ADINUR S.L.

Suministros Industriales



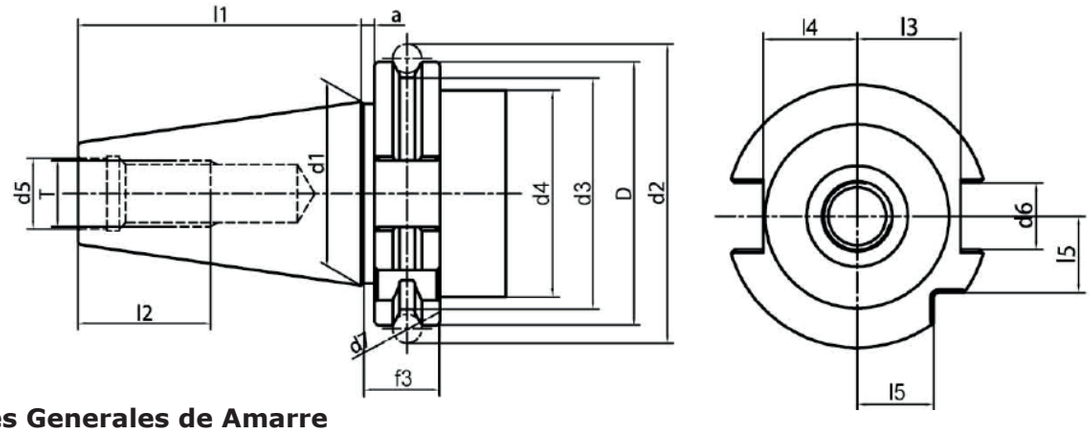
Catalogo Mecanizado

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DIN 69871



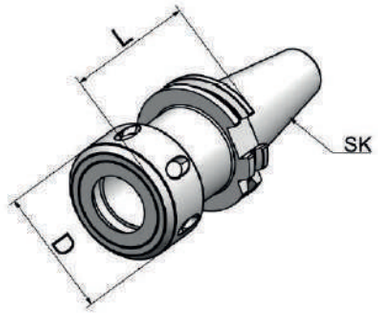
Dimensiones Generales de Amarre

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 - 15.000 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



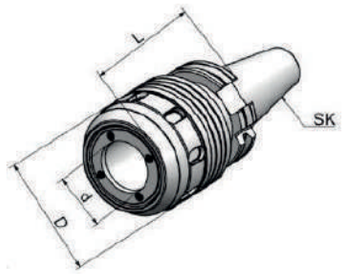


*Modelo SK30 – Tipo AD

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

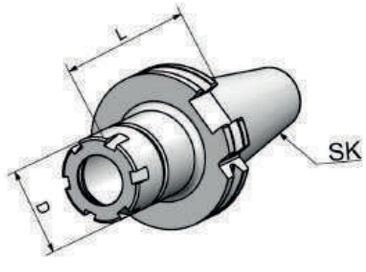




Portapinzas Tipo ER Mini – DIN 69871 AD/B 6.3 - 15.000 Rpm

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
S06.403.10.2	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





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

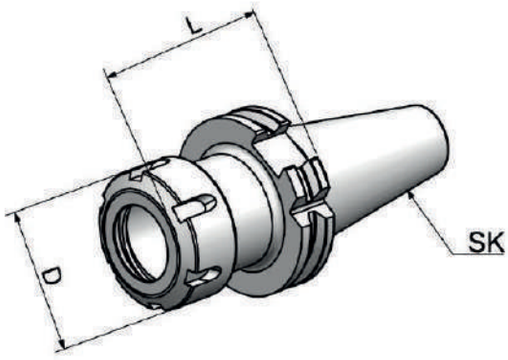
Referencia	SK	Capacidad	L	D
S02.302.10*	SK 30	1-10 (ER 16)	70	32
S02.302.16*	SK 30	2-16 (ER 25)	70	42
S02.302.20*	SK 30	2-20 (ER 32)	70	50
S02.302.26*	SK 30	3-26 (ER 40)	70	63
S02.302.10.1*	SK 30	1-10 (ER 16)	100	32
S02.302.16.1*	SK 30	2-16 (ER 25)	100	42
S02.302.20.1*	SK 30	2-20 (ER 32)	100	50

* Modelo SK30 - 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



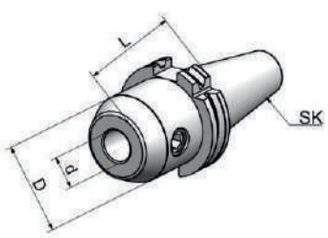


Portafresas Tipo Weldon DIN 69871 AD 6.3 15.000 Rpm

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





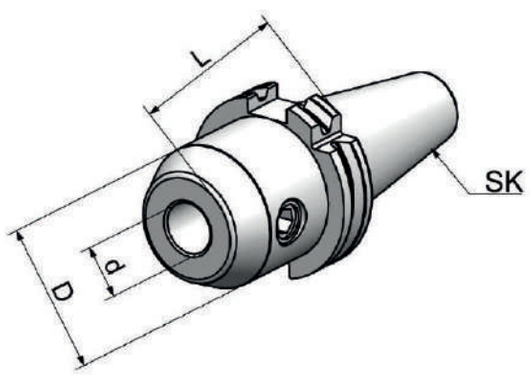
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Portafresas Tipo Weldon – DIN 69871 AD/B 6.3 - 15.000 Rpm

Referencia	SK	d	L	D
S04.403.16	SK 40	16	35	45
S04.403.20	SK 40	20	35	45
S04.403.25	SK 40	25	35	50
S04.403.32	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



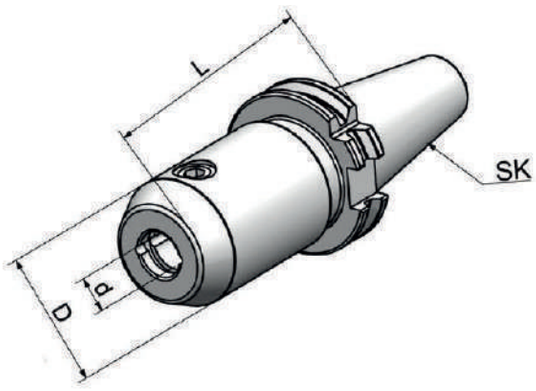


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Portafresas Tipo Weldon Refrigeración Orificios – DIN 69871 AD/B 6.3 - 15.000 Rpm

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

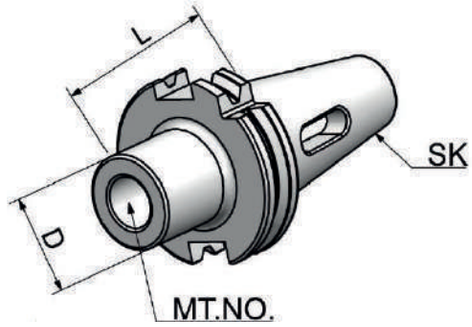




Adaptador Cono Morse DIN 228 – DIN DIN 69871 AD 6.3 - 15.000 Rpm

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
S07.402.02.1*	SK 40	2	117	32
S07.402.03.1*	SK 40	3	133	40
S07.402.04.1*	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
S07.502.02.1*	SK 50	2	117	32
S07.502.03.1*	SK 50	3	137	40
S07.502.04.1*	SK 50	4	167	48
S07.502.05.1*	SK 50	5	197	63





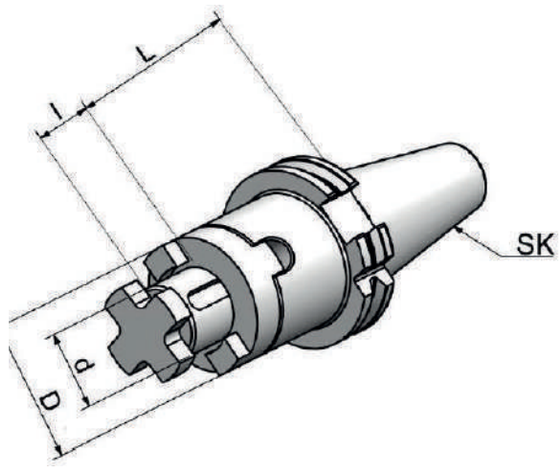
* DIN 69871 AD

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Eje Portafresas – DIN 69871 AD/B 6.3 15.000 Rpm

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



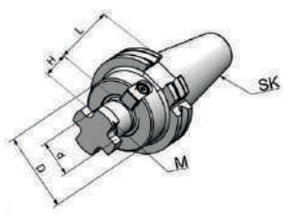


*Modelo SK30 – Tipo AD

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

Referencia	SK	d	L	l
S11.302.16*	SK 30	16	40	17
S11.302.22*	SK 30	22	40	19
S11.302.27*	SK 30	27	50	21
S11.302.32*	SK 30	32	50	24
S11.403.16	SK 40	16	35	17
S11.403.22	SK 40	22	35	19
S11.403.27	SK 40	27	40	21
S11.403.32	SK 40	32	50	24
S11.403.40	SK 40	40	50	27
S11.503.22	SK 50	22	35	48
S11.503.27	SK 50	27	40	58
S11.503.32	SK 50	32	50	78
S11.503.40	SK 50	40	50	88
S11.503.60	SK 50	60	70	129



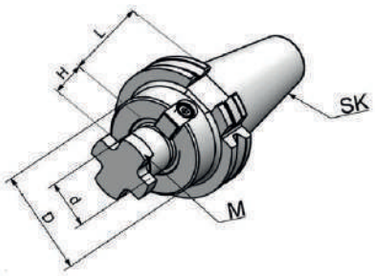


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Eje Portafresas Serie Larga – DIN 69871 AD/B 6.3 - 15.000 Rpm

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



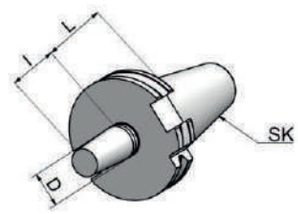


Referencia	SK	d	L	l
S11.503.27.1	SK 50	27	100	58
S11.503.27.2	SK 50	27	160	58
S11.503.27.3	SK 50	27	200	58
S11.503.27.4	SK 50	27	250	58
S11.503.27.5	SK 50	27	300	58
S11.503.27.6	SK 50	27	350	58
S11.503.32.1	SK 50	32	100	78
S11.503.32.2	SK 50	32	160	78
S11.503.32.3	SK 50	32	200	78
S11.503.32.4	SK 50	32	250	78
S11.503.32.5	SK 50	32	300	78
S11.503.32.6	SK 50	32	350	78
S11.503.40.1	SK 50	40	100	88
S11.503.40.2	SK 50	40	160	88
S11.503.40.3	SK 50	40	200	88
S11.503.40.4	SK 50	40	250	88
S11.503.40.5	SK 50	40	300	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

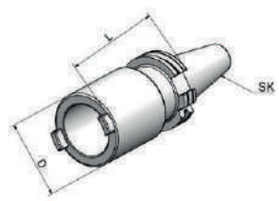




Reductor – DIN 69871 - A 6.3 - 15.000 Rpm

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



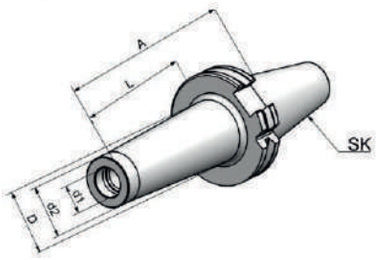


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Eje Adaptador Roscado – DIN 69871 AD/B 6.3 - 15.000 Rpm

Referencia	SK	Rosca	L	d1	d2
S19.403.08	SK 40	M-8	50	8.5	14.5
S19.403.08.1	SK 40	M-8	75	8.5	14.5
S19.403.08.2	SK 40	M-8	100	8.5	14.5
S19.403.10	SK 40	M-10	50	10.5	18
S19.403.10.1	SK 40	M-10	100	10.5	18
S19.403.10.2	SK 40	M-10	150	10.5	18
S19.403.12	SK 40	M-12	50	12.5	21
S19.403.12.1	SK 40	M-10	100	12.5	21
S19.403.12.2	SK 40	M-12	150	12.5	21
S19.403.16	SK 40	M-16	50	17	29
S19.403.16.1	SK 40	M-16	100	17	29
S19.403.16.2	SK 40	M-16	150	17	29
S19.503.08	SK 50	M-8	50	8.5	14.5
S19.503.08.1	SK 50	M-8	100	8.5	14.5
S19.503.08.2	SK 50	M-10	150	8.5	14.5
S19.503.10	SK 50	M-10	50	10.5	18
S19.503.10.1	SK 50	M-12	100	10.5	18
S19.503.10.2	SK 50	M-8	150	10.5	18
S19.503.12	SK 50	M-12	50	12.5	21
S19.503.12.1	SK 50	M-10	100	12.5	21
S19.503.12.2	SK 50	M-12	150	12.5	21
S19.503.16	SK 50	M-16	50	17	29
S19.503.16.1	SK 50	M-16	100	17	29
S19.503.16.2	SK 50	M-16	150	17	29



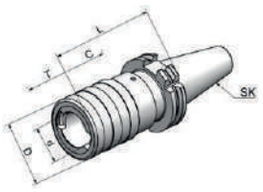


Eje Adaptador Pinzas Roscado – DIN 69871 A

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

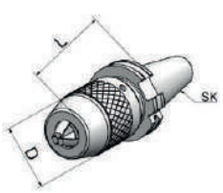




Portabrocas CNC – DIN 69871 AD y AD/B 6.3 - 15.000 Rpm

Referencia AD	Referencia AD/B	S K	Capacidad	A	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

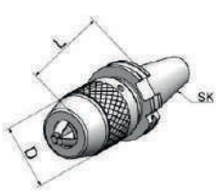




Portabrocas – DIN 69871 AD - 6.3 - 15.000 Rpm

Referencia AD	SK	Capacidad	L	D
S17.403.13	SK 50	1,0-13	90	50
S17.503.16	SK 50	2,5-16	95	50



