso: 4-4.5-5-5.5-6-7-8-9-10-11-12-13-14mm
7x	1/4” Vaso: 4-5-6-7-8-9-10mm
5x	1/4” E Vaso: E4-E5-E6-E7-E8
30x	1/4” Vaso Punta
	(+) 0-1-2-3 (*) 0-1-2-3 (T) T8-T9-T10-T15-T20-T25-T27-T30-T40
	(-) 3-4-4.5-5-5.5-6-6.5-7 (H) 3-4-5-6-7
10x	3/8” Vaso: 10-11-12-13-14-15-16-17-18-19mm
6x	3/8” Vaso: 10-11-12-13-14-15mm
5x	3/8” E Vaso: E10-E12-E14-E16-E18
10x	3/8” Vaso Punta: (T) T45-T47-T50-T55-T60 (H) 6-7-8-9-10
17x	1/2” Vaso: 10-11-12-13-14-15-16-17-18-19-20-21-22-24-27-30-32mm
5x	1/2” Vaso: 14-15-17-19-22mm
3x	1/2” E Vaso: E20-E22-E24
21x	Punta 10x30mm:
	(T) TH20-TH25-TH30-TH40-TH45-TH50-TH55
	(H) 4-5-6-7-8-10-12 (+) 2-3 (M) M5-M6-M8-M10-M12
15x	5/16” Punta:
	PH 3 4 PI 8 10 12 | HEX 3 4 5 6 7 8 | TRX 40 45 50 55
5x	Llave allen: 1.25-1.5-2.0-2.5-3.0mm
3x	Llave de carraca telescópica: 1/4” 3/8” 1/2”
3x	Articulación: 1/4” 3/8” 1/2”
1x	Punta destornillador 1/4”
6x	Extensión 1/4” (50,100mm) 3/8” (75,150mm) 1/2” (125,250mm)
2x	Adaptador: 3/8” 10mm hexagonal, 1/2” 10mm hexagonal
3x	Adaptador: 1/2” -16 21 mm; 3/8 - 16mm

Referencia	Descripción
H4455	40 CRV, Caja de plástico

SET 3/4” - 14 pcs





Pcs	Descripción
10x	3/4” Vaso : 22 24 27 30 32 36 38 41 46 50 mm
1x	3/4” Llave de carraca
1x	3/4” Mango amarre en T
2x	3/4” Extensión 100 200 mm

Referencia	Descripción
H6014M	40 CRV, Caja metálica

SET 3/4” - 21 pcs





Pcs	Descripción
16x	3/4” Vaso : 19 21 22 23 24 26 27 29 30 32 35 36 38 41 46 50 mm
1x	3/4” Llave de carraca
1x	3/4” Mango amarre en T
3x	3/4” Extensión 100 200 400 mm

Referencia	Descripción
H6021M	40 CRV, Caja metálica

SET 1" - 14 pcs



Pcs	Descripción
10x	1" Vaso: 36 41 46 50 55 60 65 70 75 80 mm
1x	1" Llave de carraca
1x	1" Mango amarre en T
2x	1" Extensión 200 400 mm

Referencia	Descripción
H8014	40CRV, Caja metálica

Set Herramientas 1/4" - 1/2" - 73 pcs



Pcs	Descripción
1x	Alicate 160mm
6x	Destornillador PL,PH
9x	Vaso 1/4" 5-13mm
10x	Vaso 1/2" 10-24mm
8x	Llave combinada 10-19mm
1x	Llave de carraca 1/2"
2x	Adaptador Vaso 16,21mm
1x	Extensión 1/2"
1x	Articulación 1/2"
1x	Punta Adaptador
22x	Puntas PH,PZ,PL, TRX,HEX
1x	Martillo 300g
1x	Llave para tubo fontanería 250mm

Referencia	Descripción
H4073	40CRV, Caja de plástico

SET 1/4" - 27 pcs



Pcs	Descripción
12x	1/4" Vaso : 4 4.5 5 5.5 6 7 8 9 10 11 12 13 mm
14x	1/4" Vaso Punta:
	PH 1 2 PL 4 5.5 7
	HEX 3 4 5 6 TRX 10 15 20 25 30
1x	1/4" Llave de carraca

Referencia	Descripción
H1127	40CRV, Soporte de plástico



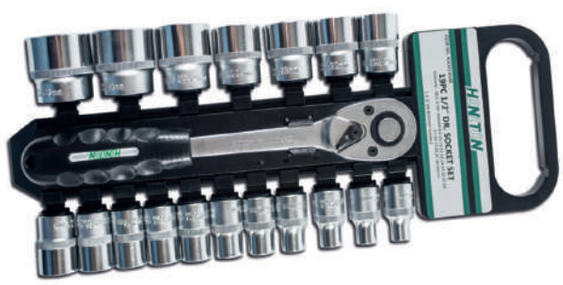
SET 1/4" - 3/8" - 112 pcs



Pcs	Descripción
1x	Alicate de contactos + Conexiones
1x	Alicate 160mm
5x	Destornillador PL,PH
9x	Vaso 1/4" 4-13mm
11x	Vaso 3/8" 10-22mm
6x	Llave combinada 8-15mm
1x	Llave inglesa 150mm
1x	Llave de carraca 3/8"
2x	Adaptador Vaso 16 21mm
1x	Extensión 3/8"
1x	Punta Adaptador
22x	Puntas PH,PZ,PL, TRX,HEX

Referencia	Descripción
H1320	40CRV, Caja de plástico

SET 1/2" - 19 pcsVV



Pcs	Descripción
18x	1/2" Vaso : 8 9 10 11 12 13 14 15 16 1719 21 22 23 24 27 30 32 mm
1x	1/2" Llave de carraca

Referencia	Descripción
H4019	40CRV, Soporte de plástico

SET 1/4" - 11 pcs



Pcs	Descripción
11x	1/4" Vaso : 4 4.5 5 5.5 6 7 8 9 10 11 13 mm

Referencia	Descripción
H1111	CRV, Soporte de plástico

SET 1/2" - 6 pcs



Pcs	Descripción
6x	1/2" Vaso : 10 12 13 14 17 19 mm

Referencia	Descripción
H4006	CRV, Soporte de plástico

SET TRX 3/8" - 8 pcs



Pcs	Descripción
8x	1/2" Vaso TRX-E : 8 10 11 12 14 16 mm

Referencia	Descripción
H3008	CRV, Soporte de plástico

Set Barras Extensión 1/2" - 3 pcs



Pcs	Descripción
3x	1/2" Extensión 75 150 200 mm

Referencia	Descripción
H4003	CRV, Soporte de plástico

Set Barras Extensión 1/4" 3/8" 1/2"- 9 pcs



Pcs	Descripción
3x	1/2" Extensión 50 125 250 mm
3x	3/8" Extensión 75 150 225 mm
3x	1/4" Extensión 50 100 225 mm

Referencia	Descripción
H4329	CRV, Soporte de plástico

SET 1/2" - 10 pcs



Pcs	Descripción
10x	1/2" Vaso : 10 11 12 13 14 15 17 19 22 24 mm

Referencia	Descripción
H4010	CRV, Soporte de plástico



SET TRX 1/2" - 9 pcs



Pcs	Descripción
9x	1/2" Vaso TRX-E : 10 11 12 14 16 18 20 22 24 mm

Referencia	Descripción
H4009	CRV, Soporte de plástico

Set Barras Extensión 1/4" - 3/8" - 1/2"- 9 pcs



Pcs	Descripción
3x	1/2" Extensión 50 125 250 mm
3x	3/8" Extensión 75 150 225 mm
3x	1/4" Extensión 50 100 225 mm

Referencia	Descripción
H4329	CRV, Soporte de plástico

SET HEX 1/2" - 9 pcs



Pcs	Descripción
9x	1/2" Vaso HEX : 4 5 6 7 8 10 12 14 17 mm

Referencia	Descripción
H4008	CRV, Caja metálica

SET TRX 1/4"- 3/8" - 1/2" - 11 pcs



Pcs	Descripción
3x	1/2" Vaso TRX-E : 14 18 20
5x	3/8" Vaso TRX-E : 7 8 10 11 12
3x	1/4" Vaso TRX-E : 4 5 6

Referencia	Descripción
H4311	CRV, Caja metálica

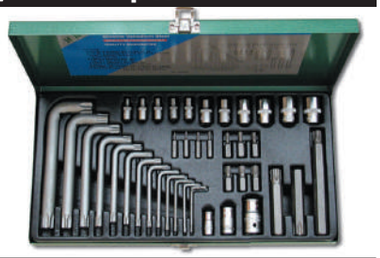
SET TRX1/2" - 9 pcs



Pcs	Descripción
9x	1/2" Vaso TRX : 20 25 27 30 40 45 50 55 60

Referencia	Descripción
H4007	CRV, Caja metálica

SET Extensión TORX 1/2" - 40 pcs



Pcs	Descripción
5x	1/4" Vaso TRX-E : 4 5 6 7 8
6x	3/8" Vaso TRX-E : 10 12 14 16 18 20
4x	1/4" Punta TRX 30mm : 9 10 15 20
6x	10mm Punta TRX 30mm : 25 27 30 40 45 50
1x	14mm Punta TRX 120mm : 55
2x	14mm Punta TRX 75mm : 60 70
3x	Adaptador : 1/2"- 14mm 3/8"- 10mm 1/4"- 6mm
13x	keys TRX : 9 10 15 20 25 27 30 40 45 50 55 60 70

Referencia	Descripción
H4340	CRV, Caja metálica

SET TRX 1/2" - 20 pcs



Pcs	Descripción
10x	1/2" Vaso TRX 55mm: 15 20 25 27 30 40 45 50 55 60
10x	1/2" Vaso TRX 140mm: 15 20 25 27 30 40 45 50 55 60

Referencia	Descripción
H4020	CRV, Caja metálica

SET TRX 1/4"- 3/8" - 1/2" - 12 pcs



Pcs	Descripción
3x	1/4" Vaso TRX : 8 10 15
4x	3/8" Vaso TRX : 20 25 27 30
5x	1/2" Vaso TRX : 40 45 50 55 60

Referencia	Descripción
H4312	CRV, Caja metálica

SET HEX 1/2" - 16 pcs



Pcs	Descripción
10x	1/2" Vaso hex 55mm : 5 6 7 8 9 10 12 14 17 19 mm
6x	1/2" Vaso hex 140mm : 5 6 7 8 10 12 mm

Referencia	Descripción
H0016	CRV, Caja metálica

SET 1/2" XZN M6-M18 - 7 pcs



Pcs	Descripción
7x	M6;M8;M10;M12;M14;M16;M18

Referencia	Descripción
H4005	CRV, Caja metálica

Set Extensión XZN - 12 pcs



Pcs	Descripción
5x	Punta 10mm XZN-M 30mm : 5 6 8 10 12
5x	Punta 10mm XZN-M 75mm : 5 6 8 10 12
1x	1/2" Punta Adaptador 10mm

Referencia	Descripción
H4011	CRV, Caja de plástico

Set Extensión TRX - 15 pcs



Pcs	Descripción
7x	Punta 10mm TRX 30mm : 20 25 30 40 45 50 55
7x	Punta 10mm TRX 75mm : 20 25 30 40 45 50 55
1x	1/2" Punta Adaptador 10mm

Referencia	Descripción
H4015	CRV, Caja de plástico

Impacto vaso 1/2"



Referencia	Descripción
H1815	15 mm
H1817	17 mm
H1818IM	18 mm
H1819	19 mm
H1821	21 mm
H1822	22 mm
H1824	24 mm



Set Extensión Hex 15 pcs



Pcs	Descripción
7x	Punta 10mm HEX 30mm : 4 5 6 7 8 10 12
7x	Punta 10mm HEX 75mm : 4 5 6 7 8 10 12
1x	1/2" Punta Adaptador 10mm

Referencia	Descripción
H4014	CRV, Caja de plástico

Set Puntas TRX y Hex 1/4 y 1/2 - 39 pcs



Pcs	Descripción
5x	1/4" HEX Vaso: 2.5 3 4 5 6 mm
4x	1/4" TRX-E Vaso: 4 5 6 8
8x	1/4" TRX Punta Vaso: 8 10 15 20 25 27 30 40
4x	1/2" TRX-E Vaso: 10 12 14 18
4x	1/2" TRX Punta Vaso: 45 50 55 60
5x	1/2" hex Punta Vaso: 7 8 10 12 14 mm
5x	1/2" hex Punta Larga: 6 7 8 10 12 mm
4x	Llave allen : 1.25 1.5 2 3 mm

Referencia	Descripción
H0204	CRV, Caja de plástico

Set V de vaso 1/2"



Referencia	Descripción
H1803	CrMoV, set 17 19 21 mm
H1804	CrMoV, set 17 19 21 22 mm

SET Vasos de Impacto 3/4" - 8 pcs



Pcs	Descripción
10x	3/4" Vaso : 19 22 24 27 30 32 36 41 mm

Referencia	Descripción
H6008L	CrMoV, Caja de plástico

Set Adaptador - 6 pcs



Pcs	Descripción
3x	Adaptador : 1/4"- 3/8", 3/8"- 1/2", 1/2"- 3/4"
3x	Adaptador : 3/8"- 1/4", 1/2"- 3/8", 3/4"- 1/2"

Referencia	Descripción
H5-6432AD	CRV, Caja de plástico

SET Vasos de Impacto 1/2" - 6 pcs



Pcs	Descripción
3x	1/2" Vaso : 30 32 36 mm
3x	1/2" hex Vaso: 14 17 19 mm

Referencia	Descripción
H6006L	CRV, Caja de plástico

SET Vasos de Impacto 1/2" - 9 pcs



Pcs	Descripción
9x	1/2" Vaso HEX: 5 6 7 8 10 12 14 17 19 x 78mm

Referencia	Descripción
H5-IBS40009H	CrMoV, Caja de plástico

SET Vasos de Impacto 1/2" - 10 pcs



Pcs	Descripción
10x	1/2" Vaso : 11 12 13 14 16 17 19 21 22 24 mm

Referencia	Descripción
H5-40010L	CrMoV, Caja de plástico

Set Adaptador - 6 pcs



Pcs	Descripción
3x	Adaptador : 1/4"- 3/8", 3/8"- 1/2", 1/2"- 3/4"
3x	Adaptador : 3/8"- 1/4", 1/2"- 3/8", 3/4"- 1/2"

Referencia	Descripción
H5-6432IAD	CrMoV, Caja de plástico

SET Vasos de Impacto 1/2" - 5 pcs



Pcs	Descripción
5x	1/2" Vaso XZN: M05 M06 M08 M10 M12 x 78mm

Referencia	Descripción
H5-IBS40005M	CrMoV, Caja de plástico

SET Vasos de Impacto 1/2" - 9 pcs



Pcs	Descripción
9x	1/2" Vaso : T25 T27 T30 T40 T45 T50 T55 T60 T70 x 78mm

Referencia	Descripción
H5-IBS40009T	CrMoV, Caja de plástico

Carro Portaherramientas + Herramientas - 231 pcs

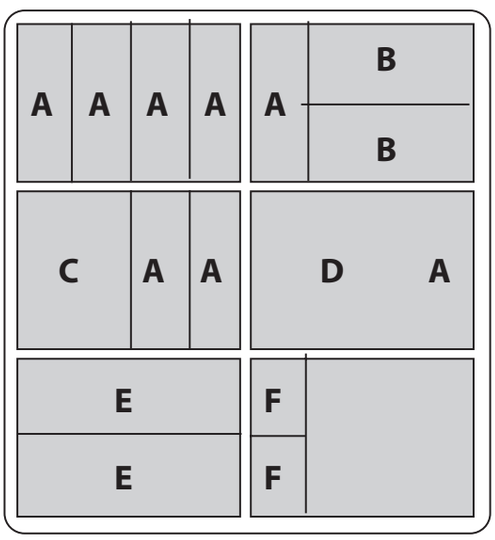
HONITON PROFESSIONAL TOOLS





INFORMACIÓN TÉCNICA
2 Cajones: 573x406x154mm
5 Cajones: 573x406x75mm
Total Medida: 680x458x860mm

Referencia	Descripción
HA250	Carro con herramientas Dimensiones: 680x458x860mm



Código	Pcs	Módulo	Tipo
HA001	1x	Set 1/2" 27 pcs	B (42x19x4cm)
HA003	1x	Set 1/4" 53 pcs	A (39x13x4cm)
HA021-1	1x	Set llaves media luna 5 pcs	B (42x19x4cm)
HA015	1x	Set combinación llaves 16 pcs	A (39x13x4cm)
HA020	1x	Set combinación llaves 4 pcs	A (39x13x4cm)
HA041	1x	Set Impacto 1/2" 20 pcs	A (39x13x4cm)
HA068	1x	Llaves anillo 8 pcs	A (39x13x4cm)
HA071	1x	Set llaves 6 pcs	A (39x13x4cm)
HA076	1x	Set alicates de seguridad 4pcs	A (39x13x4cm)
HA077	1x	Set Juego 3/8" y 1/2" 5 pcs	A (39x13x4cm)
HA078	1x	Set Llave allen en T 8 pcs	C (39x26x4cm)
HA079	1x	Set destornillador Torx 9 pcs	C (39x26x4cm)
HA085	1x	Set 10mm Trx Hexagonal 3/8"1/2" 40	A (39x13x4cm)
HA030-001	1x	Set alicates 3 pcs	A (39x13x4cm)
HA040-001	1x	Set alicates 4 pcs	A (39x13x4cm)
HA090-001	1x	Set de 9 pcs	A (39x13x4cm)
HA100-001	1x	Set de destornilladores 10 pcs	A (39x13x4cm)





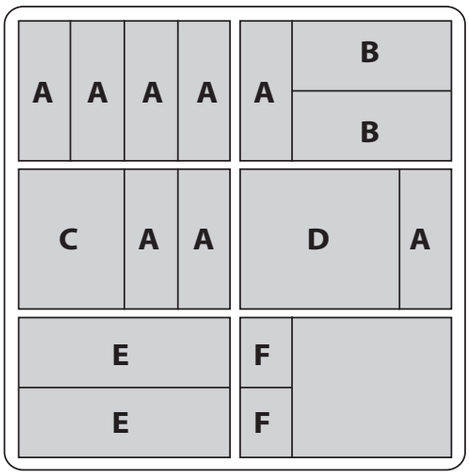
Carro Portaherramientas + Herramientas - 215 pcs



INFORMACIÓN TÉCNICA
Carro portaherramientas metálico con 7 cajones de dos alturas diferentes.
Carro con agarrador y cuatro ruedas, dos de ellas con freno y giratorias.
INFORMACIÓN TÉCNICA
2 Cajones: 573x406x154mm
5 Cajones: 573x406x75mm
Total Medida: 680x458x860mm



Referencia	Descripción	Peso
HA230	V40CR	68kg



Código	Pcs	Módulo	Tipo
HA001	1x	Set 1/2" 27 pcs	B (42x19x4cm)
HA003	1x	Set 1/4" 53 pcs	A (39x13x4cm)
HA021-1	1x	Set llaves media luna 5 pcs	B (42x19x4cm)
HA015	1x	Set combinación llaves 16 pcs	A (39x13x4cm)
HA020	1x	Set combinación llaves 4 pcs	A (39x13x4cm)
HA068	1x	Llaves anillo 8 pcs	A (39x13x4cm)
HA071	1x	Set llaves 6 pcs	A (39x13x4cm)
HA077	1x	Set Juego 3/8" y 1/2" 5 pcs	A (39x13x4cm)
HA080	1x	Set puntas Torx 1/2" 20 pcs	A (39x13x4cm)
HA081	1x	Set Puntas Hex 1/2" 16 pcs	A (39x13x4cm)
HA082	1x	Set Puntas Trx 1/2" 12 pcs	A (39x13x4cm)
HA030-001	1x	Set alicates 3 pcs	A (39x13x4cm)
HA040-001	1x	Set alicates 4 pcs	A (39x13x4cm)
HA090-001	1x	Set de 9 pcs	A (39x13x4cm)
HA078	1x	Set llaves Hexagonales en T 8pcs	C (39x26x4cm)
HA079	1x	Juego destornilladores Torx 9pcs	C (39x26x4cm)
HA100-001	1x	Juego de destornilladores 10pcs	A (39x13x4cm)





SET 1/2” - 27 pcs

B



Pcs	Descripción
20x	1/2” Vaso: 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 27 30 32 mm
1x	1/2” Llave de carraca
3x	1/2” Extensión 72 125 250 mm
1x	1/2” Articulación
1x	1/2” Mango giratorio 375 mm
1x	1/2” Mango amarre en T

Referencia	Descripción
HA001	40CRV, Base de plástico

Set Llave combinada - 11 pcs

E



Pcs	Descripción
11x	llaves: 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32 mm

Referencia	Descripción
HA011	40CRV, Base de plástico

Set Llave combinada - 16 pcs

A



Pcs	Descripción
16x	llave: 6 7 8 9 10 11 12 13 14 15 16 17 18 19 22 24 mm

Referencia	Descripción
HA015	40CRV, Base de plástico

Set Llaves combinadas en Curva - 5 pcs

B



Pcs	Descripción
5x	llave: 10x12 11x13 14x16 17x19 20x22 mmB

Referencia	Descripción
HA021-1	40CRV, Base de plástico

Set Llaves combinadas en Curva - 5 pcs

A



Pcs	Descripción
5x	llave: 10x12 11x13 14x16 17x19 20x22 mmB

Referencia	Descripción
HA051	40CRV, Base de plástico

SET 1/4” - 53 pcs

A



Pcs	Descripción
13x	1/4” Vaso: 4 4.5 5 5.5 6 7 8 9 10 11 12 13 14 mm Largo: 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14mm
1x	1/4” Llave de carraca
2x	1/4” Extensión 50 150 mm
1x	1/4” Articulación
1x	1/4” Mango giratorio
1x	1/4” Mango amarre en T
20x	1/4” Punta 25mm: PL 4 5.5 7 PH 1 2 3 HEX 3 4 5 6 PZ 1 2 3
1x	Punta Adaptador: TRX T8 T10 T15 T25 T27 T30 T40

Referencia	Descripción
HA003	40CRV, Base de plástico

SET 3/8” - 53 pcs

B



Pcs	Descripción
19x	3/8” Vaso: 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 mm
8x	3/8” E-Vaso: E7 E8 E10 E11 E12 E14 E18 E20
1x	3/8” Llave de carraca
2x	3/8” Extensión 75 100 mm
1x	3/8” Articulación
1x	3/8” Mango giratorio
1x	3/8” Mango amarre en T
21x	3/8” Punta 25mm: PL 4 5.5 7 PH 1 2 3 HEX 4 5 6 8 PZ 1 2 TRX 10 15 20 25 27 30 40 45 50 TRX T10 T15 T20 T25 T27 T30 T40 T40 T50

Referencia	Descripción
HA004	40CRV, Base de plástico

Set llave combinada - 4 pcs

A



Pcs	Descripción
4x	llave: 27 28 30 32 mm

Referencia	Descripción
HA020	40CRV, Base de plástico

Set llave combinada de carraca - 12 pcs

A



Pcs	Descripción
12x	llave: 8 9 10 11 12 13 14 15 16 17 18 19 mm

Referencia	Descripción
HA025-21	40CRV, Base de plástico

Set Alicates - 3 pcs

A



Pcs	Descripción
3x	1x alicates autoajustables 250 mm; 1x alicates 250 mm 1x llave ajustable 250 mm

Referencia	Descripción
HA030-001	40CRV, Base de plástico

Set Alicates - 3 pcs

1/2"

A



Pcs	Descripción
17x	Cabezales 1/2": 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 27, 30, 32 mm;
1x	1 extensión industrial de 1/2 "de 125 mm
2x	Juntas tóricas y pasador L20, L25

Referencia	Descripción
HA041	40CRV, Base de plástico

Set llaves abiertas dobles - 11pcs

A



Pcs	Descripción
11x	Llaves Abiertas: 6x7, 8x9,10x11,12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 30x32 mm

Referencia	Descripción
HA066	40CRV, Base de plástico

Set llaves acodadas - 6pcs

A



Pcs	Descripción
6x	Llaves acodadas: 21x23, 24x27, 25x28, 30x32 mm

Referencia	Descripción
HA069	40CRV, Base de plástico

Set llaves acodadas - 6pcs

A



Pcs	Descripción
4x	1x exterior recto; 1x interior recto; 1x exterior curvado; 1x interior curvado

Referencia	Descripción
HA076	40CRV, Base de plástico

Set Alicates - 4 pcs

A



Pcs	Descripción
4x	1x alicates combinados 180 mm; 1x alicates de corte lateral 180 mm; 1x alicates extendidos 180 mm; 1x alicates curvos 180 mm

Referencia	Descripción
HA040-001	40CRV, Base de plástico

Set Alicates - 4 pcs

A



Pcs	Descripción
6x	Llaves dobles articuladas: 8x9, 10x11, 12x13, 14x15, 16x17, 18x19

Referencia	Descripción
HA060	40CRV, Base de plástico

Set Llaves estrella dobles - 8 pcs

A



Pcs	Descripción
8x	Llaves estrella: 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22 mm

Referencia	Descripción
HA068	40CRV, Base de plástico

Set Llaves para tuercas ciegas - 6 pcs

A



Pcs	Descripción
6x	Llaves estrella: 8x9, 10x11, 12x13, 14x17, 19x22, 24x27 mm

Referencia	Descripción
HA071	40CRV, Base de plástico

Set Adaptador 3/8 y 1/2" - 5pcs

A



Pcs	Descripción
5x	2x Adaptador de 1/2 ": 16, 21 mm 2x Adaptador de 3/8 ": 14, 18 mm 1x adaptador 1/2 "-3/8"

Referencia	Descripción
HA071	40CRV, Base de plástico

Set Llave Hexagonal en T - 8 pcs

C



Pcs	Descripción
8x	Hex: 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm

Referencia	Descripción
HA078	40CRV, Base de plástico

Set Puntas TORX 1/2" - 20 pcs

A



Pcs	Descripción
10x	55mm: T15 T20 T25 T27 T30 T40 T45 T50 T55 T60
10x	140mm: T15 T20 T25 T27 T30 T40 T45 T50 T55 T60

Referencia	Descripción
HA080	40CRV, Base de plástico

Set Puntas XZN 1/2" - 12 pcs

A



Pcs	Descripción
6x	55mm: M6 M8 M10 M12 M14 M16
6x	100mm: M6 M8 M10 M12 M14 M16

Referencia	Descripción
HA082	40CRV, Base de plástico

Set Puntas en T - 8 pcs

E



Pcs	Descripción
6x	Vaso Punta 390mm: 8 10 12 13 17 19 mm
2x	Amarre para T

Referencia	Descripción
HA083	40CRV, Base de plástico

Set de 9 Herramientas

A



Pcs	Descripción
2x	Martillo de peña 300g; Martillo Nylon ø32mm
3x	Cinceles planos: 15mm, 6mm en punta
4x	Puntero 3,4,5 mm; y en punta 6mm

Referencia	Descripción
HA090-001	40CRV, Base de plástico

Set Llave Torx en T - 9 pcs

C



Pcs	Descripción
9x	torx: T10 T15 T20 T25 T27 T30 T40 T45 T50

Referencia	Descripción
HA079	40CRV, Base de plástico

Set Puntas Hexagonales 1/2" - 16 pcs

A



Pcs	Descripción
10x	55mm: 5 6 7 8 9 10 12 14 17 19 mm
6x	140mm: 5 6 7 8 10 12mm

Referencia	Descripción
HA081	40CRV, Base de plástico

Set Puntas Hexagonales 3/8" y 1/2" - 40 pcs

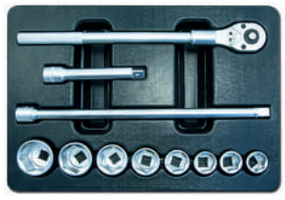
A



Pcs	Descripción
19x	10mm Punta,30mm L: (HX) 4;5;6;7;8;10;12 (TX) T20;T25;T30;T40;T50;T55 (M) M5;M6;M7;M10;M12
19x	10mm Punta,75mm L: (HX) 4;5;6;7;8;10;12 (TX) T20;T25;T30;T40;T50;T55 (M) M5;M6;M7;M10;M12
2x	Adaptador 1/2" 10mm; Adaptador 3/8" 10mm

Referencia	Descripción
HA085	40CRV, Base de plástico

SET de 3/4" - 11 pcs



Pcs	Descripción
8x	3/4" Vaso: 32 33 34 36 41 46 50 55 mm
1x	3/4" Llave de carraca
2x	3/4" Extensión 125 250 mm

Referencia	Descripción
HA002	40CRV, Base de plástico

Set de Destornilladores - 10 pcs

A



Pcs	Descripción
3x	Plano: PL5.5x125mm, PL6.5x150mm, PL8.0x175mm
2x	Cruz: PH1x80mm, PH2x100mm
3x	Plano: PL3.0x75mm, PL3.5x100mm, PL4.0x100mm
2x	Mini: PL5.5x25mm, PH2x25mmC

Referencia	Descripción
HA100-001	40CRV, Base de plástico

Caja Metálica + Herramientas - 68 pcs





Pcs	Descripción
1x	Set 3 Alicates
1x	Set Llaves combinadas 15 pcs
1x	Set destornilladores 11 pcs
1x	Set Puntas 1/2" 24 pcs
1x	Set Herramientas 15 pcs

Referencia	Descripción
HA106	40CRV, Base de plástico

Set de Herramientas - 15 pcs



Pcs	Descripción
3x	Tenaza grip 250mm; Tenaza de ajuste rápido 250mm; Llave inglesa 250mm
4x	Martillo 300g, Martillo Nylon ø32mm, 1 metro de 3 metros, cutter de 18mm
8x	Botador 3,4,5mm, 2x Punteros, Maracdor15mm, Puntero 5 ;6mm

Referencia	Descripción
HA150	40CRV, Base de plástico

Set de Alicates - 3 pcs



Pcs	Descripción
3x	Set de alicates corte, punta larga y estándar

Referencia	Descripción
HA030	40CRV, Base de plástico

SET 1/2" - 24 pcs



Pcs	Descripción
18x	1/2" Vaso: 10 11 12 13 14 15 16 17 18 19 21 22 23 24 27 28 30 32 mm
3x	1/2" Extensión: 75 125 250 mm
1x	1/2" Mango amarre en T
1x	1/2" Reductor
1x	Llave de carraca handle

Referencia	Descripción
HA140	40CRV, Base de plástico

Set Llaves Combinadas - 15 pcs



Pcs	Descripción
15x	Llave: 8 10 11 12 13 14 15 16 17 18 19 21 22 23 24 mm

Referencia	Descripción
HA101	40CRV, Base de plástico

Set Destornilladores - 11 pcs



Pcs	Descripción
4x	Plano: PL5.5x125mm, PL6.5x150mm, PL3.0x75mm, PL4.0x100mm
3x	Cruz: PH0x60mm PH1x80 PH2x100mm
4x	Mini: PL5.5x25mm, PL6.5x25mm, PH1x25mm, PL2x25mm

Referencia	Descripción
HA110	40CRV, Base de plástico

Caja de plástico Vacía Tipo A



Referencia	Descripción
HA600	Dimensiones: 39x13x4cm

SET Extensión TRX, XZN, HEX - 40 pcs



Pcs	Descripción
7x	30mm Punta HEX : 4 5 6 7 8 10 12
7x	30mm Punta TRX : T20 T25 T30 T40 T45 T50 T55
5x	30mm Punta HXZN : M5 M6 M7 M10 M12
7x	75mm Punta HEX : 4 5 6 7 8 10 12
7x	75mm Punta TRX : T20 T25 T30 T40 T45 T50 T55
5x	75mm Punta HXZN : M5 M6 M7 M10 M12
2x	Extensión 10mm: 1/2" 3/8"

Referencia	Descripción	Peso
H4350	CRV,Caja metálica	1,8kg

Carro Portaherramientas Vacío - HA102



Capacidad: 40kg
Total Capacidad: 250kg
Total Peso: 78kg

Extracción Cajón: 40cm

2 Cajones Altos
569x397x154mm

5 Cajones Bajos
569x397x75mm

Total Medida:
716x495x1009mm

Referencia	Descripción	Peso
HA102	716 x 495 x 1009mm	76kg

Carro Portaherramientas Vacío - HA104



Capacidad: 64kg
Total Capacidad: 450kg
Total Peso: 63kg

Extracción Cajón: 40cm

2 Cajones Altos
569x397x157mm

5 Cajones Bajos
569x397x75mm

Total Medida:
677x459x1000mm

Referencia	Descripción	Peso
HA104	677 x 459 x 1000mm	63kg

Caja Herramientas Vacía - HA202



Capacidad: 40kg
Total Capacidad: 160kg
Total Peso: 42kg

Extracción Cajón: 40cm

4 Cajones
569x397x75mm

Total Medida:
716x495x437mm

Referencia	Descripción	Peso
HA202	716 x 495 x 437mm	41,6kg

Caja Herramientas Vacía - HA105



5 Compartimentos

Total Medida:
465x215x235mm

Referencia	Descripción	Peso
HA105	465 x 215 x 235mm	6kg

Carro Portaherramientas Vacío - PA4007

Alta Calidad, resistente para el dia a dia en la industria



Capacidad: 20kg
Total Capacidad:140kg
Total Peso: 57kg

2 Cajones Altos
573x406x154mm

5 Cajones Bajos
573x406x75mm

Total Medida:
680x458x860mm

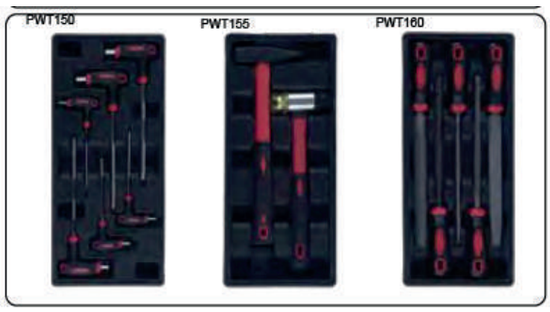
Referencia	Descripción	Peso
PA4007	680 x 458 x 860mm	59kg