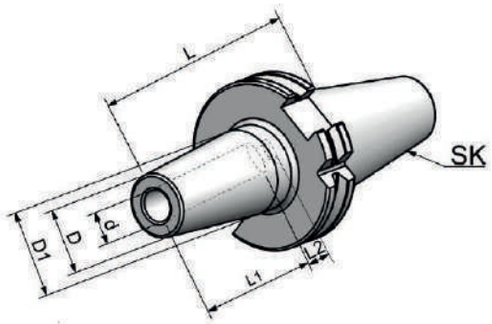


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Portaherramientas Térmicos 4.5º –DIN 69871 AD/B G2.5 - 25.000 Rpm

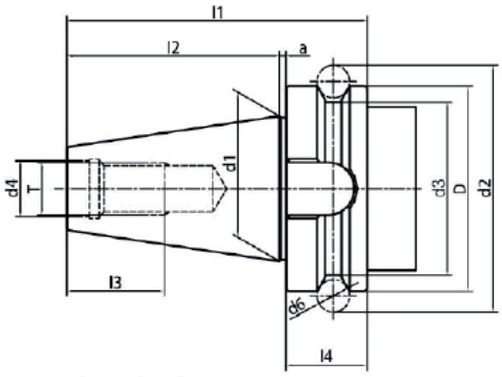
Referencia	SK	d	L	D	D1
S04.443.03	SK 40	3	80	15	20
S04.443.04	SK 40	4	80	15	20
S04.443.05	SK 40	5	80	15	20
S04.443.06	SK 40	6	80	20	27
S04.443.08	SK 40	8	80	20	27
S04.443.10	SK 40	10	80	24	32
S04.443.12	SK 40	12	80	24	32
S04.443.14	SK 40	14	80	27	34
S04.443.16	SK 40	16	80	27	34
S04.443.18	SK 40	18	80	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
S04.443.03.1	SK 40	3	120	15	20
S04.443.04.1	SK 40	4	120	15	20
S04.443.05.1	SK 40	5	120	15	20
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
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

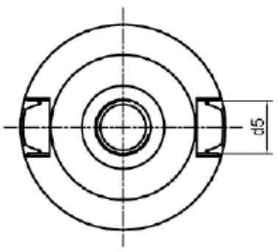




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MAS 403 BT





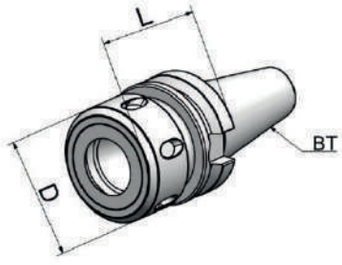
Dimensiones Generales de Amarre

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



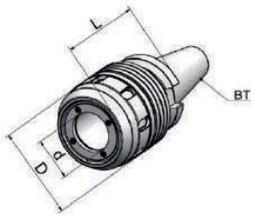


*Modelo BT30 - Tipo AD

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

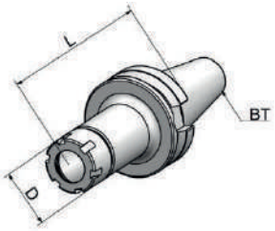




Portapinzas Tipo ER Mini – MAS 403 BT AD/B 6.3 - 15.000 Rpm

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
S06.406.10.2	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

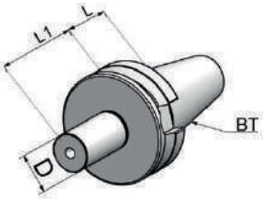




Eje Adaptador DIN – MAS 403 BT A 6.3 - 15.000 Rpm

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



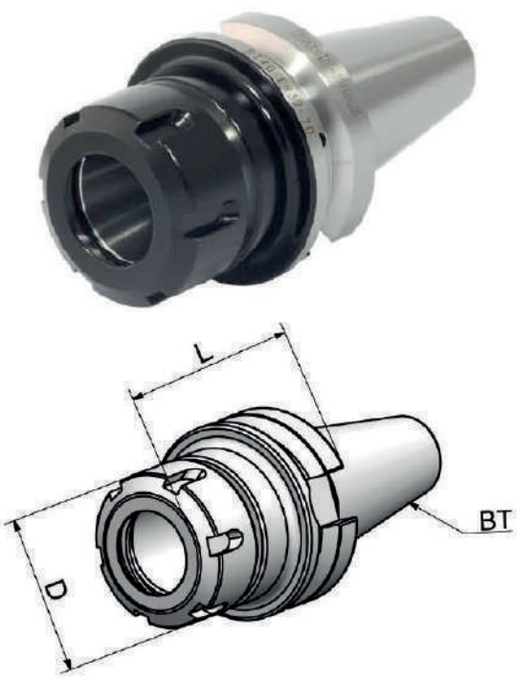


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Portapinzas Tipo ER – MAS 403 BT AD/B 6.3 - 15.000 Rpm

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

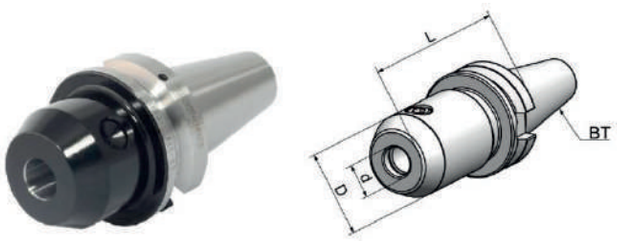
*Modelo BT30 - Tipo AD



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

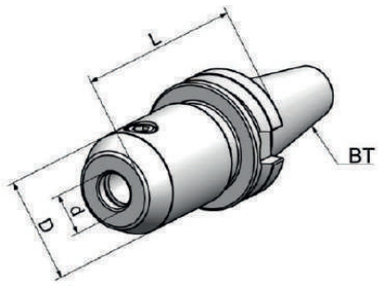
*Modelo BT30 - Tipo AD



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

Referencia	BT	d	L	D
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

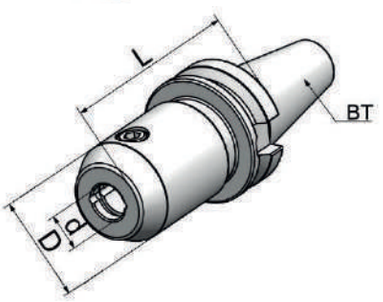




Portafresas Tipo Weldon Orificios – MAS 403 BT AD/B 6.3 - 15.000 Rpm

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



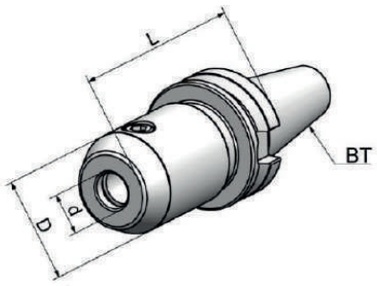


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Portafresas Tipo Weldon – MAS 403 BT AD/B 6.3 - 15.000 Rpm

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

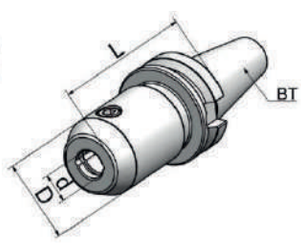




Portafresas Tipo Weldon Orificios – MAS 403 BT AD/B 6.3 - 15.000 Rpm

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





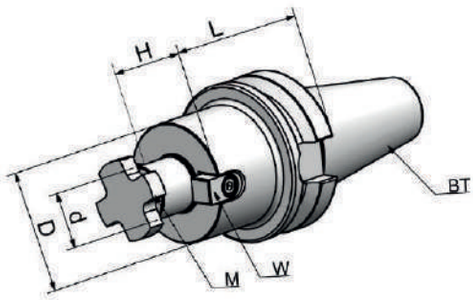
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Eje Portafresas – MAS 403 BT AD/B 6.3 - 15.000 Rpm

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	40	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
S11.506.27	BT 50	27	40	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
S11.506.32	BT 50	32	40	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

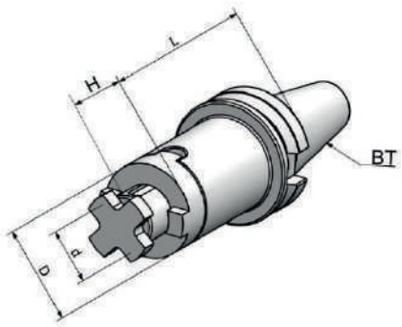
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Eje Portafresas Combinado – MAS 403 BT AD/B 6.3 - 15.000 Rpm

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
S40.406.32.1	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
S40.406.32.2	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
S40.406.32.3	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



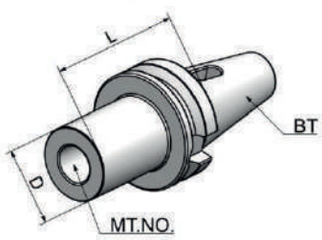


Porta Reductor Cono Morse DIN 228 – MAS 403 BT AD/B 6.3 - 15.000 Rpm

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



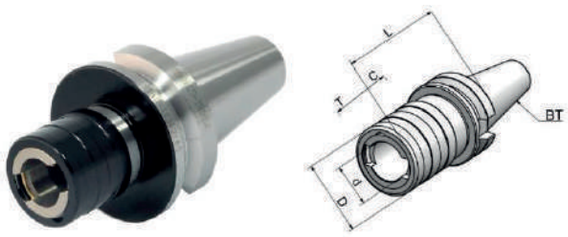


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Eje Adaptador Pinzas de - MAS 403 BT A 6.3 - 15.000 Rpm

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.

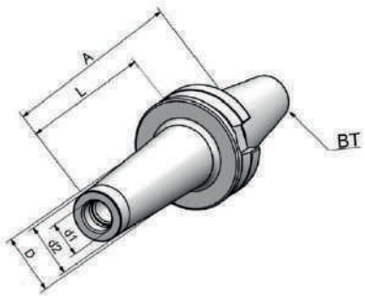
Referencia	BT	Capacidad	Serie	L	D
S16.305.12	BT 30	M3-M14	1	70	38
S16.305.20	BT 30	M5-M22	2	95	54
S16.405.12	BT 40	M3-M14	1	65	38
S16.405.20	BT 40	M5-M22	2	93	53
S16.405.36	BT 40	M14-M36	3	166	78
S16.505.12	BT 50	M3-M14	1	100	38
S16.505.20	BT 50	M5-M22	2	100	53
S16.505.36	BT 50	M14-M36	3	142	78



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

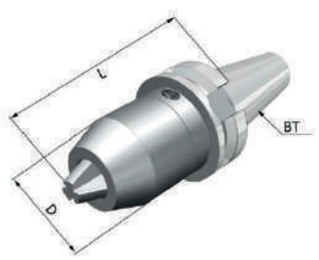
Referencia	BT	Rosca	D	D1	L
S19.406.08	BT 40	M-8	12.8	8.5	50
S19.406.08.1	BT 40	M-8	12.8	8.5	100
S19.406.08.2	BT 40	M-8	12.8	8.5	150
S19.406.10	BT 40	M-10	17.8	10.5	50
S19.406.10.1	BT 40	M-10	17.8	10.5	100
S19.406.10.2	BT 40	M-10	17.8	10.5	150
S19.406.12	BT 40	M-12	20.8	12.5	50
S19.406.12.1	BT 40	M-12	20.8	12.5	100
S19.406.12.2	BT 40	M-12	20.8	12.5	150
S19.406.16	BT 40	M-16	28.8	17	50
S19.406.16.1	BT 40	M-16	28.8	17	100
S19.406.16.2	BT 40	M-16	28.8	17	150
S19.506.08	BT 50	M-8	12.8	8.5	100
S19.506.08.2	BT 50	M-8	12.8	8.5	150
S19.506.10	BT 50	M-10	17.8	10.5	100
S19.506.10.2	BT 50	M-10	17.8	10.5	150
S19.506.12	BT 50	M-12	20.8	12.5	100
S19.506.12.2	BT 50	M-12	20.8	12.5	150
S19.506.16	BT 50	M-16	28.8	17	100
S19.506.16.2	BT 50	M-16	28.8	17	150





Portabrocas CNC – MAS 403 BT AD y AD/B - 6.3 - 15.000 Rpm

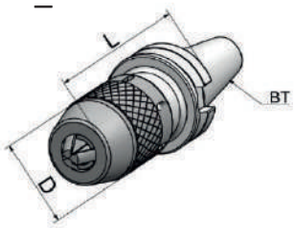
Referencia AD	Referencia AD/B	BT	Capacidad	L	D
S15.305.08	-	BT 30	0-8	70	36
S15.305.13	-	BT 30	1,0-13	111	50
S15.305.16	-	BT 30	2,5-16	116	50
S15.405.08	S15.406.08	BT 40	0-8	70	36
S15.405.13	S15.406.13	BT 40	1,0-13	90	50
S15.405.16	S15.406.16	BT 40	2,5-16	95	50
S15.505.13	S15.506.13	BT 50	1,0-13	90	50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



Portabrocas – MAS 403 BT AD y AD/B - 6.3 - 15.000 Rpm

Referencia AD	BT	Capacidad	L	D
S17.403.13	BT 40	1-13	105	48
S17.503.13	BT 50	1-13	115	48



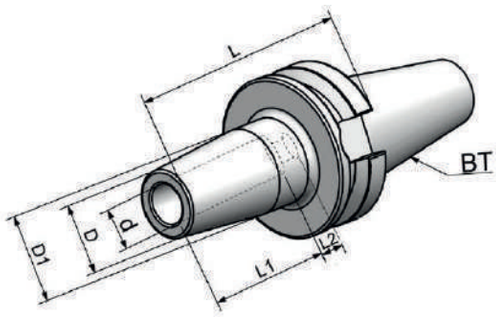


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Portaherramientas Térmicos 4.5º – MAS 403 BT AD/B G2.5 - 25.000 Rpm

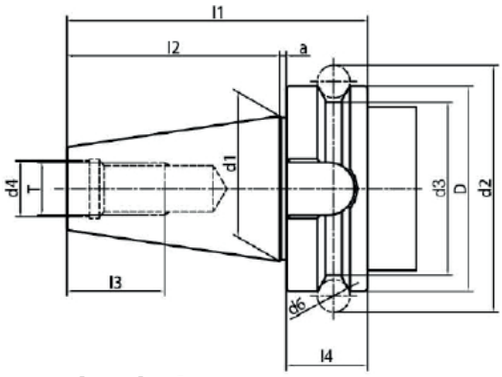
Referencia	SK	d	L	D	D1
S04.446.03	BT 40	3	80	15	20
S04.446.04	BT 40	4	80	15	20
S04.446.05	BT 40	5	80	15	20
S04.446.06	BT 40	6	80	20	27
S04.446.08	BT 40	8	90	20	27
S04.446.10	BT 40	10	90	24	32
S04.446.12	BT 40	12	90	24	32
S04.446.14	BT 40	14	90	27	34
S04.446.16	BT 40	16	90	27	34
S04.446.18	BT 40	18	90	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
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

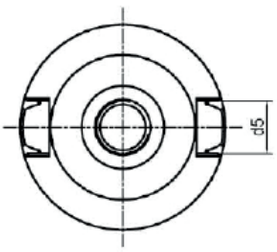




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MAS 403 BBT – Doble Contacto





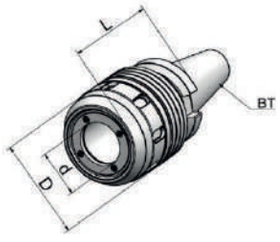
Dimensiones Generales de Amarre

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 – 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

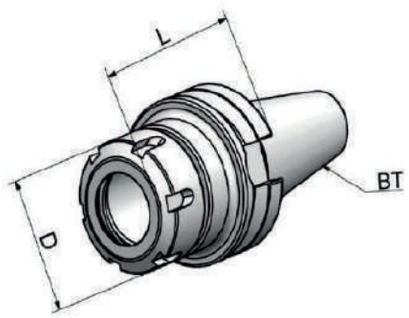




Portapinzas Tipo ER – MAS 403 BBT AD/B 6.3 - 15.000 Rpm

Referencia	BT	Capacidad	L	D
S02.309.10	BBT 30	1-10 (ER 16)	70	32
S02.309.16	BBT 30	2-16 (ER 25)	70	42
S02.309.20	BBT 30	2-20 (ER 32)	70	50
S02.309.26	BBT 30	3-26 (ER 40)	70	63
S02.409.10	BBT 40	1-10 (ER 16)	63	32
S02.409.16	BBT 40	2-16 (ER 25)	60	42
S02.409.20	BBT 40	2-20 (ER 32)	70	50
S02.409.26	BBT 40	3-26 (ER 40)	80	63
S02.409.10.1	BBT 40	1-10 (ER 16)	100	32
S02.409.16.1	BBT 40	2-16 (ER 25)	100	42
S02.409.20.1	BBT 40	2-20 (ER 32)	100	50
S02.409.26.1	BBT 40	3-26 (ER 40)	100	63
S02.409.10.2	BBT 40	1-10 (ER 16)	160	32
S02.409.16.2	BBT 40	2-16 (ER 25)	160	42
S02.409.20.2	BBT 40	2-20 (ER 32)	160	50
S02.409.26.2	BBT 40	3-26 (ER 40)	160	63
S02.509.10	BBT 50	1-10 (ER 16)	70	32
S02.509.16	BBT 50	2-16 (ER 25)	70	42
S02.509.20	BBT 50	2-20 (ER 32)	70	50
S02.509.26	BBT 50	3-26 (ER 40)	80	63



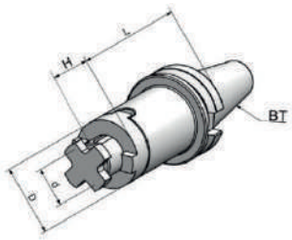


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Eje Portafresas Combinado – MAS 403 BBT AD/B 6.3 - 15.000 Rpm

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

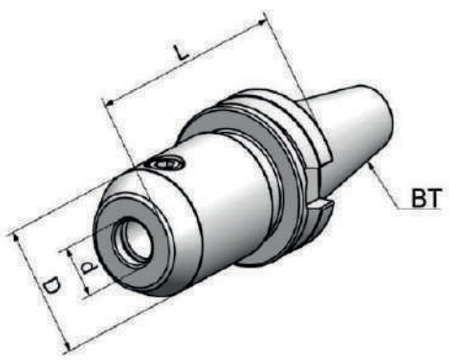




Portafresas Tipo Weldon – MAS 403 BBT AD/B 6.3 - 15.000 Rpm

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



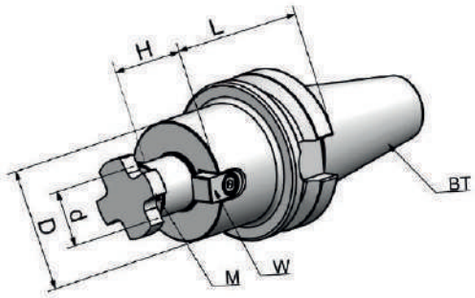


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Eje Portafresas – MAS 403 BBT AD/B 6.3 - 15.000 Rpm

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

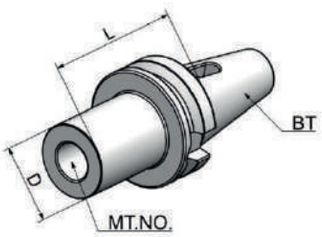




Porta Reductor Cono Morse DIN 228 – MAS 403 BBT AD/B 6.3 - 15.000 Rpm

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



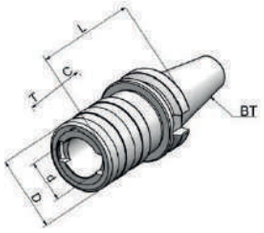


Eje Adaptador Pinzas de – MAS 403 BBT A 6.3 - 15.000 Rpm

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.

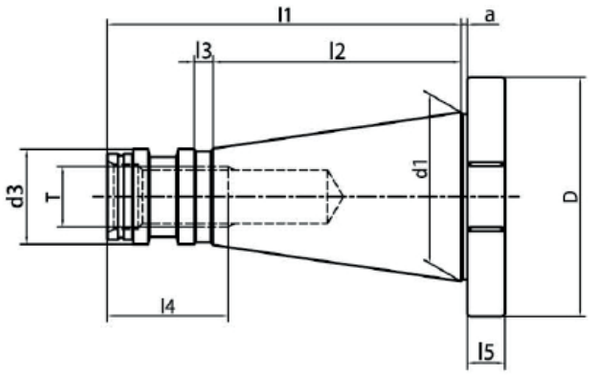
Referencia	BT	Capacidad	Serie	L	D
S16.409.12	BBT 40	M3-M14	1	65	38
S16.409.20	BBT 40	M5-M22	2	93	53

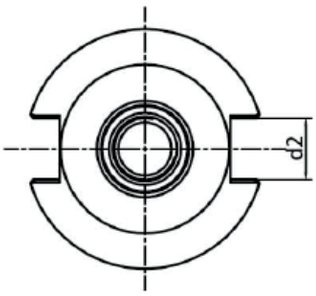




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DIN 2080





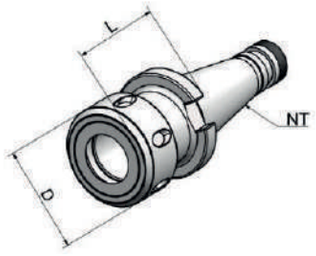
Dimensiones Generales de Amarre

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

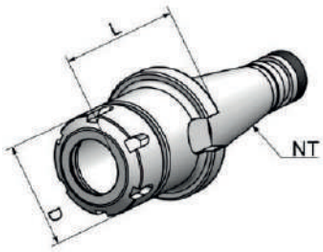




Portapinzas Tipo ER – DIN 2080 AD 6.3 - 15.000 Rpm

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

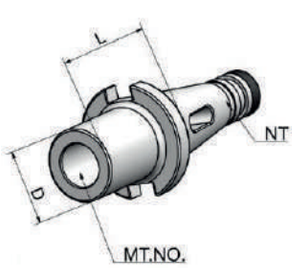




Reductor Cono Morse DIN 228 - DIN 2080 AD 6.3 - 15.000 Rpm

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



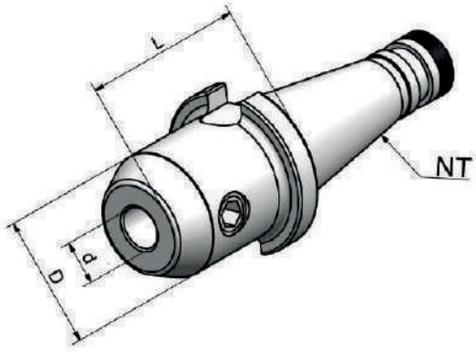


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Portaherramientas Tipo Weldon – DIN 2080 AD 6.3 - 15.000 Rpm

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

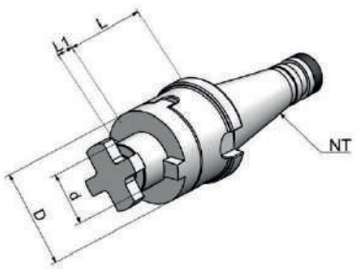




Eje Portafresas Combinado – DIN 2080 AD 6.3 - 15.000 Rpm

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

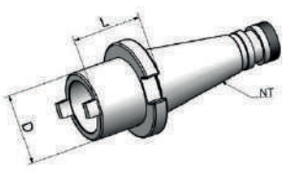




Porta Reductor – DIN 2080 AD 6.3 - 15.000 Rpm

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

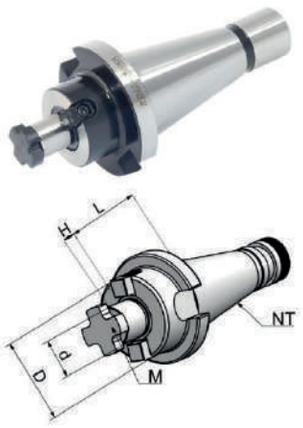




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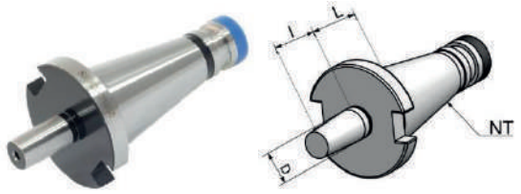
Eje Portafresas – DIN 2080 AD 6.3 - 15.000 Rpm

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



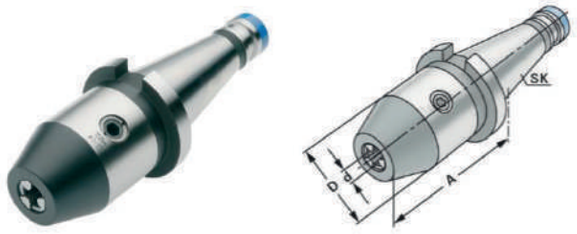
Eje Adaptador DIN – DIN 2080 AD 6.3 - 15.000 Rpm

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

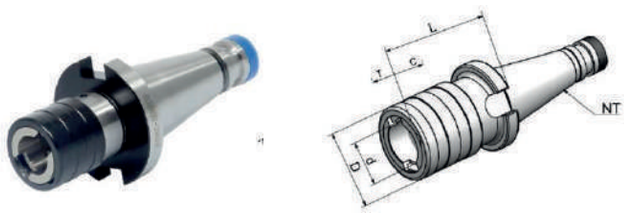
Referencia	ISO	Capacidad	A	D
S15.301.08	ISO 30	0-8	60	36
S15.301.13	ISO 30	1-13	90	50
S15.301.16	ISO 40	2.5-16	95	50
S15.401.08	ISO 40	0-8	63	36
S15.401.13	ISO 40	1-13	83	50
S15.401.16	ISO 50	2.5-16	88	50
S15.501.13	ISO 50	1-13	85	50
S15.501.16	ISO 50	2.5-16	90	50



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

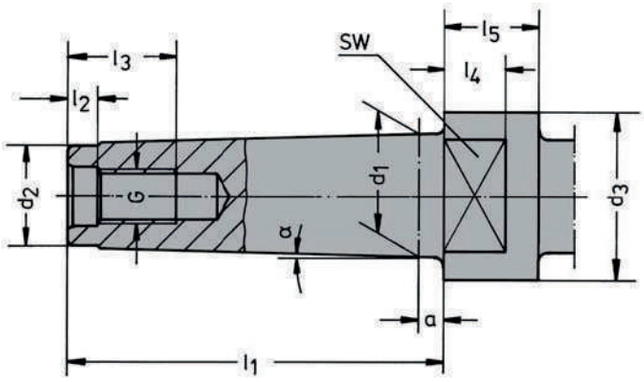
Eje Adaptador Pinzas de Roscado con Sistema de Embrague. Disponible para la Serie 1 (19 mm), Serie 2 (…) y Serie 3 (…)

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



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DIN 228

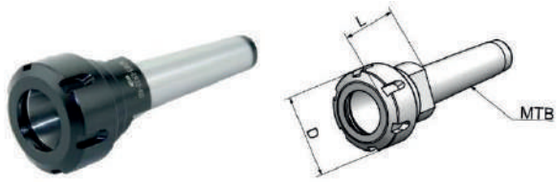


Dimensiones Generales de Amarre

SK	Grados	G	A	D1	D2 Max	D3	Entre D9	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

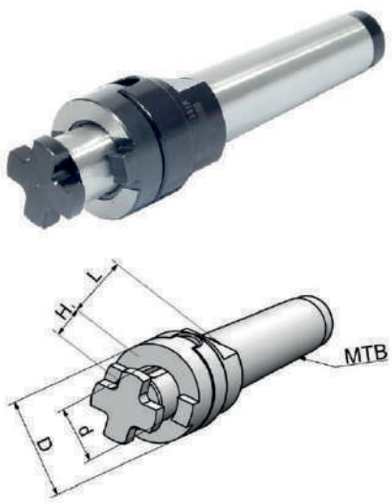
Portapinzas Tipo Cono Morse – DIN 228 - 1A

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



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



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Eje de Amarre DIN – DIN 228 - 1B

Referencia	CM	Amarre	L
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

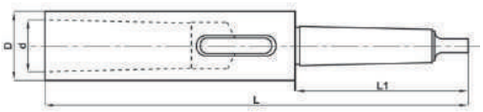


Casquillo Adaptador Cono Morse

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

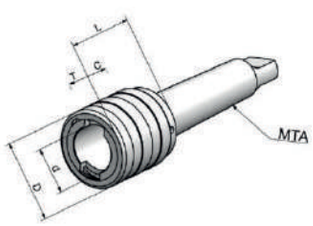
Totalmente rectificado interior/exterior. Según Din 218.