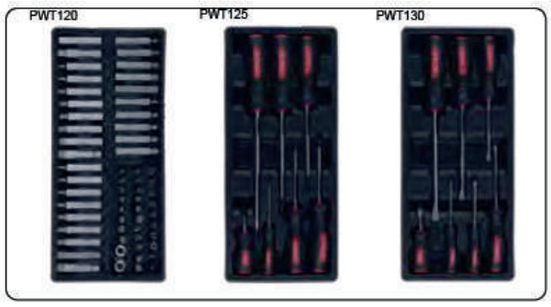
Carro Portaherramientas con 229 pcs



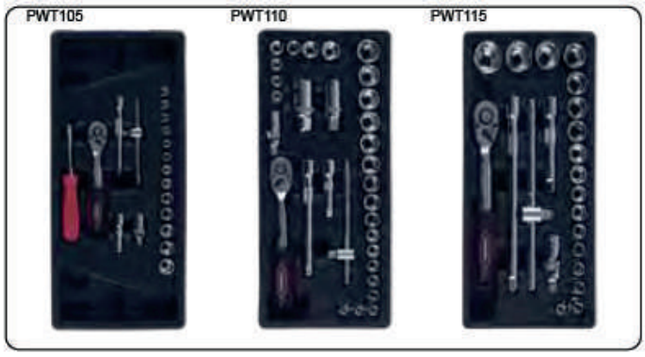


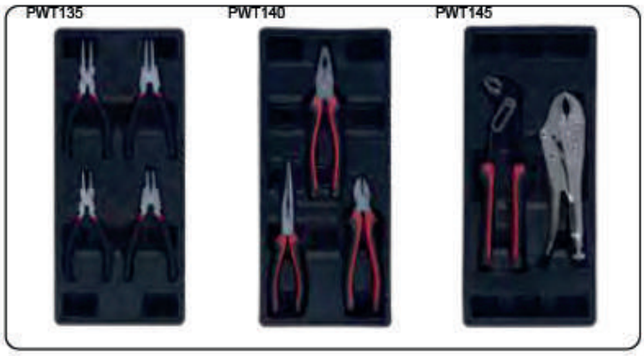


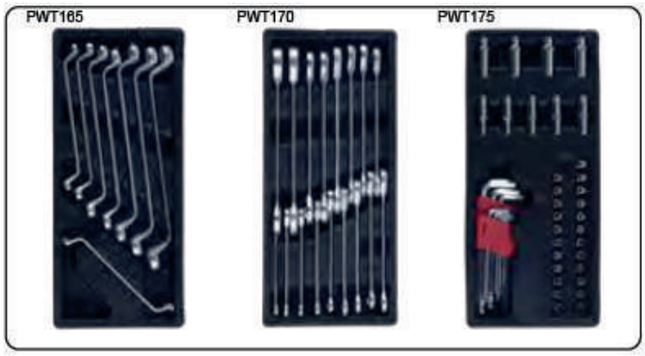




Referencia	Descripción
PWT200	690x465x970mm - Carro Vacío
PWT220	690x465x970mm - Carro + Herramientas







Código	Descripción
PWT105	Juego de cabezas de 1/4 ": trinquete, cardán, manilla giratoria 110 mm, extensión 50,110 mm, cabezas: 4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm
PWT110	Juego de cabezas 3/8 ": trinquete, cardán, manilla giratoria 160 mm, extensión 75,150 mm, llaves para bujías 16,21 mm, cabezas: 6,7,8,9,10,11,12,13,14,15 , 16,17,18,19,20,21,22 mm, cabeza torx: E10, E11, E12, E14, E16, E18, E20 "
PWT115	Juego de cabezales de 1/2 ": trinquete, cardán, manilla giratoria 250 mm, extensión 125,250 mm, cabezal: 8,9,10,1 1,12,13,15,17,19,20, 21,22,24,27, 30,32 milímetros
PWT120	Conjunto: 5,6,8,10,12; hex: 4,5,6,7,8,10; torx: T20, T25, T30, T40, T45, T50, T55, T60; seguridad Torx: T20, T25, T30, T40, T45, T50, T55, T60; Bits de 1/4 ": ranura 5,6,8,10,12; imbus: 4,5,6,7,8,10; torx: T20, T25, T30, T40, T45, T50, T55, T60; seguridad Torx: T20, T25, T30, T40, T45, T50, T55, T60
PWT125	Destornilladores: PH1X100 PH2X100 PH0X75 PH3X150 PH2X38 PH4X200
PWT130	Destornilladores planos: SL6x38 - SL8x200 - SL6x150 - SL5x100 - SL4x100 - SL3x75
PWT135	Alicates: recto interior, exterior; curvo interno y externo
PWT140	Alicates : división lateral de 180 mm, combinada de 200 mm, curvada de 200 mm
PWT145	Alicate , alicate de sujeción automática
PWT150	Llaves en T Llave Allen: 2x100; 2,5x100; 3x100; 4x150; 5x150; 6x150 mm
PWT155	Martillo cerrajero 300g y mazo de nailon
PWT160	Limas: superficies, redondeos, redondeos, triangulares, cuadrados
PWT165	Llaves de anillo: 6x7; 8x9; 10x11; 12x13; 14x15; 16x17; 18x19; 20x22 mm
PWT170	Llaves: 6-8-9-10-11-12-13-14-15-16-17-19-20-21 mm
PWT175	Cabeza extendida de 1/4 ": 5; 6; 7; 8; 9; 10; 11; 12; 13 mm; Juego de llaves Allen: 1,5; 2; 2,5; 3; 4; 5; 6; 8; 10 mm; Bits de 1/4 ": PH; PH2; PH3; PZ1; PZ2; PZ3, plano: 4; 5,5; 7 mm; Llave Allen: 3,4,5,6,7,8 mm; TORX T8, T10, T15, T20, T25, T27, T30, T40

Maletín Herramientas Mantenimiento - 188pcs







Referencia	Descripción
PWT188	188pcs, Maletín-Herramientas con Ruedas







INFORMACIÓN TÉCNICA

HONITON PROFESSIONAL TOOLS



Llave de carraca con 36 dientes. Mango antideslizante y ergonómico.
El acabado cromado es altamente resistente a la corrosión
Reemplazo rápido y fáicil con el sistema de la cabeza de carraca.

Llave de carraca 36 dientes 40CRV, DIN 3122



Referencia	Descripción
H9723	1/4" L 148mm
H9733	3/8" L 200mm
H9743	1/2" L 250mm

Llave de carraca 36 dientes 40CRV, DIN 3122



Referencia	Descripción
H8336	1/4" L 148mm
H8337	3/8" L 200mm
H8347	1/2" L 250mm

Llave de carraca 40 dientes 40CRV, DIN 3122



Referencia	Descripción
H8712	1/4" L 140mm
H8731	3/8" L 200mm
H8713	1/2" L 250mm

Llave de carraca 36 dientes 40CRV, DIN 3122



Referencia	Descripción
H8436	1/4" L 145mm
H8437	3/8" L 200mm
H8501	1/2" L 255mm

Llave de Carraca Telescópica 72 Dientes DIN 3122

1/4" 3/8" 1/2"



Referencia	Descripción
H8623	1/4" L 145-200mm
H8633	3/8" L 220-320mm
H8643	1/2" L 300-445mm

Llave de Carraca 1/2" - 72 Dientes 40CRV DIN 3122

1/2"



Referencia	Descripción
H8342	1/2" L 250mm

Llave de carraca 1/2" - 36 dientes 40CRV

1/2"



Referencia	Descripción
H8443	1/2" L 410mm

Llave de Carraca 72 Dientes DIN 3122

1/4" 3/8" 1/2"



Referencia	Descripción
H83252	1/4" L 145mm
H83352	3/8" L 200mm
H83452	1/2" L 250mm

Llave de Carraca 3/4" - 24 Dientes 40CRV DIN3122

3/4"



Referencia	Descripción
H8561	3/4" L 510mm

Llave de Carraca 2 en 1 DIN 3122

1/4" 1/2"



Referencia	Descripción
H8207	1/4" L 115mm
H8306	3/8" L 168mm
H8411	1/2" L 168mm

Llave de Carraca Desmontable - 1/2" DIN 3122

1/2"



Referencia	Descripción
H8843	1/2" L 272mm
H8838	Cuadradillo 1/2"

SET Extensión TRX, XZN, HEX - 40 pcs



Pcs	Descripción
7x	30mm Punta HEX : 4 5 6 7 8 10 12
7x	30mm Punta TRX : T20 T25 T30 T40 T45 T50 T55
5x	30mm Punta HXZN : M5 M6 M7 M10 M12
7x	75mm Punta HEX : 4 5 6 7 8 10 12
7x	75mm Punta TRX : T20 T25 T30 T40 T45 T50 T55
5x	75mm Punta HXZN : M5 M6 M7 M10 M12
2x	Extensión 10mm: 1/2" 3/8"

Referencia	Descripción
H4350	CRV, Caja metálica

Llave de Carraca 1" - 40 CRV DIN3122

1"



Referencia	Descripción
H8581	1" L 670mm

Llave Dinamométrica Profesional - DIN3120

1/4" 3/8" 1/2"









Referencia	Descripción
H402-25	1/4" 5-25Nm, calibrada
H402-50	3/8" 10-50Nm, calibrada
H402-100	1/2" 10-100Nm, calibrada
H402-210	1/2" 20-210Nm, calibrada



Llave Dinamométrica Profesional - DIN3120

1/4" 3/8" 1/2"





Referencia	Descripción
H404-025	1/4" 5-25Nm, calibrada
H404-110	3/8" 20-110Nm, calibrada
H404-210	1/2" 42-210Nm, calibrada
H404-350	1/2" 70-350Nm, calibrada
H404-450	3/4" 65-450Nm, calibrada
H404-750	3/4" 140-700Nm, calibrada
H404-980	3/4" 140-980Nm, calibrada

Adaptador Digital Dinamométrico 1/2" + Adaptador de 1/4" a 3/8"

1/4" 3/8" 1/2"

Adaptador digital Dinamométrico, con indicador de fuerza y LED.





- Lectura 0,1Nm;
- Precisión +/- 2%;
- Units: Nm, Kg-cm, ft-lb, in-lb
- 2 Modos: Direccion Derechas, operación de apriete, indicador digital del valor
- Indicador luminoso y LED, pantalla giratoria, auto-apagado sin uso al de 3 minutos de inactividad.

Referencia	Descripción
H403	20-200Nm + Adaptador 1/4", 3/8"

Juego Multiplicador de Par

Set de multiplicador profesional para aumentar el par de apriete, usado sobre todo para grandes cargas en vehículos como autobuses y camiones.

Cuadradillo Superior

Palanca para Giro



1" Vaso 32 y 33 mm



Extensión





Referencia	Descripción
XT10068	1" 4800Nm + Vaso 32,33mm

HONITON
PROFESSIONAL TOOLS

Mango Giratorio 40CRV - DIN 3122



Referencia	Descripción
H4600	1/2" L 600mm
H6750	3/4" L 750mm
H8100	1" L 1000mm

Mango Giratorio 40CRV - DIN 3122



Referencia	Descripción
H4375	1/2" L 325mm
H6510	3/4" L 510mm

Mango en L 40CRV - DIN3123



Referencia	Descripción
H4300	1/2" L 300mm
H6450	3/4" L 450mm

Maneta 40CRV - DIN3122



Referencia	Descripción
H401	1/2" L 400mm

Mango en T con Muelle 40CRV - DIN3129



Referencia	Descripción
H4252	1/2" L 250mm

Mango Amarre en T 40CRV - DIN3129



Referencia	Descripción
H2115	1/4" L 115mm
H3165	3/8" L 165mm
H4251	1/2" L 250mm
H6460	3/4" L 460mm
H8550	1" L 550mm

Adaptador 40CRV - DIN3122

Referencia	Descripción
H4604	1/2" Para H4600
H6756	3/4" Para H6750
H8108	1" Para H8100

Barra de Extensión 40CRV - DIN3123



Referencia	Descripción
H2250	1/4" L 50mm
H2075	1/4" L 75mm
H2100	1/4" L 100mm
H2150	1/4" L 150mm
H2125	1/4" L 225mm
H3075	3/8" L 75mm
H3125	3/8" L 125mm
H3150	3/8" L 150mm
H3250	3/8" L 225mm
H4050	1/2" L 50mm
H4075	1/2" L 75mm
H4125	1/2" L 125mm
H4200	1/2" L 200mm
H4250	1/2" L 250mm
H6100	3/4" L 100mm
H6200	3/4" L 200mm
H6400	3/4" L 400mm
H8200	1" L 200mm
H8400	1" L 400mm

Barra de Torsión 1/2” 40CRV - DIN3123

Se detiene al valor máximo permitido en la medida.



Referencia	Descripción
HTEX4065	90Nm L 200mm
HTEX4075	100Nm L 200mm
HTEX4080	110Nm L 200mm
HTEX4120	120Nm L 200mm
HTEX4135	135Nm L 200mm

Barra Extensión Giratorio 1/2” 40CRV - DIN3123





Referencia	Descripción
H0075	1/2" L 75mm
H0150	1/2" L 125mm
H0200	1/2" L 200mm

Barra Extensión Magnética 40CRV - DIN3123





Referencia	Descripción
H5250	1/2" L 250mm

Destornillador Cuadradillo 40CRV - DIN 3126



Referencia	Descripción
H150	1/4" L 150mm
H151	1/4" L 150mm



Barra Extensión Giratorio 1/4” 40CRV - DIN3123

Referencia	Descripción
H01075	1/2" L 75mm
H01150	1/2" L 125mm
H01225	1/2" L 200mm

Barra Extensión Giratorio 3/8” 40CRV - DIN3123

Referencia	Descripción
H03075	3/8" L 75mm
H03150	3/8" L 125mm
H03200	3/8" L 200mm
H03250	3/8" L 250mm

Extensión 40CRV - DIN3123



Referencia	Descripción
H4300	1/2" L 300mm
H6450	3/4" L 450mm

Extensión 40CRV - DIN3123



Referencia	Descripción
H2050	1/4" L 145mm
H4150	1/2" L 200mm

Adaptador 40CRV DIN3123



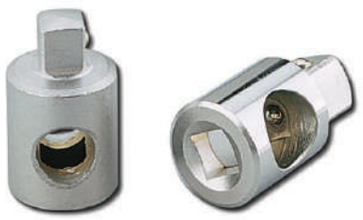
Referencia	Descripción
H230	1/4”- 3/8” L 26mm
H320	3/8”- 1/4” L 28mm
H340	1/2”- 3/8” L 36mm
H430	3/8”- 1/2” L 36mm
H460	1/2”- 3/4” L 48mm
H640	3/4”- 1/2” L 56mm
H680	3/4” - 1” L 56mm
H860	1” - 3/4” L 56mm

Vaso para Puntas 1/4”



Referencia	Descripción
H206	1/4“- 1/4“ L25mm
H306	3/8“- 1/4“ L27mm

Adaptador - DIN3129



Referencia	Descripción
H041	1/4” L 29mm
H042	3/8” L 40mm
H043	1/2” L 44mm
H088	1” L 85mm

Vaso Bujía 40CRV Honidriver - DIN3124



H4114

Referencia	Descripción
H4114	14mm 3/8” L 65mm
H411409	14mm 3/8” L 90mm
H411425	14mm 3/8” L 250mm
H411430	14mm 3/8” L 300mm
H4116	16mm 3/8” L 65mm
H4118	18mm 3/8” L 65mm
H4121	21mm 1/2” L 67mm

Vaso de Impacto CrMoV - DIN3129



Referencia	Descripción
H2460	1/2”- 3/4” L 48mm
H2640	3/4”- 1/2” L 58mm
H2680	3/4”- 1” L 63mm
H2860	1”- 3/4” L 75mm



Adaptador 40CRV - DIN3126



Referencia	Descripción
H406	1/4“ para 1/4“ Puntas L 25mm
H307	3/8” para Punta 1/4” L 25mm
H407	3/8” para 5/16” Puntas L 29mm
H408	1/2” para 5/16” Puntas L 38mm
H409	1/2” para 14mm Puntas L 38mm
H410	1/2” para 10mm Puntas L 38mm
H405	3/8” para Punta 10mm L 38mm

Articulación 40CRV - DIN3123



Referencia	Descripción
H040	1/4“ L 40mm
H050	3/8” L 55mm
H070	1/2” L 78mm
H061	3/4“ L 100mm

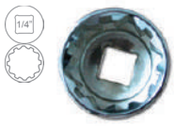
Vaso Bujía 40CRV - DIN3124



Referencia	Descripción
H4016	1/2” 16mm L 65mm
H4021	1/2” 21mm L 65mm

Vaso Bihexagonal 1/4" 40CRV - DIN3124

Referencia	Descripción
H2232	3,2mm L 25mm
H2240	4mm L 25mm
H2245	4,5mm L 25mm
H2250H	5mm L 25mm
H2255	5,5mm L 25mm
H2206	6mm L 25mm
H2207	7mm L 25mm
H2208	8mm L 25mm
H2209	9mm L 25mm
H2210	10mm L 25mm
H2211	11mm L 25mm
H2212	12mm L 25mm
H2213	13mm L 25mm
H2214	14mm L 25mm





Vaso Bihexagonal 1/2" 40CRV - DIN3124

Referencia	Descripción
H2408	8mm L 38mm
H2409	9mm L 38mm
H2410	10mm L 38mm
H2411	11mm L 38mm
H2412	12mm L 38mm
H2413	13mm L 38mm
H2414	14mm L 38mm
H2415	15mm L 38mm
H2416	16mm L 38mm
H2417	17mm L 38mm
H2418	18mm L 38mm
H2419	19mm L 38mm
H2420	20mm L 38mm
H2421	21mm L 38mm
H2422	22mm L 38mm
H2423	23mm L 38mm
H2424	24mm L 38mm
H2427	27mm L 38mm
H2428	28mm L 38mm
H2429	29mm L 38mm
H2430	30mm L 38mm
H2432	32mm L 38mm





Vaso Bihexagonal 3/8" 40CRV - DIN3124

Referencia	Descripción
H2308	8mm L 28mm
H2309	9mm L 28mm
H2310	10mm L 28mm
H2311	11mm L 28mm
H2312	12mm L 28mm
H2313	13mm L 28mm
H2314	14mm L 28mm
H2315	15mm L 28mm
H2316	16mm L 28mm
H2317	17mm L 28mm
H2318	18mm L 28mm
H2319	19mm L 28mm



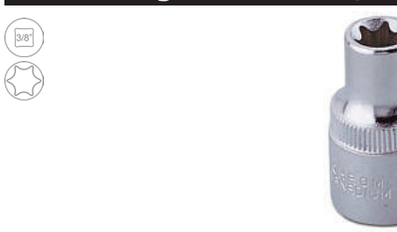


Vaso Hexagonal TRX-E 1/4" 40CRV - DIN3124



Referencia	Descripción
HS1204	E4
HS1205	E5
HS1206	E6
HS1207	E7
HS1208	E8
HS1210	E10
HS1211	E11
HS1204L	E4 - Largo
HS1205L	E5 - Largo
HS1206L	E6 - Largo
HS1207L	E7 - Largo
HS1208L	E8 - Largo
HS1210L	E10 - Largo

Vaso Hexagonal TRX-E 3/8" - DIN 3124



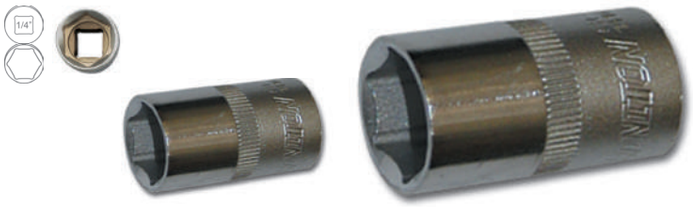
Referencia	Descripción
HS1306	E6
HS1307	E7
HS1308	E8
HS1310	E10
HS1311	E11
HS1312	E12
HS1314	E14
HS1316	E16
HS1318	E18

Vaso Hexagonal TRX-E 1/2" 40CRV - DIN3124



Referencia	Descripción
H1910	E10 L 38mm
H1911	E11 L 38mm
H1912	E12 L 38mm
H1914	E14 L 38mm
H1916	E16 L 38mm
H1918	E18 L 38mm
H1920	E20 L 38mm
H1922	E22 L 38mm
H1924	E24 L 38mm

Vaso Cabeza 1/4” 40CRV - DIN3124



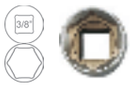
Referencia	Descripción
H1204	4mm L 25mm
H1245	4,5mm L 25mm
H1205	5mm L 25mm
H1255	5,5mm L 25mm
H1206	6mm L 25mm
H1207	7mm L 25mm
H1208	8mm L 25mm
H1209	9mm L 25mm
H1210	10mm L 25mm
H1211	11mm L 25mm
H1212	12mm L 25mm
H1213	13mm L 25mm
H1214	14mm L 25mm

Vaso Cabeza 1/2” 40CRV - DIN3124



Referencia	Descripción
H1408	8mm L 38mm
H1409	9mm L 38mm
H1410	10mm L 38mm
H1411	11m L 38mm
H1412	12mm L 38mm
H1413	13mm L 38mm
H1414	14mm L 38mm
H1415	15mm L 38mm
H1416	16mm L 38mm
H1417	17mm L 38mm
H1418	18mm L 38mm
H1419	19mm L 38mm
H1420	20mm L 38mm
H1421	21mm L 38mm
H1422	22mm L 38mm
H1423	23mm L 38mm
H1424	24mm L 40mm
H1425	25mm L 40mm
H1426	26mm L 40mm
H1427	27mm L 42mm
H1428	28mm L 42mm
H1429	29mm L 42mm
H1430	30mm L 45mm
H1432	32mm L 45mm
H1434	34mm L 45mm
H1436	36mm L 46mm

Vaso Cabeza 3/8” 40CRV - DIN3124



Referencia	Descripción
H1310MB	10mm
H1311MB	11mm
H1312MB	12mm
H1313MB	13mm
H1314MB	14mm
H1315MB	15mm
H1316MB	16mm
H1317MB	17mm
H1318MB	18mm
H1319MB	19mm
H1310MBL	10mm Largo
H1311MBL	11mm Largo
H1312MBL	12mm Largo
H1313MBL	13mm Largo
H1314MBL	14mm Largo
H1315MBL	15mm Largo
H1316MBL	16mm Largo
H1317MBL	17mm Largo
H1318MBL	18mm Largo
H1319MBL	19mm Largo



Vaso Cabeza Bihexagonal 1/2” 40CRV - DIN3124



Referencia	Descripción
H1708-P	8mm L 38mm
H1709-P	9mm L 38mm
H1710-P	10mm L 38mm
H1711	11m L 38mm
H1712-P	12mm L 38mm
H1713	13mm L 38mm
H1714-P	14mm L 38mm
H1715	15mm L 38mm
H1716	16mm L 38mm
H1717-P	17mm L 38mm
H1718	18mm L 38mm
H1719	19mm L 38mm
H1720	20mm L 38mm
H1721	21mm L 38mm
H1722	22mm L 38mm
H1723	23mm L 38mm
H1724	24mm L 40mm
H1725	25mm L 42mm
H1726	26mm L 42mm
H1727	27mm L 42mm
H1728	28mm L 42mm
H1729	29mm L 42mm
H1730	30mm L 45mm
H1732	32mm L 45mm
H1734	34mm L 45mm
H1736	36mm L 45mm



Vaso Hexagonal 3/4" 40CRV - DIN3124

Referencia	Descripción
H1617	17mm L 50mm
H1619	19mm L 50mm
H1621	21mm L 50mm
H1622	22mm L 50mm
H1623	23mm L 50mm
H1624	24mm L 51mm
H1626	26mm L 52mm
H1627	27mm L 52mm
H1629	29mm L 52mm
H1630	30mm L 54mm
H1632	32mm L 56mm
H1633	33mm L 56mm
H1634	34mm L 56mm
H1636	36mm L 58mm
H1638	38mm L 60mm
H1641	41mm L 64mm
H1646	46mm L 68mm
H1648	48mm L 68mm
H1651	50mm L 72mm
H1654	54mm L 74mm
H1655H	55mm L 74mm
H1656	56mm L 76mm
H1661	60mm L 78mm
H1665	65mm L 82mm



Vaso Hexagonal 1" 40CRV - DIN3124

Referencia	Descripción
H1836	36mm L 65mm
H1841	41mm L 70mm
H1846	46mm L 75mm
H1850	50mm L 75mm
H1855	55mm L 80mm
H1860	60mm L 84mm
H1865	65mm L 84mm
H1870	70mm L 93mm
H1875	75mm L 97mm
H1880	80mm L 103mm



Vaso Hexagonal 1/4" Largo 40CRV - DIN3124

Referencia	Descripción
H1304	4mm L 50mm
H1305	5mm L 50mm
H1306	6mm L 50mm
H1307	7mm L 50mm
H1308	8mm L 50mm
H1309	9mm L 50mm
H1310	10mm L 50mm
H1311	11mm L 50mm
H1312	12mm L 50mm
H1313	13mm L 50mm
H1314	14mm L 50mm



Vaso Bihexagonal 3/4" 40CRV - DIN3124

Referencia	Descripción
H1617MC	17mm L 50mm
H1619MC	19mm L 50mm
H1621MC	21mm L 50mm
H1622MC	22mm L 50mm
H1623MC	23mm L 50mm
H1624MC	24mm L 51mm
H1626MC	26mm L 52mm
H1627MC	27mm L 52mm
H1630MC	30mm L 54mm
H1632MC	32mm L 56mm
H1634MC	34mm L 56mm
H1636MC	36mm L 58mm
H1638MC	38mm L 60mm
H1641MC	41mm L 64mm
H1646MC	46mm L 68mm
H1651MC	50mm L 72mm
H1654MC	54mm L 74mm
H1655MC	55mm L 74mm
H1661MC	60mm L 74mm



Vaso Bihexagonal 1/2" Largo 40CRV - DIN3124

Referencia	Descripción
H1508	8mm L 77mm
H1509	9mm L 77mm
H1510	10mm L 77mm
H1511	11mm L 77mm
H1512	12mm L 77mm
H1513	13mm L 77mm
H1514	14mm L 77mm
H1515	15mm L 77mm
H1516	16mm L 77mm
H1517	17mm L 77mm
H1518	18mm L 77mm
H1519	19mm L 77mm
H1520	20mm L 77mm
H1521	21mm L 77mm
H1522	22mm L 77mm
H1523	23mm L 77mm
H1524	24mm L 77mm
H1527	27mm L 77mm
H1530	30mm L 77mm
H1532	32mm L 77mm



Llave de Impacto 1/2" CrMoV - DIN3129

Para tornillos de seguridad



Referencia	Descripción
H6317	1/2", D 19mm L 20mm
H6318	1/2", D 24mm L 25mm
H6321	3/4", D 36mm L 35mm
H6326	1", D 45mm L 45mm

Vaso Impacto 1/2" CrMoV - DIN3129

Referencia	Descripción
H0408	8mm L 38mm
H0409	9mm L 38mm
H0410	10mm L 38mm
H0411	11mm L 38mm
H0412	12mm L 38mm
H0413	13mm L 38mm
H0414	14mm L 38mm
H0415	15mm L 38mm
H0416	16mm L 38mm
H0417	17mm L 38mm
H0418	18mm L 38mm
H0419	19mm L 38mm
H0420	20mm L 38mm
H0421	21mm L 38mm
H0422	22mm L 38mm
H0423	23mm L 38mm
H0424	24mm L 38mm
H0427	27mm L 38mm
H0430	30mm L 38mm
H0432	32mm L 38mm





Vaso Impacto 1" CrMoV - DIN3129

Referencia	Descripción
H8022	22mm L 57mm
H8024	24mm L 57mm
H8026	26mm L 57mm
H8027	27mm L 57mm
H8030	30mm L 62mm
H8032	32mm L 62mm
H8033	33mm L 62mm
H8036	36mm L 62mm
H8041	41mm L 66mm
H8046	46mm L 70mm
H8050	50mm L 70mm
H8055	55mm L 82mm
H8060	60mm L 85mm
H8065	65mm L 85mm
H8070	70mm L 90mm
H8075	75mm L 90mm
H8080	80mm L 95mm





Articulación Vaso Impacto CrMoV - DIN3129



Referencia	Descripción
H071	1/2" L 64mm
H062	3/4" L 97mm

Vaso Impacto 1/4" CrMoV - DIN3129

Referencia	Descripción
H6017	17mm L 50mm
H6019	19mm L 50mm
H6020	21mm L 50mm
H6022	22mm L 50mm
H6023	23mm L 50mm
H6024	24mm L 50mm
H6025	25mm L 50mm
H6026	26mm L 50mm
H6027	27mm L 50mm
H6028	28mm L 50mm
H6029	29mm L 53mm
H6030	30mm L 53mm
H6032	32mm L 53mm
H6033	33mm L 55mm
H6034	34mm L 55mm
H6035	35mm L 55mm
H6036	36mm L 55mm
H6038	38mm L 57mm
H6041	41mm L 57mm
H6046	46mm L 62mm
H6050	50mm L 62mm





Anillas de Impacto de Seguridad y Pasadores de Seguridad

Referencia	Descripción
H0405	1/2", D 19mm L 20mm
H0406	1/2", D 24mm L 25mm
H6105	3/4", D 36mm L 35mm
H8105	1", D 45mm L 45mm



Vaso Impacto Largo 1/2" CrMoV - DIN3129





Referencia	Descripción
H0508	8mm L 78mm
H0509	9mm L 78mm
H0510	10mm L 78mm
H0511	11mm L 78mm
H0512	12mm L 78mm
H0513	13mm L 78mm
H0514	14mm L 78mm
H0515	15mm L 78mm
H0516	16mm L 78mm
H0517	17mm L 78mm
H0518	18mm L 78mm
H0519	19mm L 78mm
H0520	20mm L 78mm
H0521	21mm L 78mm
H0522	22mm L 78mm
H0523	23mm L 78mm
H0524	24mm L 78mm
H0527	27mm L 78mm
H0530	30mm L 78mm
H0532	32mm L 78mm

Vaso Impacto Largo 3/4" CrMoV - DIN3129

Referencia	Descripción
H6119	19mm L 90mm
H6121	21mm L 90mm
H6122	22mm L 90mm
H6124	24mm L 90mm
H6126	26mm L 90mm
H6127	27mm L 90mm
H6130	30mm L 90mm
H6132	32mm L 90mm
H6133	33mm L 90mm
H6134	34mm L 90mm
H6136	36mm L 90mm
H6138	38mm L 90mm
H6141	41mm L 90mm
H6146	46mm L 90mm
H6150	50mm L 90mm





Vaso Impacto Largo 1" CrMoV - DIN3129





Referencia	Descripción
H8122	22mm L 108mm
H8124	24mm L 108mm
H8127	27mm L 108mm
H8130	30mm L 108mm
H8132	32mm L 108mm
H8133	33mm L 108mm
H8134	34mm L 108mm
H8136	36mm L 108mm
H8138	38mm L 108mm
H8141	41mm L 108mm
H8146	46mm L 108mm
H8150	50mm L 108mm
H8155	55mm L 108mm
H8160	60mm L 108mm
H8165	65mm L 108mm
H8170	70mm L 108mm

Vaso Impacto HEX 1/2" CrMoV - DIN3129





Referencia	Descripción
H78HX05	5mm L 78mm
H78HX06	6mm L 78mm
H78HX07	7mm L 78mm
H78HX08	8mm L 78mm
H78HX10	10mm L 78mm
H78HX12	12mm L 78mm
H78HX14	14mm L 78mm
H78HX17	17mm L 78mm
H78HX19	19mm L 78mm

Vaso Impacto Extensión 3/4" CrMoV - DIN3129





Referencia	Descripción
H4075A	L 75mm
H4125A	L 125mm
H4250A	L 250mm

Vaso Impacto Extensión 3/4" CrMoV - DIN3129





Referencia	Descripción
H6100A	L 100mm
H6175A	L 175mm
H6250A	L 250mm
H6325A	L 325mm

Vaso Impacto Extensión 1" CrMoV - DIN3129





Referencia	Descripción
H8175	L 175mm
H8250	L 250mm
H8325	L 325mm

Vaso Impacto TRX 1/2" CrMoV - DIN3129





Referencia	Descripción
H78T25	T25 L 78mm
H78T27	T27 L 78mm
H78T30	T30 L 78mm
H78T40	T40 L 78mm
H78T45	T45 L 78mm
H78T50	T50 L 78mm
H78T55	T55 L 78mm
H78T60	T60 L 78mm
H78T70	T70 L 78mm

Vaso Impacto XZN 1/2” CrMoV - DIN3129

Referencia	Descripción
H78M05	M05 L 78mm
H78M06	M06 L 78mm
H78M08	M08 L 78mm
H78M10	M10 L 78mm
H78M12	M12 L 78mm
H78M14	M14 L 78mm
H78M16	M16 L 78mm

Vaso Punta HEX 1/4” 40CRV DIN3124



Referencia	Descripción
HEX2-3	3mm L 32mm
HEX2-4	4mm L 32mm
HEX2-5	5mm L 32mm
HEX2-6	6mm L 32mm
HEX2-7	7mm L 32mm
HEX2-8	8mm L 32mm