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

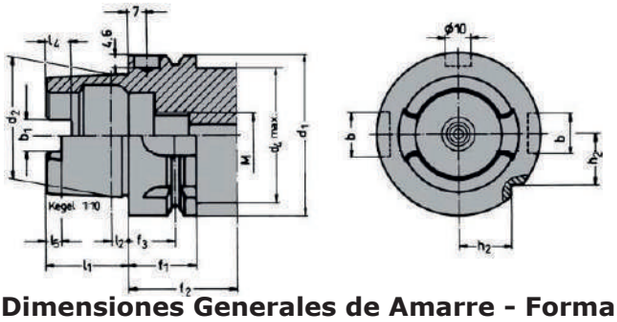
Referencia	CM	Capacidad	Serie	L
S16.107.212	2	M3 – M14	1	46
S16.107.320	3	M5 – M22	2	70
S16.107.410	4	M3 – M14	1	85
S16.107.420	4	M5 – M22	2	85
S16.107.430	4	M14 – M36	3	85
S16.107.450	5	M14 – M36	3	103





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DIN 69893 – HSK

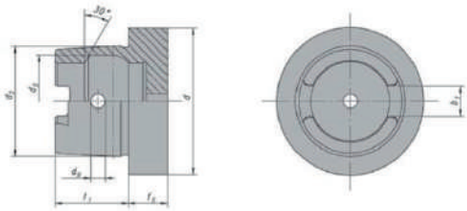


Dimensiones Generales de Amarre - Forma A

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

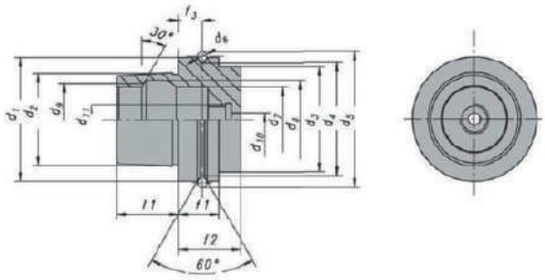
Dimensiones Generales de Amarre - Forma C

D1	L1	F5	D2	D5	D9	B1
32	16	10	24	21	4	7.05
40	20	10	30	25.5	4.6	8.05
50	25	12.5	38	32	6	10.54
63	32	12.5	48	40	7.5	12.54
80	40	16	60	50	8.5	16.04
100	50	16	75	63	12	20.02



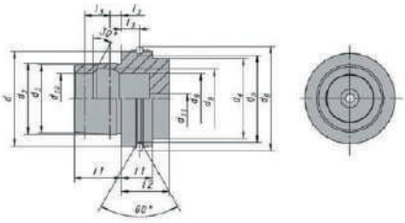
Dimensiones Generales de Amarre - Forma E

D1	D2	D4	D3	D5	D6	D8	D9	D10	F1	F2	F3	L1	L2	L3
25	19	26	18.15	22	28.5	14	16.4	15	10	20	4.5	13	7.21	8.5
32	24	34	23.27	26.5	37	17	21	19	20	35	16	16	8.92	7.3
40	30	42	29.05	34.8	45	21	25.5	23	20	35	16	20	11.42	9.5
50	38	53	36.90	43	59.3	26	32	29	26	42	18	25	14.13	11.0
63	48	67	46.53	55	72.3	34	40	37	26	42	18	32	18.13	14.7



Dimensiones Generales de Amarre - Forma F

D1	D2	D3	D4	D3	D5	D6	D8	D9	D10	F1	F2	F2	L1	L2	L3
50	30	29.05	42	36.90	43	59.3	21	25.5	23	26	42	18	2o	4	9.5
63	38	36.90	53	46.53	55	72.3	26	32	29	26	42	18	25	5	11



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

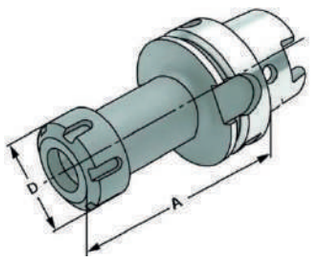
Referencia	HSK	Capacidad	A	D
S01.A63.16	A-63	2-16 (OZ16)	100	43
S01.A63.25	A-63	2-25 (OZ25)	100	60
S01.A63.32	A-63	3-32 (OZ32)	120	72
S01.A100.16	A-100	2-16 (OZ16)	110	43
S01.A100.25	A-100	2-25 (OZ25)	120	60
S01.A100.32	A-100	3-32 (OZ32)	130	72



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

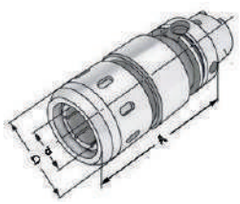




HSK - Forma A - Porta-Pinzas Gran Apriete HKS - G6.3 - 15.000 Rpm

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

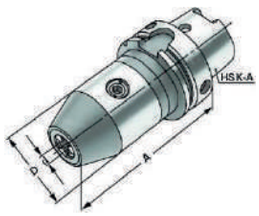




HSK - Forma A - Portabrocas CNC - G6.3 - 15.000 Rpm

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

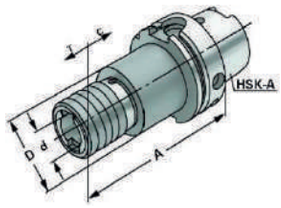




HSK - Forma A - Eje Adaptador Pinza de Roscado con Embrague - G6.3 - 15.000 Rpm

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

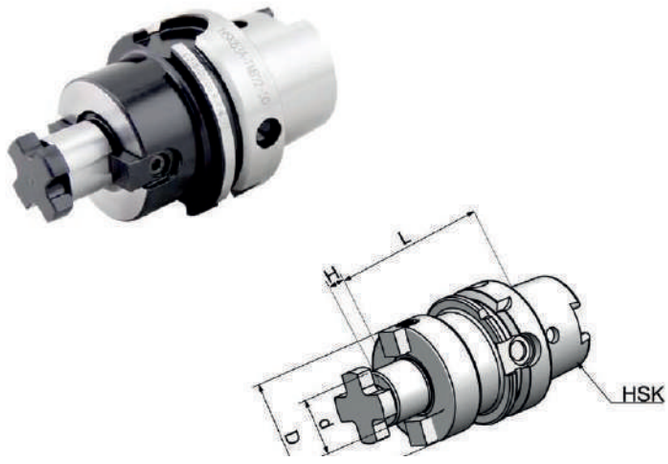




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HSK - Forma A - Eje Portafresas DIN 6357 - G6.3 - 15.000 Rpm

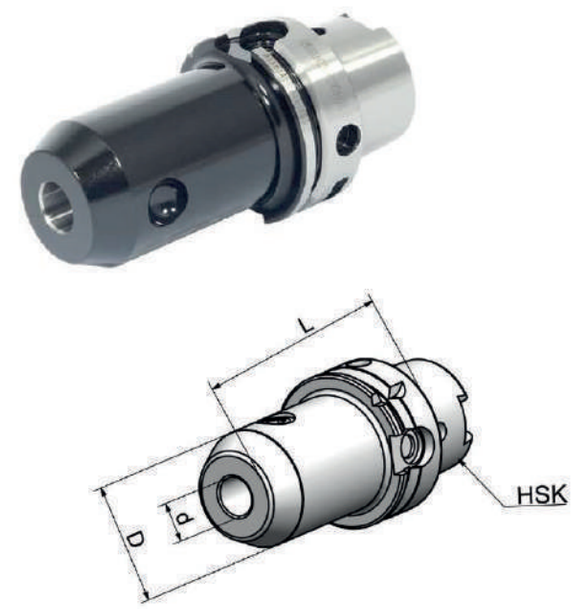
Referencia	HSK	Capacidad	L	H	D
S11.A63.16	A-63	16	65	17	38
S11.A63.22	A-63	22	65	19	48
S11.A63.27	A-63	27	65	21	58
S11.A63.32	A-63	32	80	24	78
S11.A63.40	A-63	40	80	27	88
S11.A63.16.1	A-63	16	80	17	38
S11.A63.22.1	A-63	22	80	19	48
S11.A63.27.1	A-63	27	80	21	58
S11.A63.32.1	A-63	32	110	24	78
S11.A63.40.1	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

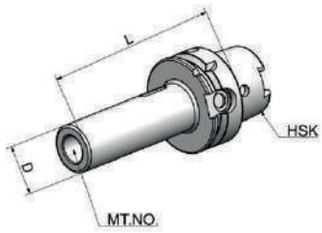


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HSK - Forma A - Eje Reductor Cono Morse DIN 6383 - G6.3 - 15.000 Rpm

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

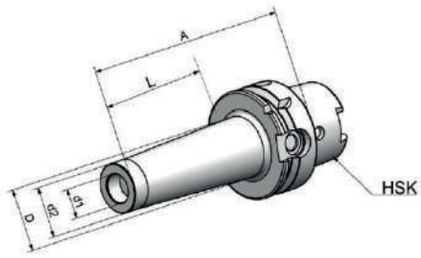




HSK - Forma A - Eje Portafresas Roscado – HSK - A63 - G6.3 - 15.000 Rpm

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



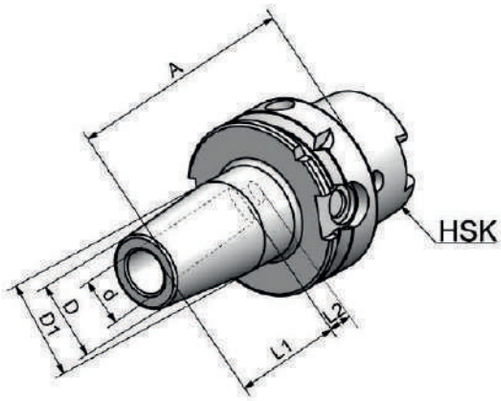


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HSK - Forma A - Porta Térmicos DIN 1835 - B – G2.5 – 25.000 Rpm

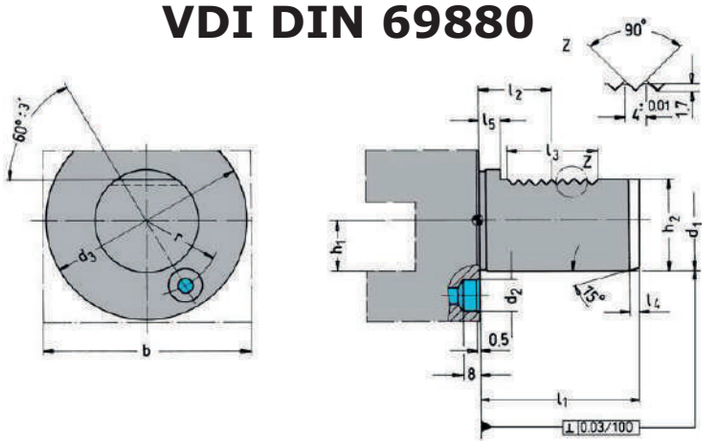
Referencia	HSK	d	A	D	D1
S046.A63.03	A-63	3	80	11	15
S046.A63.04	A-63	4	80	14	22
S046.A63.05	A-63	5	80	16	22
S046.A63.06	A-63	6	80	21	27
S046.A63.08	A-63	8	80	21	27
S046.A63.10	A-63	10	85	24	32
S046.A63.12	A-63	12	90	24	32
S046.A63.14	A-63	14	90	27	34
S046.A63.16	A-63	16	95	27	34
S046.A63.18	A-63	18	95	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
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





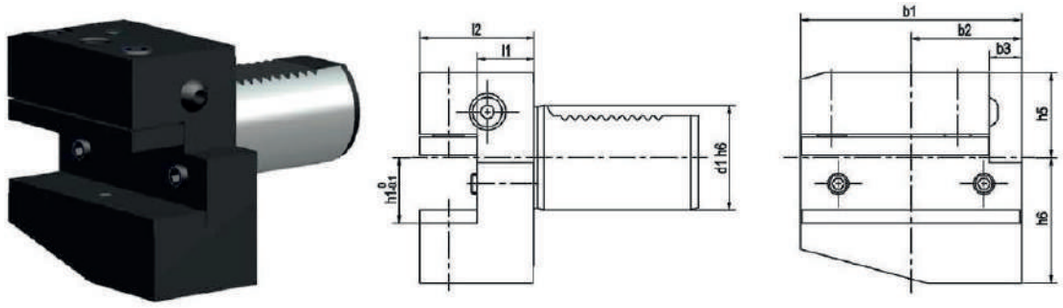
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VDI DIN 69880



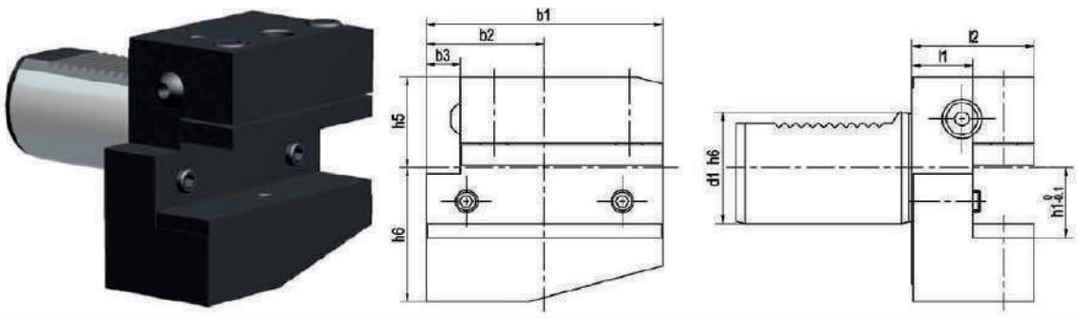
D1/h6	B	H1	D2	D3	H2	R	H	L2	L3	L4	L5
16	42	12	8	40	15.0	14.5	32	12.7	16	2	3.8
20	52	16	10	50	18.0	18.0	40	21.7	24	2	7.0
25	60	16	10	58	23.5	21.0	48	21.7	24	2	7.0
30	70	20	14	68	27.0	25.0	55	29.7	40	2	7.0
40	85	25	14	83	36.0	32.0	63	29.7	40	3	7.0
50	100	32	16	98	45.0	37.0	78	35.7	48	3	8.0

Portaherramientas VDI - B1 Derecha



Referencia	Dimensiones	D1	H1	H2	L1	L2	B1	B2	B3	H5	H6
S31.169.12	Ø 16 – 16x12x24	16	12	-	13	24	42	23	5	20	22
S31.209.16	Ø 20 – 20x16x30	20	16	12	16	30	55	30	7	25	30
S31.309.20	Ø 30 – 30x20x40	30	20	16	22	40	70	35	10	28	38
S31.409.25	Ø 40 – 40x25x44	40	25	20	22	44	85	42.5	12.5	32.5	48
S31.509.32	Ø 50 – 50x32x55	50	32	25	30	55	100	50	16	35	60

Portaherramientas VDI – B2 Izquierda

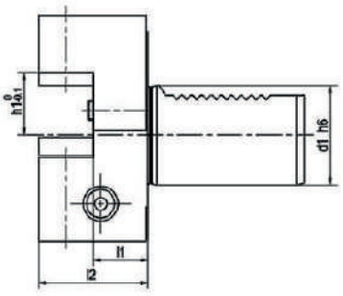


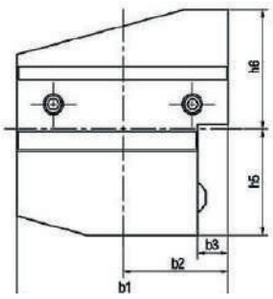
Referencia	Dimensiones	D1	H1	H2	L1	L2	B1	B2	B3	H5	H6
S32.169.12	Ø 16 – 16x12x24	16	12	-	13	24	42	23	5	20	22
S32.209.16	Ø 20 – 20x16x30	20	16	12	16	30	55	30	7	25	30
S32.309.20	Ø 30 – 30x20x40	30	20	16	22	40	70	35	10	28	38
S32.409.25	Ø 40 – 40x25x44	40	25	20	22	44	85	42.5	12.5	32.5	48
S32.509.32	Ø 50 – 50x32x55	50	32	25	30	55	100	50	16	35	60

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Portaherramientas VDI - B3 Derecha



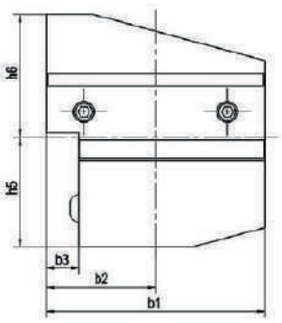


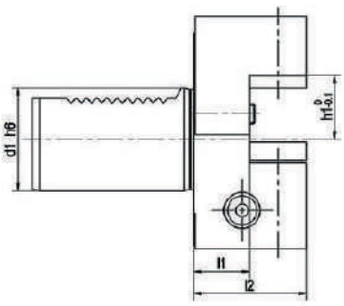


Referencia	Dimensiones	D1	H1	H2	L1	L2	B1	B2	B3	H5	H6
S33.169.12	Ø 16 – 16x12x24	16	12	-	13	24	42	23	5	20	22
S33.209.16	Ø 20 – 20x16x30	20	16	12	16	30	55	30	7	25	30
S33.309.20	Ø 30 – 30x20x40	30	20	16	22	40	70	35	10	28	38
S33.409.25	Ø 40 – 40x25x44	40	25	20	22	44	85	42.5	12.5	32.5	48
S33.509.32	Ø 50 – 50x32x55	50	32	25	30	55	100	50	16	35	60

Portaherramientas VDI – B4 Izquierda



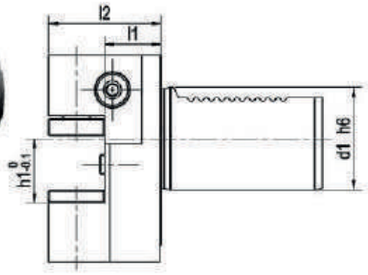


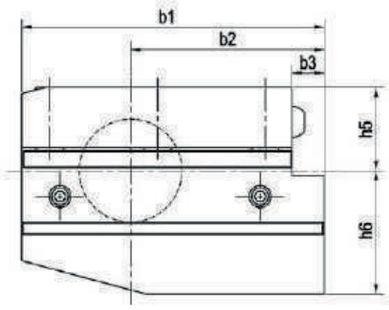


Referencia	Dimensiones	D1	H1	H2	L1	L2	B1	B2	B3	H5	H6
S34.169.12	Ø 16 – 16x12x24	16	12	-	13	24	42	23	5	20	22
S34.209.16	Ø 20 – 20x16x30	20	16	12	16	30	55	30	7	25	30
S34.309.20	Ø 30 – 30x20x40	30	20	16	22	40	70	35	10	28	38
S34.409.25	Ø 40 – 40x25x44	40	25	20	22	44	85	42.5	12.5	32.5	48
S34.509.32	Ø 50 – 50x32x55	50	32	25	30	55	100	50	16	35	60

Portaherramientas VDI – B5 Derecha



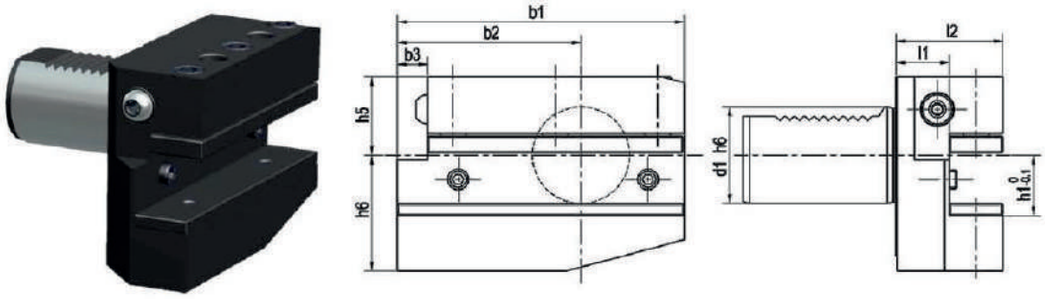




Referencia	Dimensiones	d1	b1	b2	b3	L1	L2	h1	h5	h6
S35.169.12	Ø 16 – 16x12x24	16	58	39	5	13	24	12	22	20
S35.209.16	Ø 20 – 20x16x30	20	75	50	7	16	30	16	25	30
S35.309.20	Ø 30 – 30x20x40	30	100	65	10	22	40	20	28	38
S35.409.25	Ø 40 – 40x25x44	40	118	75.5	12.5	22	44	25	32.5	48
S35.509.32	Ø 50 – 50x32x55	50	130	80	16	30	55	32	35	60

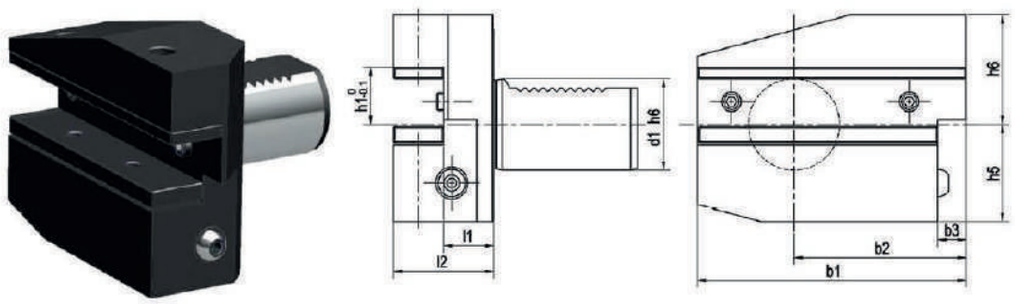
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Portaherramientas VDI – B6 Izquierda



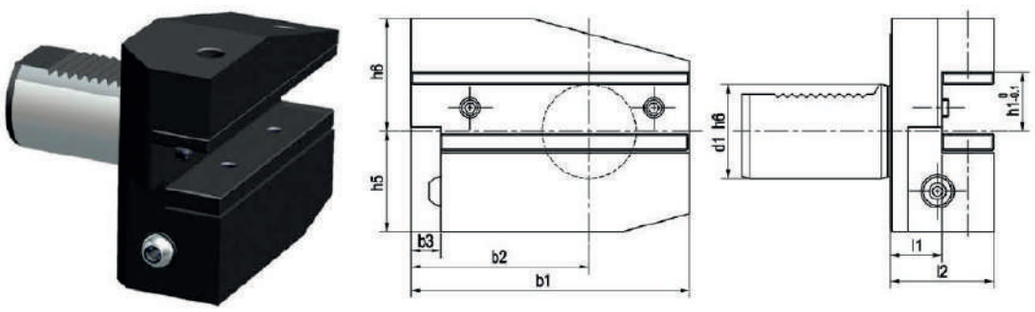
Referencia	Dimensiones	d1	b1	b2	b3	L1	L2	h1	h5	h6
S36.169.12	Ø 16 – 16x12x24	16	58	39	5	13	24	12	22	20
S36.209.16	Ø 20 – 20x16x30	20	75	50	7	16	30	16	25	30
S36.309.20	Ø 30 – 30x20x40	30	100	65	10	22	40	20	28	38
S36.409.25	Ø 40 – 40x25x44	40	118	75.5	12.5	22	44	25	32.5	48
S36.509.32	Ø 50 – 50x32x55	50	130	80	16	30	55	32	35	60

Portaherramientas VDI – B7 Derecha



Referencia	Dimensiones	d1	b1	b2	b3	L1	L2	h1	h5	h6
S37.169.12	Ø 16 – 16x12x24	16	58	39	5	13	24	12	20	22
S37.209.16	Ø 20 – 20x16x30	20	75	50	7	16	30	16	30	25
S37.309.20	Ø 30 – 30x20x40	30	100	65	10	22	40	20	38	35
S37.409.25	Ø 40 – 40x25x44	40	118	75.5	12.5	22	44	25	48	42.5
S37.509.32	Ø 50 – 50x32x55	50	130	80	16	30	55	32	60	50

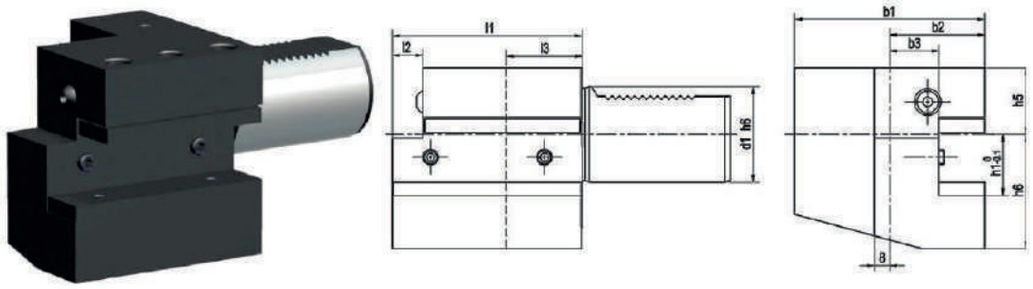
Portaherramientas VDI – B8 Izquierda



Referencia	Dimensiones	d1	b1	b2	b3	L1	L2	h1	h5	h6
S38.169.12	Ø 16 – 16x12x24	16	58	39	5	13	24	12	20	22
S38.209.16	Ø 20 – 20x16x30	20	75	50	7	16	30	16	30	25
S38.309.20	Ø 30 – 30x20x40	30	100	65	10	22	40	20	38	35
S38.409.25	Ø 40 – 40x25x44	40	118	75.5	12.5	22	44	25	48	42.5
S38.509.32	Ø 50 – 50x32x55	50	130	80	16	30	55	32	60	50

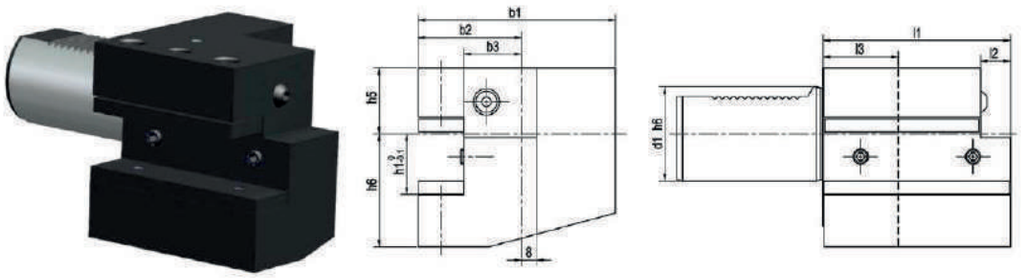
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Portaherramientas VDI – C1 Derecha



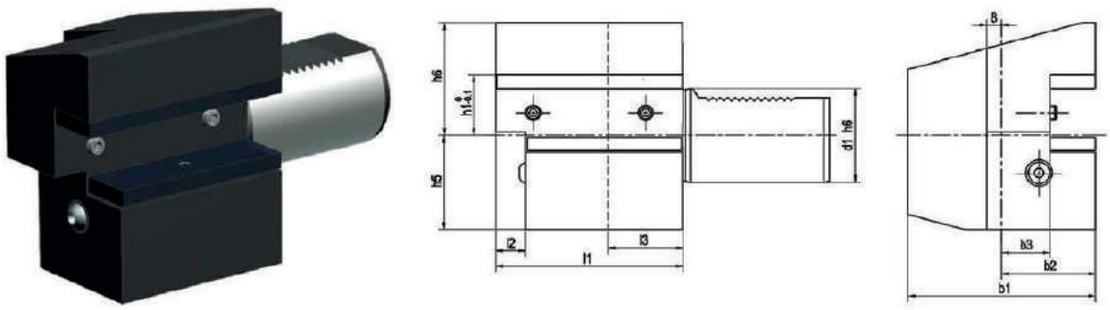
Referencia	Dimensiones	D1	H1	H2	L1	L2	B1	B2	B3	H5	H6
S41.169.12	Ø 16 – 16x12x24	16	12	-	13	24	42	23	5	20	22
S41.209.16	Ø 20 – 20x16x30	20	16	12	16	30	55	30	7	25	30
S41.309.20	Ø 30 – 30x20x40	30	20	16	22	40	70	35	10	28	38
S41.409.25	Ø 40 – 40x25x44	40	25	20	22	44	85	42.5	12.5	32.5	48
S41.509.32	Ø 50 – 50x32x55	50	32	25	30	55	100	50	16	35	60