Vaso Punta PL 1/4” 40CRV - DIN3124



Referencia	Descripción
HPL2-3	PL3mm L 32mm
HPL2-4	PL4mm L 32mm
HPL2-45	PL4.5mm L 32mm
HPL2-55	PL5.5mm L 32mm
HPL2-6	PL6mm L 32mm
HPL2-65	PL6.5mm L 32mm
HPL2-7	PL7mm L 32mm

Vaso Punta PH 3/8” 40CRV - DIN3124



Referencia	Descripción
HPH3-1	PH1mm L 48mm
HPH3-2	PH2mm L 48mm
HPH3-3	PH3mm L 48mm

Vaso Punta PZ 3/8” 40 CRV - DIN 3127



Referencia	Descripción
HPZ3-1	PL4mm L 48mm
HPZ3-2	PL5,5mm L 48mm
HPZ3-3	PL7mm L 48mm

Vaso Punta TRX 1/4” 40CRV - DIN3124

ReferenciaV	Descripción
HTRX2-08	T8 L 32mm
HTRX2-09	T9 L 32mm
HTRX2-10	T10 L 32mm
HTRX2-15	T15 L 32mm
HTRX2-20	T20 L 32mm
HTRX2-25	T25 L 32mm
HTRX2-27	T27 L 32mm
HTRX2-30	T30 L 32mm
HTRX2-40	T40 L 32mm



Vaso Punta PH 1/4” PH 40CRV - DIN3124

Referencia	Descripción
HPH2-1	PH1 L 32mm
HPH2-2	PH2 L 32mm
HPH2-3	PH3 L 32mm



Vaso Punta PZ 1/4” 40CRV - DIN3124

Referencia	Descripción
H2-0	PZ0 L 32mm
H2-1	PZ1 L 32mm
H2-2	PZ2 L 32mm
H2-3	PZ3 L 32mm



Vaso Punta PL 3/8” 40CRV - DIN3124

Referencia	Descripción
HPL3-4	PL4mm L 48mm
HPL3-5	PL5.5mm L 48mm
HPL3-6	PL6mm L 48mm
HPL3-7	PL7mm L 48mm
HPL3-8	PL8mm L 48mm



Vaso Punta HEX 3/8” 40CRV - DIN3124



Referencia	Descripción
HEX3-03	3mm L 48mm
HEX3-04	4mm L 48mm
HEX3-05	5mm L 48mm
HEX3-06	6mm L 48mm
HEX3-07	7mm L 48mm
HEX3-08	8mm L 48mm
HEX3-09	9mm L 48mm
HEX3-10	10mm L 48mm

Vaso Punta TRX 3/8" 40CRV - DIN3124

Referencia	Descripción
HTRX3-10	T10 L 48mm
HTRX3-15	T15 L 48mm
HTRX3-20	T20 L 48mm
HTRX3-25	T25 L 48mm
HTRX3-27	T27 L 48mm
HTRX3-30	T30 L 48mm
HTRX3-40	T40 L 48mm
HTRX3-45	T45 L 48mm
HTRX3-50	T50 L 48mm
HTRX3-55	T55 L 48mm
HTRX3-60	T60 L 48mm



Vaso Punta TRX 1/2" 40CRV - DIN3124

Referencia	Descripción
H1610	T10 L 55mm
H1615	T15 L 55mm
H1620	T20 L 55mm
H1625	T25 L 55mm
H1628	T27 L 55mm
H1631	T30 L 55mm
H1635	T35 L 55mm
H1640	T40 L 55mm
H1645	T45 L 55mm
H1650	T50 L 55mm
H1655	T55 L 55mm
H1660	T60 L 55mm
H1670	T70 L 55mm



Vaso Punta TRX 1/2" 40CRV - DIN3124

Referencia	Descripción
H1620TH	TRX 20 L 55mm
H1625TH	TRX 25 L 55mm
H1628TH	TRX 27 L 55mm
H1631TH	TRX 30 L 55mm
H1635TH	TRX 35 L 55mm
H1640TH	TRX 40 L 55mm
H1645TH	TRX 45 L 55mm
H1650TH	TRX 50 L 55mm
H1655TH	TRX 55 L 55mm
H1660TH	TRX 60 L 55mm
H1670TH	TRX 70 L 55mm



Vaso Punta Larga XZN 1/2" 40CRV - DIN7472



Referencia	Descripción
HB4M06L	M6 L 100mm
HB4M08L	M8 L 100mm
HB4M10L	M10 L 100mm
HB4M12L	M12 L 100mm
HB4M14L	M14 L 100mm
HB4M16L	M16 L 100mm
HB4M18L	M18 L 100mm

Vaso Punta HEX 1/2" 40CRV - DIN3124

Referencia	Descripción
H1704	4mm L 55mm
H1705	5mm L 55mm
H1706	6mm L 55mm
H1707	7mm L 55mm
H1708	8mm L 55mm
H1709	9mm L 55mm
H1710	10mm L 55mm
H1712	12mm L 55mm
H1714	14mm L 55mm
H1717	17mm L 55mm



Vaso Punta XZN 1/2" 40CRV - DIN3124



Referencia	Descripción
H1806	M6 L 55mm
H1808	M8 L 55mm
H1810	M10 L 55mm
H1812	M12 L 55mm
H1814	M14 L 55mm
H1816	M16 L 55mm
H1818	M18 L 55mm

Vaso Punta Larga HEX 1/2" 40CRV - DIN7472



Referencia	Descripción
HB4HX05LL	HX5 L 140mm
HB4HX06LL	HX6 L 140mm
HB4HX07LL	HX7 L 140mm
HB4HX08LL	HX8 L 140mm
HB4HX10LL	HX10 L 140mm
HB4HX12LL	HX12 L 140mm

Vaso Punta Larga TRX 1/2" 40CRV - DIN2DIN7472



Referencia	Descripción
HB4T10LL	T10 L 140mm
HB4T15LL	T15 L 140mm
HB4T20LL	T20 L 140mm
HB4T25LL	T25 L 140mm
HB4T27LL	T27 L 140mm
HB4T30LL	T30 L 140mm
HB4T40LL	T40 L 140mm
HB4T45LL	T45 L 140mm
HB4T50LL	T50 L 140mm

Punta Plana 5/16" 30mm - DIN3126

Referencia	Descripción
HPL8-45	PL 4,5 L 30mm
HPL8-55	PL 5,5 L 30mm
HPL8-07	PL 7,0 L 30mm
HPL8-08	PL 8,0 L 30mm
HPL8-10	PL 10,0 L 30mm
HPL8-12	PL 12,0 L 30mm



Punta PZ 5/16" 30mm - DIN3126

Referencia	Descripción
HPZ8-3	PZ3 L 30mm
HPZ8-4	PZ4 L 30mm



Punta 10mm HEX - DIN3126

ReV	Descripción
HEX10-4	Hex 4 L 30mm
HEX11-4	Hex 4 L 75mm
HEX10-5	Hex 5 L 30mm
HEX11-5	Hex 5 L 75mm
HEX10-6	Hex 6 L 30mm
HEX11-6	Hex 6 L 75mm
HEX10-7	Hex 7 L 30mm
HEX17-7	Hex 7 L 75mm
HEX10-8	Hex 8 L 30mm
HEX11-8	Hex 8 L 75mm
HEX10-10	Hex 10 L 30mm
HEX11-10	Hex 10 L 75mm
HEX10-12	Hex 12 L 30mm
HEX11-12	Hex 12 L 75mm



Punta 10mm XZN - DIN3126



Referencia	Descripción
HXZN10-5	XZN M5 L 30mm
HXZN10-6	XZN M6 L 30mm
HXZN10-8	XZN M8 L 30mm
HXZN10-10	XZN M10 L 30mm
HXZN10-12	XZN M12 L 30mm
HXZN10-14	XZN M14 L 30mm
HXZN10-16	XZN M16 L 30mm
HXZN10-18 (19mm)	XZN M18 L 30mm
HXZN11-5	XZN M5 L 75mm
HXZN11-6	XZN M6 L 75mm
HXZN11-8	XZN M8 L 75mm
HXZN11-10	XZN M10 L 75mm
HXZN11-12	XZN M12 L 75mm
HXZN11-14	XZN M14 L 75mm
HXZN11-16	XZN M16 L 75mm
HXZN11-18 (19mm)	XZN M18 L 75mm

Punta 10mm TRX - DIN3126

Referencia	Descripción
HTRX10-10	TRX 10 L 30mm
HTRX10-15	TRX 15 L 30mm
HTRX10-20	TRX 20 L 30mm
HTRX10-27	TRX 27 L 30mm
HTRX10-30	TRX 30 L 30mm
HTRX10-40	TRX 40 L 30mm
HTRX10-45	TRX 45 L 30mm
HTRX10-50	TRX 50 L 30mm
HTRX10-55	TRX 55 L 30mm
HTRX11-10	TRX 10 L 75mm
HTRX11-15	TRX 15 L 75mm
HTRX11-20	TRX 20 L 75mm
HTRX11-27	TRX 27 L 75mm
HTRX11-30	TRX 30 L 75mm
HTRX11-40	TRX 40 L 75mm
HTRX11-45	TRX 45 L 75mm
HTRX11-50	TRX 50 L 75mm
HTRX11-55	TRX 55 L 75mm



Punta TRX 5/16" - DIN3126

Referencia	Descripción
H8-20	T20 L 30mm
H8-25	T25 L 30mm
H8-27	T27 L 30mm
H8-30	T30 L 30mm
H8-40	T40 L 30mm
H8-50	T50 L 30mm
H8-55	T55 L 30mm
H9-20	T20 L 75mm
H9-25	T25 L 75mm
H9-27	T27 L 75mm
H9-30	T30 L 75mm
H8-40	T40 L 75mm
H9-50	T50 L 75mm
H9-55	T55 L 75mm



Punta Cruz 5/16" 30mm - DIN3126

Referencia	Descripción
HPH8-2	PH2 L 30mm
HPH8-3	PH3 L 30mm
HPH8-4	PH4 L 30mm



Punta HEX 5/16" 30mm - DIN3126

Referencia	Descripción
HEX8-3	3mm L 30mm
HEX8-4	4mm L 30mm
HEX8-5	5mm L 30mm
HEX8-6	6mm L 30mm
HEX8-7	7mm L 30mm
HEX8-8	8mm L 30mm
HEX8-10	10mm L 30mm
HEX8-12	12mm L 30mm
HEX8-14	14mm L 30mm



the best of HONITON HONIDRIVER

La Llave HONIDRIVER es un ejemplo de multifuncionalidad de llave, patentada por HONITON. Honidriver supera a las llaves habituales, ya que cada borde tiene un papel clave para el correcto uso en las diferentes geometrías. Con las llaves Honidriver se puede usar incluso sobre los tornillos Aplicable a los tornillos/tuercas tipo: Métrica, Sae, 3PT, 4PT, 6PT, Torx, Ranura y Cuadradacon la cabeza dañada.



Tabla de Referencias

Medida	METRIC	SAE	STAR	Medida	METRIC	SAE	STAR
3.2	3.2	1/8"	E4	16	16	5/8"	E20
4	4	5/32"	E5	17	17	21/32"	
4.5	4.5			18	18	11/16"	E22
5	5	3/16"	E6	19	19	3/4"	E24
5.5	5.5	7/32"	E7	20	20	25/32"	
6	6		E8	21	21	13/16"	E26
1/4"		1/4"	E8	22	22	7/8"	E28
7	7	9/32"		23	23	29/32"	E28
8	8	5/16"	E10	24	24	15/16"	E30
9	9	11/32"	E11	25	25	31/32"	E32
10	10	3/8"	E12	26	26	1"	E32
11	11	7/16"	E14	27	27	1-1/16"	E34
12	12	15/32"		28	28	1-3/32"	E36
13	13	1/2"	E16	29	29	1-1/8"	E36
14	14	9/16"	E18	30	30	1-3/16"	E38
15	15	19/32"		32	32	1-1/4"	E40

Llave Combinada Ángulo 15° 31CrV3 - DIN 3113



Referencia	Descripción
P16406	6x6mm L100mm
P16407	7x7mm L105mm
P16408	8x8mm L120mm
P16409	9x9mm L 130mm
P16410	10x10mm L 130mm
P16411	11x11mm L 140mm
P16412	12x12mm L 150mm
P16413	13x13mm L 170mm
P16414	14x14mm L 180mm
P16415	15x15mm L 190mm
P16416	16x16mm L 200mm
P16417	17x17mm L 210mm
P16418	18x18mm L 220mm
P16419	19x19mm L 230mm
P16420	20x20mm L 240mm
P16421	21x21mm L 250mm
P16422	22x22mm L 260mm
P16423	23x23mm L 270mm
P16424	24x24mm L 280mm
P16426	26x26mm L 310mm
P16427	27x27mm L 310mm
P16428	28x28mm L 310mm
P16430	30x30mm L 320mm
P16432	32x32mm L 350mm
P16434	34x34mm L 380mm
P16436	36x36mm L 395mm
P16438	38x38mm L 395mm
P16441	41x41mm L 445mm
P16442	42x42mm L 445mm
P16446	46x46mm L 500mm
P16448	48x48mm L 540mm
P16450	50x50mm L 540mm



GK TOOLS
Quality that makes it turn way

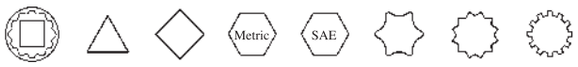


Llave combinada 15º - 40CRV - DIN 3113

Se puede usar con seis tipos diferentes de llaves y formas







Referencia	w
H2006	6mm E8 L 105mm
H2007	7mm 9/32"- E8 L 115mm
H2008	8mm 5/16"- E10 L 125mm
H2009	9mm 11/32"- E11 L 135mm
H2010	10mm 3/8"- E12 L 145mm
H2011	11mm 7/16"- E14 L 155mm
H2012	12mm 15/32"- E14 L 165mm
H2013	13mm 1/2"- E16 L 175mm
H2014	14mm 9/16"- E18 L 185mm
H2015	15mm 19/32"- E18 L 195mm
H2016	16mm 5/8"- E20 L 205mm
H2017	17mm 21/32"- E20 L 215mm
H2018	18mm 11/16"- E22 L 225mm
H2019	19mm 3/4"- E24 L 235mm
H2021	21mm 13/16"- E26 L 255mm
H2022	22mm 7/8"- E28 L 265mm
H2023	23mm 29/32" E28 L 275mm
H2024	24mm 15/16"- E30 L 285mm
H2025	25mm 31/32" E32 L 295mm
H2026	26mm 1" E32 L 305mm
H2027	27mm 1-1/16"- E34 L 315mm
H2028	28mm 1-3/32" E36 L 325mm
H2029	29mm 1-1/8" E36 L 335mm
H2030	30mm 1-3/16"- E38 L 345mm
H2032	32mm 1-1/14"-E40 L 365mm

Llave Combinada Ángulo 15° 40CRV - DIN 3113





Referencia	Descripción
HG21506	6x6mm L 105mm
HG21507	7x7mm L 115mm
HG21508	8x8mm L 125mm
HG21509	9x9mm L 135mm
HG21510	10x10mm L 145mm
HG21511	11x11mm L 155mm
HG21512	12x12mm L 165mm
HG21513	13x13mm L 175mm
HG21514	14x14mm L 185mm
HG21515	15x15mm L 195mm
HG21516	16x16mm L 205mm
HG21517	17x17mm L 215mm
HG21518	18x18mm L 225mm

Referencia	Descripción
HG21519	19x19mm L 235mm
HG21520	20x20mm L 245mm
HG21521	21x21mm L 255mm
HG21522	22x22mm L 265mm
HG21523	23x23mm L 275mm
HG21524	24x24mm L 285mm
HG21525	25x25mm L 295mm
HG21526	26x26mm L 305mm
HG21527	27x27mm L 315mm
HG21528	28x28mm L 325mm
HG21529	29x29mm L 335mm
HG21530	30x30mm L 345mm
HG21532	32x32mm L 365mm

Llave Combinada Ángulo 15° 31CrV3 - DIN 3113



Referencia	Descripción
GK10307	7x7mm L120mm
GK10308	8x8mm L120mm
GK10309	9x9mm L 130mm
GK10310	10x10mm L 130mm
GK10311	11x11mm L 140mm
GK10312	12x12mm L 150mm
GK10313	13x13mm L 170mm
GK10314	14x14mm L 180mm
GK10315	15x15mm L 190mm
GK10316	16x16mm L 200mm
GK10317	17x17mm L 210mm
GK10318	18x18mm L 220mm
GK10319	19x19mm L 230mm
GK10320	20x20mm L 240mm
GK10321	21x21mm L 250mm
GK10322	22x22mm L 260mm
GK10324	24x24mm L 280mm
GK10327	27x27mm L 310mm
GK10330	30x30mm L 320mm
GK10332	32x32mm L 350mm

Llave Doble Abierta CrV3 - DIN 895



Referencia	Descripción
P10407	6x7mm L 95mm
P10408	8x9mm L 105mm
P10410	8x10mm L 115mm
P10411	10x11mm L 120mm
P10412	10x13mm L 120mm
P10413	12x13mm L 140mm
P10414	14x17mm L 150mm
P10415	13x15mm L 150mm
P10416	14x15mm L 150mm
P1041617	16x17mm L 150mm
P10417	13x17mm L 160mm
P10418	16x18mm L 160mm
P10419	17x19mm L 170mm
P10420	18x19mm L 170mm
P10421	21x23mm L 215mm
P10422	19x22mm L 190mm
P10423	20x22mm L 190mm
P10424	22x24mm L 215mm
P10427	24x27mm L 264mm
P10432	30x32mm L 270mm
P10441	36x41mm L 345mm
P10450	46x50mm L 420mm

Llave de estrella impacto - DIN7444



Referencia	Descripción
PC7301	17mm L 160mm
PC7302	19mm L 160mm
PC7369	19mm L 160mm
PC7370	22mm L 160mm
PC7371	24mm L 160mm
PC7372	26mm L 180mm
PC7373	27mm L 180mm
PC7374	30mm L 190mm
PC7375	32mm L 190mm
PC7376	34mm L 195mm
PC7377	36mm L 195mm
PC7378	38mm L 200mm
PC7379	41mm L 200mm
PC7380	46mm L 235mm
PC7381	50mm L 245mm
PC7382	55mm L 265mm
PC7383	60mm L 265mm
PC7384	65mm L 317mm
PC7385	70mm L 317mm
PC7386	75mm L 317mm
PC7387	80mm L 340 mm
PC7388	85mm L 340 mm
PC7389	90mm L 340 mm
PC7390	95mm L 340 mm
PC7391	100mm L 340 mm
PC7392	105mm L 340 mm

Llave Doble Abierta CrV3 - DIN 3110



Referencia	Descripción
HDEW0607E	6x7mm L 123mm
HDEW0809E	8x9mm L 140mm
HDEW1011E	10x11mm L 156mm
HDEW1213E	12x13mm L 156mm
HDEW1415E	14x15mm L 190mm
HDEW1617E	16x17mm L 204mm
HDEW1819E	18x19mm L 221mm
HDEW2022E	20x22mm L 237mm
HDEW2123E	21x23mm L 247mm
HDEW2427E	24x27mm L 263mm
HDEW3032E	30x32mm L 298mm

Llave Combinada con Carraca 40CRV - ISO 691



Referencia	Descripción
H3108	8mm 5/16"- E10 L 139mm
H3109	9mm 11/32"- E11 L 149mm
H3110	10mm 3/8"- E12 L 159mm
H3111	11mm 7/16"- E14 L 164mm
H3112	12mm 15/32"- E14 L 170mm
H3113	13mm 1/2"- E16 L 178mm
H3114	14mm 9/16"- E18 L 190mm
H3115	15mm 19/32"- E18 L 198mm
H3116	16mm 5/8"- E20 L 208mm
H3117	17mm 21/32"- E20 L 225mm
H3118	18mm 11/16" - E22 L 235mm
H3119	19mm 3/4" - E24 L 247mm
H3121	21mm 13/16" E26 L290mm
H3122	22mm 7/8" E28 L290mm
H3124	24mm 15/16" E30 L321mm
H3127	27mm 1 1/16" E34 L360mm
H3130	30mm 1 3/16" E38 L388mm
H3132	32mm 1 3/4" E40 L413mm

Llave Combinada de Carraca CRV 72 dientes691



Referencia	Descripción
KL344008	8x8mm L 140mm
KL344009	9x9mm L 155mm
KL344010	10x10mm L 160mm
KL344011	11x11mm L 170mm
KL344012	12x12mm L 180mm
KL344013	13x13mm L 190mm
KL344014	14x14mm L 198mm
KL344015	15x15mm L 210mm
KL344016	16x16mm L 220mm
KL344017	17x17mm L 230mm
KL344018	18x18mm L 240mm
KL344019	19x19mm L 250mm
KL344022	22x22mm L 280mm

Punta Adaptador 1/4" para Llave de Carraca 10mm



Referencia	Descripción
HWA-05S05	Adaptador 1/4"-10mm

Vaso Adaptador para Llave de Carraca



Referencia	Descripción
HWA-12005	1/4", para llave 10mm
HWA-13005	3/8", para llave 13mm
HWA-14005	1/2", para llave 19mm

Llave Combinada Mini de Carraca 40CRV - ISO 691



Referenciav	Descripción
H0008E	8mm, 5/16", E10, L 90mm
H0009E	9mm, 11/32", E11, L 92mm
H0010E	10mm, 3/8", E12, L 94mm
H0011E	11mm, 7/16", E14, L 101mm
H0012E	12mm, 15/32", L 105mm
H0013E	13mm, 1/2", E16, L 107mm
H0014E	14mm, 9/16", E 18, L 114mm
H0015E	15mm, 19/32", L 118mm
H0016E	16mm, 5/8", E20, L 121mm
H0017E	17mm, 21/32", L 124mm
H0018E	18mm, 11/16", E22, L 130mm
H0019E	19mm, 3/4", E24, L 138mm

Llave Combinada de Carraca Articulada CRV 72 dientes



Referencia	Descripción
KL345008	8x8mm L 140mm
KL345010	10x10mm L 160mm
KL345013	13x13mm L 190mm
KL345014	14x14mm L 198mm
KL345015	15x15mm L 210mm
KL345017	17x17mm L 230mm
KL345019	19x19mm L 250mm

Llaves Combinadas de Carraca Set 7 pcs 40 CRV



Pcs	Descripción
14x	10mm, 3/8", E12; 11mm, 7/16", E14; 12mm, 15/32", E14; 13mm, 1/2", E16; 14mm, 9/16", E18; 17mn, 21/32", E20; 19mm, 3/4", E24

Referencia	Descripción
H3071	7 pcs, Soporte de plástico

Set Llaves - 40 CRV DIN 3113



Pcs	Descripción
14x	Llaves: 6mm, E8; 7mm, 9/32"; 8mm, 5/16", E10; 9mm, 11/32", E11;10mm, 3/8", E12; 11mm, 7/16", E14; 12mm, 15/32", E14; 13mm, 1/2", E16; 14mm, 9/16", E18; 15mm, 19/32", E18; 16mm, 5/8", E20; 17mn, 21/32", E20; 18mm, 11/16", E22; 19mm, 3/4", E24

Referencia	Descripción
H0114	14 pcs, Caja de plástico

Set Llave de carraca CRV



Pcs	Descripción
7x	Llaves: 8 10 12 13 14 17 19 mm

Referencia	Descripción
KL344700	7 pcs, Soporte de plásticov

Set Llaves Carraca Combinada CRV



Pcs	Descripción
7x	Llaves: 8 10 12 13 14 17 19 mm

Referencia	Descripción
KL345700	7 pcs, Soporte de plástico

Set Llave de carraca Set 72 dientes



Pcs	Descripción
5x	Llaves: 8;10;13;17;19

Referencia	Descripción
KL344500	5 pcs, Soporte de plástico

Set Llave de carraca articulada Set 72 dientes



Pcs	Descripción
5x	Llaves: 8;10;13;17;19

Referencia	Descripción
KL345500	5 pcs, Soporte de plástico

Set Llave de carraca - Set 72 dientes



Pcs	Descripción
6x	Llaves : 8x9;10x11;12x13;14x15;16x18;17x19

Referencia	Descripción
KL346600	7 pcs, Soporte de plástico

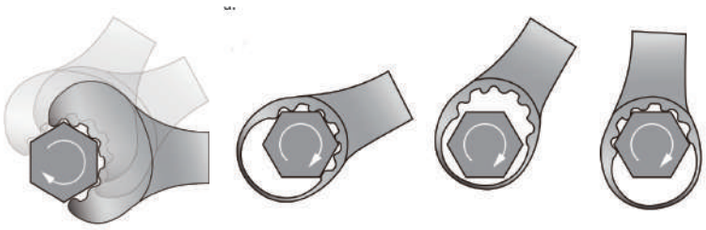


HONITON PROFESSIONAL TOOLS

Las Llaves Dive-On Ratchet son las llaves combinadas de nueva generación. Acero al cromo vanadio según normativa DIN de Alta Calidad.
En el extremo cerrado de la llave, su forma especial hace que apretar/aflojar sea mucho mas facil, no teniendo tanto movimiento, facilitando el uso y agilizándolo. Así mismo este tipo de llave se asemeja a las llaves de carraca.
El extremo abierto de la llave hace que sea necesario mucho menos espacio para amarrar la tuerca y apretar/aflojar la pieza.
Se gana en tiempo y facilidad a la hora de trabajar de forma continua.
La llave fija abierta especial ocupa menos espacio.



4 puntos de ajuste para un rendimiento máximo



El espacio libre para girar la llave sin sacarla de la tuerca
Hace que apretar/aflojar las piezas sea mas rápido y sencillo.
gracias al espacio libre y sus 4 puntos de ajuste máximo.

Llave Accionamiento 40CRV DIN3113



Referencia	Descripción
HDCW1508E	8mm L 123mm
HDCW1509E	9mm L 132mm
HDCW1510E	10mm L 143mm
HDCW1511E	11mm L 152mm
HDCW1512E	12mm L 162mm
HDCW1513E	13mm L 171mm
HDCW1514E	14mm L 181mm
HDCW1515E	15mm L 191mm
HDCW1516E	16mm L 200mm
HDCW1517E	17mm L 210mm
HDCW1518E	18mm L 219mm
HDCW1519E	19mm L 230mm

Set Llave Accionamiento 40CRV



Pcs	Descripción
12x	Llave combinada: 8 9 10 11 12 13 14 15 16 17 18 19 mm

Referencia	Descripción
HDCW1512SE	12 pcs, Soporte de plástico

Llave Estrella Acodada 40CRV - DIN 838



Referencia	Descripción
HDW750607E	6x7mm L 168mm
HDW750809E	8x9mm L 183mm
HDW751011E	10x11mm L 198mm
HDW751213E	12x13mm L 217mm
HDW751415E	14x15mm L 239mm
HDW751617E	16x17mm L 260mm
HDW751819E	18x19mm L 292mm
HDW752022E	20x22mm L 318mm
HDW752123E	21x23mm L 330mm
HDW752427E	24x27mm L 355mm
HDW753032E	30x32mm L 365mm

Llave Estrella Acodada 31CrV3 - DIN 838

GK TOOLS
Quality that makes its own way





Referencia	Descripción
P10906	6x7mm L 170mm
P10909	8x9mm L 180mm
P10911	10x11mm L 195mm
P10913	12x13mm L 210mm
P10915	14x15mm L 225mm
P10917	16x17mm L 245mm
P10919	18x19mm L 266mm
P10920	20x22mm L 285mm
P10923	21x23mm L 305mm
P10927	24x27mm L 325mm
P10928	25x28mm L 345mm
P10932	30x32mm L 370mm

Set Llaves Combinadas 7 pcs - 40CRV DIN3113



Pcs	Descripción
7x	Comb. llave: 10 11 12 13 14 17 19 mm

Referencia	Descripción
HG11507	7pcs, Soporte de plástico

Set Llaves Combinadas 7 pcs - 40CRV DIN3113



Pcs	Descripción
14x	Comb. Llaves : 10mm, 3/8”, E12; 11mm, 7/16”, E14; 12mm, 15/32”, E14; 13mm, 1/2”, E16; 14mm, 9/16”, E18; 17mn, 21/32”, E20; 19mm, 3/4”, E24

Referencia	Descripción
HCW11507	7pcs, Bolsa Textil

Set Llaves Combinadas 12 pcs - 40CRV DIN3113



Pcs	Descripción
7x	Comb. Llaves : 8 9 10 11 12 13 14 15 16 17 19 22 mm

Referencia	Descripción
HG11512	12pcs, Bolsa Textil

Set Llaves Combinadas 12 pcs - 40CRV DIN3113



Pcs	Descripción
14x	Comb. Llaves : 8mm,5/16”,E10; 9mm,11/32”,E11; 10mm,3/8”,E12; 11mm,7/16”,E14; 12mm,15/32”,E14; 13mm,1/2”,E16; 14mm,9/16”,E18; 15mm,19/32”,E18; 16mm,5/8”,E20; 17mn,21/32”,E20; 19mm,3/4”,E24; 22mm,7/8”,E28

Referencia	Descripción
HCW11512	12pcs, Bolsa Textil

Set Llaves Combinadas 17 pcs - 40CRV DIN3113



Pcs	Descripción
17x	Comb. Llaves : 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 mm

Referencia	Descripción
HG11517	17pcs, Bolsa Textil

Set Llaves Combinadas 17 pcs - 40CRV DIN3113



Pcs	Descripción
14x	Comb. Llaves : 6mm,E8; 7mm,9/32”; 8mm,5/16”,E10; 9mm,11/32”,E11; 10mm,3/8”,E12; 11mm,7/16”,E14; 12mm,15/32”,E14; 13mm,1/2”,E16; 14mm,9/16”,E18; 15mm,19/32”,E18; 16mm,5/8”,E20; 17mn,21/32”,E20; 18mm,11/16”,E22; 19mm,3/4”,E24; 20mm,25/32“; 21mm,13/16”,E26; 22mm,7/8”,E28

Referencia	Descripción
HCW11517	17pcs, Bolsa Textil

Llave de Doble Boca para Racores 40CRV DIN 3118



Referencia	Descripción
HFNW0809E	8x9mm L 132mm
HFNW1011E	10x11mm L 151mm
HFNW1213E	12x13mm L 166mm
HFNW1417E	14x17mm L 191mm
HFNW1922E	19x22mm L 235mm

Llave de Vaso Articulada Doble 40CRV - DIN3119



Referencia	Descripción
HF0607E	6x7mm L 185mm
HF0809E	8x9mm L 188mm
HF1011E	10x11mm L 203mm
HF1213E	12x13mm L 220mm
HF1415E	14x15mm L 242mm
HF1617E	16x17mm L 257mm
HF1819E	18x19mm L 270mm
HF2022E	20x22mm L 300mm
HF2123E	21x23mm L 307mm

Llave Combinada Hexagonal TRX 40CRV-DIN837



Referencia	Descripción
HW0607EL	E6xE7mm L 200mm
HW0810EL	E8xE10mm L 240mm
HW1112EL	E11xE12mm L 280mm
HW1416EL	E14xE16mm L 320mm
HW1820EL	E18xE20mm L 360mm
HW2224EL	E22xE24mm L 400mm

Llave Combinada 40CRV - DIN837



Referencia	Descripción
HFDW0809	8x9mm
HFDW1011	10x11mm
HFDW1213	12x13mm
HFDW1415	14x15mm
HFDW1617	16x17mm
HFDW1819	18x19mm
HFDW2022	20x22mm
HFDW2123	21x23mm
HFDW2427	24x27mm
HFDW2528	25x28mm
HFDW3032	30x32mm

Llave de Doble Boca para Racores 40CRV DIN 3118



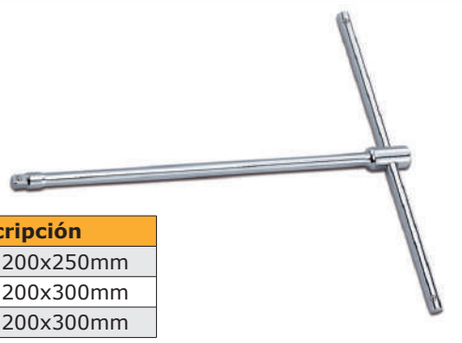
Referencia	Descripción
HMW1012E	10x12mm L 143mm
HMW1113E	11x13mm L 143mm
HMW1416E	14x16mm L 188mm
HMW1719E	17x19mm L 220mm
HMW2022E	20x22mm L 258mm

Llave de Vaso Articulada en T 40CRV - DIN3112



Referencia	Descripción
HS1006A	6mm L 390mm
HS1007A	7mm L 390mm
HS1008A	8mm L 390mm
HS1009A	9mm L 390mm
HS1010A	10mm L 390mm
HS1011A	11mm L 390mm
HS1012A	12mm L 500mm
HS1013A	13mm L 500mm
HS1014A	14mm L 500mm
HS1015A	15mm L 500mm
HS1016A	16mm L 500mm
HS1017A	17mm L 500mm
HS1018A	18mm L 500mm
HS1019A	19mm L 500mm

Mango en T Ejecución Larga 40CRV - DIN3112



Referencia	Descripción
HSTB201	1/4” 200x250mm
HSTB301	3/8” 200x300mm
HSTB401	1/2” 200x300mm

Mango en T imantado - DIN 3124



Referencia	Descripción
H016	3/8", 16mm
H021	3/8", 21mm
H022	3/8", 16 21 mm

Set Llaves Combinadas 22 pcs - 40CRV DIN3113



Pcs	Descripción
22x	Comb. Llaves: 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 24 26 27 30 32 mm