Portaherramientas VDI – C2 Izquierda



Referencia	Dimensiones	D1	H1	H2	L1	L2	B1	B2	B3	H5	H6
S42.169.12	Ø 16 – 16x12x24	16	12	-	13	24	42	23	5	20	22
S42.209.16	Ø 20 – 20x16x30	20	16	12	16	30	55	30	7	25	30
S42.309.20	Ø 30 – 30x20x40	30	20	16	22	40	70	35	10	28	38
S42.409.25	Ø 40 – 40x25x44	40	25	20	22	44	85	42.5	12.5	32.5	48
S42.509.32	Ø 50 – 50x32x55	50	32	25	30	55	100	50	16	35	60

Portaherramientas VDI – C3 Derecha

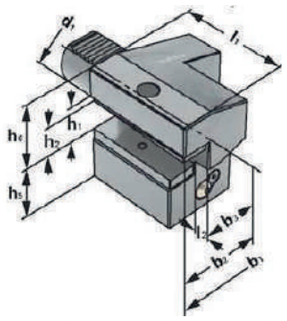


Referencia	Dimensiones	D1	H1	H2	L1	L2	B1	B2	B3	H5	H6
S43.169.12	Ø 16 – 16x12x24	16	12	-	13	24	42	23	5	20	22
S43.209.16	Ø 20 – 20x16x30	20	16	12	16	30	55	30	7	25	30
S43.309.20	Ø 30 – 30x20x40	30	20	16	22	40	70	35	10	28	38
S43.409.25	Ø 40 – 40x25x44	40	25	20	22	44	85	42.5	12.5	32.5	48
S43.509.32	Ø 50 – 50x32x55	50	32	25	30	55	100	50	16	35	60

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Portaherramientas VDI – C4 Izquierda

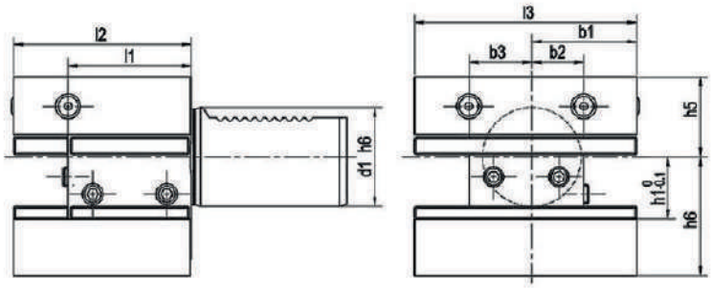




Referencia	Dimensiones	D1	H1	H2	L1	L2	B1	B2	B3	H5	H6
S44.169.12	Ø 16 – 16x12x24	16	12	-	13	24	42	23	5	20	22
S44.209.16	Ø 20 – 20x16x30	20	16	12	16	30	55	30	7	25	30
S44.309.20	Ø 30 – 30x20x40	30	20	16	22	40	70	35	10	28	38
S44.409.25	Ø 40 – 40x25x44	40	25	20	22	44	85	42.5	12.5	32.5	48
S44.509.32	Ø 50 – 50x32x55	50	32	25	30	55	100	50	16	35	60

Portaherramientas VDI – D1

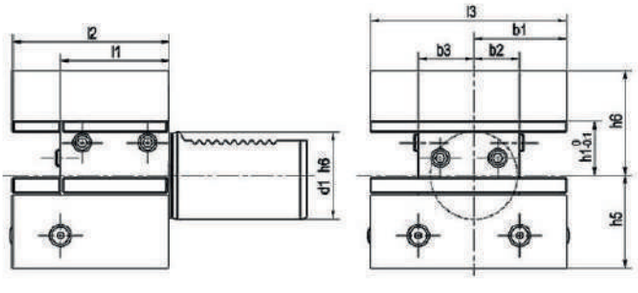




Referencia	Dimensiones	d1	b1	L2	h1	h2
S89.309.12	Ø 30 – 30x20x76	30	76	60	20	66
S89.409.16	Ø 40 – 40x25x90	40	90	72	25	80.5
S89.509.20	Ø 50 – 50x32x105	50	105	85	32	95

Portaherramientas VDI – D2



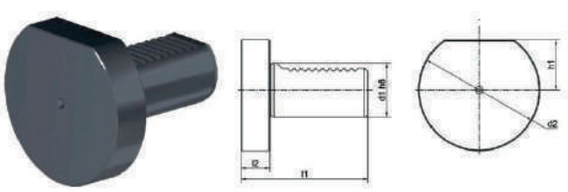


Referencia	Dimensiones	d1	b1	L2	h1	h2
S90.309.12	Ø 30 – 30x20x76	30	76	60	20	73
S90.409.16	Ø 40 – 40x25x90	40	90	72	25	90.5
S90.509.20	Ø 50 – 50x32x105	50	105	85	32	110

Tapa Protección VDI – Z2

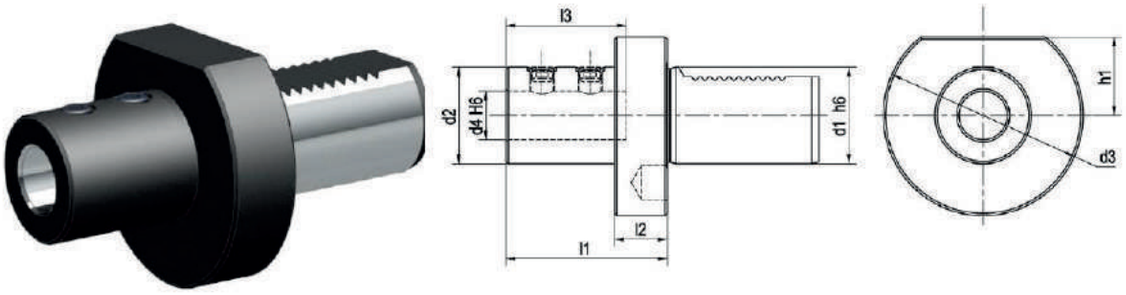
Tapa de Protección para el cierre del portaherramientas cuando no se usa. Protección de plástico.

Referencia	Dimensiones	D1	D	l2
S30.169.13	16 X 13	16	40	13
S30.209.16	20 x 16	20	50	16
S30.309.20	30 x 16	30	68	16
S30.409.20	40 x 20	40	83	20
S30.509.20	50 x 30	50	98	20



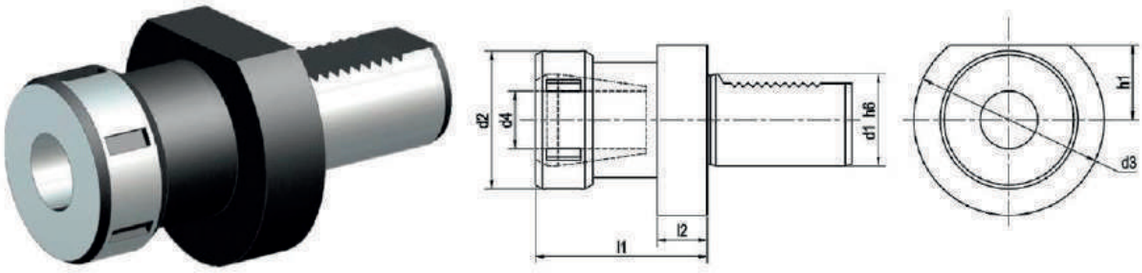
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Portaherramientas VDI – E1



Referencia	Dimensiones	D1	D2	D4	D	H1	H2	L1	L2
S51.209.16	E1 – 20 X 16	20	16	40	50	22	22	67	18
S51.209.20	E1 – 20 X 20	20	20	40	50	22	22	67	18
S51.209.25	E1 – 20 X 25	30	25	45	50	22	22	71	18
S51.309.16	E1 – 30 X 16	30	16	36	68	28	30	64	22
S51.309.20	E1 – 30 X 20	30	20	40	68	28	30	67	22
S51.309.25	E1 – 30 X 25	30	25	45	68	28	30	71	22
S51.309.32	E1 – 30 X 32	30	32	52	68	28	30	75	22
S51.309.40	E1 – 30 X 40	30	40	60	68	28	30	95	22
S51.409.16	E1 – 40 X 16	40	16	36	83	32.5	-	64	22
S51.409.20	E1 – 40 X 20	40	20	40	83	32.5	-	67	22
S51.409.25	E1 – 40 X 25	40	25	45	83	32.5	-	75	22
S51.409.32	E1 – 40 X 32	40	32	52	83	32.5	-	75	22
S51.409.40	E1 – 40 X 40	40	40	65	83	32.5	-	90	22
S51.509.16	E1 – 50 X 16	50	16	40	98	35	-	66	30
S51.509.20	E1 – 50 X 20	50	20	40	98	35	-	66	30
S51.509.25	E1 – 50 X 25	50	25	45	98	35	-	80	30
S51.509.32	E1 – 50 X 32	50	32	52	98	35	-	80	30
S51.509.40	E1 – 50 X 40	50	40	65	98	35	-	90	30
S51.509.50	E1 – 50 X 50	50	50	75	98	35	-	100	30

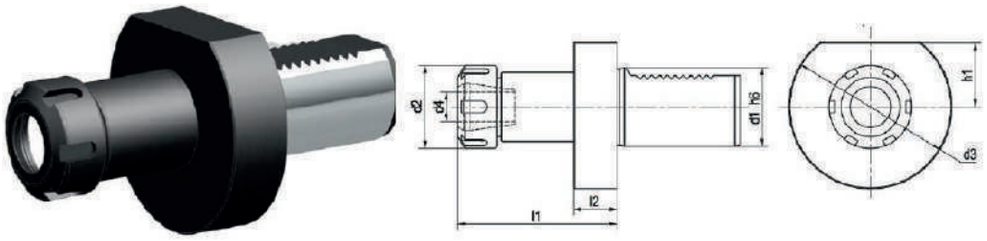
Portaherramientas VDI – E3 Pinzas OZ



Referencia	Dimensiones	D1	Capacidad	D	D4	H1	H2	L1	L2
S01.169.16	E3 – 16 x 2 – 16	16	OZ16 – 2.16	40	43	18	18	45.5	13
S01.209.16	E3 – 20 x 2 – 16	20	OZ16 – 2.16	50	43	23	23	57	18
S01.309.16	E3 – 30 x 2 - 16	30	OZ16 – 2.16	68	43	28	30	57	22
S01.309.25	E3 – 30 x 2 – 25	30	OZ25 – 2.25	68	60	28	30	75	22
S01.409.25	E3 – 40 x 2 – 25	40	OZ25 – 2.25	83	60	32.5	-	75	22
S01.409.32	E3 – 40 x 3 – 32	40	OZ32 – 3.32	83	72	32.5	-	90	22
S01.509.25	E3 – 50 x 2 – 25	50	OZ25 – 2.25	98	60	35	-	75	30
S01.509.32	E3 – 50 x 3 – 32	50	OZ32 – 3.32	98	72	35	-	90	30

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Portaherramientas VDI – E2

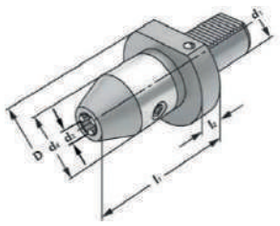


Referencia	Dimensiones	D1	D2	D	D4	H1	H2	L1	L2
S52.169.06	E2 – 16 X 06	16	6	40	32	18	18	44	13
S52.169.08	E2 – 16 X 08	16	8	40	32	18	18	44	13
S52.169.10	E2 – 16 X 10	16	10	40	32	18	18	44	13
S52.169.12	E2 – 16 X 12	16	12	40	40	18	18	44	13
S52.169.16	E2 – 16 X 16	16	16	40	40	18	18	44	13
S52.209.08	E2 – 20 X 08	20	8	50	40	-	23	50	18
S52.209.10	E2 – 20 X 10	20	10	50	40	-	23	50	18
S52.209.12	E2 – 20 X 12	20	12	50	40	-	23	50	18
S52.209.16	E2 – 20 X 16	20	16	50	40	-	23	50	18
S52.309.08	E2 – 30 X 08	30	8	68	55	28	30	60	22
S52.309.10	E2 – 30 X 10	30	10	68	55	28	30	60	22
S52.309.12	E2 – 30 X 12	30	12	68	55	28	30	60	22
S52.309.16	E2 – 30 X 16	30	16	68	55	28	30	60	22
S52.309.20	E2 – 30 X 20	30	20	68	55	28	30	60	22
S52.309.25	E2 – 30 X 25	30	25	68	55	28	30	60	22
S52.309.32	E2 – 30 X 32	30	32	68	68	28	30	75	22
S52.409.08	E2 – 40 X 08	40	8	83	55	32.5	-	75	22
S52.409.10	E2 – 40 X 10	40	10	83	55	32.5	-	75	22
S52.409.12	E2 – 40 X 12	40	12	83	55	32.5	-	75	22
S52.409.16	E2 – 40 X 16	40	16	83	55	32.5	-	75	22
S52.409.20	E2 – 40 X 20	40	20	83	55	32.5	-	75	22
S52.409.25	E2 – 40 X 25	40	25	83	55	32.5	-	75	22
S52.409.32	E2 – 40 X 32	40	32	83	55	32.5	-	75	22
S52.409.40	E2 – 40 X 40	40	40	83	83	32.5	-	90	22
S52.509.12	E2 – 50 X 12	50	12	98	68	35	-	90	30
S52.509.16	E2 – 50 X 16	50	16	98	68	35	-	90	30
S52.509.20	E2 - 50 X 20	50	20	98	68	35	-	90	30
S52.509.25	E2 – 50 X 25	50	25	98	68	35	-	90	30
S52.509.32	E2 – 50 X 32	50	32	98	68	35	-	90	30
S52.509.40	E2 – 50 X 40	50	40	98	98	35	-	90	30
S52.509.50	E2 – 50 X 50	50	50	98	98	35	-	100	30