Referencia	Descripción
HG11522	22pcs, Bolsa Textil

Set Llaves Combinadas 22 pcs - 40CRV DIN3113



Pcs	Descripción
22x	Comb. Llaves : 6mm,E8; 7mm,9/32"; 8mm,5/16",E10; 9mm,11/32",E11; 10mm,3/8",E12; 11mm,7/16",E14; 12mm,15/32",E14; 13mm,1/2",E16; 14mm,9/16",E18; 15mm,19/32",E18; 16mm,5/8",E20; 17mn,21/32",E20; 18mm,11/16",E22; 19mm,3/4",E24; 20mm,25/32"; 21mm,13/16",E26; 22mm,7/8",E28; 24mm,15/16",E30; 26mm,1",E32; 27mm,1-1/16",E34; 30mm,1-3/16",E38; 32mm,1-1/4",E40

Referencia	Descripción
HCW11522	22pcs, Bolsa Textil

Set Llaves Acodadas 8 pcs - 40CRV DIN3113



Pcs	Descripción
8x	Llaves : 6mm, E8 x 7mm, 9/32"; 8mm, 5/16", E10 x 9mm, 11/32", E11; 10mm, 3/8", E12 x 11mm, 7/16", E14; 12mm, 15/32" x 13mm, 1/2", E16; 14mm, 9/16", E18 x 15mm, 19/32"; 16mm, 5/8", E20 x 17mm, 21/32"; 18mm, 11/16", E22 x 19mm, 3/4", E24; 20mm, 25/32" x 22mm, 7/8", E28

Referencia	Descripción
HDWP7508	8pcs Bolsa Textil

Set Llaves Acodadas 12 pcs - 40CRV DIN3113



Pcs	Descripción
12x	Llaves : 6mm, E8 x 7mm, 9/32"; 8mm, 5/16", E10 x 9mm, 11/32", E11; 8mm, 5/16", E10 x 10mm, 3/8", E12; 10mm, 3/8", E12 x 11mm, 7/16", E14; 12mm, 15/32" x 13mm, 1/2", E16; 14mm, 9/16", E18 x 15mm, 19/32"; 16mm, 5/8", E20 x 17mm, 21/32"; 18mm, 11/16", E22 x 19mm, 3/4", E24; 20mm, 25/32" x 22mm, 7/8", E28; 21mm, 13/16", E26 x 23mm, 29/32", E28; 24mm, 15/16", E30 x 27mm, 1-1/16", E34; 30mm, 1-3/16", E38 x 32mm, 1-1/14", E40

Referencia	Descripción
HDWP7512	12pcs, Bolsa Textil



Set Llaves Combinadas 15° - 24pcsg - 31CrV3 - DIN3113



Pcs	Descripción
24x	Comb. Llaves : 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 26 27

Referencia	Descripción
GK10345	24pcs, Bolsa Textil

Set Llaves Combinadas 15° - 31CrV3 - DIN3113



Pcs	Descripción
6x	6pcs, Soporte Plástico - 6 8 10 13 15 17 mm
8x	8pcs, Soporte Plástico - 6 8 10 13 15 17 19 22 mm

Referencia	Descripción
P16141	6pcs, Soporte Plástico
P16142	8pcs, Soporte Plástico

Set Llaves Combinadas 12 pcs - 31CrV3 DIN3113



Pcs	Descripción
12x	Comb. Llaves : 6 8 10 13 15 17 19 22 24 27 30 32 mm

Referencia	Descripción
P16144-P	12pcs, Bolsa Textil

Set Llaves Combinadas - 31CrV3 - DIN3113



Pcs	Descripción
6x	6pcs, Bolsa Textil - 6 8 10 13 15 17 mm
8x	8pcs, Bolsa Textil - 6 8 10 13 15 17 19 22 mm

Referencia	Descripción
P16141-P	6pcs, Bolsa Textil
P16142-P	8pcs, Bolsa Textil

Set Llaves Combinadas 15° 12 pcs - 31CrV-DIN3113



Set Llaves Combinadas 15° 12 pcs - 31CrV3-DIN3113



Pcs	Descripción
12x	Comb. Llaves: 6 7 8 9 10 11 12 13 14 17 19 22 mm

Referencia	Descripción
P16143-P	12pcs, Bolsa Textil
P16143	12pcs, Soporte Plástico

Set Llaves Combinadas 15º 6 pcs - 31CrV3 DIN3113



Pcs	Descripción
6x	Llave combinada: 8 10 12 13 14 17mm

Referencia	Descripción
GK10341TP	6 pcs, Soporte de plástico

Set Llaves Combinadas 15º - 8 pcs - 31CrV3 DIN3113



Pcs	Descripción
8x	Llave combinada: 6 8 10 13 15 17 19 22mm

Referencia	Descripción
GK10342TP	8 pcs, Soporte de plástico

Set Llaves Combinadas 15º - 12 pcs - 31CrV3 - DIN3113



Pcs	Descripción
12x	Llave combinada: 6 7 8 9 10 11 12 13 14 17 19 22mm

Referencia	Descripción
GK10343TP	12 pcs, Soporte de plástico

Set Llaves Combinadas 15º - 6 pcs - 31CrV3 DIN3113



Pcs	Descripción
6x	Llave combinada: 8 10 12 13 14 17mm

Referencia	Descripción
GK10341	6 pcs, Soporte de plástico

Set Llaves Combinadas 15º - 8 pcs - 31CrV3 DIN3113



Pcs	Descripción
8x	Llave combinada: 6 8 10 13 15 17 19 22mm

Referencia	Descripción
GK10342	8 pcs, Bolsa Textil

Set Llaves Combinadas 15º - 12 pcs - 31CrV3 - DIN3113



Pcs	Descripción
12x	Llave combinada: 6 7 8 9 10 11 12 13 14 17 19 22mm

Referencia	Descripción
GK10343	12 pcs, Bolsa Textil

Set Llaves Combinadas 24 pcs - 31CrV3 DIN3113



Pcs	Descripción
24x	Comb. Llaves : 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 26 27 28 30 32 mm

Referencia	Descripción
P16145-P	24pcs, Bolsa Textil

Set Llaves Dobles Abiertas - 31CrV3 - DIN3110



Pcs	Descripción
6x	Llave combinada: 6x7 8x9 10x11 12x13 14x15 16x17 mm
8x	Llave combinada: 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22

Referencia	Descripción
P16020	6 pcs, Soporte de plástico
P16031	8 pcs, Soporte de plástico

Set Llaves Dobles Abiertas 12 pcs 31CrV3 DIN3110



Pcs	Descripción
12x	Llaves: 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32 mm

Referencia	Descripción
P16033	12pcs, Soporte de plástico

Set Llaves Dobles Abiertas - 31CrV3 - DIN3110



Pcs	Descripción
6x	Llave combinada: 6x7 8x9 10x11 12x13 14x15 16x17 mm
8x	Llave combinada: 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22

Referencia	Descripción
P16020-P	6 pcs, Bolsa Textil
P16031-P	8 pcs, Bolsa Textil

Set Llaves Dobles Abiertas 12 pcs - 31CrV3 DIN3110



Pcs	Descripción
12x	Llaves: 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32 mm

Referencia	Descripción
P16033-P	12pcs, Bolsa Textil

Set Llaves Dobles Abiertas 31CrV3 DIN3110



Pcs	Descripción
6x	Llave: 6x7 8x9 10x11 12x13 14x15 16x17 mm
8x	Llave: 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22

Referencia	Descripción
P16040	6 pcs, Soporte de plástico
P16041	8 pcs, Soporte de plástico

Set Llaves Dobles Abiertas 12pcs - 31CrV3 DIN3110



Pcs	Descripción
12x	Llaves: 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32 mm

Referencia	Descripción
P16043	12pcs, Soporte de plástico

Set Llaves Dobles Abiertas - 31CrV3 - DIN3110



Pcs	Descripción
6x	Llave: 6x7 8x9 10x11 12x13 14x15 16x17 mm
8x	Llave: 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22

Referencia	Descripción
P16040-P	6 pcs, Bolsa Textil
P16041-P	8 pcs, Bolsa Textil

Set Llaves Dobles Abiertas 12 pcs - 31CrV3 IN3110



Pcs	Descripción
12x	Llaves: 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32 mm

Referencia	Descripción
P16043	12pcs, Bolsa Textil

Set Llaves de Estrella Acodadas - 31CrV3 - DIN838



Pcs	Descripción
6x	Llave: 6x7 8x9 10x11 12x13 14x15 16x17 mm
8x	Llave: 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22

Referencia	Descripción
P16805	6 pcs, Soporte de plástico
P16831	8 pcs, Soporte de plástico

Set Llaves de Estrella Acodadas 8pcs - 31CrV3 - wDIN83



Pcs	Descripción
8x	Llaves: 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 mm

Referencia	Descripción
P16831-P	12pcs, Bolsa Textil

Set Llaves de Estrella Acodadas 8pcs-31CrV3-DIN838



Pcs	Descripción
6x	Llaves: 6x7 8x9 10x11 12x13 14x15 16x17 mm

Referencia	Descripción
P16805-P	6pcs, Bolsa Textil

Set Llaves Acodadas 12pcs - 31CrV3 - DIN838



Pcs	Descripción
12x	Llaves: 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32 mm

Referencia	Descripción
P16833-P	12pcs, Bolsa Textil

Set Completo de Llaves - 47pcs



Pcs	Descripción
24x	Llave Combinada: 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 26 27 28 30 32mm
5x	Llave tuercas planas: 10x11 12x13 14x15 16x17 18x19mm
6x	Llave media luna: 8x10 9x11 10x12 13x14 15x17 16x18
4x	Llave TRX 6x8 10x12 14x18 20x24mm
8x	Llaves Acodadas: 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22mm

Referencia	Descripción
P16136	47pcs, Bolsa Textill

Set Llaves Dobles OX - 10pcs - 31CrV3 - DIN895



Pcs	Descripción
10x	Llaves: 6x7 8x9 10x11 12x13 13x17 14x17 16x18 19x22 24x27 30x32 mm

Referencia	Descripción
P10460	10pcs, Bolsa Textil

Set Llave de Doble Boca para Racores 6 pcs



Pcs	Descripción
6x	Llaves: 8x10 9x11 10x12 13x14 15x17 16x18

Referencia	Descripción
P16137	6pcs, Bolsa Textil

Set Llave Combinada de Media Luna 5 pcs



Pcs	Descripción
5x	Llaves: 10x11 12x13 14x15 16x17 18x19

Referencia	Descripción
P16138	5pcs, Bolsa Textil

Llave Tubular Hexagonal



Referencia	Descripción
M17650	6-7mm
M17651	8-9mm
M17642	8-10mm
M17652	10-11mm
M17643	12-13mm
M17654	14-15mm
M17644	14-17mm
M17655	16-17mm
M17645	16-18mm
M17653	16-21mm
M17656	18-19mm
M17657	19-22mm
M17658	24-27mm

Set Llave Tubular Hexagonal - 9 pcs



Pcs	Descripción
8x	Llaves: 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 mm
1x	Varilla

Referencia	Descripción
P06620-P	9pcs, Cromado, Bolsa Textil

Llave Inglesa Ajustable



Referencia	Descripción
HPW001	0-33mm L250mm

Llave en Cruz CrV DIN899



Referencia	Descripción
P16668	3/4" 24+27+32mm

Vaso Punta 1/2"

Referencia	Descripción
HSSB4008	8mm
HSSB4010	10mm



Palanca Elevador



Referencia	Descripción
HTL10260	260mm

Llave Z para Mango



Referencia	Descripción
HZTS0810	8x10mm

Llave de Filtro de Cinta



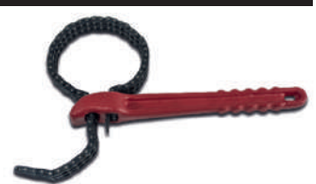
Referencia	Descripción
XT15011	280mm, Desde 225mm

Llave de Filtro de Cinta



Referencia	Descripción
XT15009	230mm, Desde 125mm

Llave de Filtro de Cadena



Referencia	Descripción
XT15061	230mm, Desde 125mm

Llave en L Telescópica



Referencia	Descripción
P16670	17+19mm, telescópica

Set Llaves Torx - 4pcs



Pcs	Descripción
4x	Llaves: E6x8 E10x12 E14x18 E20x24

Referencia	Descripción
P16139	4pcs, Bolsa Textil

Set Llaves Allen - 9 pcs



Pcs	Descripción
9x	Llaves: 1.5 2.0 2.5 3.0 4.0 5.0 6.0 8.0 10.0 mm

Referencia	Descripción
XT081	60CRV, Soporte de plástico

Set Llaves Torx - 9pcs



Pcs	Descripción
9x	Llaves: T10 T15 T20 T25 T27 T30 T40 T45 T50

Referencia	Descripción
XT082	60CRV, Soporte de plástico

Set Llaves Allen - 8 pcs



Pcs	Descripción
8x	Llaves: 1.5 2.0 2.5 3.0 4.0 5.0 6.0 8.0 mm

Referencia	Descripción
XT085	60CRV, Soporte de plástico

Set Llaves Torx - 8pcs



Pcs	Descripción
8x	Llaves: T10 T15 T20 T25 T27 T30 T40 T45

Referencia	Descripción
XT086	60CRV, Soporte de plástico

Set Llaves Allen 8 pcs - DIN 911



Referencia	Descripción
HW158-1508	S2,extendido,Soporte de plástico 2.0,2.5,3.0,4.0,5.0,6.0,8.0,10.0mm
HW158-1518	S2, Soporte de plástico 2.0,2.5,3.0,4.0,5.0,6.0,8.0,10.0mm
HW158-1608	S2, Soporte de plástico 2.0,2.5,3.0,4.0,5.0,6.0,8.0,10.0mm

Set Llaves TORX 8 pcs - DIN 911



Referencia	Descripción
HW158-1908	S2,extendido,Soporte de plástico. T10,T15,T20,T25,T30,T40,T45,T50
HW158-2008	S2, Soporte de plástico T10,T15,T20,T25,T30,T40,T45,T50

Llaves Allen - DIN911



Referencia	Descripción
H33020	2,0mm L 100mm
H33025	2,5mm L 112mm
H33030	3,0mm L 126mm
H33035	3,5mm L 126mm (Sin bola)
H33040	4,0mm L 140mm
H33050	5,0mm L 160mm
H33060	6,0mm L 180mm
H33080	8,0mm L 200mm
H33100	10,0mm L 224mm

Llaves Torx - DIN911



Referencia	Descripción
H35010	T10 L 100mm
H35015	T15 L 112mm
H35020	T20 L 126mm
H35025	T25 L 140mm
H35030	T30 L 160mm
H35040	T40 L 180mm
H35045	T45 L 200mm
H35050	T50 L 224mm

Llaves Allen - CrV

Referencia	Descripción
P00212	12 mm
P00214	14 mm
P00217	17 mm
P00219	19 mm
P00222	22 mm
P00224	24 mm

Kit Eliminación Tapicería

Set de 11 Herramientas para quitar la tapicerías de vehículos.
El Kit está preparado para su uso individual con herramientas especiales y preparadas con un material especial.





La gran ventaja del kit es que no raya o daña la tapiceria ni tampoco elementos pintados

Referencia	Descripción
XT50111	11 piezas

Juego de abrazaderas - 3 Pcs







Abrazaderas para diámetros 19-32-57 mm
Boqueo seguro mediante anillo de sujección
Las abrazaderas están diseñadas para no pellizcar ni deformar las mangueras. Las abrazaderas no son conductoras de electricidad.

Referencia	Descripción
XT50103	3 piezas

Destornillador Plano Tipo S2 DIN5264

Material bi-componente con agarre antideslizante y ergonómico. Resistente a aceites, solventes, químicos para su uso diario. Materiales ecológicos y reciclable. Alto par de potencia y resistencia. Alta precisión en fabricación. Acorde a las normas internacionales. Aleación de acero de alta calidad, endurecido y templado a capacidad máxima. Acabados de alta precisión y calidad.



Referencia	Descripción
HW1711-3-07530	PL 3 0x75mm
HW1711-3-07540	PL 4 0x75mm
HW1711-3-10055	PL 5 5x100mm
HW1711-3-10065	PL 6 5x100mm
HW1711-3-15065	PL 6 5x150mm
HW1711-3-15080	PL 8 0x150mm

Destornillador TRX S2 DIN5264



Referencia	Descripción
HW1714-06006	T 6 x 60mm
HW1714-06007	T 7 x 60mm
HW1714-06008	T 8 x 60mm
HW1714-06009	T 9 x 60mm
HW1714-08010	T 10 x 80mm
HW1714-08015	T 15 x 80mm
HW1714-10020	T 20 x 100mm
HW1714-10025	T 25 x 100mm
HW1714-11527	T 27 x 115mm
HW1714-11530	T 30 x 115mm
HW1714-13040	T 40 x 130mm
HW1714-13045	T 45 x 130mm

Destornillador Cruz PZ S2 DIN5264



Referencia	Descripción
HW1712-3-0600	PH 0 0x60mm
HW1712-3-0801	PH 1 0x80mm
HW1712-3-1002	PH 2 0x100mm
HW1712-3-1502	PH 2 0x150mm
HW1712-3-1503	PH 3 0x150mm

Destornillador Cruz PZ S2 DIN5264



Referencia	Descripción
HW1713-3-0600	PZ 0 0x60mm
HW1713-3-1001	PZ 1 0x80mm
HW1713-3-1002	PZ 2 0x100mm
HW1713-3-1502	PZ 2 0x150mm
HW1713-3-1503	PZ 3 0x150mm

Destornillador PZ S2 DIN5264 - Amarre Hexagonal

Referencia	Descripción
HW1713-4-0801	PZ 1,0x80mm
HW1713-4-1002	PZ 2,0x100mm



Destornillador en T-TRX S2 DIN5264



Referencia	Descripción
HW1515-5-10010	TH10
HW1515-5-10015	TH15
HW1515-5-10020	TH15
HW1515-5-15025	TH25
HW1515-5-15027	TH27
HW1515-5-15030	TH30
HW1515-5-20040	TH40
HW1515-5-20045	TH45
HW1515-5-20050	TH50

Destornillador en T-HEX S2 DIN5264



Referencia	Descripción
HW1516-6-6100020	HEX 2,0x100mm
HW1516-6-6100025	HEX 2,5x100mm
HW1516-6-6100030	HEX 3,0x100mm
HW1516-6-6150040	HEX 4,0x150mm
HW1516-6-6150050	HEX 5,0x150mm
HW1516-6-6150060	HEX 6,0x150mm
HW1516-6-6150070	HEX 7,0x150mm
HW1516-6-6200080	HEX 8,0x200mm
HW1516-6-6200100	HEX 10,0x200mm

Set Destornilladores en T - TRX



Referencia	Descripción
HW151-0506	T10,T15,T20,T25,T30,T40



Set Destornilladores en T - HEX



Referencia	Descripción
HW151-0306	2,5;3,0;4,0;5,0;6,0;8,0

Destornillador PH S2 DIN5264 - Cabeza Hexagonal



Referencia	Descripción
HW1712-4-70801	PH 1 0x80mm
HW1712-4-71002	PH 2 0x100mm

Destornillador Flexible para Puntas S2



Referencia	Descripción
HW1717-2-2160516	5/16"x 160mm

Set Destornilladores 8pcs - PL+PH+PZ S2 - DIN5264



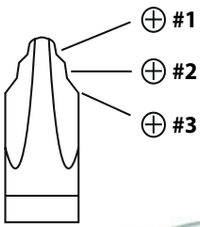


Pcs	Descripción
2x	PL5,5x25mm PL 6,5x25mm
2x	PH0,0x60mm PH1,0x25mm
4x	PZ0,0x60mm PZ1,0x80mm PZ2,0x100mm PZ1,0x25mm

Referencia	Descripción
W171-1208	8pcs, Caja de cartón

Multi-Destornillador 3 en 1, PH1-2-3, S2

Este destornillador universal reemplaza en solo un equipo tres destornilladores. Única punta escalonada en Puntas PH 1-2-3







Referencia	Descripción
HW112-9-1002	Ph1, Ph1, Ph3 - Longitud 210mm

Destornillador para Puntas S2



Referencia	Descripción
HW1717-3-610014	1/4"x100mm

Destornillador Flexible para Puntas S2



Referencia	Descripción
HW1717-2-2160416	1/4"x160mm

Destornillador Flexible para Vasos 1/4"



Referencia	Descripción
HW1719-2-160014	1/4"x160mm

Set Destornilladores 6 pcs - PL+PH S2 DIN5264





Pcs	Descripción
4x	PL3,0x75mm PL4,0x100mm PL5,5x125mm PL 6,5x150mm
2x	PH1,0x80mm PH2,0x100mm

Referencia	Descripción
HW171-0706	6pcs, Caja de cartón

Multi-Destornillador 6 en 1



Referencia	Descripción
HW96-8702	PL 4,5,6; PH 1,2,3

Destornillador PL S2 - DIN5264 - Cabeza Hexagonal



Referencia	Descripción
HW1711-4-712555	PL 5 5x125mm
HW1711-4-715065	PL 6 5x150mm
HW1711-4-717580	PL 8 0x175mm

Destornillador Mini PL S2 - DIN5264



Referencia	Descripción
HW951-7-02555	PL 5 5x25mm
HW951-7-02565	PL 6 5x25mm

Destornillador Mini PH S2 - DIN5264



Referencia	Descripción
HW952-6-0251	PH 1 0x25mm
HW952-6-0252	PH 2 0x25mm

Destornillador Mini PZ S2 - DIN5264



Referencia	Descripción
HW953-6-0251	PZ 1 0x25mm
HW953-6-0252	PZ 2 0x25mm

Expositor Destornilladores S2 - DIN5264



Pcs	Descripción
25x	5xPL3,0x75mm 5xPL4,0x75mm 5xPL5,5x100mm 5xPL6,5x150mm 5xPL8,0x150mm
25x	5xPH0,0x60mm 5xPH1,0x80mm 5xPH2,0x100mm 5xPZ1,0x100mm 5xPZ2,0x100mm

Referencia	Descripción
HW171-D150	S2, 50pcs, Soporte de plástico

Destornillador Serie Larga PL



Referencia	Descripción
HW1711-9-40040	PL4x400mm
HW1711-9-40055	PL5 5x400mm

Destornillador Serie Larga PH



Referencia	Descripción
HW1712-8-4001	PH1x400mm
HW1712-8-4002	PH2x400mm

Destornillador Vaso Hexagonal



Referencia	Descripción
HW1717-1-125060	6x125mm
HW1717-1-125070	7x125mm
HW1717-1-125080	8x125mm
HW1717-1-125100	10x125mm
HW1717-1-125120	12x125mm
HW1717-1-125130	13x125mm

Mini Set Destornilladores S2







Referencia	Descripción
HW130-0708	5x PL 2 2.5 3 3.5 4
HW130-0908	8x TRX 5 6 7 8 9 10 15 20

Destornillador Plano PL CrV



Referencia	Descripción
XT071310	PL3x75mm
XT071311	PL3x100mm
XT071312	PL4x75mm
XT071313	PL4x100mm
XT071314	PL6x100mm
XT071315	PL6x150mm
XT071316	PL8x150mm

Destornillador Estrella PH CrV



Referencia	Descripción
XT071301	PH0x75mm
XT071302	PH0x100mm
XT071303	PH1x75mm
XT071304	PH1x100mm
XT071305	PH2x100mm
XT071306	PH2x150mm
XT071307	PH3x150mm

Destornillador Estrella PZ CrV



Referencia	Descripción
XT071401	PZ0x75mm
XT071402	PZ0x100mm
XT071403	PZ1x75mm
XT071404	PZ1x100mm
XT071405	PZ2x100mm
XT071406	PZ2x150mm
XT071407	PZ3x150mm

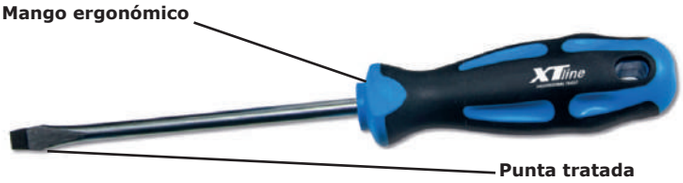
Destornillador TRX CrV



Referencia	Descripción
XT071210	T10x75mm
XT071215	T15x75mm
XT071220	T20x100mm
XT071225	T25x100mm
XT071230	T30x125mm
XT071240	T40x125mm
XT071245	T45x125mm

XTline PROFESSIONAL TOOLS

LÍNEA DE DESTORNILLADORES



Alta precisión en fabricación.
Acorde a las normas internacionales.
Aleación de acero de alta calidad,
endurecido y templado a capacidad.
Máxima, con acabados de calidad.

Destornillador Corto Plano PL CrV



Referencia	Descripción
XT071317	PL 5x38mm
XT071318	PL 6x38mm

Destornillador Corto Estrella PZ CrV



Referencia	Descripción
XT071408	PZ 1x38mm
XT071409	PZ 2x38mm

Destornillador Corto Estrella PH CrV



Referencia	Descripción
XT071308	PH 1x38mm
XT071309	PH 2x38mm

Set Destornilladores 7pcs - PL+PH CrV





Pcs	Descripción
3x	PH0 PH1 PH2
4x	PL 3 PL 5 PL 6 PL 8

Referencia	Descripción
XT073	7 pcs, Caja de Cartón

Set Destornilladores 7 pcs - PL+PH CrV





Pcs	Descripción
3x	PH0 PH1 PH2
4x	PL 3 PL 5 PL 6 PL 8

Referencia	Descripción
XT075	7 pcs, Caja de Cartón

Set Destornilladores 7 pcs - PL+PZ CrV





Pcs	Descripción
4x	PZ 0 PZ1 PZ2 PZ3
3x	PL 4 PL6 PL8

Referencia	Descripción
XT071507	7 pcs, Caja de Cartón

Set Mini-Destornillador CrV - 10 pcs





Pcs	Descripción
6x	PH00 PH0 PH1 PL1.4 PL1.8 PL2.4
4x	TRX 7 8 9 10

Referencia	Descripción
XT07010	10 pcs, Caja de plástico

Mini Multi-Destornillador CrV - 31 pcs





Pcs	Descripción
30x	4xPH 2xPZ 7xPL 8xHEX 9xTRX
1x	Mango Destornillador

Referencia	Descripción
XT07031	31pcs, Caja de plástico

Set Destornilladores 7 pcs - PL-PH CrV





Pcs	Descripción
3x	PH1 PH2 PH3
4x	PL3 PL5 PL6 PL8

Referencia	Descripción
XT071707	7 pcs, Caja de Cartón

Set Destornilladores 7 pcs - TRX CrV





Pcs	Descripción
7x	T6 T8 T10 T15 T20 T25 T30

Referencia	Descripción
XT071607	7 pcs, Caja de Cartón

HONITON
PROFESSIONAL TOOLS

Los destornilladores de electricista se prueban individualmente en agua a 10.000V y sometidos a las siguientes 5 pruebas:

- Diseñado y probado de acuerdo a los estándares internacionales
- Mango bi-material ergonómico para un fácil uso.
- Aislamiento de cuchilla moldeado.
- Mango de acero aleado de alta calidad.
- Aislamiento de hasta 10.000 V AC





Prueba de fuerza: Los instrumentos se prueban para resistir carga de 20N y temperaturas de +70ºC



Prueba inflamable: Las herramientas se prueban para determinar la resistencia a las llamas, lo que elimina el riesgo de fuego



Test Eléctrico: Los instrumentos se sumergen en agua durante 24 horas y luego es conectado a 10.000V después de 3 minutos de interrupción.



Prueba de resistencia a las heladas: Los instrumentos son probados a -40ºC su impacto de resistencia. El aislamiento del material protege a en rango amplio de temperatura.

Destornillador SL/PZ - 1000V S2 EN 60900



Referencia	Descripción
HW10213-0801	SL5.0 & PZ1x80mm
HW10213-1002	SL6.0 & PZ2x100mm

Destornillador Pozidriv PZ - 1000V S2 EN 60900



Referencia	Descripción
HW1023-0801	PZ 1x80mm
HW1023-1002	PZ 2x100mm

Destornillador Plano PL - 1000V S2 EN 60900



Referencia	Descripción
HW1021-07525	PL 2 5x75mm
HW1021-10030	PL 3 0x100mm
HW1021-10040	PL 4 0x100mm
HW1021-12555	PL 5 5x125mm
HW1021-15065	PL 6 5x150mm

Destornillador Phillips PH - 1000V S2 EN 60900



Referencia	Descripción
HW1022-0600	PH 0x60mm
HW1022-0801	PH 1x80mm
HW1022-1002	PH 2x100mm
HW1022-1503	PH 3x150mm

Set Destornillador PL+PH - 1000V S2 EN 60900





Pcs	Descripción
4x	PL 2.5x75mm PL 3.5x100mm PL 4.0x100mm PL 5.5x125mm
2x	PH 1x80mm PH 2x100mm

Referencia	Descripción
HW102-306	6 pcs, Caja de Cartón

Set Destornillador PL+PH - 1000V S2 EN 60900





Pcs	Descripción
3x	PL 2.5x75mm PL 3.5x100mm PL 5.5x125mm
2x	PH 1x80mm PH 2x100mm
2x	PZ 1x80mm PZ 2x100mm

Referencia	Descripción
HW102-007	7 pcs, Caja de Cartón

Punta Atornillador Plana PL - 1/4", RS S2




Referencia	Descripción
HW961-12-02542	PL 4.5x25mm (10pcs/pack)
HW961-12-02551	PL 5.5x25mm (10pcs/pack)
HW961-12-02561	PL 6.5x25mm (10pcs/pack)
HW961-12-02581	PL 8.0x25mm (10pcs/pack)

Punta Atornillador Phillips PH - 1/4", RS S2 system




Referencia	Descripción
HW962-12-0251	PH 1x25mm (10pcs/pack)
HW962-12-0252	PH 2x25mm (10pcs/pack)
HW962-12-0253	PH 3x25mm (10pcs/pack)

Punta Atornillador Pozidriv PZ - 1/4", RS S2




Referencia	Descripción
HW963-12-0251	PZ 1x25mm (10pcs/pack)
HW963-12-0252	PZ 2x25mm (10pcs/pack)
HW963-12-0253	PZ 3x25mm (10pcs/pack)

Punta Atornillador Torx TRX - 1/4", RS S2




Referencia	Descripción
HW964-12-02510	T10x25mm (10pcs/pack)
HW964-12-02515	T15x25mm (10pcs/pack)
HW964-12-02520	T20x25mm (10pcs/pack)
HW964-12-02525	T25x25mm (10pcs/pack)
HW964-12-02527	T27x25mm (10pcs/pack)
HW964-12-02530	T30x25mm (10pcs/pack)
HW964-12-02540	T40x25mm (10pcs/pack)

Punta Atornillador Torx TRX - 1/4", RS S2 system




Referencia	Descripción
HW965-11-02510	T10x25mm (10pcs/pack)
HW965-11-02515	T15x25mm (10pcs/pack)
HW965-11-02520	T20x25mm (10pcs/pack)
HW965-11-02525	T25x25mm (10pcs/pack)
HW965-11-02527	T27x25mm (10pcs/pack)
HW965-11-02530	T30x25mm (10pcs/pack)
HW965-11-02540	T40x25mm (10pcs/pack)

Punta Atornillador Phillips Serie Larga PH - 1/4", RS S2




Referencia	Descripción
HW962-21-0501	PH 1x50mm (10pcs/pack)
HW962-21-0502	PH 2x50mm (10pcs/pack)
HW962-21-0503	PH 3x50mm (10pcs/pack)

Punta Atornillador Pozidriv Serie Larga PZ - 1/4", RS S2




Referencia	Descripción
HW963-21-0501	PZ 1x50mm (10pcs/pack)
HW963-21-0502	PZ 2x50mm (10pcs/pack)
HW963-21-0503	PZ 3x50mm (10pcs/pack)

Punta Atornillador Torx Serie Larga TRX - 1/4", RS S2




Referencia	Descripción
HW964-21-05010	T10x50mm (10pcs/pack)
HW964-21-05015	T15x50mm (10pcs/pack)
HW964-21-05020	T20x50mm (10pcs/pack)
HW964-21-05025	T25x50mm (10pcs/pack)
HW964-21-05027	T27x50mm (10pcs/pack)
HW964-21-05030	T30x50mm (10pcs/pack)
HW964-21-05040	T40x50mm (10pcs/pack)

Punta 1/4" 3V S2



Referencia	Descripción
HW9603-11-02502	2x25mm, 1pack/2pcs
HW9603-11-02503	3x25mm, 1pack/2pcs
HW9603-11-02504	4x25mm, 1pack/2pcs

HONITON PROFESSIONAL TOOLS

PUNTAS DE ATORNILLADOR
Gran precisión en el ajuste con la cabeza del tornillo.
Reduce el deslizamiento del contacto punta-tornillo
Endurecido y tratado a su máxima capacidad con acero RSC.

Punta Atornillador Phillips PH - 1/4", RS S2 Titan




Referencia	Descripción
HW962-12-0251TH	PH 1x25mm (10pcs/pack)
HW962-12-0252TH	PH 2x25mm (10pcs/pack)
HW962-12-0253TH	PH 3x25mm (10pcs/pack)

Punta Atornillador Pozidriv PZ - 1/4", RS S2 Titan




Referencia	Descripción
HW963-12-0251TH	PZ 1x25mm (10pcs/pack)
HW963-12-0252TH	PZ 2x25mm (10pcs/pack)
HW963-12-0253TH	PZ 3x25mm (10pcs/pack)

Punta Atornillador Torx TRX - 1/4", RS S2 Titan




Referencia	Descripción
HW964-12-02510TH	T10x25mm (10pcs/pack)
HW964-12-02515TH	T15x25mm (10pcs/pack)
HW964-12-02520TH	T20x25mm (10pcs/pack)
HW964-12-02525TH	T25x25mm (10pcs/pack)
HW964-12-02527TH	T27x25mm (10pcs/pack)
HW964-12-02530TH	T30x25mm (10pcs/pack)
HW964-12-02540TH	T40x25mm (10pcs/pack)

Set de Puntas - RS S2





Pcs	Descripción
2x	SL 1.0x5.5 SL 1.2x6.5
4x	1xPH 1 2xPH 2 1xPH 3
4x	1xPZ 1 2xPZ 2 1xPZ 3
1x	Adaptador de amarre magnético

Referencia	Descripción
HW96-0411	11pcs, Caja de plástico

Llave de carraca Amarre 1/4"



Referencia	Descripción
HW967-24-2-1414	

Set de Puntas - RS S2




Pcs	Descripción
9x	TRX - T7 T8 T9 T10 T15 T20 T25 T30 T40
6x	HEX - 2.0 2.5 3.0 4.0 5.0 6.0mm
4x	Punta 0 1 2 3
4x	Allen Llaves 4 6 8 10
3x	Torx 6 8 10
3x	Tri 1 2 3 4
1x	Destornillador magnético
1x	Adaptador de puntas magnético

Referencia	Descripción
HW96-3232	32pcs, Caja de plástico

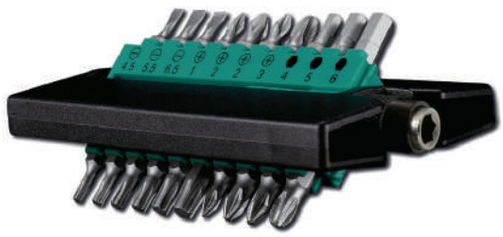
Llave de Vaso y Puntas - Set 31 pcs



Pcs	Descripción
3x	PL 4.5 PL5.5 PL6.5
3x	PH1 PH2 PH3
3x	PZ1 PZ2 PZ3
6x	Torx 10 15 20 25 30 40
3x	Hex 4 5 6
1x	Extensión magnética
1x	1/4" Llave de carraca
1x	1/4" Adaptador 25mm
9x	Vasos 1/4" 5 6 7 8 9 10 11 12 13mm

Referencia	Descripción
HW96-2731	31pcs, Caja de plástico

Set de Puntas - 21 pcs



Pcs	Descripción
3x	PL 4.5 PL5.5 PL6.5
4x	PH1 2xPH2 PH3
4x	PZ1 2xPZ2 PZ3
6x	Torx 10 15 20 25 30 40
3x	Hex 4 5 6
1x	Amarre 1/4"

Referencia	Descripción
HW96-8021	21 pcs, Caja de plástico

Set de Puntas - RS S2





Pcs	Descripción
3x	SL 0.6x4.5 SL 1.0x5.5 SL 1.2x6.5
9x	3xPH 1 3xPH 2 3xPH 3
9x	3xPZ 1 3xPZ 2 3xPZ 3
6x	TRX 10 15 20 25 30 40
3x	HEX 4 5 6
1x	Adaptador de puntas magnético

Referencia	Descripción
HW96-3232	32pcs, Caja de plástico

Adaptador Rápido Magnético de puntas - 1/4" S2



Referencia	Descripción
HW967-21-2-06214	62 mm
HW967-21-3-07514	75 mm

Adaptador Universal Magnético - 1/4" S2



Referencia	Descripción
HW967-21-41-06014	65 mm

Adaptador - 1/4" S2



Referencia	Descripción
HW969-2-11-02514	1/4" 25mm
HW969-2-21-05014	1/4" 50mm

Adaptador - 1/4" S2



Referencia	Descripción
HW969-2-75176	1/2" 75mm

Adaptador para Vaso - 1/4"



Referencia	Descripción
HW960-65-06	6mm / 65mm
HW960-65-07	7mm / 65mm
HW960-65-08	8mm / 65mm
HW960-65-10	10mm / 65mm
HW960-65-12	12mm / 65mm
HW960-65-13	13mm / 65mm

Set: Destornillador + Puntas + Vasos 1/4" CrV



Pcs	Descripción
2x	Mangos para adaptar puntas
1x	Adaptador magnético 62mm
1x	1/4" Extensión flexible
11x	Punta 25mm: PH1, 4xPH2, PH3, PZ1, 3xPZ2, PZ3
5x	Punta Hex 25mm: 3mm, 4mm, 5mm, 6mm, 8mm
5x	Punta Plana 25mm: PL4mm, PL4.5, PL5.5mm, PL6.5mm, PL8mm
7x	Punta TRX 25mm: T10, T15, T20, T25, T27, T30, T40
7x	Punta TRX 25mm con hole: T10, T15, T20, T25, T27, T30, T40
10x	1/4" Vaso: 4, 5, 6, 7, 8, 9, 10, 11, 12, 13mm
1x	1/4" Vaso E-TRX: E4, E5, E6, E7, E8, E10

Referencia	Descripción
HW96-5856	56pcs, Caja de plástico

Destornillador Impacto + Puntas







Pcs	Descripción
1x	Amarre 1/2”
4x	Punta 5/16” 75mm PL6,PL8,PH2,PH3
6x	Punta 5/16” 30mm PH2, PH3, PH4, PL6, PL8, P10
1x	1/2” Punta Adaptador

Referencia	Descripción
H5-ID0120	12pcs, Caja de plástico

Llave de carraca - Set 14pcs



Pcs	Descripción
2x	PL5.5 PL6.5
2x	PZ1 PZ2
3x	TRX T15 T20 T25
3x	HEX 4 5 6
1x	Punta Amarre
1x	Llave de Carraca

Referencia	Descripción
HW96-4314	14pcs, Caja de plástico

Destornillador de Impacto + Puntas S2



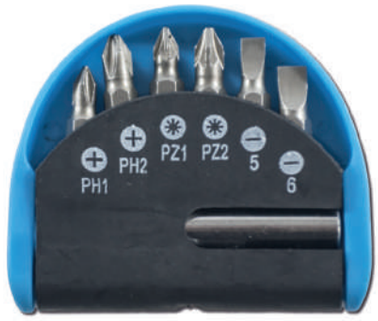


Pcs	Descripción
1x	Destornillador 1/2” 135mm
4x	Punta 5/16” hex 8x36mm: 4mm, 5mm, 6mm, 8mm
4x	Punta 5/16” cross 8x36mm: PH1, PH2, PH3, PH4
4x	Punta 5/16” slotted 8x36mm: PL5mm, PL6mm, PL8mm, PL10mm
2x	Punta 5/16” 8x80mm: PL8mm, PH3
1x	1/2” Punta Adaptador 8mm

Referencia	Descripción
XT07116	17pcs, Caja metálica

Puntas Set S2 - 7 pcs





Pcs	Descripción
2x	PL5 PL6
2x	PH1 PH2
2x	PZ1 PZ2
1x	Punta Adaptador Magnético

Referencia	Descripción
XT07007	7pcs, Caja de plástico

Puntas Set S2 - 21 pcs





Pcs	Descripción
2x	PL4.5 PL5.5
4x	PH1 2xPH2 PH3
4x	PZ1 2xPZ2 PZ3
4x	HEX 3 4 5 6
6x	TRX T8 T10 T15 T20 T25 T30
1x	Adaptador

Referencia	Descripción
XT07021	21pcs, Caja de plástico

Puntas Set S2 - 25 pcs





Pcs	Descripción
2x	PL4 PL5
2x	PH1 PH2
2x	PZ1 PZ2
4x	HEX 3 4 5 6
6x	TRX T10 T15 T20 T25 T30 T40
6x	Vaso 1/4” 6 7 8 10 11 13mm
1x	Amarre 1/4”
1x	Carraca 1/4”
1x	Adaptador 1/4”

Referencia	Descripción
XT07025	25pcs, Caja de plástico

Puntas Set S2 - 32 pcs







Pcs	Descripción
4x	PL3 PL4 PL5 PL6
4x	PH1 2xPH2 PH3
4x	PZ1 2xPZ2 PZ3
4x	HEX 3 4 5 6
7x	TRX T10 T15 T20 T25 T27 T30 T40
7x	TRX T10 T15 T20 T25 T27 T30 T40
1x	Adaptador Cuadradillo
1x	Punta Adaptador magnética

Referencia	Descripción
XT07033	32pcs, Caja de plástico

HONITON PROFESSIONAL TOOLS

Alicates HONITON
Mango con material bi-componente. Agarre antideslizante y manipulación cómoda y ergonómica. Resistente a aceites, solventes y químicos. Materiales ecológicos y reciclables.
Alta generación de par y transmisión.
Puntas Material Cromo Vanadio, Acero 40CRV.

Alicates Profesionales - 40CrV - DIN5746





Referencia	Descripción
HW15601-321-160	160mm
HW15601-321-180	180mm
HW15601-321-200	200mm

Alicates Profesionales Punta Plana-40CrV DIN5745





Referencia	Descripción
HW15602-121-160	160mm

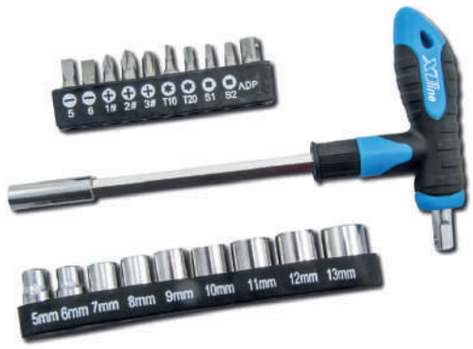
Alicates de Bocas Redondas - 40CrV - DIN5745





Referencia	Descripción
HW15602-133-160	160mm

Destornillador T + Puntas + Vasos



Pcs	Descripción
1x	Destornillador en T Magnético
2x	PL5 PL6
3x	PH1 PH2 PH3
4x	PZ0 PZ1 PZ2 PZ3
2x	TRX 10 20
9x	Vaso 5 6 7 8 9 10 11 12 13

Referencia	Descripción
X7120	20pcs, Caja de plástico

Alicates Profesionales Punta Larga - 40CrV DIN5745







Referencia	Descripción
HW15602-211-160	160mm
HW15602-311-200	200mm
HW15603-211-200	200mm - Curvo

Alicate de Corte 40CrV - DIN5749





Referencia	Descripción
HW15604-12-160	160mm

Alicate de Corte Diagonal - 40CrV - DIN5745





Referencia	Descripción
HW15604-12-180	180mm

Tenacilla de Ajuste Múltiple - 40CrV





Referencia	Descripción
HW15608-01-250	250mm

Alicates Profesionales Pelacables - 40CrV DIN5743





Referencia	Descripción
HW15606-180	180mm

Alicate para Terminales - 40CrV







HW1773-3-BN06WF



HW1773-3-BN03B



HW1773-3-BN03C

Referencia	Descripción
HW177-3-BN06WF	260mm
HW1773-3-BN03B	260mm
HW177-3-BN03C	260mm

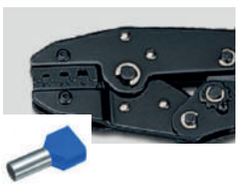
Accesorios para Alicate de Terminales



HW177-LY03B



HW177-LY03C



HW177-LY04WF



HW177-LY06WF

Referencia	Descripción
HW177-LY038	0 5-6 mm2 AWG 20-10
HW177-LY03C	0 5-6 mm2 AWG 20-10
HW177-LY04WF	0 5-4 mm2 AWG 20-10
HW177-LY06WF	0 75-6mm2, AWG 18-10

Tenaza de Ajuste Rápido



Referencia	Descripción
HW15240-1039	250mm
HW15300-1239	300mm

Tenaza de Ajuste Rápido - 40CrV



Referencia	Descripción
HPL010	250mm

Tenaza Grip Boca Curva - 40CrV



Referencia	Descripción
HPL011	250mm

Tijera de Corte Básico



Referencia	Descripción
HW15600-1250	Corte Izquierdas

Tijera de Corte Básico



Referencia	Descripción
HW15600-1260	Corte Derechas

Tijera de Corte Básico



Referencia	Descripción
HW15600-1270	Corte Recto

Mini Alicate de Corte Diagonal CrV



Referencia	Descripción
HW15280	130mm

Mini Alicate de Corte Diagonal Punta Larga CrV



Referencia	Descripción
HW15282	140mm

Mini Alicate de Corte Curvo CrV



Referencia	Descripción
HW15283	140mm

Mini Alicate de Corte Punta Redonda CrV



Referencia	Descripción
HW15284	140mm

Alicates Cir-Clips CrV



Referencia	Descripción
HW15618-01	180mm, Recto - Externo
HW15618-02	170mm, Curvo - Externo
HW15618-03	180mm, Recto - Interno
HW15618-04	170mm, Curvo - Interno



KIT DE ELECTRICISTA - 21 Pcs

Kit de herramientas de electricista con bolsa textil ligera muy práctica. Apertura superior y con corpantimentos separados con malla para cada área y herramienta individualmente.
DIMENSIONES: 210x270x250mm





Pcs	Descripción
4x	alicates - pelador cable 160mm, llave apriete 250, cortador cable 250mm, punta 200mm
3x	alicates - punta curva 200mm, cortador cable 145mm, combinados 180mm
1x	alicates - corte lateral 180mm
1x	Cinta Pvc 19x0,15mm
1x	cuchillo pelacables
1x	probador de Potencia 190mm
3x	destornilladores - PH0x60mm PH1x80mm PH2x100mm
4x	destornilladores - PL3,0x75mm PL4,0x100mm PL5,5x125mm PL6,5x150mm

Referencia	Descripción
VDE17321	21pcs, Bolsa Textil

Alicates Electricidad CrV - 1000V DIN EN 60900



Referencia	Descripción
VDE17350	160mm
VDE17351	180mm
VDE17352	200mm

Alicates Electricidad Punta Larga CrV - 1000V DIN EN 60900



Referencia	Descripción
VDE17331	180mm

Tenaza de Ajuste Rápido Electricidad CrV - 1000V



Referencia	Descripción
VDE17385	240mm

Los alicates están fabricados con acero al cromo vanadio de alta calidad lo que garantiza una durabilidad extrema.
El mango ergonómico está diseñado para su comodidad con asas de goma TPR que minimizan su potencia. Los alicates están fabricados con materiales reciclables y libres de sustancias nocivas.

Alicates Profesionales CrV



Referencia	Descripción
XT54181	160mm
XT54182	180mm
XT54183	200mm

Alicates Corte Electricidad CrV - 1000V DIN EN 60900



Referencia	Descripción
VDE17340	160mm

Alicates Pelacables Electricidad CrV - 1000V DIN EN 60900



Referencia	Descripción
VDE17360	160mm

Alicate Corte CrV



Referencia	Descripción
VDE17390	240mm

Alicates de Corte CrV



Referencia	Descripción
XT54187	160mm

Alicates de Corte CrV



Referencia	Descripción
XT54188	180mm
XT54189	200mm

Alicates Punta Larga CrV



Referencia	Descripción
XT54184	160mm
XT54186	200mm

Alicates Punta Larga Curva CrV



Referencia	Descripción
XT54194	160mm
XT54195	200mm

Alicate Pelacables CrV



Referencia	Descripción
XT54193	180mm

Alicates Punta Cónica CrV



Referencia	Descripción
XT54126	125mm

Mini Alicate Corte Frontal CrV



Referencia	Descripción
XT54128	125mm

Alicate Puntas Redondas CrV



Referencia	Descripción
XT54130	125mm

Tenaza Profesional CrV



Referencia	Descripción
XT54402	180mm
XT54403	200mm

Mini Alicate CrV



Referencia	Descripción
XT54125	125mm

Alicate de Corte CrV



Referencia	Descripción
XT54127	125mm

Alicates Punta Larga CrV



Referencia	Descripción
XT54129	125mm

Alicate Plano Puntas Curvas CrV



Referencia	Descripción
XT54131	125mm

Alicates Cir-Clips CrV



Referencia	Descripción
XT54143	180mm, Recto - Interno
XT54144	180mm, Curvo - Interno
XT54145	180mm, Recto - Externo
XT54146	180mm, Curvo - Externo

Set Alicates CrV - 4 pcs



Pcs	Descripción
1x	Alicate - Corte
1x	Alicate - Puntas Largas
1x	Alicate - Puntas Redondas
1x	Alicate - Puntas Curvas

Referencia	Descripción
X0140	125mm, 4pcs, Bolsa Textil

Alicates Anillos Circlips CrV



Referencia	Descripción
X0143	180mm, Recto - Interno
X0144	180mm, Curvo - Interno
X0145	180mm, Recto - Externo
X0146	180mm, Curvo - Externo

Tenaza Grip CR-MO



Referencia	Descripción
XT52057	250mm

Tenaza de Ajuste Rápido



Referencia	Descripción
XT52180	180mm
XT52250	250mm
XT52300	300mm
XT52400	400mm

Tenazas CrV

Referencia	Descripción
X1401	160mm
X1402	180mm
X1403	200mm



Tenazas con Corte CrV



Referencia	Descripción
P17119	230mm, PVC Mango

Tenazas con Corte CrV



Pcs	Descripción
2x	Alicate - Recto Interno y Curvo Interno
2x	Alicate - Recto Externo y Curvo Externo

Referencia	Descripción
X0150	180mm, 4pcs, Bolsa Textil

Tenaza Grip Cuello Cisne CR-MO



Referencia	Descripción
XT52065	280mm

Tenaza de Ajuste Rápido CrV



Referencia	Descripción
XT51250	250mm
XT51300	300mm

Alicate CrV



Referencia	Descripción
X0181	160mm
X0182	180mm
X0183	200mm

Alicate Corte CrV



Referencia	Descripción
X0190	180mm

Alicate de Corte CrV



Referencia	Descripción
X0191	160mm

Alicate Puntas Redondeadas CrV



Referencia	Descripción
X0192	180mm

Alicate Pelacables CrV



Referencia	Descripción
X0193	180mm

Alicates de Corte CrV



Referencia	Descripción
X0187	160mm
X0188	180mm
X0189	200mm

Mini Alicate de Corte CrV



Referencia	Descripción
X0132	125mm

Mini Alicates CrV



Referencia	Descripción
X0125	125mm

Mini Alicate Corte CrV



Referencia	Descripción
X0128	125mm

Mini Alicate Puntas Largas CrV





Referencia	Descripción
X0129	125mm

Mini Alicates Forma Curva CrV





Referencia	Descripción
X0131	125mm

Mini Alicates Punta Larga CrV





Referencia	Descripción
X0126	125mm

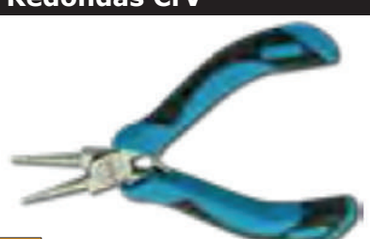
Mini Alicate Corte Frontal CrV





Referencia	Descripción
X0128	125mm

Mini Alicates Puntas Redondas CrV



Referencia	Descripción
X0130	125mm

Alicates Corta Tubos

Tijeras para un corte más fácil y rápido de tuberías de plástico.
Filo de acero Sk5 para cortar tubos de plástico.
Aplicación para corte:
Tubos de plástico: PVC, PPR, PP, PE, PEX, PB

Cambio de la cuchilla en menos de 30 segundos
Cuchilla masqueada hasta la punta
para un acceso rápido al plástico.



Referencia	Descripción
XT50106	max.ø3-42mm
XT50107	Cuchillas de recambio

Cortador de Tubos

Dos rodillos de guía templados



Retráctil para rebarbador de cuchillas



Referencia	Descripción
XT50104	3-30mm
XT50105	Cuchilla recambio

Sacabocados Profesional



Referencia	Descripción
XT50200	Mango de Goma Ergonómico Medidas: ø 2.0 2.5 3.0 3.5 4.0 4.5 mm

Tijera Cortadora Industrial









Referencia	Descripción
K17026	max.42mm
K17028	Cuchilla recambio para K17026

Tijeras Técnicas de Corte





Referencia	Descripción
XT93120	200mm, Mango de goma ergonómico Uso: textil, cuero, papel, plástico, caucho...

Grapadora Cuerpo Metálico - PRO

Grapadora profesional metálica XTline con 4 funciones de grapas clavos, etc... Cumple con la normativa TÜV que garantiza la fabricación y protocolos del mismo. Uso Versátil para todo tipo de oficios.
Dispone de un depósito para un trabajo más rápido y agil.



Referencia	Descripción
XT19179	Medida: 6-14mm

Grapadora Metal

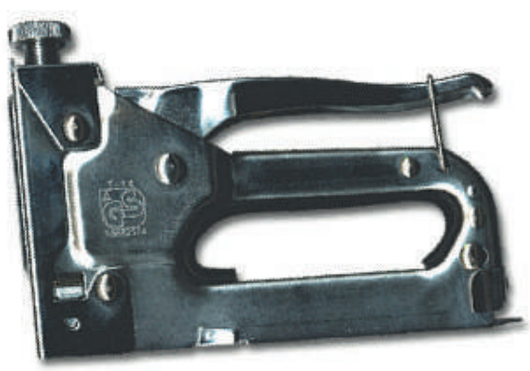
Anchos de grapa hasta 11,3mm y grosor de grapa hasta 0,7mm



Referencia	Descripción
P19170	Altura de Grapa: 4 - 6 - 8 mm

Grapadora Metal

Anchos de grapa hasta 11,3mm y grosor de grapa hasta 0,7mm



Referencia	Descripción
P19175	Altura de Grapa: 4 - 6 - 8 - 10 - 12 - 14 mm

Grapadora Cuerpo Metal/Plástico - Basic

Anchos de grapa hasta 11,3mm y grosor de grapa hasta 0,7mm



Referencia	Descripción
P19173	Altura de Grapa: 4 - 6 - 8 - 10 - 12 - 14 mm

Martillo para Grapas

Para anchos de grapa de 10,6mm; y grosor de 1,2mm



Referencia	Descripción
P19178	Grapas de: 4, 6, 8, 10, mm

Caja de Grapas 1000 Unidades MH

Para Uso con modelos: XT19179, P19178



Referencia	Descripción
P19191	8x10,2mm
P19192	10x10,2mm
P19193	12x10,2mm

Caja de Grapas 1000 Unidades

Para Uso con modelos: P19170, P19173, P19175



Referencia	Descripción
P19165	6x11,3mm
P19166	8x11,3mm
P19167	10x11,3mm
P19168	12x11,3mm
P19169	14x11,3mm

Martillo XTline



Martillo con mango de fibra de vidrio que absorve los golpe de impacto.
El agarre suave proporciona un trabajo cómodo y fácil. La cabeza del martillo esta pintada con un tratamiento que prolonga la vida útil del mismo.

Referencia	Descripción
XT030R	100g
XT031R	200g
XT032R	300g
XT0324R	400g
XT033R	500g
XT0336R	600g
XT034R	800g
XT035R	1000g
XT036R	1500g
XT037R	2000g

Martillo Basic - Honiton



Referencia	Descripción
HPL002	300g

Martillo Según DIN 1041



Referencia	Descripción
XT33001	100g
XT33002	200g
XT33003	300g
XT33004	400g
XT33005	500g
XT33006	600g
XT33008	800g
XT33010	1000g
XT33015	1500g
XT33020	2000g

Martillo Según DIN 7239



Referencia	Descripción
XT051R	600g con soporte imán

Martillo Con Ranura para Clavos



Martillo fabricado en una sola pieza de acero resistente, segun DIN 7239.
Mango ergonómico para un menor despliegue de la fuerza de impacto.
Cabeza del martillo tratada con soporte magnético para clavos.

Referencia	Descripción
P12205	600g, con soporte imán

Martillo Con Ranura para Clavos



Referencia	Descripción
XT33070	600g, con soporte imán

Martillo - Piqueta según DIN 5108



Referencia	Descripción
P12215	600g

Martillo - Piqueta según DIN 5108 Mango Fibra de Vidrio



Referencia	Descripción
XT052R	600g

Martillo Maquinista Mango Fibra de Vidrio



Referencia	Descripción
XT050R	450g

Recambios para Mazo HPA002

HONITON PROFESSIONAL TOOLS



Referencia	Descripción
HPA003	ø 32mm, nylon
HPA004	ø 32mm, PU

Mazo de Goma Blanco - Basic

STAVTOOL



Referencia	Descripción
P12615B	ø 55mm
P12616B	ø 65mm
P12626B	ø 75mm

Mazo de Goma Negro - Basic

STAVTOOL



Referencia	Descripción
P12615	ø 55mm
P12616	ø 65mm
P12626	ø 75mm

Mazo de Goma



Referencia	Descripción
XT046R	ø 55mm
XT047R	ø 65mm
XT048R	ø 75mm

Mazo de Goma

HONITON PROFESSIONAL TOOLS



Referencia	Descripción
HPA002	ø32mm

Maza DIN 6475 - Mango Fibra de Vidrio



Referencia	Descripción
XT056R	1000g
XT057R	1250g
XT058R	1500g
XT059R	2000g

Maza DIN 6475 - Mango Fibra de Vidrio







Referencia	Descripción
XT33039	1000g
XT33040	1250g
XT33041	1500g
XT33042	2000g

Maza DIN 6475 - Mango Fibra de Vidrio







Referencia	Descripción
XT060R	3000g
XT061R	4000g
XT062R	5000g
XT063R	6000g

Maza DIN 1041 - Mango de Madera



Referencia	Descripción
XT33043	3000g
XT33044	4000g
XT33045	5000g
XT33046	6000g

Hacha - Mango Fibra de Vidrio



Hacha con mango de fibra para evitar lesiones y deslizamientos.
Además absorbe los golpes con lo que el impacto es menor.
Cabezal de una sola pieza de acero recubierto con pintura especial tratada para anti-corrosión
Alta calidad del material fabricado según norma DIN5131

Referencia	Descripción
XT040R	600g
XT041R	800g
XT042R	1000g
XT043R	1250g
XT044R	1500g

Hacha Mini según DIN 5131



Referencia	Descripción
XT068R	500g, L 250mm

Hacha - Martillo según DIN 5131 - Man



Referencia	Descripción
XT064R	2500g
XT064R	4000g

Hacha con Cuña según DIN 5131 - Man



Referencia	Descripción
XT066R	1000g

Hacha con Cuña según DIN 5131 - Man



Referencia	Descripción
XT067R	2200g

Hacha con Mango de Madera DIN 5131



Referencia	Descripción
XT33026	600g
XT33028	800g
XT33030	1000g
XT33032	1250g
XT33035	1400g
XT33058	2000g



El Equilibrio perfecto entre el mango y la cabeza hace que garantiza un óptimo centrado de la hacha y aumente la velocidad y ligereza a la hora de usarla dia a dia. También aumenta la fuerza.

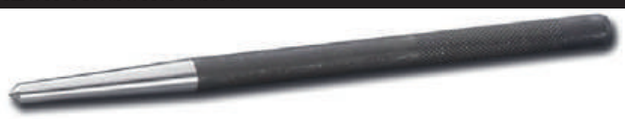
Referencia	Descripción
XT00640	600g/360mm
XT00900	900g/450mm

Punzón



Referencia	Descripción
HPP103	3x8x150mmv
HPP104	4x10x190mm
HPP105	5x10x200mm

Punzón Redondeado



Referencia	Descripción
HPP106	6x10x185mm

Punzón Cónico



Referencia	Descripción
HPT106	6x175mm
HPT108	8x185mm

Punzón Plano



Referencia	Descripción
HPP115	15x12x180mm

Punzón Cruzado



Referencia	Descripción
HCC-105	5x160mm

Juegos de Botadores



Referencia	Descripción
PA234102	6pcs, Caja de Metal - Medidas: 2,3,4,5,6,8

Barra de uña



Barra extractora de 600 y 700 mm de longitud de acero endurecido. Resistente a la abrasión y corrosión. Ideal para clavos, ganchos, etc... Con palanca de apriete y ergonomía cómoda.

Referencia	Descripción
P19811	600mm
P19812	750mm

Barra de Uña Mini



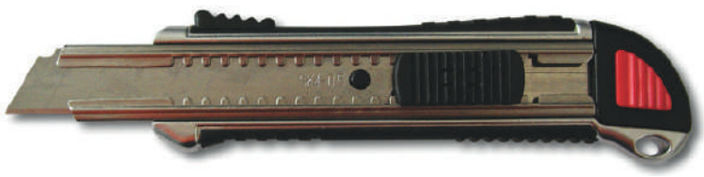
Referencia	Descripción
P19805	300mm

Cincel



Referencia	Descripción
P19855	200x23x13mm
P19856	250x23x13mm
P19857	300x23x13mm

Cutter 07G-L5



Referencia	Descripción
P19150	18mm 07G-L5, +5 pcs cuchillas

Cutter - Con Ruleta 50-L1



Cutter de cuerpo de goma con refuerzo de metal para uso profesional. Dispone de una tuerca de bloqueo para fijar la cuchilla y asi poder garantizar un trabajo seguro.

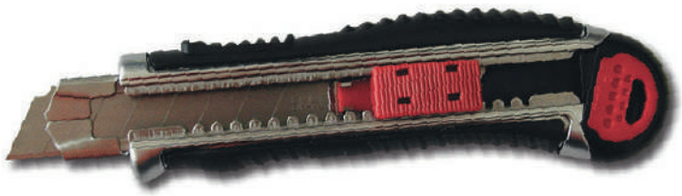
Referencia	Descripción
XT19148	18mm

Cutter - Con Ruleta 49G-L1



Referencia	Descripción
XT19149	18mm

Cutter



Referencia	Descripción
P19151	9mm 07G-S5 + 5pcs cuchillas
P19160	25mm 21G-H1 + 5pcs cuchillas

Cutter



Referencia	Descripción
PA222634	18mm

Cutter



Referencia	Descripción
P18803	10 pcs, Superficie Diamantada

Cutter - Basic

STAVTOOL



Referencia	Descripción
P19107	18mm

Cutter 15G-L5



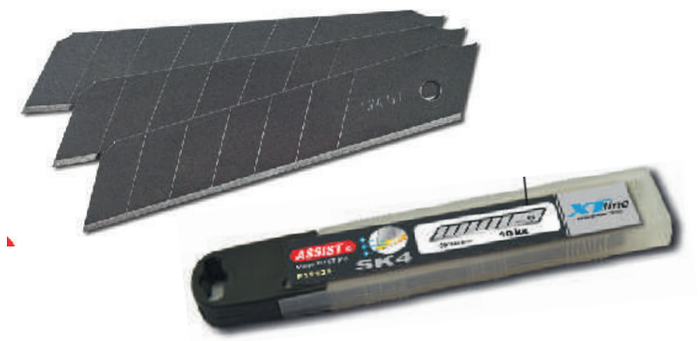
Referencia	Descripción
P19143	18mm + 3 cuchillas

Cutter



Referencia	Descripción
P19144	18mm + 3 cuchillas

Cuchillas de Recambio para Cutter



Referencia	Descripción
P19122	9mm(10pcs) SK4
P19124	18mm L100 (10pcs) SK4
P19145	18mm L100 (10pcs) SK2
P107028	25mm H126 10pcs SK4

Sierra de Mano - 300mm



Referencia	Descripción
P11715	300mm, Mango PVC

Rascador Vidrio

Rascador para uso en cerámicas, y otras superficies.
Mango ergonómico de plástico duro y goma.
Cambio rápido y fácil de la cuchilla



Referencia	Descripción
XT19142	Rascador
XT19143	Pack 5 cuchillas de recambio

Cuchillas de Recambio para Cutter



Referencia	Descripción
P19146	18mm L100 (10ks) SK4

Cuchillas de Recambio para Cutter



Referencia	Descripción
XT19147	18mm L-100A

Sierra tipo serrucho

Sierra tipo serrucho. Mango Ergonómico para un fácil uso.