Portaherramientas VDI – Portabrocas CNC

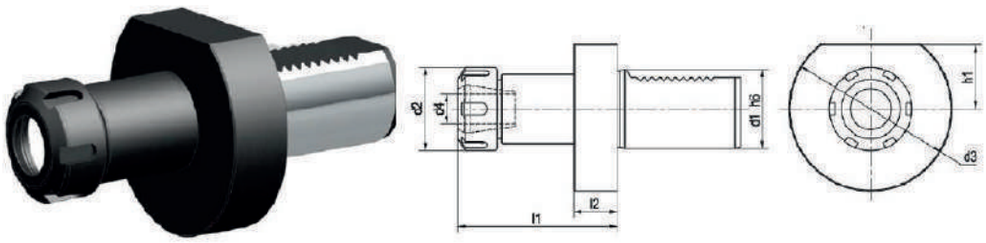
Referencia	D1	D2 – Capacidad	D4	D	L1	L2
S15.209.13	20	1 – 13	50	50	88	18
S15.309.13	30	1 – 13	50	68	93	22
S15.309.16	30	1 – 16	50	68	98	22
S15.409.13	40	1 – 13	50	83	93	22
S15.409.16	40	3 – 16	50	83	98	22
S15.509.13	50	1 – 13	50	98	101	30
S15.509.16	50	3 – 16	50	98	106	30





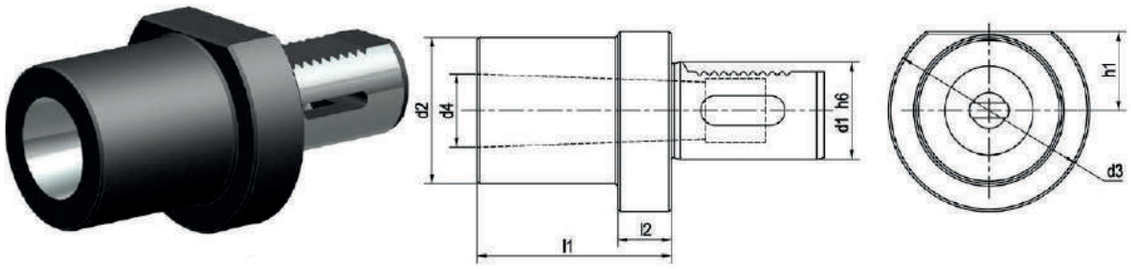
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Portaherramientas VDI – E4 Pinzas ER



Referencia	Dimensiones	D1	Capacidad	D	D4	H1	H2	L1	L2
S02.169.10	E4 – 16 X 1 – 10	16	ER16 – 1.10	40	32	18	18	50	13
S02.209.10	E4 – 20 X 1 – 10	20	ER16 – 1.10	50	32	22	22	55	18
S02.209.16	E4 – 20 X 2 – 16	20	ER25 – 2.16	50	42	22	22	57	18
S02.309.16	E4 – 30 X 2 – 16	30	ER25 – 2.16	68	42	28	30	57	22
S02.309.20	E4 – 30 X 2 – 20	30	ER32 – 2.20	68	50	28	30	75	22
S02.309.26	E4 – 30 X 3 – 26	30	ER40 – 3.26	68	63	28	30	75	22
S02.409.16	E4 – 40 X 2 – 16	40	ER25 – 2.16	83	42	32.5	-	75	22
S02.409.20	E4 – 40 X 2 – 20	40	ER32 – 2.20	83	50	32.5	-	75	22
S02.409.26	E4 – 40 X 3 – 26	40	ER40 – 3.26	83	63	32.5	-	75	22
S02.509.26	E4 – 50 X 3 – 26	50	ER40 – 3.26	98	63	35	-	75	30

Portaherramientas VDI – F1 – Reductor CM

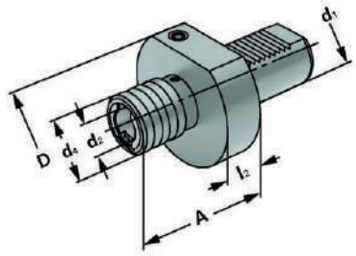


Referencia	Dimensiones	D1	MK/CM	D4	D	L1	L2	H1	H2
S07.169.01	F1 – 16 X MK1	16	1	32	40	32	13	18	18
S07.209.01	F1 – 20 X MK1	20	1	-	50	23	-	22	23
S07.209.02	F1 – 20 X MK2	20	2	40	50	90	30	22	23
S07.309.01	F1 – 30 X MK1	30	1	-	68	27	-	28	30
S07.309.02	F1 – 30 X MK2	30	2	-	68	24	-	28	30
S07.309.03	F1 – 30 X MK3	30	3	58	68	66	22	28	30
S07.409.02	F1 – 40 X MK2	40	2	55	83	36	22	32.5	-
S07.409.03	F1 – 40 X MK3	40	3	55	83	36	22	32.5	-
S07.409.04	F1 – 40 X MK4	40	4	68	83	80	22	32.5	-
S07.509.02	F1 - 50 X MK2	50	2	55	98	36	30	35	-
S07.509.03	F1 – 50 X MK3	50	3	58	98	36	30	35	-
S07.509.04	F1 – 50 X MK4	50	4	68	98	50	30	35	-
S07.509.05	F1 – 50 X MK5	50	5	75	98	168	30	35	-

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Portaherramientas VDI – Porta Roscado CNC

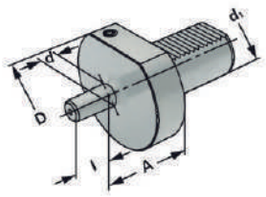




Referencia	D1	Capacidad	Talla	D	A	D4	D2	C	T
S16.209.12	20	M3 – M14	1	50	55	38	19	7	7
S16.309.12	30	M3 – M14	1	68	55	38	19	7	7
S16.309.20	30	M5 – M22	2	68	77	54	31	12	12
S16.409.12	40	M3 – M14	1	83	55	38	19	7	7
S16.409.20	40	M5 – M22	2	83	77	54	31	12	12
S16.509.12	50	M3 – M14	1	98	55	38	19	7	7
S16.509.20	50	M5 – M22	2	98	77	54	31	12	12

Portaherramientas VDI – DIN 238

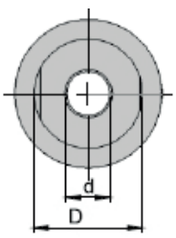
Referencia	Dimensiones	D1	D	d	A	L
S14.309.16	Ø30 - B16	30	B16	68	27	24
S14.409.16	Ø40 - B16	40	B16	83	27	24
S14.509.16	Ø50 - B16	50	B16	98	35	24

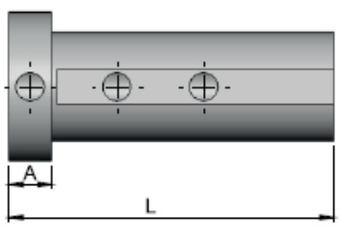


Portaherramientas VDI – E2 – Casquillo Reductor

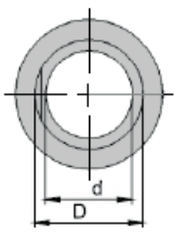
Referencia	Modelo	D	d1 – ø	L
S25.709.(*)	1	25	6 - 8 - 10 - 12	46
S25.709.(*)	2	25	16 - 20	46
S32.709.(*)	1	32	6 - 8 - 10 - 12	56
S32.709.(*)	2	32	16 – 20 - 25	56
S40.709.(*)	1	40	6 - 8 - 10 - 12	71
S40.709.(*)	2	40	16 – 20 - 25 - 32	71

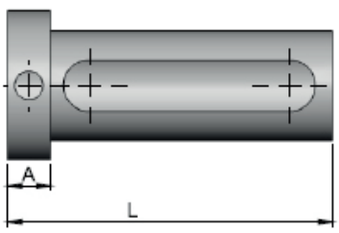
(*) – Cambiar por diámetro disponible





Modelo 1





Modelo 2

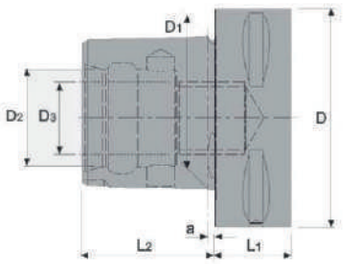
Casquillos Reductores – Grandes Diámetros

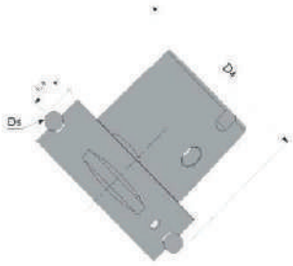
Referencia	Diámetro Ext.	d – Disponibles	L	A	Modelo
S50.709.(*)	50	8-10-12-16-20-25-3	100	15	1
S50.709.(*)	50	40	100	15	2
S60.709.(*)	60	12-16-20-25-32-40	110	18	1
S60.709.(*)	60	50	110	18	2

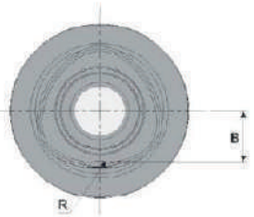
(*) – Cambiar por diámetro disponible

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POLIGONAL ISO 26623-1 (CAPTO)





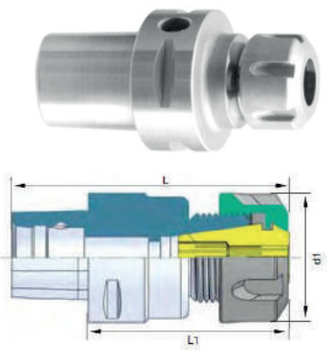


Dimensiones Generales de Amarre

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

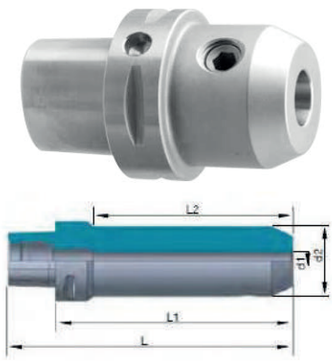
Portapinzas DIN 6499 – Pinzas ER - G6.3 - 25.000 Rpm

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



Porta Weldon - G6.3 - 25.000 Rpm

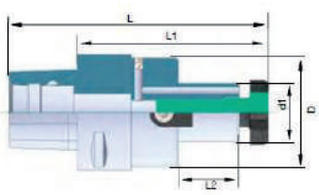
Referencia	d1	L	l1	L2	d2	T
CPT-W6	6	93	55	25	25	M-6
CPT-W8	8	93	55	26	28	M-8
CPT-W10	10	98	60	30	35	M-10
CPT-W12	12	98	60	33	42	M-12
CPT-W14	14	98	60	33.5	44	M-12
CPT-W16	16	103	65	35.5	48	M-14
CPT-W18	18	103	65	39	50	M-14
CPT-W20	20	103	65	37.5	52	M-16
CPT-W25	25	118	80	58	65	M-18
CPT-W32	32	128	90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

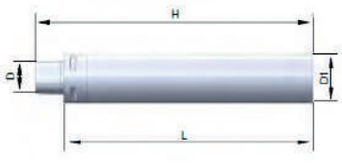




Barra de Mandrinado - G6.3 - 25.000 Rpm

Referencia	D	D1	H	L
CPT-BL6363	63	63	180	158
CPT-BL63120	63	120	180	158

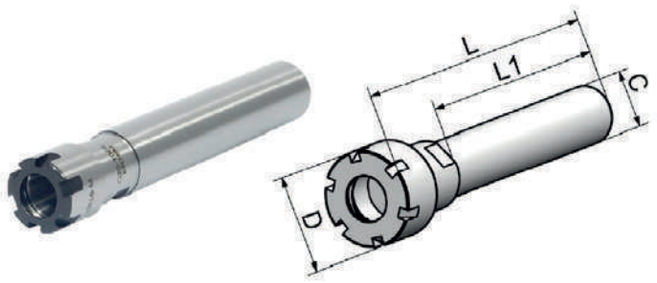




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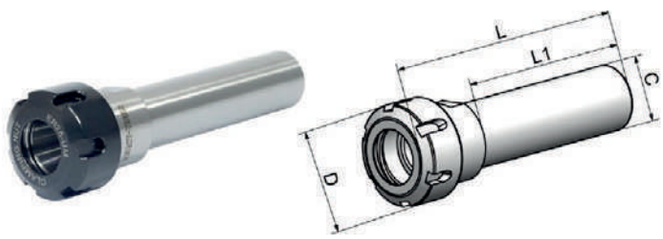
Portapinzas ER - Mango Cilíndrico Tuerca Mini

Referencia	Capacidad	C	D	L1	L
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



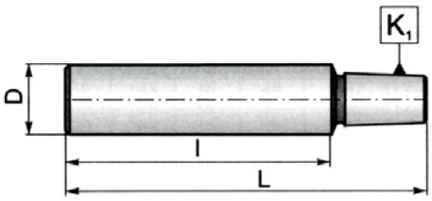
Portapinzas ER - Mango Cilíndrico

Referencia	Capacidad	C	D	L1	L
S02.120.16	1-5 – ER25	25	42	100	144
S02.120.16.1	1-5 – ER25	25	42	150	194
S02.120.16.2	1-5 – 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



Eje de Amarre Cilíndrico – Tipo B

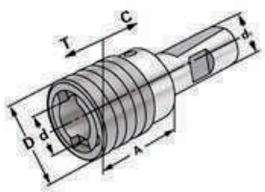
Referencia	Ø Amarre	Longitud Amarre	Cono Amarre	Longitud Total
S15.160.B16	16	50	B16	81
S15.160.B18	16	70	B18	110
S15.200.B16	20	60	B16	93
S15.200.B18	20	60	B18	100
S15.250.B16	25	75	B16	107
S15.300.B16	30	70	B16	106
S15.300.B18	30	70	B18	112



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	T
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	31	19	40.4
S13.00.32	Serie 3	Serie 2	48	31	62.6

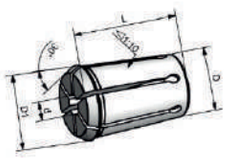
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PINZAS OZ – 0.015 – DIN 6388B

- Pinza OZ-16 – 415E > Disponible en Diámetros 2 a 16 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
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

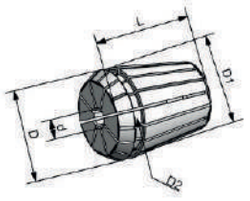


PINZAS ER – 0.015 – DIN 6499B

Datos Técnicos Pinzas ER

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	19.50
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

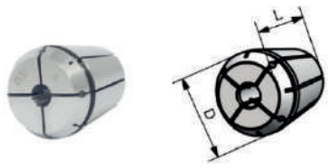
Bajo petición: disponemos de Pinzas de Ultra Precisión con 0.005 (Modelos EP). Las Estándar son de 0.015.