Referencia	Descripción
P11926	400mm
P11928	450mm
P11930	500mm

Sierras de Recambio 300mm HSS-Co 24TPI



Referencia	Descripción
XT360000	300mm

Lima Entrefina - Rectangular



Referencia	Descripción
XT180241	200mm
XT180341	250mm

Lima Entrefina - Cuadrada



Referencia	Descripción
XT180242	200mm
XT180342	250mm

Lima Entrefina - Triangular



Referencia	Descripción
XT180243	200mm
XT180343	250mm

Lima Entrefina - Redonda



Referencia	Descripción
XT180244	200mm
XT180344	250mm

Lima Entrefina - Media Caña



Referencia	Descripción
XT180245	200mm
XT180345	250mm

Juego de Limas Entrefinas



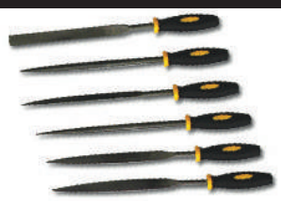
Referencia	Descripción
XT180264	200mm - 3 und - Retangular, Media caña, Redonda
XT180266	200mm - 5 und

Juego de Limas Diamantadas



Referencia	Descripción
P18803	10 pcs, Superficie Diamantada

Juego de Limas



Referencia	Descripción
P18801	140mm, 6pcs

Lima de Madera - Rectangular



Referencia	Descripción
XT180246	200mm
XT180346	250mm

Lima de Madera - Media Caña



Referencia	Descripción
XT180247	200mm
XT180347	250mm

Lima de Madera - Redonda



Referencia	Descripción
XT180248	200mm
XT180348	250mm

Juegos de Limas - Madera



Referencia	Descripción
XT180265	200mm - 3 und

Pinzas de Plástico Gran Apriete y Ajustego. Fibra de Vidrio



Referencia	Descripción
XT140250	150mm
XT140300	300mm
XT140450	450mm
XT140600	600mm
XT140900	900mm

Pinzas de Plástico Gran Apriete y Ajuste



Referencia	Descripción
XT140075	70mm
XT140100	100mm
XT140150	150mm
XT140228	228mm

Pinza de Apriete



Referencia	Descripción
XT140230	160mm
XT140235	225mm

Pinzas de Apriete Metálicas



Referencia	Descripción
P18254	100mm
P18256	150mm

Sargentos



Referencia	Descripción
XT100050	100x50mm
XT150050	150x50mm
XT200050	200x50mm
XT250050	250x50mm
XT300050	300x50mm

Sargentos



Referencia	Descripción
XT300120	300x120mm
XT500120	500x120mm
XT300120	800x120mm

Sargento tipo G



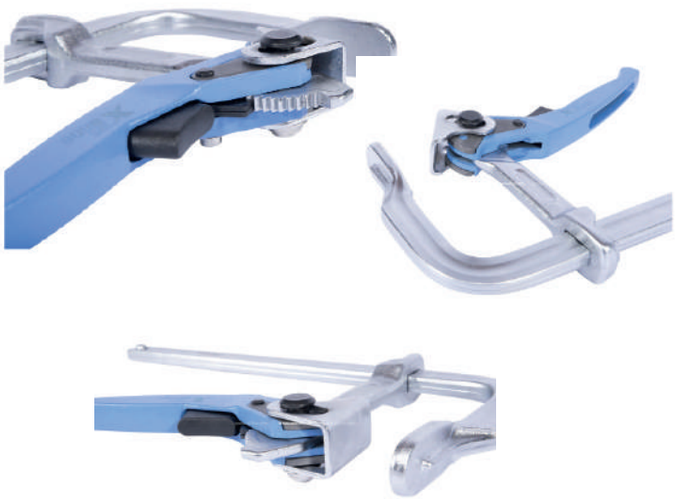
Referencia	Descripción
XT141050	50mm
XT141075	75mm
XT141100	100mm

Sargentos de rápido apriete

El sargento de liberación rápida está hecha de acero de alta calidad, la superficie de la abrazadera está galvanizada.
La principal ventaja es una mayor reserva de energía, gracias al perfil de carril optimizado para una tensión uniforme, especialmente en el uso máximo del rango de sujeción.



Referencia	Descripción
XT150200	200X100mm
XT150250	250x100mm
XT150300	300x120mm
XT150400	400x120mm
XT150500	500x120mm
XT150600	600x120mm
XT150800	800x120mm
XT151000	1000X120mm



Tenaza de Ajuste Rápido CrV



Referencia	Descripción
XT50250	250mm, PVC Mango
XT50300	300mm, PVC Mango

Tenaza de Ajuste Rápido



Referencia	Descripción
XT53250	250mm
XT50107	300mm

Alicate Pelacables



Referencia	Descripción
XT50165	165mm

Alicate para Terminales



Referencia	Descripción
XT50215	215mm

Alicate para Terminales



Referencia	Descripción
P17513	Mango de goma ergonómico Medidas de corte: ø 0.6 1.2 1.7 2.2 mm

Cizalla Cortadora CrV



Referencia	Descripción
XT50819	450 mm, max. ø Acero 6mm
XT50824	600mm, max ø Acero 8mm
XT50830	750mm, max. ø Acero 10mm
XT50836	900 mm, max. ø Acero 12mm

Tenaza de Ajuste Rápido CrV



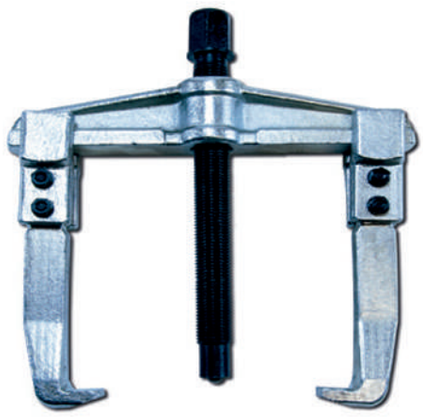
Referencia	Descripción
X0260	250mm, PVC Mango
X0300	300mm, PVC Mango

Extractor de 3 Patas



Referencia	Descripción
XT15712	150mm

Extractor de 2 Patas



Referencia	Descripción
P19781	D 80mm, L 100mm
P19782	D 120mm, L 100mm
P19783	D 150mm, L 150mm

Extractor de 3 Patas



Referencia	Descripción
P19779	D 55mm, L 65mm
P19784	D 60mm, L 90mm
P19786	D 65mm, L 130mm
P19788	D 75mm, L 180mm

Extractor de 3 Patas



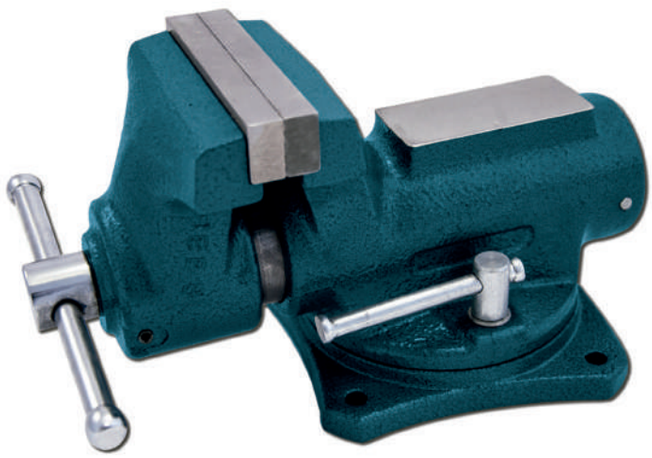
Referencia	Descripción
XT15130	D 130mm, L 100 mm
XT15160	D 160mm, L150 mm
XT15200	D 200mm, L 150 mm

Extractor de 2 Patas



Referencia	Descripción
P19760	D 75mm, L 65mm
P19761	D 75mm, L 90mm
P19762	D 85mm, L 130mm
P19763	D 85mm, L 180mm

Tornillo de Banco







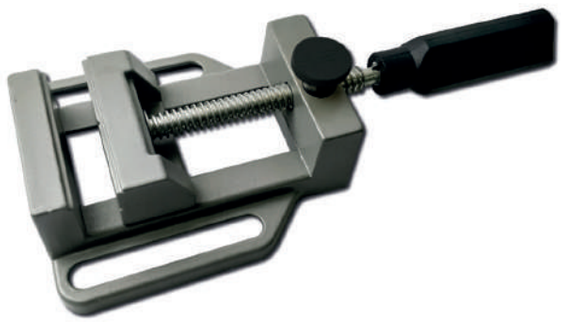
Referencia	Descripción
XT19100	100mm
XT19125	125mm
XT19150	150mm

Tornillo de Banco - Amarre inferior



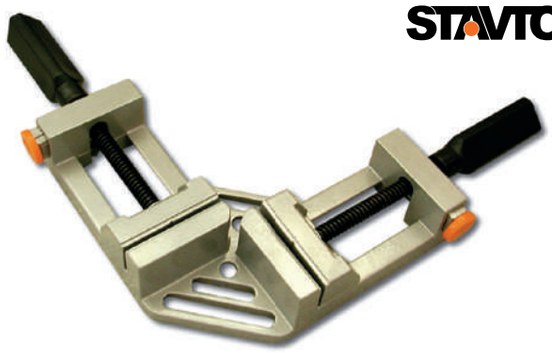
Referencia	Descripción
P19220	50mm
P19225	60mm

Mordaza Manual



Referencia	Descripción
XT106140	75mm

Mordaza Apriete Ángulo



Referencia	Descripción
PA23335	65mm

Ángulos mangéticos

Los soportes magnéticos se utilizan para colocar y fijar objetos metálicos durante los procesos de soldadira. Libera ambas manos para poder enfocarse completamente en el proceso de la soldadura.
El imán se puede colocar a 45º-90º-135º y se pueden usar múltiples imanes para la construcción de la pieza a realizar. Los ángulos magnéticos atraen los materiales níquel, cobalto, hierro o aleaciones que contentan este tipo de composición. No pueden usarse con materiales como el aluminio o metales no magéticos.

Ángulo magnético triangular



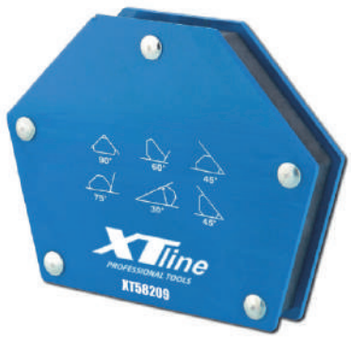
Referencia	Descripción
XT58008	80x80mm
XT58009	90x90mm
XT58012	120x120mm

Ángulo magnético con interruptor



Referencia	Descripción
XT58109	95x110x25mm
XT58113	130x152x28mm

Ángulo magnético Hexagonal



Referencia	Descripción
XT58209	95x64mm
XT58210	110x90mm
XT58213	135x105mm

Caja de Herramientas

Caja de herramientas profesional de Acero inoxidable-plástico.
Fuerte y duradera con alta capacidad de carga de hasta 100Kg
Cierres metálicos con posibilidad de incorporar candado de seguridad.



Referencia	Descripción
XT90000	470x238x203mm
XT90001	582x298x255mm
XT90002V1	Set: XT90000 + XT90001

Caja de herramientas metálica



Referencia	Descripción
PA78749	466x210x170mm - 3 bandejas vacías

Caja de herramientas metálica



Referencia	Descripción
PA78750	466x232x210mm - 5 bandejas vacías

Caja de herramientas metálica



Referencia	Descripción
PA78733	404x200x150mm - 3 bandejas vacías

Caja de herramientas metálica



Referencia	Descripción
PA78745	404x200x150mm - 5 bandejas vacías

Caja de herramientas metálica



Referencia	Descripción
PA78735	495x290x200mm - 5 bandejas vacías

Bolsa textil para herramientas



Referencia	Descripción
XT90055	405x230x290mm

Organizador/Separador para cajas XTLINE, S y M

Referencia
XT90009-1



Organizador/Separador para cajas XTLINE, L

Referencia
XT90009-2



Bloque de espuma para base de caja

Referencia
XT90009-3



Cierres de plástico para Cajas

Referencia
XT90009-4



Maletines - Cajoneras de plástico para almacenaje



PB13101



PB13149



PB13150



PB13106



PB13152

Referencia	Descripción
PB13106	Modulo de cajones modulares con 10 cajones. Tamaño: 156 x 100 x 225
PB13101	Fabricado en plástico endurecido con recubrimiento en foam. Tamaño: 400 x 320 x 180

Organizador de herramientas Domino

Referencia	Descripción
PB13149	8 Compartimentos - 190 x 155 x 37
PB13150	12 Compartimentos - 250 x 200 x 44
PB13151	22 Compartimentos - 325 x 260 x 65
PB13152	22 Compartimentos - 364 x 268 x 66
PB13153	28 Compartimentos - 450 x 340 x 68

Panel perforado

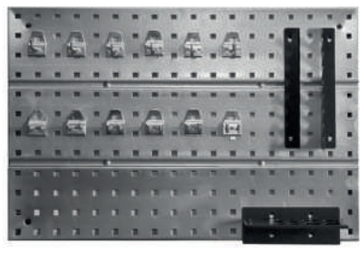
Posibilidad de ponerlo horizontal o vertical.
Incorpora 15 Accesorios de amarre.
Posibilidad de mayores dimensiones.
Acoplable entre equipos para un mayor tamaño

Referencia	Descripción
PB11300	Dimensiones: 385 x 575

Estuche ToolBox Stuff



Referencia	Descripción
PB13110	Dimensiones: 415x226x181
PB13111	Dimensiones: 525x256x225



Carro-Caja Organizadora

Toolstation, Carro-Caja Organizadora de 3 alturas con ruedas.



Referencia	Descripción
XT90003	Conjunto Caja S-M-L + Bandeja Superior y Ruedas

Trolley HD Compact



Referencia	Descripción
PB1300	4 Estuches Organizadores y 4 Gavetas Medida Exterior: 495x360x710 Medida Interior: 360x315x275

Caja Organizadora de Herramientas - S



Referencia	Descripción
XT90004	443x310x128mm - Apilables

Caja Organizadora de Herramientas - M



Referencia	Descripción
XT90005	443x310x151mm - Apilables

Caja Organizadora de Herramientas - L



Referencia	Descripción
XT90006	443x310x248mm - Apilables

Gaveta Negra de alta resistencia



Referencia	Descripción
PBERG2	Gaveta Ergobox 2 - 116 x 161 x 75
PBERG2L	Gaveta Ergobox 2L - 116 x 212 x 75
PBERG3	Gaveta Ergobox 3 - 170 x 240 x 126
PBERG4	Gaveta Ergobox 4 - 204 x 340 x 165
PBERG5	Gaveta Ergobox 5 - 333 x 500 x 187

Gaveta Modulbox Negra



Referencia	Descripción
PBMOD21	Gaveta Modulbox 2.1 - 150 x 230 x 75
PBMOD31	Gaveta Modulbox 3.1 - 170 x 240 x 126
PBMOD41	Gaveta Modulbox 4.1 - 170 x 240 x 126

Bolsa para herramientas





Referencia	Descripción
XT90065	460x350x200mm - Mochila para herramientas
XT90070	500X250X360mm - Maletín para herramientas







Referencia	Descripción
XT90055	405x230x290mm - Maleta para herramientas

Bolsa para herramientas

- 490x230x280mm
- 31 Compartimentos
- Asa tipo bandolera
- Asa de metal rígida
- Capacidad: 15kg
- Material: Nylon



Referencia	Descripción
XT90050	610x270x400mm - Suministrado sin herramientas

Bolsa para herramientas





Referencia	Descripción
XT90020	240X90mm - Suministrado sin herramientas

Bolsa para herramientas





Referencia	Descripción
XT90010	280X160mm Suministrado sin herramientas

Bolsa para herramientas



Referencia	Descripción
XT90030	300x250mm - Suministrado sin herramientas

Bolsa para herramientas

Bolsa de Herramientas, adecuado para el transporte y almacenamiento de todo tipo de herramientas.
Materiales de calidad con bolsillos interiores y exterior acolchado.
Mango telescópico y ruedas

- 670x300x310mm
- 13 compartimentos
- 2 ruedas de transporte
- Asa tipo bandolera
- Mango telescópico
- Material: Nylon







Referencia	Descripción
XT90060	670x300x310mm Suministrado sin herramientas

Gorro de protección con Luz - 3.7V

Referencia	Descripción
XT60081C	Gorro con luz color Negro
XT60081M	Gorro con luz color Azul
XT60081S	Gorro con luz color Gris

Bolsa textil para herramientas



Referencia	Descripción
XT90055	405x230x290mm - Suministrado vacío

Cinturón de cambio rápido



Referencia	Descripción
XT90040	Tamaño: 120x6cm

Bolsa para herramientas



Referencia	Descripción
XT90045	180x110x260mm - Suministrado sin herramientas



Bridas de plástico blancas



Referencia	Descripción
XT901225	120x2.5mm, 50pcs/pack
XT902036	200x3.6mm, 50pcs/pack
XT902536	250x3.6mm, 50pcs/pack
XT902548	250x4.8mm, 50pcs/pack
XT903048	300x4.8mm, 50pcs/pack
XT904048	400x4.8mm, 50pcs/pack
XT905048	500x4.8mm, 50pcs/pack
XT904076	400x7.6mm, 50pcs/pack
XT905076	500x7.6mm, 50pcs/pack

Bridas de plástico negras



Referencia	Descripción
XT921225	120x2.5mm, 50pcs/pack
XT922036	200x3.6mm, 50pcs/pack
XT922536	250x3.6mm, 50pcs/pack
XT922548	250x4.8mm, 50pcs/pack
XT923048	300x4.8mm, 50pcs/pack
XT924048	400x4.8mm, 50pcs/pack
XT925048	500x4.8mm, 50pcs/pack
XT924076	400x7.6mm, 50pcs/pack
XT925076	500x7.6mm, 50pcs/pack

Luz de Trabajo COB LED 2W

- Luminancia of 160 lúmenes
- Batería de Lítio 3,7V 1500MAh
- Cargador 230V+12V car charger
- Soporte Magnético y Gancho
- Cargador incluido
- Tiempo de carga 6-7 horas
- Duración 6 horas
- Dimensiones 33x5x5,5cm, Peso 265g
- Diseño Profesional



Referencia	Descripción
XT60071	En Blíster individual

Luz de Trabajo 2W COB + 3xLED

- Luminancia de 250 lúmenes LED COBALT 3W
- Dimensiones 25x4x5cm, Peso 260g
- Luz Frontal LED DIOD 5 x 1W
- Cargador: 230V+12V para coche
- Soporte Magnético 3x, Gancho 2x
- Tiempo de carga 5-6 horas
- Batería Lítio 3,7V 2400MAh
- Indicador de carga
- Duración 6 horas
- Giro de 180°



Referencia	Descripción
XT60037	En Blíster individual

Luz de Trabajo LED - 1x1W

- Luminancia de 160 lúmenes
- Batería Lítio 3,7V 1500MAh
- Cargador 230V+12V para coche
- Soporte Imán y Gancho
- Dimensiones 33x5x5,5cm, Peso 265g
- Indicador de carga
- Tiempo de carga 6-7 horas
- Duración 6 horas
- Perfil Muy fino.



Referencia	Descripción
XT60036	En Blíster individual

Luz de Trabajo COB LED 2W + 1xLED 1W

- Luminancia de 200 lúmenes
- Luz Frontal LED DIODY 1W
- Batería Lítio 3,7V 2000MAh
- Cargador: 230V+12V para coche + USB
- Soporte Imán y Gancho
- Bloque Articulado para posicionar
- Indicador de carga
- Tiempo de carga 5-6 horas
- Duración 3 horas
- Dimensiones 23x4x5,5cm
- Peso: 210gr

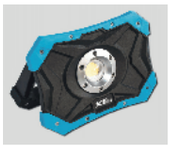


Referencia	Descripción
XT60064	En Blíster individual

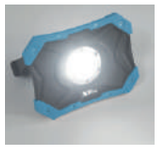
Luz de Trabajo Portable - 20W COB LED

Alta potencia 20W COB LED es capaz de funcionar hasta 6 horas con 1500 lúmenes. El Puerto USB incoporado de 5V proporciona suficiente energía para cargar un teléfono movil. El Robusto reflector de luz tiene protección IP44. El diseño moderno y sencillo garantiza una larga vida útil. Incorpora un soporte de imán para la sujeción en zonas férricas.

- Luminosidad 1500 lúmenes
- LED COBALT 20W
- Cargador Batería: 230/12V - Batería 3,7V 6600mAh Li-Ion
- Protection IP 44







Referencia	Descripción
XT60113	En Caja individual

Luz de Trabajo COB LED 3W +1xLED 1W

- Luminancia de 250 lúmenes LED COBALT 3W
- Luz Frontal LED DIODY 1W
- Batería Lítio 3,7V 2400MAh
- Cargador: 230V+12V USB
- Alimentación via Micro USB
- Soporte Magnético 3x, Gancho 2x
- Giro de 180°
- Indicador de carga
- Tiempo de carga 5-6 horas
- Duración 6 horas
- Dimensiones 26x4x5,5cm, Peso 340g
- Cuerpo de Goma



Referencia	Descripción
XT60080	En Blíster individual



Lampara de Trabajo COB LED + 1 x LED 1W

- Luminancia de 200 lúmenes LED COBALT 2W
- Luz Frontal LED DIODY 1W
- Batería: 3xAA
- Soporte magnético y de gancho
- Equipo con articulación
- Duración 3 horas
- Dimensiones 23x4x5,5cm, Peso 210g





Referencia	Descripción
XT60063	En Blíster individual

Lampara de Trabajo LED COBALT 2W

- Luminancia de 150 lúmenes
- Soporte magnético y de gancho
- Baterías: 3xAA
- Dimensiones 20x2x6cm, Peso 153g





Referencia	Descripción
XT60065	En Blíster individual

Lampara de Trabajo LED COB 1W + 3 LED

- Soporte magnético y de gancho.
- Baterías Incluidas: 3xAAA







Referencia	Descripción
XT60057	En Blíster individual

Lampara de Trabajo LED COB 1W + 3 LED

- Soporte magnético y de gancho.
- Baterías Incluidas: 3xAAA







Referencia	Descripción
XT60058	En Blíster individual

Lampara de Trabajo Tubular



Referencia	Descripción
XT60043	230V/50Hz 48 SMD LED

Lampara de Trabajo Tubular



Referencia	Descripción
XT60047	230V/50Hz 16 SMD LED

Luz de Trabajo COB LED 1W







- Batería de Lítio 3,7V 1000MAh
- Cargador: USB
- Soporte Magnético
- Cargador incluido
- Tiempo de carga 3 horas
- Duración 3 horas
- Dimensiones 16x2,5x3cm, Peso 60g
- Diseño Profesional

Referencia	Descripción
XT60069	En Blíster individual

Cargador de Batería - 6V/12V 3.6Amp

- Corriente de Carga (6V) [A] 3,6A
- Corriente de Carga (12V) [A] 3,6A
- Capacidad Batería desde [Ah] 1,2Ah
- Capacidad Batería desde [Ah] 120Ah
- Estado de carga de batería mediante indicador LED: (25%, 50%, 75%, 100%)
- Peso 0,5 kg
- Protection IP20
- Dimensiones:260 x 70 x 45mm



Referencia	Descripción
XT60136	6V/12V; 3,6Amp

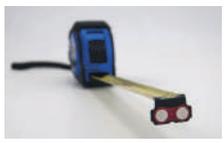
Flexómetro con Tope Imantado

- Cinta de acero al carbono
- Gacho cromado y remaches ajustados
- Recubrimiento de Nylon
- Chasis exterior ABS
- Alta resistencia

ASSIST® Made by ASSIST







Referencia	Descripción
P13083	3m/19mm 71G
P13085	5m/25mm 71G
P13088	8m/25mm 71G

Flexómetro con Tope Imantado

ASSIST® Made by ASSIST







Referencia	Descripción
P13075	5m x 19mm
P13077	7,5m x 25mm

Flexómetro

ASSIST® Made by ASSIST



Referencia	Descripción
P13012	2m x 16mm
P13013	3m x 16mm
P13015	5m x 19mm
P13017	7,5m x 25mm
P13019	10m x 25mm

Flexómetro

ASSIST®
Made by ASSIST



Referencia	Descripción
P13052	2m x 16mm
P13053	3m x 16mm
P13055	5m x 19mm
P13057	7,5m x 25mm
P13060	10m x 25mm

Flexómetro

ASSIST®
Made by ASSIST



Referencia	Descripción
P13102	2m x 16mm
P13103	3m x 16mm
P13105	5m x 19mm
P13107	7,5m x 25mm
P13110	10m x 25mm

Flexómetro con Tope Imantado

ASSIST®
Made by ASSIST



Referencia	Descripción
P13303	3m x 10mm
P13305	5m x 19mm
P13307	7,5m x 25mm
P13310	10m x 25mm

Cinta Métrica de Fibra de Vidrio



Referencia	Descripción
P13063	30m x 13mm
P13065	50m x 13mm

Flexómetro con Tope Imantado

ASSIST®
Made by ASSIST



Referencia	Descripción
P13152	2m x 16mm
P13153	3m x 16mm
P13154	5m x 19mm
P13158	7,5m x 25mm
P13160	10m x 25mm

Cintas de señalización



Referencia	Descripción
P108119	Cinta balizamiento Rojo/Blanco - 75mm x 250m
ZN38947	Cinta adhesiva de señalización Negro/Amarillo 50mmx20m
P108119	Cinta Adhesiva transparente

Alicates para Remachar

Para medidas: 2,4; 3,2; 4,0; 4,8mm







Referencia	Descripción
XT0902	190mm, Caja de Cartón

Alicates para Remachar - PRO



Referencia	Descripción
XT080	Para Remaches de Aluminio, Cobre, Inoxidable Medidas: ø2.4 3.2 4.0 4.8

Alicates para Remachar GS/TUV



Referencia	Descripción
P17516	Remaches de Aluminio - Cobre ø2.4 - 3.2 - 4.0 - 4.8

Alicates para Remachar - Basic



Referencia	Descripción
P17520	Remaches de Aluminio - Cobre ø2.4 3.2 4.0 4.8

Alicates para Remachar



Referencia	Descripción
P17521	Remaches - Aluminio, Cobre ø2.4 3.2 4.0 4.8

Remaches de Aluminio - Bolsa 50pcs



Referencia	Descripción
P17523	3,2x10,0mm
P17524	4,0x10,0mm
P17525	4,8x10,0mm
P17526	4,0x 6,4mm
P17527	4,0x12,7mm
P17528	3,2x12,7mm
P17529	4,8x12,7mm

Broca Construcción SDS Plus

Diseñada para perforar todo tipo de ladrillos, granitos, hormigón, etc... Hélice de corte rápido con una inclinación del 28%
El Cabezal extra corto permite una extracción directa y rápida del material perforado evitando una obstrucción de la broca y su rotura.
Ángulos de corte agresivos que permite un rápido y cómodo trabajo





Código	Descripción
XT70411	5x110mm
XT70416	5x160mm
XT70421	5x210mm
XT70511	5,5x110mm
XT70516	5,5x160mm
XT70521	5,5x210mm
XT70526	5,5x260mm
XT70610	6x110mm
XT70616	6x160mm
XT70621	6x210mm
XT70626	6x260mm
XT70631	6x310mm
XT70716	6,5x160mm
XT70721	6,5x210mm
XT70726	6,5x260mm
XT70731	6,5x310mm
XT70811	8x110mm
XT70816	8x160mm
XT70821	8x210mm
XT70826	8x260mm
XT70831	8x310mm
XT70845	8x460mm
XT71016	10x160mm
XT71021	10x210mm
XT71026	10x260mm
XT71031	10x310mm
XT71035	10x350mm
XT71045	10x450mm
XT71060	10x600mm
XT71100	10x1000mm
XT71216	12x160mm
XT71221	12x210mm
XT71226	12x260mm
XT71231	12x310mm
XT71235	12x350mm
XT71245	12x460mm

Código	Descripción
XT71260	12x600mm
XT71210	12x1000mm
XT71421	14x210mm
XT71426	14x260mm
XT71435	14x360mm
XT71445	14x450mm
XT71460	14x600mm
XT71491	14x1000mm
XT71621	16x210mm
XT71626	16x260mm
XT71635	16x350mm
XT71645	16x460mm
XT71660	16x600mm
XT71691	16x1000mm
XT71821	18x210mm
XT71826	18x260mm
XT71835	18x350mm
XT71845	18x460mm
XT71860	18x600mm
XT71891	18x1000mm
XT72045	20x460mm
XT72060	20x600mm
XT72091	20x1000mm
XT72245	22x450mm
XT72260	22x600mm
XT72100	22x1000mm
XT72445	24x450mm
XT72460	24x600mm
XT72491	24x1000mm
XT72645	26x450mm
XT72660	26x600mm
XT72691	26x1000mm
XT72860	28x600mm
XT72891	28x1000mm
XT73060	30x600mm
XT73100	30x1000mm

Set de Brocas de Construcción 5 Pcs



Referencia	Descripción
XT70600	5x110,6x110,8x160,10x160,12x160mm

Broca SDS MAX, 4 puntas

Diseñado para perforar ladrillos, bloques, mampostería, hormigón y granito. Helix aumentó en un 28% con una eliminación muy rápida de la pulpa perforada. Cabezal de perforación extra corto es una garantía de descarga directa del material perforado en la hélice y un riesgo reducido de obstrucción. Punta autocentrante para facilitar el inicio de la perforación. Ángulos de corte más agresivos para una perforación más rápida.



Código	Descripción
XT81234	12x340mm
XT81434	14x340mm
XT81534	15x340mm
XT81634	16x340mm
XT81834	18x340mm
XT82034	20x340mm
XT82234	22x340mm
XT82434	24x340mm
XT82534	25x340mm
XT82837	28x370mm
XT83037	30x370mm
XT83237	32x370mm
XT83537	35x370mm
XT83837	38x370mm
XT84037	40x370mm
XT81254	12x540mm
XT81454	14x540mm
XT81554	15x540mm
XT81654	16x540mm
XT81854	18x540mm
XT82054	20x540mm
XT82254	22x540mm
XT82454	24x540mm
XT82554	25x540mm
XT82857	28x570mm
XT83057	30x570mm
XT83237	32x570mm
XT83557	35x570mm
XT83857	38x570mm
XT84057	40x570mm
XT81891	18x1000mm
XT82091	20x1000mm
XT82291	22x1000mm
XT82591	25x1000mm
XT82891	28x1000mm
XT83091	30x1000mm
XT83291	32x1000mm
XT83591	35x1000mm
XT83891	38x1000mm
XT84091	40x1000mm

Fresa de Diamante

Uso: baldosas, pavimentos; para amoladoras angulares





Código	Descripción
XT170006	ø 6mm, M14
XT170008	ø 8mm, M14
XT170010	ø 10mm, M14
XT170012	ø 12mm, M14
XT170016	ø 16mm, M14
XT170020	ø 20mm, M14
XT170025	ø 25mm, M14
XT170030	ø 30mm, M14
XT170035	ø 35mm, M14
XT170045	ø 45mm, M14
XT170050	ø 50mm, M14
XT170055	ø 55mm, M14
XT170068	ø 68mm M14
XT170073	ø 73mm M14
XT170082	ø 82mm M14
XT170083	ø 83mm M14

Set de fresa de Diamante (8 piezas)

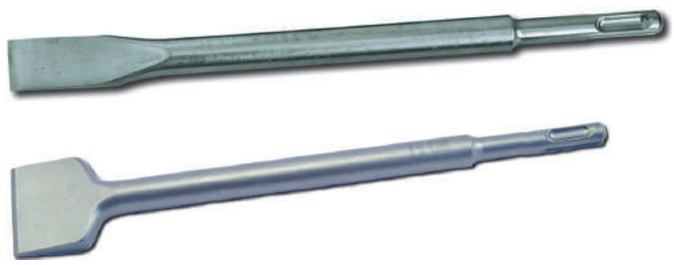
Uso: azulejos, baldosas; para amoladoras angulares
Dimensiones: 6,8,10,20,30,35,50,68 mm



Referencia	Descripción
XT1700000	Set 8 piezas - 6-68 mm M14

Cincel SDS plus, SDS max

Diseñado para trabajar con mampostería, hormigón y otros materiales de construcción
Para herramientas SDS + y SDS MAX de todo tipo, largo y ancho.
Larga vida útil gracias al acero para herramientas.
Diseñado para demolición, tallado, pinchazos, etc.



Código	Descripción
XT1725020	14x250x20mm SDSplus
XT1725040	14x250x40mm SDSplus
XT1740020	14x400x20mm SDSplus
XT1740040	14x400x40mm SDSplus

Cincel plano SDS max



Código	Descripción
XT1828025	18x280x25mm SDSmax
XT1828040	18x280x40mm SDSmax
XT1840025	18x400x25mm SDSmax
XT1840040	18x400x40mm SDSmax
XT1860025	18x600x25mm SDSmax
XT1860040	18x600x40mm SDSmax

Cincel puntiagudo SDS plus



Código	Descripción
XT1725000	14x250mm SDSplus
XT1740000	14x400mm SDSplus

Cincel puntiagudo SDS max



Código	Descripción
XT1828000	18x280mm SDSmax
XT1840000	18x400mm SDSmax
XT1860000	18x600mm SDSmax

Soporte para Amoladora

Referencia	Descripción
XT105415	Para Modelos de: ø115/125/150mm



Soporte para Amoladora

Referencia	Descripción
XT105430	Para Modelos de: ø180/230mm



Soporte para Taladro

Referencia	Descripción
XT106135	Amarre ø43mm





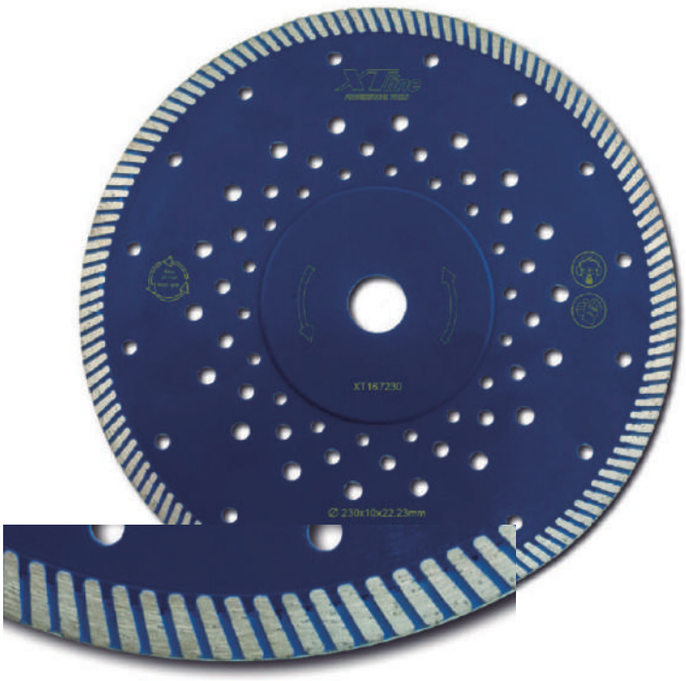
Números y Letras de Marcado

Referencia	Descripción
P19764	Letras 4 mm
P19766	Letras 6 mm
P19768	Letras 8 mm
P19774	Números 4 mm
P19776	Números 6 mm
P19778	Números 8 mm



Disco de Diamante TURBO LASER

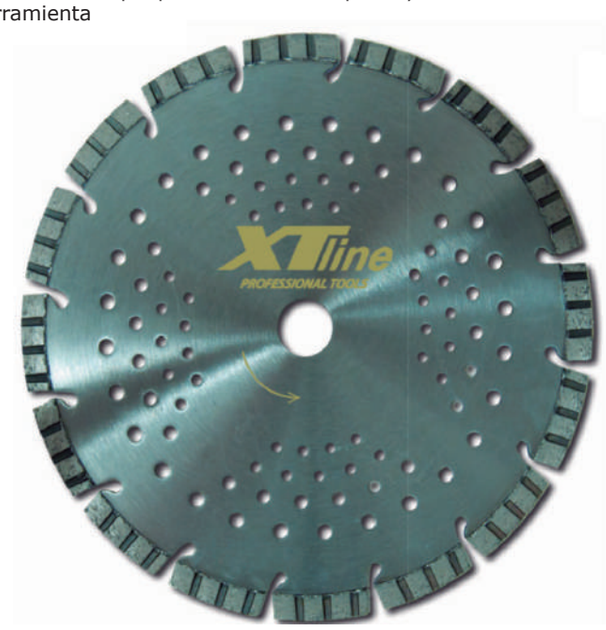
Disco de diamante turbo para corte en seco y húmedo de hormigón hormigón armado, piedra, ladrillo, cerámica, etc...
La forma del disco y su fabricación permite un corte rápido y eficaz



Referencia	Descripción
XT167115	115x10x22,2
XT167125	125x10x22,2
XT167150	150x10x22,2
XT167230	230x10x22,2

Disco de Diamante Segmentado TURBO LASER

Disco de diamante segmentado para corte en hormigón seco, húmedo o reforzado además de piedra, ladrillo, baldosas, azulejos, etc...
Diseño de cuchilla que permiten cortes rápidos y alta vida a la herramienta



Referencia	Descripción
XT165115	115x2,2x22,2
XT165125	125x2,2x22,2
XT165150	150x2,3x22,2
XT165180	180x2,4x22,2
XT165230	230x2,8x22,2

Disco de Diamante TURBO

Disco de diamanteturbo para corte en seco y húmedo de todo tipo de hormigón, piedra, ladrillo, tejas, etc...
Corte Rápido y cuchilla especial para una larga vida útil.

TIPO
Segmento de 10mm con perfíl único que permite aumentar la velocidad del corte y deja los perfiles limpios.

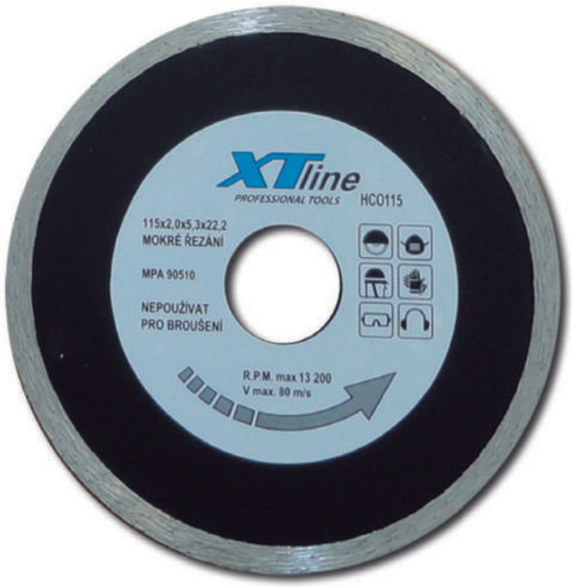
Uso:
Disco de corte diamantado para todo tipo de hormigones, piedra, ladrillo, granito, azulejos, mármol, pizarra, cuarzo, vidrio, porcelana, tejas, etc...

Referencia	Descripción
XT169115	115x1,4x10x22,2mm
XT169125	125x1,4x10x22,2mm
XT169150	150x1,6x10x22,2mm
XT169200	200X2,0X10X22,2mm
XT169230	230x2,0x10x22,2mm
XT169250	250x2m0x10x22,2mm



Disco de Diamante

Uso:
- Corte de azulejos, baldosas, vidrio, cerámica, granito



Referencia	Descripción
HCO115	115x22,2
HCO125	125x22,2
HCO150	150x22,2
HCO180	180x22,2
HCO230	230x22,2

Disco de Diamante

Uso:
- Corte de ladrillos, hormigón, bloques de construcción



Referencia	Descripción
HDS115	115x22,2
HDS125	125x22,2
HDS150	150x22,2
HDS180	180x22,2
HDS230	230x22,2

Disco de Diamante

Uso:
- Corte de hormigón, ladrillos, tejas, bloques de construcción



Referencia	Descripción
HTS115	115x22,2
HTS125	125x22,2
HTS150	150x22,2
HTS180	180x22,2
HTS230	230x22,2

Disco de Diamante Abasivo

Uso:
- Corte de mármol, granito, ladrillo, piedra natural y artificial



Referencia	Descripción
HBL115	115x22,2
HBL125	125x22,2
HBL150	150x22,2

Disco universal para madera y plástico

Uso:
- para cortar madera y plástico



Referencia	Descripción
XT161115	115x22,2 mm, espesor de corte: 3 mm
XT161125	125x22,2 mm, espesor de corte: 3 mm

Disco universal para madera, piedra, acero

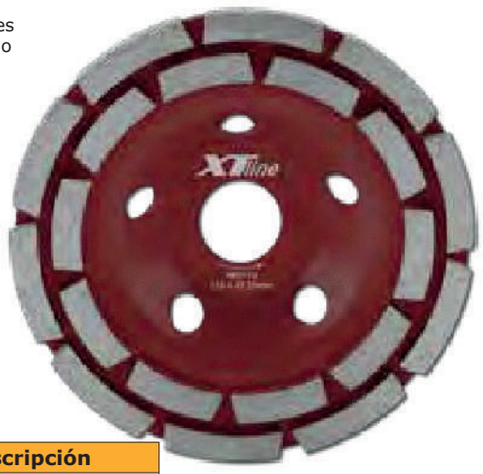
Uso:
Para cortar madera, piedra y acero



Referencia	Descripción
XT162115	115x22,2 mm, espesor de corte: 3 mm
XT162125	125x22,2 mm, espesor de corte: 3 mm

Muela abrasiva de diamante de doble hilera

Uso:
Rectificado de materiales duros (hormigón, ladrillo y mampostería, etc.)



Referencia	Descripción
HBD115	115x5x22,2 mm
HBD125	125x5x22,2 mm
HBD150	150x5x22,2 mm

Muela abrasiva de diamante integrada

Uso:
Rectificado de materiales duros (hormigón, ladrillo y mampostería, etc.)



Referencia	Descripción
HBS115	115x22,2 mm
HBS125	125x22,2 mm
HBS150	150x22,2 mm

Disco universal para acero

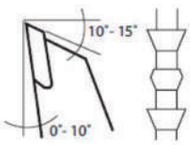
Uso:
Para cortar material de acero



Referencia	Descripción
XT163115	115x22,2 mm, espesor de corte: 3 mm
XT163125	125x22,2 mm, espesor de corte: 3 mm

Hoja de sierra circular con carburo - Diente recto

Hojas de sierra con hojas de carburo para cortar madera (tipo TZ especialmente diseñado para cortar aluminio y aglomerado laminado). Para el corte longitudinal y transversal de madera blanda y dura para todo tipo de sierras.
Una amplia selección de diámetros y material de diente a cortar cuanto más duro es el material, más dientes se necesitan.





Referencia	Descripción	Adaptador
TCT14040	140x20/40 dientes	16mm
TCT15040	150x20/40 dientes	16mm
TCT16060	160x20/60 dientes	16mm
TCT17060	170x30/60 dientes	25.4, 20, 16mm
TCT18060	180x30/60 dientes	25.4, 20, 16mm
TCT18560	185x30/60 dientes	25.4, 20, 16mm
TCT19060	190x30/60 dientes	25.4, 20, 16mm
TCT20060	200x30/60 dientes	25.4, 20, 16mm
TCT21060	210x30/60 dientes	25.4, 20, 16mm
TCT25080	250x30/80 dientes	25.4, 20, 16mm
TCT30100	300x30/100 dientes	25.4, 20, 16mm
TCT35100	350x30/100 dientes	25.4, 20, 16mm
TCT40100	400x30/100 dientes	25.4, 20, 16mm
TCT45100	450x30/100 dientes	25.4, 20, 16mm
TCT50100	500x30/100 dientes	25.4, 20, 16mm
TCT60120	600x30/120 dientes	

Circular saw



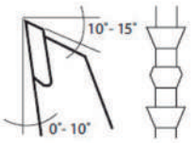
Referencia	Descripción
TC50060	500x2,8x30/56 dientes
TC60061	600x3,5x30/56 dientes

Juego de anillos adaptadores

Referencia	Descripción
TCT0001	30-25.4 20 16 mm



Hoja de sierra circular con carburo - Diente cruzado





Referencia	Descripción	Adaptador
TCT14016	140x20/16 dientes	16mm
TCT14024	140x20/24 dientes	16mm
TCT14030	140x20/30 dientes	16mm
TCT15018	150x20/18 dientes	16mm
TCT15024	150x20/24 dientes	16mm
TCT15030	150x20/30 dientes	16mm
TCT16018	160x20/18 dientes	16mm
TCT16024	160x20/24 dientes	16mm
TCT16030	160x20/30 dientes	16mm
TCT16048	160x20/48 dientes	16mm
TCT16520	165x20/20 dientes	16mm
TCT17024BD	170x20/24 dientes	16mm
TCT17040BD	170x20/40 dientes	16mm
TCT18024	180x30/24 dientes	25.4, 20, 16mm
TCT18040	180x30/40 dientes	25.4, 20, 16mm
TCT18524	185x30/24 dientes	25.4, 20, 16mm
TCT18540	185x30/40 dientes	25.4, 20, 16mm
TCT19024	190x30/24 dientes	25.4, 20, 16mm
TCT19040	190x30/40 dientes	25.4, 20, 16mm
TCT20024	200x30/24 dientes	25.4, 20, 16mm
TCT20040	200x30/40 dientes	25.4, 20, 16mm
TCT21024	210x30/24 dientes	25.4, 20, 16mm
TCT21040	210x30/40 dientes	25.4, 20, 16mm
TCT25020	250x30/20 dientes	25.4, 20, 16mm
TCT25040	250x30/40 dientes	25.4, 20, 16mm
TCT25060	250x30/60 dientes	25.4, 20, 16mm
TCT30024	300x30/24 dientes	25.4, 20, 16mm
TCT30040	300x30/40 dientes	25.4, 20, 16mm
TCT30060	300x30/60 dientes	25.4, 20, 16mm
TCT35028	350x30/28 dientes	25.4, 20, 16mm
TCT35040	350x30/40 dientes	25.4, 20, 16mm
TCT35060	350x30/60 dientes	25.4, 20, 16mm
TCT35080	350x30/80 dientes	25.4, 20, 16mm
TCT40032	400x30/32 dientes	25.4, 20, 16mm
TCT40040	400x30/40 dientes	25.4, 20, 16mm
TCT40060	400x30/60 dientes	25.4, 20, 16mm
TCT40080	400x30/80 dientes	25.4, 20, 16mm
TCT45060	450x30/60 dientes	25.4, 20, 16mm
TCT45080	450x30/80 dientes	25.4, 20, 16mm
TCT50040	500x30/40 dientes	25.4, 20, 16mm
TCT50060	500x30/60 dientes	25.4, 20, 16mm
TCT50080	500x30/80 dientes	25.4, 20, 16mm
TCT60056	600x30/56 dientes	25.4, 20, 16mm
TCT60060	600x30/60 dientes	25.4, 20, 16mm
TCT60080	600x30/80 dientes	25.4, 20, 16mm

Set hojas de sierra

Referencia	Descripción
T08SET	10 piezas

Composición:
Set de 10 de cuchillas para todo tipo de materiales. Amarre: T- xing



Incluye modelos	pcs	Longitud corte	Diente	Madera	Plástico	Acero
T144D	2x	75mm	4mm	5-50mm	-	-
T101D	2x	75mm	4mm	10-45mm	10-45mm	-
T101B	2x	75mm	2.5mm	3-30mm	>30mm	-
T101AO	1x	50mm	1.4mm	2-15mm	2-15mm	-
T218A	1x	50mm	1.2mm	-	-	-
T118A	1x	50mm	1.2mm	-	-	1-3mm
T127D	1x	75mm	3mm	-	-	1-3mm

Hoja de Sierras de Calar - 1 Paquete/5pcs

Referencia	Longitud corte	Diente	Madera	Plástico	Acero
T101A0	50mm	1.4mm	2-15mm	2-15mm	
T101B	75mm	2.5mm	3-30mm	<30mm	
T101BR	75mm	2.5mm	3-30mm	3-30mm	
T101D	75mm	4.0mm	10-45mm	10-45mm	
T111C	75mm	3.0mm	5-50mm	5-40mm	
T118A	50mm	1.2mm			1-3mm
T144D	75mm	4.0mm	5-50mm		
T318A	105mm	1.2mm			1-3mm







Hoja de Sierras de calar - 1 Paquete/5pcs

Referencia	Longitud corte	Diente	Madera	Plástico	Acero
U101B	75mm	2.5mm	3-30mm	<30mm	
U111C	75mm	3.0mm	5-50mm	5-40mm	
U118A	50mm	1.2mm			1-3mm



Referencia			USO
T118A		A=1.2mm •21tpi B=50mm •2 " C=76mm •3 "	Corte recto para materiales finos como chapas, metales no férricos y aluminio.
T218A		A=1.2mm •21tpi B=50mm •2 " C=76mm •3 "	Corte con giro para materiales finos como chapas, and metales no férricos y aluminio.
T318A		A=1.2mm •21tpi B=110mm •4 1/2 " C=132mm •5 1/2 "	Corte recto para materiales férricos, no férricos y aluminio.
T144D		A=4mm •6tpi B=75mm •3 " C=100mm •4 "	Corte rápido para maderas gruesas/duras y paneles
T101AO		A=1.4mm •20tpi B=50mm •2 " C=76mm •3 "	Corte con giro limpio y con precisión para maderas duras, tableros laminados, tableros de fibra y plásticos.
T101B		A=2.5mm •10tpi B=75mm •3 " C=100mm •4 "	Corte recto limpio y preciso para maderas duras, tableros laminados, tableros de fibra y plásticos.
T101BR		A=2.5mm •10tpi B=75mm •3 " C=100mm •4 "	Corte recto limpio y preciso para maderas duras, tableros laminados, tableros de fibra y plásticos.
T101D		A=4mm •6tpi B=75mm •3 " C=100mm •4 "	Corte recto limpio y preciso para maderas duras, tableros laminados, tableros de fibra y plásticos.
T111C		A=3.0mm •8tpi B=75mm •3 " C=100mm •4 "	Corte recto y rápido para maderas blandas y plásticos.

Referencia			USO
U118A		A=1.2mm •21tpi B=50mm •2 " C=76mm •3 "	Corte recto de materiales finos como chapa, metales no férricos y aluminio.
U101B		A=2.5mm •10tpi B=75mm •3 " C=100mm •4 "	Corte recto, limpio y preciso en madera dura, tableros laminados, tableros de fibra y plástico.
U111C		A=3mm •8tpi B=75mm •3 " C=100mm •4 "	Corte recto rápido en madera dura, blanda y en plásticos.

Hojas de Sierra de Sable

Hojas de Sierra de sable bimetálicas con 8%CO especialmente adecuadas para cortar materiales duros. El Cuerpo de la cuchilla es flexible permitiendo un mejor uso. Los Cientes de acero HSS y el cuerpo de un acero especial permiten una larga vida a la herramienta. Compatible con: XTline, AEG, Bosch, Dewalt, Hitachi,Black&Decker, Makina, Metabo, Flex, Atlas/copco, Skil, Milwaukee



Incluye modelos	pcs	Longitud corte	Diente	Madera	Plástico	Acero
S922AF	1x	150mm	1mm			0,7-3mm
S611DF	1x	150mm	4,3mm	10-100mm	5-10mm	
S922HF	1x	150mm	2,5mm	5-100mm		3-12mm
S644D	2x	150mm	4,3mm	75mm	6-100mm	

Referencia	Descripción
XTS-STR1	5 piezas

Hojas de Sierra de Sable - 5pcs/Pack

Uso: Metal 1-8mm; Perfileria 5-100mm

Referencia	Longitud total	Dientes
XTS123XF	150mm	1,8-3mm; 8-14TPI

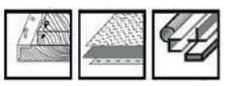




Hojas de Sierra de Sable - 5pcs/Pack

Uso: Maderas con clavos 5-10mm; chapa metálica, Perfileria 3-12mm

Referencia	Longitud total	Dientes
XTS922VF	150mm	2,5mm; 10TPI

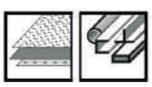




Hojas de Sierra de Sable - 5pcs/Pack

Uso: Metal 31-2mm; tuberias/perfiles

Referencia	Longitud total	Dientes
XTS922AF	150mm	1mm; 24TPI





Hojas de Sierra de Sable - 5pcs/Pack

Uso: Metal 3-8mm

Referencia	Longitud total	Dientes
XTS522BF	100mm	1,8mm; 14TPI

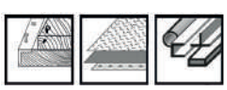




Hojas de Sierra de Sable - 5pcs/Pack

Uso: Metal 3-8mm; Tuberias, Perfiles hasta 175mm

Referencia	Longitud total	Dientes
XTS1122BF	225mm	1,8mm; 14TPI

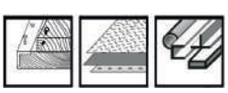




Hojas de Sierra de Sable - 5pcs/Pack

Uso: Maderas con clavos 5-175mm; chapa metálica, Perfileria 3-12mm

Referencia	Longitud total	Dientes
XTS1122HF	225mm	2,5mm; 10TPI





Hojas de espada HM Bi-metal 1pack / 1pc

Uso: Piedra y hormigón

Referencia	Longitud total	Dientes
XTS1243HM	305mm	1,5mm; 10TPI
XTS2243HM	455mm	1,5mm; 10TPI



Accesorio Sierra Oscilante - Cuchilla HSS/MD





Referencia	Descripción	Tipo
XTFM0001	ø 80mm; paso 1mm	HSS
XTFM0024	Espesor: 5mm	MD

Accesorio Sierra Oscilante - Soporte Papel



Referencia	Descripción
XT106203	93x93x93 mm

Papel Lijado - Pack 20pcs

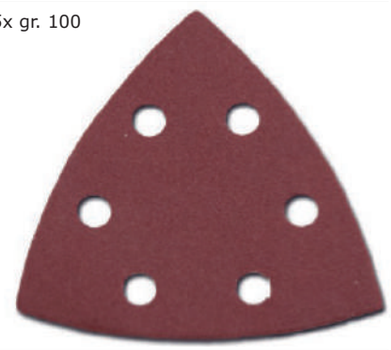


Referencia	Descripción
XTFM0023	80mm; segmento 1,2mm

Papel Lijado - Pack 20pcs

5x gr. 40 / 5x gr. 60 / 5x gr. 80 / 5x gr. 100





Referencia	Descripción
XT106205	93x93x93 mm

Accesorio Sierra Oscilante



Referencia	Descripción
XTFM0018	Ancho: 50mm



Referencia	Descripción
XTFM0002	65mm, Paso:1,2mm



Referencia	Descripción
XTFM0003	33mm; Paso: 1,4mm



Referencia	Descripción
XTFM0013	65mm; Paso: 2,5mm



Referencia	Descripción
XTFM0014	34mm; Paso: 2,5mm

Set de Accesorios para Máquina Oscilante

1 und - Hoja de Sierra HSS - 88mm
1 und - Cuchilla Bimetálica 20mm
1 und - Cuchilla Bimetálica 34mm
1 und - Espátula 30mm



Referencia	Descripción
XT106204	Set de 4 unidades

Set de Accesorios para Máquina Oscilante



Referencia	Descripción
XT106208	Set de 8 unidades

Discos de Corte



Referencia	Descripción	Und/Pack	Uso
SARK11516	115x1,6x22,2 / A 46 TBF	10pcs	Acero
SARK11520	115x2,0x22,2 / A 30 TBF	5pcs	Acero
SARK11525	115x2,5x22,2 / A 30 TBF	5pcs	Acero
SARK12516	125x1,6x22,2 / A 46 RBF	10pcs	Acero
SARK12520	125x2,0x22,2 / A 30 TBF	5pcs	Acero
SARK12525	125x2,5x22,2 / A 30 TBF	5pcs	Acero
SARK15016	150x1,6x22,2 / A 46 TBF	10pcs	Acero
SARK15020	150x2,0x22,2 / A 30 TBF	10pcs	Acero
SARK15025	150x2,5x22,2 / A 30 TBF	10pcs	Acero
SARK18030	180x3,0x22,2 / A 30 TBF	5pcs	Acero
SARK23030	230x3,0x22,2 / A 30 TBF	5pcs	Acero
SARK30030	300x3,0x32,0 / A 46 RBF	5pcs	Acero
SARN11510	115x1,0x22 / A 60 TBF	10pcs	Inox
SARN11516	115x1,6x22 / A 46 TBF	10pcs	Inox
SARN12510	125x1,0x22 / A 60 TBF	10pcs	Inox
SARN12516	125x1,6x22 / A 46 TBF	10pcs	Inox
SARN15010	150x1,0x22 / A 60 TBF	10pcs	Inox
SARN15016	150x1,6x22 / A 46 TBF	10pcs	Inox
SARN18022	180x2,2x22 / A 30 TBF	10pcs	Inox
SARN23022	230x2,2x22 / A 30 TBF	10pcs	Inox



Discos de Desbaste



Referencia	Descripción	Und/Pack
SABK11560	115x6,0x22,2 / A 24 RBF	5pcs
SABK12560	125x6,0x22,2 / A 24 RBF	5pcs
SABK15060	150x6,0x22,2 / A 24 RBF	5pcs
SABK18060	180x6,0x22,2 / A 24 RBF	5pcs
SABK23060	230x6,0x22,2 / A 24 RBF	5pcs

Disco de Láminas

Discos abrasivo de crconio para pulir supercies, bordes, desbarbado de soldaduras etc.. Disco cóncavo para un mejor uso y que le permite acceder a lugares mas difíciles. Gran resistencia de adherencia de las láminas del disco con gran calidad en su fabricación y durabilidad del mismo. El diseño de este disco asegura una baja vibración en su uso.



Referencia	Descripción	Und/Pack
BZ115040	Zirconio ø115mm, gr.40	10pcs
BZ115060	Zirconio ø115mm, gr.60	10pcs
BZ115080	Zirconio ø115mm, gr.80	10pcs
BZ115100	Zirconio ø115mm, gr.100	5pcs
BZ115120	Zirconio ø115mm, gr.120	5pcs
BZ125040	Zirconio ø125mm, gr.40	5pcs
BZ125060	Zirconio ø125mm, gr.60	5pcs
BZ125080	Zirconio ø125mm, gr.80	5pcs
BZ125100	Zirconio ø125mm, gr.100	5pcs
BZ125120	Zirconio ø125mm, gr.120	5pcs
BZ150040	Zirconio ø150mm, gr.40	5pcs
BZ150060	Zirconio ø150mm, gr.60	5pcs
BZ150080	Zirconio ø150mm, gr.80	5pcs
BZ150100	Zirconio ø150mm, gr.100	5pcs
BZ150120	Zirconio ø150mm, gr.120	5pcs

Disco de Láminas

STAVTOOL



Referencia	Descripción	Und/Pack
BS115040	ø115mm, gr.40	10pcs
BS115060	ø115mm, gr.60	10pcs
BS115080	ø115mm, gr.80	10pcs
BS115100	ø115mm, gr.100	25pcs
BS115120	ø115mm, gr.120	25pcs
BS125040	ø125mm, gr.40	25pcs
BS125060	ø125mm, gr.60	5pcs
BS125080	ø125mm, gr.80	5pcs
BS125100	ø125mm, gr.100	5pcs
BS125120	ø125mm, gr.120	5pcs
BS150040	ø150mm, gr.40	5pcs
BS150060	ø150mm, gr.60	5pcs
BS150080	ø150mm, gr.80	5pcs
BS150100	ø150mm, gr.100	5pcs
BS150120	ø150mm, gr.120	5pcs

Disco de limpieza de nailon



Referencia	Descripción
PC4653	Ø100X13mm - ø amarre 5.5 mm
PC4654	ø100x26mm - ø amarre 5.5 mm
PC4641	ø125mm

Disco de Goma para Amoladora Angular: Velcro + Bástago

STAVTOOL



Referencia	Descripción
P10005	ø115 mm, M14
P10004	ø125 mm, M14
P10006	ø150 mm, M14

Disco de Pulido

STAVTOOL



Referencia	Descripción
KL04015	Ø115mm
KL04016	ø125mm
KL04017	ø125mm - con cordón
KL04018	ø150mm - con cordón

Rodillo de Lijado para Máquina - XT105350



Referencia	Descripción
XT390120	120x100mm; Gr. 120
XT390180	120x100mm; Gr. 180
XT390240	120x100mm; Gr. 240
XT397120	120x50mm; Gr. 120
XT397180	120x50mm; Gr. 180
XT397200	120x50mm; Gr. 240

Rodillo Lijado puntas acero para Máquina-T105350

Uso: apto para cepillado, eliminación de óxido y eliminación de pintura.



Referencia	Descripción
XT393003	120X100mm - 0.3mm
XT399003	120x50mm - 0.3mm

Rodillo de Nylon para Máquina - XT105350



Referencia	Descripción
XT392080	120X100mm - Gr.80
XT398080	120x50mm - Gr.80

Rodillo de Lijado para Máquina - XT105350



Referencia	Descripción
XT391060	120x100mm; Gr. 60
XT391080	120x100mm; Gr. 80
XT391120	120x100mm; Gr. 120
XT396060	120x50mm; Gr. 60
XT396080	120x50mm; Gr. 80
XT396120	120x50mm; Gr. 120

Disco de Pulido para Máquina - XT105300



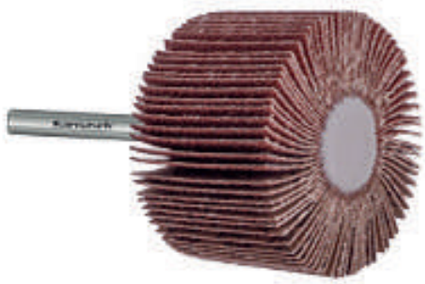
Referencia	Descripción
XT393030	Azul - ø150 - Blando - Espesor 25mm
XT395040	Amarillo - ø150 - Medio - Espesor 25mm
XT395050	Naranja - ø150 - Duro - Espesor 25 mm

Disco de Soporte para Máquina - XT105300



Referencia	Descripción
XT395150	ø150mm

Disco laminar abrasivo - vástago 3 / 6 mm



Referencia	Dimensiones	Grano	Mango
K1230100300403	ø30x15	40	3
K1230100300603	ø30x15	60	3
K1230100300803	ø30x15	80	3
K1230100301203	ø30x15	120	3
K123010030040	ø30x15	40	6
K123010030060	ø30x15	60	6
K123010030080	ø30x15	80	6
K123010030120	ø30x15	120	6
K123010040040	ø40x15	40	6
K123010040060	ø40x15	60	6
K123010040080	ø40x15	80	6
K123010040120	ø40x15	120	6
K123020040040	ø40x30	40	6
K123020040060	ø40x30	60	6
K123020040080	ø40x30	80	6
K123020040120	ø40x30	120	6
K123010050040	ø50x20	40	6
K123010050060	ø50x20	60	6
K123010050080	ø50x20	80	6
K123010050120	ø50x20	120	6
K123020050040	ø50x40	40	6
K123020050060	ø50x40	60	6
K123020050080	ø50x40	80	6
K123020050120	ø50x40	120	6
K123010060040	ø60x15	40	6
K123010060060	ø60x15	60	6
K123010060080	ø60x15	80	6
K123010060120	ø60x15	120	6
K123020060040	ø60x40	40	6
K123020060060	ø60x40	60	6
K123020060080	ø60x40	80	6
K123020060120	ø60x40	120	6
K123010080040	ø80x25	40	6
K123010080060	ø80x25	60	6
K123010080080	ø80x25	80	6
K123010080120	ø80x25	120	6
K123020080040	ø80x50	40	6
K123020080060	ø80x50	60	6
K123020080080	ø80x50	80	6
K123020080120	ø80x50	120	6

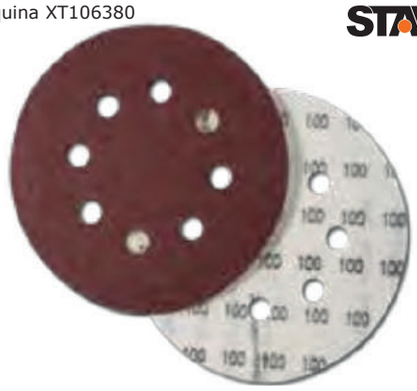
Disco de amoladora para lijado



Referencia	Descripción
XT164121	ø125x3x22.2 - fino
XT164122	ø125x3x22.2 - medio
XT164123	ø125x3x22.2 - grueso

Disco lijado de velcro con orificios - Pack 6 und

Recambio de máquina XT106380



Referencia	Descripción
KL04040	ø125 - Zr. 40
KL04060	ø125 - Zr. 60
KL04080	ø125 - Zr. 80
KL04120	ø125 - Zr. 120

Disco lijado de velcro - Pack 3und

Recambio de máquina XT106310



Referencia	Descripción
KL04604	ø125 - Zr. 40
KL04606	ø125 - Zr. 60
KL04608	ø125 - Zr. 80
KL04612	ø125 - Zr. 120

Papel de lija impermeable

Dimensiones: Lámina de 230x280mm



Referencia	Grano
KL25221-2808	60
KL25221-2809	80
KL25221-2812	120
KL25221-2818	180
KL25221-2824	240
KL25221-2832	320
KL25221-2840	400
KL25221-2860	600
KL25221-2880	800
KL25221-2890	1000
KL25221-2895	1500
KL25221-2897	2000

Papel de lija

Dimensiones: Lámina de 230x280mm



Referencia	Grano
KL26121-2806	40
KL26121-2808	60
KL26121-2809	80
KL26121-2812	120
KL26121-2818	180
KL26121-2824	240
KL26121-2832	320

Esponja abrasiva 90x70x20



Referencia	Grano
K22100	60
K22101	80
K22103	120
K22104	180
K22105	220

Banda de Lija



Referencia	Descripción
KL04204	75x533mm - Gr40 - 3und/pack
KL04206	75x533mm - Gr60 - 3und/pack
KL04208	75x533mm - Gr80 - 3 und/pack
KL04210	75x533mm - Gr100 - 3 und/pack
KL04212	75x533mm - Gr120 - 3 und/pack
KL044704	40x760mm - Gr40 - 3 und/pack
KL044706	40x760mm - Gr60 - 3 und/pack
KL044708	40x760mm - Gr80 - 3 und/pack
KL044712	40x760mm - Gr120 - 3 und/pack
KL044945	13x457mm - Gr40-100 - 20und/pack
KL044953	30x533mm - Gr40-100 - 20 und/pack

Papel de lija 90x182mm - Pack 5 und

Recambio de máquina XT106240

STAYTOOL



Referencia	Descripción
KL04304	90x182mm - Gr. 40
KL04306	90x182mm - Gr. 60
KL04308	90x182mm - Gr. 80
KL04312	90x182mm - Gr. 120

Papel de lija 93x185mm - Pack 5 und



Referencia	Descripción
KL04404	93x185mm - Gr. 40
KL04406	93x185mm - Gr. 60
KL04408	93x185mm - Gr. 80
KL04410	93x185mm - Gr. 100
KL04412	93x185mm - Gr. 120

Banda de Lija 40 x 760mm - Pack 3 und



Referencia	Descripción
KL049708	40x760mm - Gr. 80
KL049712	40x760mm - Gr. 120
KL049718	93x185mm - Gr. 180
KL049724	93x185mm - Gr. 240

Pulverizadores



Referencia	Descripción
P108659	Pulverizador básico - 0.75L
JAD26000	Pulverizador alta calidad - 1L

Pulverizador gran capacidad



Referencia	Descripción
P108653	Capacidad 2 Litros
P108655	Capacidad 5 Litros
P108656	Capacidad 8 Litros
P108658	Capacidad 16 Litros

Cepillo de puntas



Referencia	Descripción
XT22001	ø100 - M14

Cepillo de traza



Referencia	Descripción
XT22002	ø75 - M14
XT22003	ø100 - M14

Aceite de mantenimiento WD-40

- Aceite universal WD-40
- Abrillanta
- Lubrica
- Protege
- Aloja
- Desplaza la humedad



Referencia	Descripción
WD750083	Bote spray de 400ml
WD750159	Garrafa de 5 litros

Cepillo redondo ondulado



Referencia	Descripción
XT22008	ø125
XT22009	ø150
XT22010	ø175
XT22011	ø200

Cepillo de traza corrugado inox



Referencia	Descripción
XT22055	ø75 - M14
XT22056	ø100 - M14

Cepillo de traza



Referencia	Descripción
XT22004	ø65 - M14
XT22005	ø80 - M14
XT22006	ø100 - M14

Disco de trazo



Referencia	Descripción
XT22007	ø100 - M14

Disco de cepillo



Referencia	Descripción
XT22012	ø100mm - M14
XT22013	ø115mm - M14
XT22014	ø125mm - M14
XT22015	ø150mm - M14
XT22016	ø178mm - M14

Bástago de cepillo



Referencia	Descripción
XT22024	Ø75mm - Bástago 6 mm

Cepillo de traza corrugado inox



Referencia	Descripción
XT22037	ø65 - M14
XT22038	ø80 - M14

Cepillo de traza corrugado inox



Referencia	Descripción
XT22005-5	ø80 - M14 - 0.5mm
XT22005-8	ø80 - M14 - 0.8 mm
XT22006-8	ø100 - M14 - 0.8 mm

Disco de trazo inox



Referencia	Descripción
XT22057	ø100 - M14

Bástago de cepillo disco



Referencia	Descripción
XT22023	Ø75mm - Bástago 6 mm

Bástago de cepìllo fino



Referencia	Descripción
XT22018	ø12mm - ø6mm bástago
XT22019	ø17mm - ø6mm bástago
XT22020	ø25mm - ø6mm bástago

Bástago de cepìllo fino inox



Referencia	Descripción
XT22021	ø19mm - ø6mm bástago
XT22022	ø22mm - ø6mm bástago

Disco de cepillo



Referencia	Descripción
XT22025	ø75mm - Ø6mm bástago

Bástago de cepìllo fino



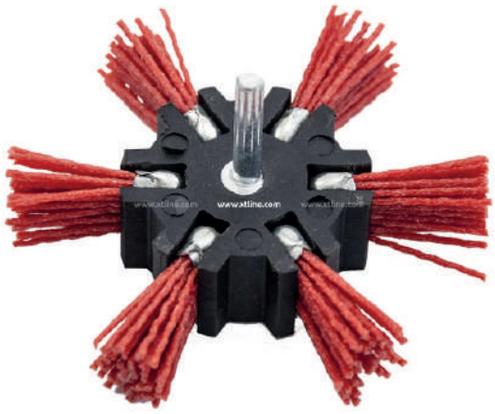
Referencia	Descripción
XT22026	ø12mm - ø6mm bástago
XT22027	ø17mm - ø6mm bástago
XT22028	ø75mm - ø6mm bástago
XT22029	ø100mm - ø6mm bástago

Bástago de cepìllo fino



Referencia	Descripción
XT22030	ø65mm - ø6mm bástago
XT22031	ø75mm - ø6mm bástago

Cepillo de bástago de pulido



Referencia	Descripción
XT22032	ø100mm - ø6mm bástago

Cepillo de alambre latón / acero / inox



Referencia	Descripción
XT22034	270mm - latón



Referencia	Descripción
X22035	270mm - acero



Referencia	Descripción
XT22036	270mm - inox

Disco de cepillo Inox



Referencia	Descripción
XT22039	ø100mm - M14
XT22040	ø125mm - M14

Kit Remachadora 190mm

Alicates de remachado con un diseño ergonómico y altamente resistente para trabajos pesados. Palanca de acero y mango ergonómico de cuerpo ligero y duradero con aleación de aluminio y mordazas Cr-Mo endurecidas.
Con Adaptadores para remaches de M3, M4, M5 y llave de apriete.




Referencia	Descripción
XT0613	190mm - Caja de plástico con equipo y accesorios

Kit Remachadora 260mm

Alicates de remachado con un diseño ergonómico y altamente resistente para trabajos pesados. Palanca de acero y mango ergonómico de cuerpo ligero y duradero con aleación de aluminio y mordazas
Cr-Mo endurecidas. Con Adaptadores para remaches de M3, M4, M5, M6, M8, M10, M12 y llave de apriete




Referencia	Descripción
XT0617	260mm - Caja de plástico con equipo y accesorios

Recambios de adaptador remachadora

Referencia	Descripción
XT06103	M-3
XT06104	M-4
XT06105	M-5
XT06106	M-6
XT06108	M-8
XT06110	M-10
XT06112	M-12




Remachadora 260mm

Para medidas de 2.4 - 3.2 - 4.0 - 4.8 mm



Referencia	Descripción
XT0801	260mm - Caja de cartón

Pistola para cartucho



Referencia	Descripción
XT099	Para capacidad 300ml

Pistola para cartucho reforzado



Referencia	Descripción
XT094	Para capacidad 310ml
XT095	Para capacidad 600ml
Z950101	Boquilla de recambio

Pistola para cartucho



Referencia	Descripción
XT096	Para Capacidad 300ml

Pistola para espuma de polietileno



Referencia	Descripción
XT097	Pistola para espuma polietileno

Pistola para cartucho



Referencia	Descripción
XT098	Para Capacidad 410ml

Pistola plus para espuma de polietileno



Referencia	Descripción
XT091	Pistola para espuma polietileno
XT092	Boquilla de recambio

Ventosa Doble / Triple



Referencia	Descripción
XT140040	Doble - Carga 120kg
XT140041	Triple - Carga 180kg

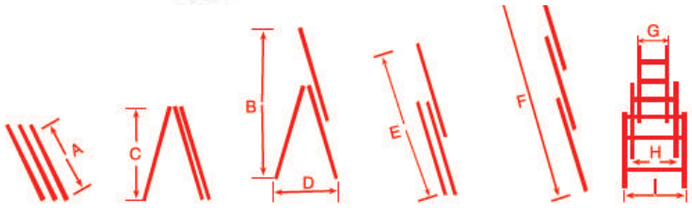
Escalera de tres tramos

Una escalera de tres partes que se destaca por su versatilidad y manejo rápido y facil. Puede ser utilizada como sistemadeslizador, doble, triple o como escalera independiente. La escalera se puede colorar en diferentes tipos de terrenos y alturas.
La escalera en tijera es la que ofrece mayor resistencia.
Perfiles de aleación de calidad con sus compensaciones en la escalera para un bajo peso y tener rigidez en su uso. Espesor del material: 1.2 +/- 0.5mm

Referencia	Descripción
XT607EK	3x7 - 150kg
XT609EK	3x9 - 150 kg
XT611EK	3x11 - 150 kg

Escalera de tres tramos





Referencia	Peldaño	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G/H/I (mm)	Peso (kg)	Dimension ©
XT607	3x7	2045	2830	1965	1240	2950	4090	320/385/450	10,7	195x45x16
XT609	3x9	2605	3630	2495	1580	3830	5530	320/385/450	13,2	254x45x16
XT611	3x11	3165	4800	3025	1920	4940	6870	320/385/450	15,5	

Careta de protección básica



Referencia	Descripción
PC0021	Careta de Protección Basica
PC0021R	Recambio frontal de careta

Careta de soldadura - Basic

Según norma CE (EN169/379)
- Ventana de filtro: 96x39cm; tamaño del filtro: 110x90x9 mm;
- Protección UV / IR: DIN 16 en todo
- Energía: batería solar / batería de litio; activación: automática
- Temperatura de trabajo: -10º + 60 ° C; Peso 485 g
- Tiempo de atenuación: 1-30000s; aclarar: 0,1-1s; sensores de atenuación: 2



Referencia	Descripción
XT5894	Careta de soldadura auto gran pantalla
XT5894-500G	Recambio filtro de soldadura LCD para XT5894

Soporte de cabeza para careta soldadura XT5890



Referencia	Descripción
XT5893-HG4	Soporte de cabeza de careta para soldadura

Soporte de cabeza para careta soldadura XT5894



Referencia	Descripción
XT5894-HG3	Soporte de cabeza de careta para soldadura

Careta de soldadura - Pantalla grande

Careta de soldadura con oscurecimiento automático de nueva generación. Se utilizan nuevos conocimientos altamente científicos y tecnológicos como LCD, optoelectrónicos, carga solar, microelectrónica, etc...
El casco protege eficazmente los ojos de la soldadura y permite al trabajador trabajar en su puesto de una forma cómoda, con amplia visión y precisión. El filtro óptico XYE-958E permite un color verdadero en todo momento.
Con su nuevo display de visualización XL permite una mejora del trabajo.
El equipo está realizado según normativg CE EN169/379.
Protección completa de cabeza y cuello con un peso ligero.
Control del casco:
- Configuración del filtro y configuración de sensibilidad
- Configuración retardo e interruptor

La óptica permite colores reales en todo el espectro rojo, amarillo, verde, azul



Parámetros Técnicos:
- Tamaño ventana: 98x87cm; Tamaño filtro: 114x133x9mm;
UV/IR Protección DIN16 en todo momento
- Fuente de alimentación: Célula solar/Batería Lítio
- Encendido completamente automático
- Tiempo de atenuación: 1-30000s, Brillo ajustable 0.1-1s,
- Sensores de atenuación: 4
- Temperatura de trabajo -10º a +60º, Peso:525gr, Interruptor on/off

Referencia	Descripción
XT5890	Careta de soldadura auto gran pantalla
XT5890-958E	Recambio filtro de soldadura LCD para XT5890

Careta de soldadura

La careta con superficie de carbono, evita que el polvo y los humos se adhieran al casco. Adecuado para trabajos de soldadura y desbarbado.



Parámetros Técnicos:
- Ventana de filtro: 100x60cm; tamaño del filtro: 110x90x9 mm;
- Protección UV / IR: DIN 16 en todo
- Batería solar / batería de litio; Completamente automática
- Tiempo de atenuación: 1-30000s; aclarar: 0,1-1s; Sensores atenuación: 4
- Temperatura de trabajo: -10º a +60º, Peso:515gr, Interruptor: on/off

Referencia	Descripción
XT5893	Careta de soldadura
XT5893-818E	Recambio filtro de soldadura LCD para XT5893

Pistola de Pulverización PRO

Pistola de pulverización con recipiente superior con capacidad de 0.6 litros. Con una boquilla de pulverización ancha. Adecuado para lacas y pinturas.
Uso profesional. Cuerpo de pistola y boquillas de Acero Inoxidable.
Opcionales: Boquillas de diferentes tamaños, etc...



Detalles técnicos:
- Flujo de aire requerido 10,2 m³/h
- Presión de boquilla 1,36atm
- Presión de trabajo: 2,0 BAR
- Ancho de pulverización 180-260mm
- Tamaño de boquilla ø1,5mm

Referencia	Descripción
XT4018	Depósito: 0.6l, Boquilla Dimensiones 1,5mm
XT4019	Recambio Boquilla 1,4 mm
XT4020	Recambio Boquilla 2,0 mm
XT4021	Depósito recambio

Pistola Pulverizadora con Depósito Superior

Presión de trabajo: 2,0 - 3,0 BAR



Referencia	Descripción
P19641	Depósito: 0.6l, Boquilla Dimensiones 1,4mm
P19672	Recambio Depósito: 0,6l

Pistola Pulverizadora Depósito Inferior Metálico

Presión de trabajo: 2,0 - 3,0 BAR



Referencia	Descripción
P19609	Depósito: 1.0l, Boquilla Dimensiones 1,5mm

Pistola Pulverizadora con Deposito Inferior

Presión de trabajo: 2,0 - 3,0 BAR



Referencia	Descripción
XT10607	Capacidad Depósito: 1.0l

Pistola Pulverizadora con Depósito Superior Mini

Presión de trabajo: 2,0 - 3,0 BAR



Referencia	Descripción
P19640	Depósito: 0.15l, Boquilla Dimensiones 0,8mm

Pistola Pulverizadora con Deposito Superior



Referencia	Descripción
XT10608	Depósito: 0.6l, Boquilla Dimensiones 1,5mm

Manguera profesional en espiral para aire



Detalles: Presión máxima 10 bar

Referencia	Descripción
P19594	8/12mm 5m PU
P19595	8/12mm 7,5m PU
P19596	8/12mm 10m PU
P19597	8/12mm 15m PU
P19598	8/12mm 20m PU
P19626H	5/8mm 10m PU
P19627H	5/8mm 15m PU
P19628H	5/8mm 20m PU

Manguera en espiral para aire

Detalles: Presión máxima 10 bar



Referencia	Descripción
P19616H	5/8mm 10m PE
P19617H	5/8mm 15m PE
P19618H	5/8mm 20m PE

Manguera conexión de aire

Presión máxima 16bar. Material: PVC + PES fibra



Referencia	Descripción
XT41905	9/15mm 5m
XT41910	9/15mm 10m
XT41915	9/15mm 15m
XT41920	9/15mm 20m
XT42005	6/12mm 5m
XT42010	6/12mm 10m
XT42015	6/12mm 15m

Manguera para aire



Detalles: Presión máxima 16 bar

Referencia	Descripción
XT41950	9/15mm 50m
XT42050	6/12mm

Llave de impacto 1/2”



Parámetros Técnicos:
- Max. 680Nm, Velocidad 7000/min
- Máx Medida M16, adaptador aire 1/4”; consumo de aire 380l/min
- Vibración en el cuadrado <0.4mm, presión del ai
- 8x Puntas de impacto: 10; 11; 13; 14; 17; 19; 22; 24mm
- 1x Extensión 1x Bote de aceite
- Peso 2.6kg

Referencia	Descripción
XT10026B	1/2”, 680Nm, Caja de plástico

Comprobador de inflado de neumáticos



Máxima presión: 12 BAR

Referencia	Descripción
XT10615	Modelo TG-11
WJ002009	Recambio de manguera LG-04 k

Comprobador de inflado de neumáticos

Comprobador de neumáticos calibrada con control de presión. Mango con palanca de control en la parte trasera para el manejo con una sola mano. Recubierto de goma para evitar daños en el equipo.



Máxima presión: 12 BAR; desviación +/- 1psi

Referencia	Descripción
XT10087	Equipo calibrado

Comprobador de inflado de neumáticos

Máxima presión: 12 BAR



Referencia	Descripción
XT10089	Modelo TG-89

Comprobador de inflado de neumáticos

Set de 3 piezas
- Comprobador de inflado de neumáticos
- Manguera de conexión 5m
- Pistola de aire



Referencia	Descripción
XT10063	Set de 3 piezas

Comprobador de inflado de neumáticos



Set de 5 piezas
- Comprobador de inflado de neumáticos
- Manguera de conexión 5m
- Pistola de aire
- Pistola con depósito superior
- Pistola con depósito inferior

Referencia	Descripción
XT10065	Set de 5 piezas

Bote para Aceite



Referencia	Descripción
P19621	Capacidad: 180ml

Pistola de aire - Punta corta



Referencia	Descripción
XT10616	Modelo LA-01

Pistola de aire - Punta media



Referencia	Descripción
XT10618	Modelo LA-02

Pistola de aire - Punta larga



Referencia	Descripción
XT10617	Modelo LA-03

Pistola de aire - Intercambiable



Referencia	Descripción
XT10675	Modelo LA-11

Pistola de Aire Compromido SG-12, 4,7m



Referencia	Descripción
XT1012	4/6mm
XT1013	5/8mm
XT1014	Conector T

Comprobador de Inflado de Neumáticos



Máxima presión: 12 BAR

Referencia	Descripción
XT1008	Modelo TG-8
XT1009	Recambio de manguera LG-04 k

Comprobador Digital de Inflado de Neumáticos



Referencia	Descripción
XT1010	Longitud 350mm

HONITON
PROFESSIONAL TOOLS

Llave de Impacto







TECNOLOGÍA
El par de apriete puede ser controlado por tres etapas:
- Nivel 1: 814 Nm
- Nivel 2: 1085 Nm
- Nivel 3: 1356 Nm

Cuadrado de salida 1/2”
Adaptador de aire 1/4”



v
- Par de apriete máximo 1356Nm, Velocidad sin carga 10000rpm
- Tornillo máximo de capacidad M16, Entrada de aire 1/4”,
- Consumo de aire 153m/min
- Ajuste de par: 1-814Nm, 2-1085Nm, 3-1356Nm
- Presión de trabajo: 6,2bar
- Peso 2kg
- Garantía: 2 Años + 1 Adicional previo registro

Referencia	Descripción
HY1281T	1356Nm, Caja de Cartón

Llave de Impacto



TECNOLOGÍA
El par de apriete puede ser controlado por tres etapas:
- Nivel 1: 814 Nm
- Nivel 2: 1085 Nm
- Nivel 3: 1630 Nm

Cuadrado de salida 3/4”
Adaptador de aire 1/4”

Parámetros Técnicos:
- Par de apriete máximo 1630Nm, Velocidad sin carga 5500rpm
- Tornillo máximo de capacidad M16, Entrada de aire 1/4”,
- Consumo de aire 196m/min
- Ajuste de par: 1-814Nm, 2-1085Nm, 3-1630Nm
- Presión de trabajo: 6,23bar
- Peso 3,6kg
- Garantía: 2 Años + 1 Adicional previo registro

Referencia	Descripción
HY1982T	1630Nm, Caja de Cartón

Llave de trinquete neumática HONITON



Parámetros Técnicos:
- Max. par: 120 Nm
- Velocidad: 160 rpm
- Presión de trabajo: 6,3 bar
- Consumo de aire: 104,8 l / min
- Suministro de aire: 1/4 “
- Sujeción: 3/8” ó 1/2”
- Dimensiones: 254 x 50 x 50 mm
- Peso: 1,25 kg

Referencia	Descripción
HY1038A	Sujección 3/8” - Caja de Cartón
HY1012A	Sujección 1/2” - Caja de Cartón

Llave de Impacto



Parámetros Técnicos:
- Par de apriete máximo 310Nm, Consumo de aire:360l/min
- Llave cabeza 1/2": 9,10,11,13,14,17,19,22,24,27mm
- Extensión 1/2" 125mm
- Llave Allen 4mm
- Adaptador
- Filtro de grasa
- Caja de plástico

Referencia	Descripción
XT1001	17 pcs, 310Nm





Llave de Impacto



Parámetros Técnicos:
- Par de apriete máximo 310Nm, Consumo de aire:360l/min
- Llave cabeza 1/2": 9,10,11,13,14,17,19,22,24,27mm
- Llave bloqueo 1/2"
- Llave Allen 4mm
- Adaptador
- Filtro de grasa
- Caja de plástico

Referencia	Descripción
XT1005	17 pcs, 310Nm





Conector de aire

Máxima presión: 10 BAR



Referencia	Descripción
XT40214	1/4"
XT40238	3/8"
XT40212	1/2"

Conector de aire

Máxima presión: 10 BAR



Referencia	Descripción
XT40406	6,35mm
XT40407	6,9mm
XT40410	10mm

Conector de aire

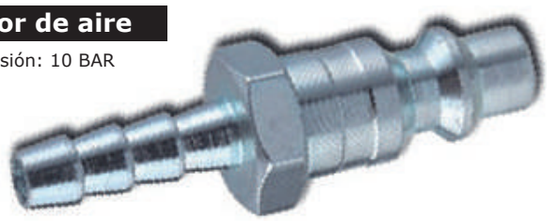
Máxima presión: 10 BAR



Referencia	Descripción
XT40314	1/4"
XT40338	3/8"
XT40312	1/2"

Conector de aire

Máxima presión: 10 BAR



Referencia	Descripción
XT40314	6,35mm
XT40338	7mm
XT40312	10mm

Conector de aire

Máxima presión: 10 BAR



Referencia	Descripción
XT40514	1/4" - Rosca hembra
XT40614	1/4" - Rosca macho

Conector de aire

Máxima presión: 10 BAR



Referencia	Descripción
XT40514	6,35mm
XT40614	10mm

Recambios para conectores aire



Referencia	Descripción
XT4011	8/12mm LF-11
XT4012	8/12mm LF-12
P19631	LF-11, 6x8mm
P19632	LF-12, 6x8mm

Filtro de Aire con Regulador



Referencia	Descripción
P19619	Modelo Tipo: LG-05

Juego de juntas tóricas



Referencia	Descripción
P19635	12 Modelos / 50 Pc

Válvula Reductora



Referencia	Descripción
P19655	Modelo Tipo: LG-04

Recambios para pistolas

P19643



P19658



P19644



P19657



Referencia	Descripción
P19643	1,7mm para P19641
P19644	2,0mm para P19641
P19657	1,0mm para P19640
P19658	1,4mm para P19641

Pistola engrasadora XTline

Modelo LM-01 con 2 mangueras (1 flexible y 1 rígida)



Referencia	Descripción
P19646	Pistola de engrase

Tensor de cable

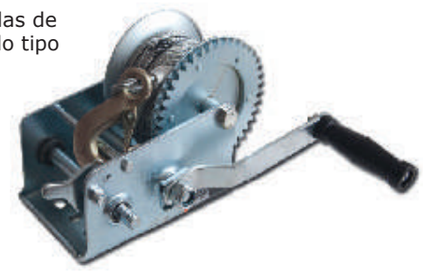
Solo para uso horizontal



Referencia	Descripción
P19794	2t, cable de acero 1.5m, ø6mm
P19799	4t, cable de acero 1.5m, ø6mm

Tensor de cable

Para levantar cargas pesadas de forma fácil y segura en todo tipo de lugares.



Referencia	Descripción
P19797	450kg, cable de acero 10m, ø6mm
P19798	820kg, cable de acero 10m, ø6mm
P19793	1200kg, cable de acero 10m, ø6mm

Polipasto de Cadena

Parámetros Técnicos:
Cadena de control 5m, cadena de amarre 2m



Referencia	Descripción
P19790	Carga: 1t
P19791	Carga: 2t
P19792	Carga: 3t

Gato de Botella

Solo para uso horizontal



Min altura:89mm, Max altura 601mm, Carrera: 284mm, Ajuste altura 89mm

Referencia	Descripción
P19646	Pistola de engrase

Gato de botella

Gatos de Botella para la elevación de grandes cargas en el taller.
Fácil manejo y ajuste de la altura de trabajo con la palanca.
El diseño garantiza la máxima estabilidad y seguridad en el trabajo.



Referencia	Cap.	Min altura	Max altura	Carrera	Ajuste altura	Peso
P19622	2t	181mm	345mm	110mm	48mm	2kg
P19623	3t	194mm	363mm	115mm	60mm	2.8kg
P19625	5t	216mm	402mm	125mm	70mm	3.7kg
P19628	8t	230mm	447mm	145mm	80mm	4.8kg
P19630	10t	230mm	447mm	145mm	80mm	4.8kg

Gato de botella



Referencia	Cap.	Min altura	Max altura	Carrera	Ajuste altura	Peso
PT91204	12t	242mm	472mm	150mm	60mm	11.5kg
PT91504	15t	230mm	465mm	155mm	80mm	8kg
PT92004	20t	230mm	460mm	150mm	80mm	8kg

Gato de botella



Referencia	Cap.	Min altura	Max altura	Carrera	Ajuste altura	Peso
PT93204	32t	242mm	472mm	150mm	60mm	11.5kg
PT95004	50t	230mm	465mm	155mm	80mm	8kg

Gato de botella



Referencia	Cap.	Min altura	Max altura	Carrera	Ajuste altura	Peso
PT0606	6t	171mm	453mm	220mm	62mm	6.1kg
PT0608	8t	162mm	569mm	262mm	80mm	7.3kg

Elevador de tijera



Referencia	Descripción
PT10102	Carga: 1t
PT10202	Carga: 2t

Gato de carretilla



Referencia	Cap.	Min altura	Max altura	Dimensiones	Peso
P19600	2t	130mm	345mm	460x220x150mm	9.3kg

Gato de Carretilla





Gato Hidráulico para cargas en taller de hasta 2t con un perfil muy bajo.
Adecuado para el cambio de neumáticos y poco recorrido de altura.
Fabricado en acero de alta calidad para soportar las cargas pesadas.
Diseño compacto para su facil manejo y almacenaje.

Referencia	Cap.	Min altura	Max altura	Dimensiones	Peso
P19601	1.5t	130mm	345mm	460x205x150mm	7.8kg

Gato de Carretilla



Referencia	Cap.	Min altura	Max altura	Dimensiones	Peso
PT830025	3t	130mm	465mm	620x380x215mm	27.4kg

Gato de carretilla



Referencia	Cap.	Min altura	Max altura	Dimensiones	Peso
PT825010CS	2t	89mm	359mm	590x275x180mm	14.2kg

Gato de Carretilla



Referencia	Cap.	Min altura	Max altura	Dimensiones	Peso
PT8350	3t	145mm	500mm	685x346x180mm	39kg

Gato de Carretilla



Referencia	Cap.	Min altura	Max altura	Dimensiones	Peso
PT83006B	2.5t	150mm	530mm	680x290x185mm	18kg

Gato de Carretilla



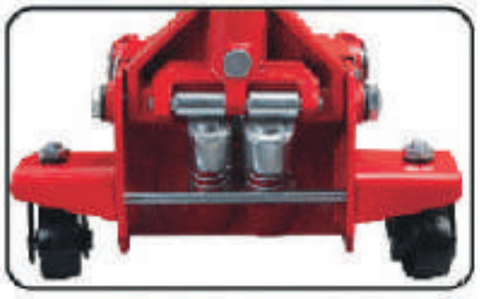
Referencia	Cap.	Min altura	Max altura	Dimensiones	Peso
PT830018	2.5t	85mm	455mm	640x342x174mm	34.8kg

Gato de Carretilla



Referencia	Cap.	Min altura	Max altura	Dimensiones	Peso
PTA82001S	2t	85mm	330mm	548x230x160mm	10kg

Gato de Carretilla



Bomba Doble

Referencia	Cap.	Min altura	Max altura	Dimensiones	Peso
PT83508	3t	98mm	535mm	760x345x170mm	44kg

Kit Hidráulico chapista 4T

Incluye:
- Extension: 127;250;456;685 mm
- Extensión perforada/hueca
- Cuña, Soporte de goma
- Placa de soporte, Llave Hexagonal 4mm
- Punta: expulsora, con hendidura
- Soporte "V", Conector, Bomba
- Unidad hidráulica y manguera



Referencia	Cap.	Min altura	Max altura	Dimensiones	Peso
PT70401	4t	120mm	330mm	580x360x175mm	17kg

Kit Hidráulico chapista 10T

Tecnología con maleta de ruedas para su fácil traslado
Incluye:
- Extension: 127;250;456;685 mm
- Extensión perforada/hueca
- Cuña, Soporte de goma
- Placa de soporte, Llave Hexagonal 4mm
- Punta: expulsora, con hendidura
- Soporte "V", Conector, Bomba
- Unidad hidráulica y manguera



Referencia	Cap.	Min altura	Max altura	Dimensiones	Peso
P19604/P	10t	150m	460mm	815x430x165mm	31kg

Soportes elevadores



Referencia	Capacidad	Min altura	Max altura	Peso
PT4204	2t	285mm	425mm	5.5kg
PT4302	3t	310mm	425mm	6.4kg
PT4602	6t	410mm	600mm	12.8kg
PT412002	12t	460mm	720mm	27.5kg

Bomba hidráulica 10T



Referencia	Descripción
PO001	Capacidad: 10t

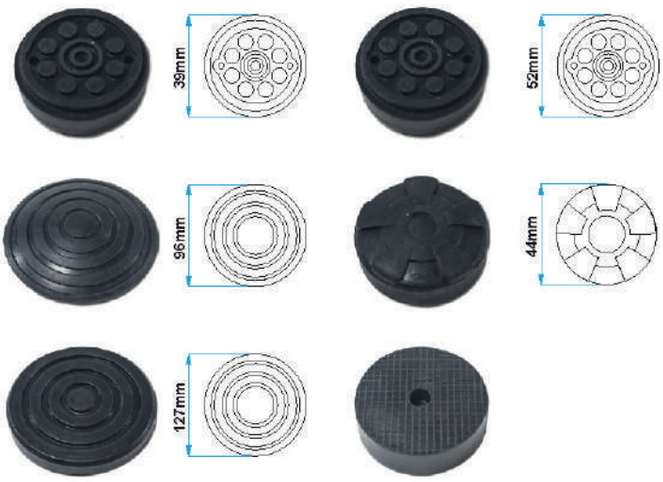
Gato de carretilla PRO

Gato hidráulico de taller con capacidad de carga hasta 3 toneladas. El equipo con un perfil bajo es recomendable para el cambio de neumáticos en vehículos. El acero de alta resistencia está hecho para soportar cargas pesadas en el uso diario. Su diseño facilita el manejo y almacenaje.



Referencia	Cap.	Min altura	Max altura	Dimensiones	Peso
PT830008	3t	100mm	585mm	846x398x168mm	51,5kg

Soportes de goma reemplazables



Referencia	Descripción
PT820033E-2	39mm para modelo P19600, P19601
PT825010CE-2	52mm para modelo PT825010CS
PT830018-2	96mm para modelo PT830018
PT83006FE-2	44mm para modelo PT83006B
PT83502-5	127mm para modelo PT83508
PTRY8011	100mm para modelo universal

Taburete



Referencia	Descripción
PTR6301	365x360x400mm, Capacidad 120kg

Camilla plegable



Referencia	Descripción
PTR451	900X420X270mm, Capacidad 120kg

Camilla plegable



Referencia	Descripción
PTR452	1000X420X270mm, Capacidad 120kg

Camilla plegable



Referencia	Descripción
PTRH6802-2	1010x475x130mm, Capacidad 120kg

Taburete



Referencia	Descripción
PTR6100	360x365x365mm, Capacidad 120kg

Grua plegable 2Tn

Grúa móvil de taller para un fácil trabajo. Capacidad de hasta 2t. Ideal para manejar motores de vehículos etc... El brazo articulado y el chasis sencillo hace que sea fácil de almacenar. El Brazo dispone de válvula de seguridad para evitar una sobrecarga.

Características:
- Capacidad 2000kg
- Rango Elevación 25-2000mm
- Longitud 1750mm
- Altura 1040mm
- Altura 1486mm
- Dimension: 1450x545x160mm
- Peso 90kg

Referencia	Descripción
PT32002X	Capacidad 2Tn



Taburete neumático



Taburete de taller movil ajustable en altura hasta 120mm. Asiento giratorio con ruedas orientables para moverse sin levantarse. Espacio de almacenaje en la parte inferior del taburete para facilitar el trabajo

Referencia	Descripción
PTR6201C	380x380x440mm, Capacidad 120kg Capacidad elevación: 120mm

Amarre de trinquete - ERGO

Normativa: EN 12195-2:2000



Referencia	Descripción
XT51510	50x10000mm/5000kg

Amarre de trinquete

Normativa: EN 12195-2:2000



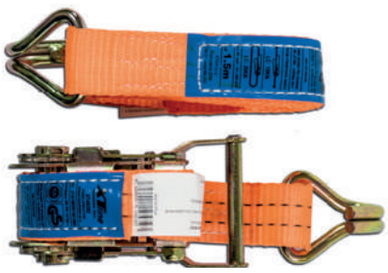


Referencia	Descripción
XT49272	800kg 25x2000mm
XT49274	800kg 25x4000mm
XT49276	800kg 25x6000mm
XT49278	800kg 25x8000mm

Amarre de trinquete

Normativa: EN 12195-2:2000



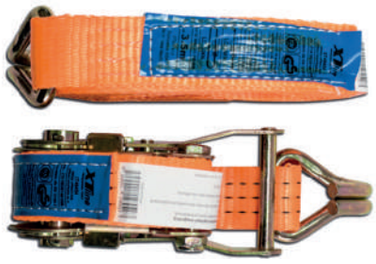


Referencia	Descripción
XT49352	2000kg 35x2000mm
XT49354	3000kg 35x4000mm
XT49355	3000kg 35x5000mm
XT49356	3000kg 35x6000mm
XT49358	3000kg 35x8000mm

Amarre de trinquete

Normativa: EN 12195-2:2000



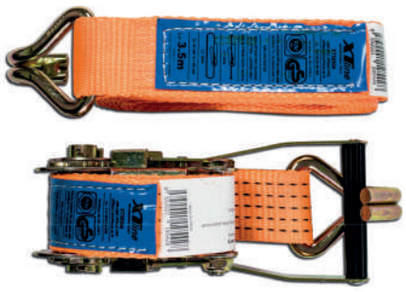


XT51510	Descripción
XT49454	5000kg 50x4000mm
XT49456	5000kg 50x6000mm
XT49458	5000kg 50x8000mm

Amarre de trinquete

Normativa: EN 12195-2:2000





Referencia	Descripción
XT50504	5000kg 50x4000mm
XT50506	5000kg 50x6000mm
XT50506	5000kg 50x8000mm
XT50510	5000kg 50x10000mm
XT50512	5000kg 50x12000mm
XT50514	5000kg 50x14000mm
XT50516	5000kg 50x14000mm

Escoba de Taller

Referencia	Descripción
XT385ESC	50x10000mm/5000kg



Gel de Manos para Taller



Referencia	Descripción
B1046	500gr
B1046-5kg	5 kg

Alargador de Cable





Referencia	Descripción
P19510	Alargador Cable 10 Metros - IP20 - Máx 2300W

Referencia	Descripción
P09225	Alargador Cable 25 metros - IP20 - Max 3680 W

Proyector LED 2x 30W



Referencia	Descripción
ZS2221-2	Proyector LED 2x 30W - IP65 - Altura Máxima 1.8m

Pilas para equipos



B7931



B79118



B7911



B7951



B7941



B79218



B7921



B7970



B7811



B7821



B7414



B7426



B7332

Referencia	Descripción
B7931	Pack 2 Pilas - Tipo C - LR14 - Alkalina
B79118	Pack 8 Pilas - Tipo AAA - Alkalina
B7911	Pack 4 Pilas - Tipo AAA - Alkalina
B7951	Pack 1 Pilas - Tipo 6LP3146 - Alkalina
B7941	Pack 2 Pilas -Tipo D - LR20 - Alkalina
B79218	Pack 8 Pilas - Tipo AA - Alkalina

Referencia	Descripción
B7921	Pack 4 Pilas - Tipo AAA - Alkalina
B7970	Pack 5 Pilas - Tipo LR44 - Alkalina
B7811	Pack 2 Pilas - Tipo AAA - Super Alkalina
B7821	Pack 2 Pilas - Tipo AA - Super Alkalina
B7414	Pack 2 Pilas - Tipo AAA - Recargables
B7426	Pack 2 Pilas - Tipo AA - Recargables
B7332	Pack 5 Pilas - Tipo CR2032



















Base Metalúrgica S.L.
Plg Ugaldeguren I P.3 Hall 2
48170 Zamudio (Bizkaia) Spain
Tel: +34 94.454.55.68
Email: info@basemetalurgica.com

www.basemetalurgica.com