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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 recitifcado y un aguante de presión máxima de hasta 120 bar.

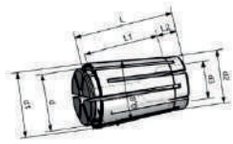
Referencia	Pinza	Diámetros disponibles
426-EX	ER-16	3.4.5.6.7.8.9.10
428-EX	ER-20	3.4.5.6.7.8.9.10.11.12.13
430-EX	ER-25	3.4.5.6.7.8.9.10.11.12.13.14.15.16.18
470-EX	ER-32	3.4.5.6.7.8.9.10.11.12.13.14.15.16.17.18.19.20.21.22
472-EX	ER-40	6.8.10.11.14.16..18.20.25.26.30



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

Pinzas SKS

Referencia	Pinza	Diámetros disponibles
SKS10	SKS10	2 a 10 cada 0.5 mm
SKS16	SKS16	4 a 16 cada 0.5 mm



Pinzas ER – Refrigeración Externa

Orificios en el frontal de la pinza

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



Cilíndricas - Gran Apriete

Referencia ø32	Medida
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 ø25	Medida
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

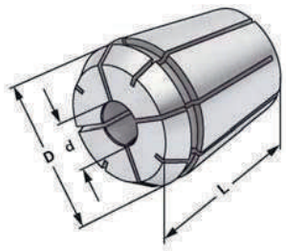
Referencia ø20	Medida
HKS20-03	Ø3
HKS20-04	Ø4
HKS20-05	Ø5
HKS20-06	Ø6
HKS20-07	Ø7
HKS20-08	Ø8
HKS20-09	Ø9
HKS20-10	Ø10
HKS20-11	Ø11
HKS20-12	Ø12
HKS20-13	Ø13
HKS20-14	Ø14
HKS20-15	Ø15
HKS20-16	Ø16



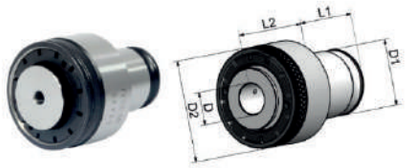
Dimensiones Longitud: HKS32 – 64 mm / HKS25 – 60 mm / HKS20 – 50 mm.

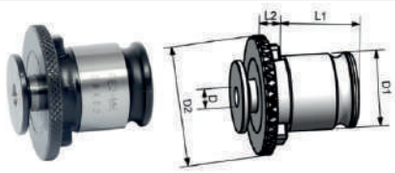
PINZA DIN 6499.A – Machos de Roscado

Referencia	Para Pinza	Cuadradillo	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



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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.M10.2	32	19	25	M10.2	376	7.0	5.5	S01.16.1.M10.2
S11.16.1.M10	32	19	25	M10	371	10.0	8.0	S01.16.1.M10
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.M10	50	31	31	M10	376	7	5.5	S02.16.2.M10
S12.16.2.M10.2	50	31	31	M10.2	371	10	8.0	S02.16.2.M10.2
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

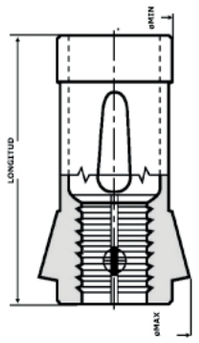
Pinzas de Roscado – Serie 4

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

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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



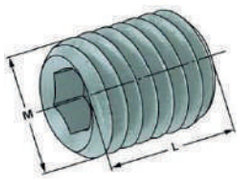
Llaves para Pinzas ER/OZ



Referencia	Para Tuercas	D
LL.01.OZ16	OZ16	40
LL.01.OZ25	OZ25	58
LL.01.OZ32	OZ32	68
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

Referencia ø25	Métrica	Long.	Para Diámetros
S04.101.06	M6x1	10	6
S04.101.08	M8x1	10	8
S04.101.10	M10x1	12	10
S04.101.12	M12x1	16	12 y 14
S04.101.16	M14x1	16	16 y 18
S04.101.20	M16x1	16	20
S04.101.20.1	M16x1	8	-
S04.101.25	M18x2	20	25
S04.101.32	M20x2	20	32
S04.101.40	M20x2	25	40



Anillos Separados Ejes Portafresas DIN 2084-B

Referencia ø25	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.

Limpiaconos para Portaherramientas



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

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

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

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Tuercas OZ / ER / ER Mini / ER Hexagonal

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



Tornillos en Cruz / Arandelas Separación Doble Amarre

Referencia
S10.102.M8
S10.102.M10
S10.102.M12
S10.102.M16
S10.102.M20
S10.102.M24
S10.102.M30



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



Tapón Refrigeración HSK y Llave para Tapón HSK

Referencia
S05.HSK63
S05.HSK100



Referencia
LL03.HSK63
LL03.HSK100



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



Soporte Básico Herramientas

Referencia	Para Modelo	Altura
S705.SK30	SK30	134
S705.SK40	SK40	132
S705.SK50	SK50	175



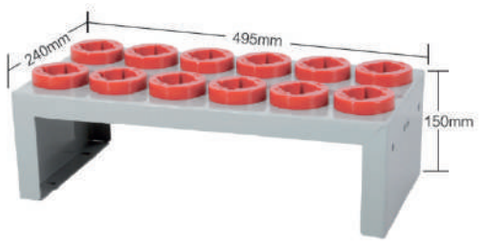
Soporte Orientable Herramientas

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



Accesorio Soporte Portaherramientas/Sobremesa

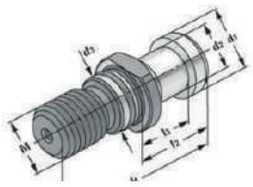
Referencia	Para Modelo	Agujeros
S709.30	SK30 – ISO30 – BT-30	12
S709.40	SK40 – ISO40 – BT-40	12
S709.50	SK50 – ISO50 – BT-550	8
S709.63	HSK-A63	8



Dimensiones: 495 x 240 x 150 mm.

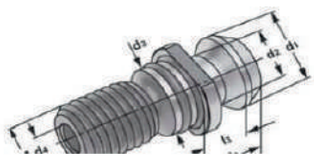
Tirantes DIN 69872

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.								



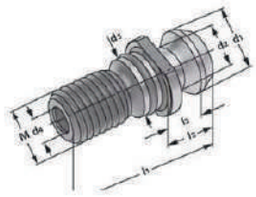
Tirantes DIN ISO 7388

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.								



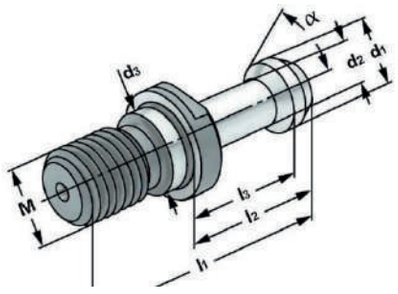
Tirantes MAS 403 BT (JIS6339) - Ejecución Corta

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.**

Tirantes MAS 403 BT (JIS6339)

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
Sin agujero y sin junta							



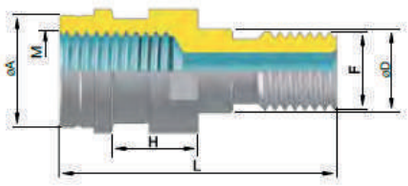
Referencia	Métrica	L1	L2	L3	D1	D2	D3	D4
S20.306.45	M-12	43	23	18	11	7	12.5	2.5
S20.306.60	M-22	43	23	18	11	7	12.5	2.5
S20.406.45	M-16	60	35	28	15	10	17	4
S20.406.60	M-16	60	35	28	15	10	17	4
S20.406.90	M-16	60	35	28	15	10	17	4
S20.506.45	M-24	83	45	35	23	17	25	6.0
S20.506.60	M-24	83	45	35	23	17	25	6.0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

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

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Tirante DIN 2080

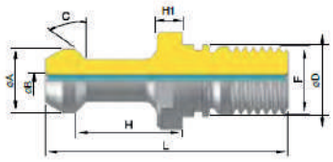
Referencia	Métrica	L1	L2	L3	D1	D2	D3	D4
S20.401.16	M-16	53.0	25.1	13.6	25.00	21.1	17	7.0
S20.501.24	M-24	65.1	25.1	13.3	39.6	32.0	25	7.0
Con agujero y protección.								



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

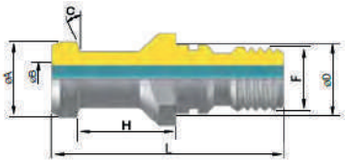
Con agujero y protección anillo.



Tirante KITAMURA

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

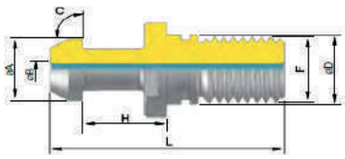
Con agujero y protección anillo.



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

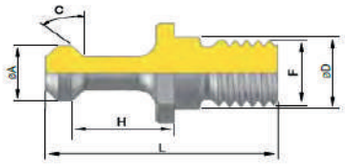
Con agujero y protección anillo.



Tirante CHIRON

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

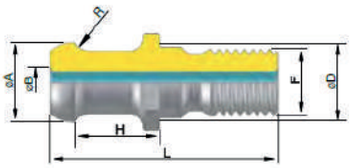
Sin agujero.



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.



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 DTG-203
	
Dimensiones: 600 x 450 x 780 Cajones: 4x100 y 1x200	Dimensiones: 600 x 450 x 980 Cajones: 3x100+1x150+1x200

Referencia DTH40 / DTH50	Referencia DTD40 / DTD50	Referencia DTL40 / DTL50
		
Dimensiones: 600 x 600 x 915 1 cajón + 1 cajón conos + base superior conos. Modelo para Conos 40 (DTH40) y Conos 50 (DTH50)	Dimensiones: 600 x 600 x 1015 2 cajones + 1 cajón conos + base superior conos. Modelo para Conos 40 (DTD40) y Conos 50 (DTD50)	Dimensiones: 450 x 600 x 915 4 cajones + base superior conos. Modelo para Conos 40 (DTL40) y 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		

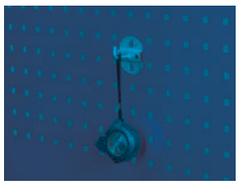
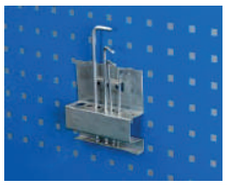
Descripción	Referencia
54 Soportes en 3 Niveles	DTE40
36 Soportes en 3 Niveles	DTE50
36 Soportes en 3 Niveles	DTE63
Dimensiones: 920 x 475 x 775	

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

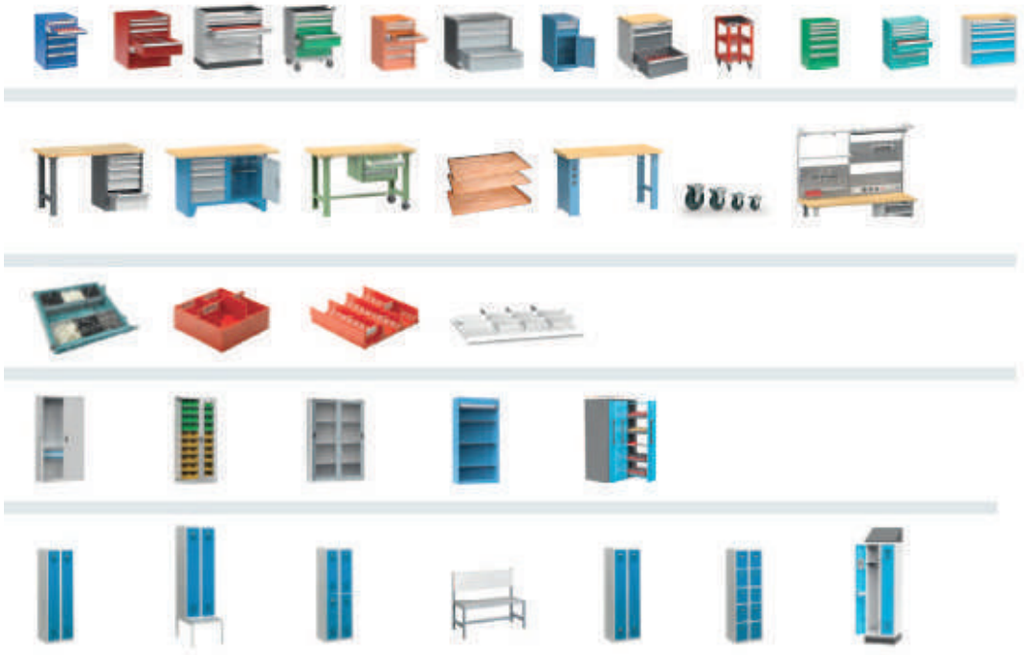
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Mesa de Trabajo DTJ1	Referencia: DTJ1
	Mesa de Trabajo de gran resistencia. Dimensiones: 1500 x 600 x 700. Con tomas de corriente pre-configuradas en los laterales.
Mesa de Trabajo DTJ3	**Referencia: DTJ3**
	Mesa de Trabajo de gran resistencia. Dimensiones: 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.

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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
DTQ-04	610 mm



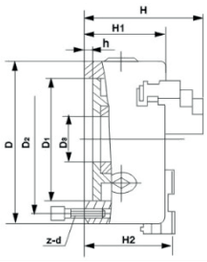
Consultenos por el Catálogo General de Mobiliario

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Plato Torno 3 Garras Auto-Centrante

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



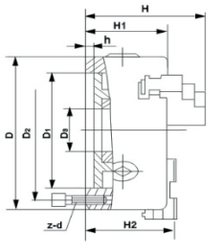


Referencia	D (ø) mm	D1	D2	D3	H	H1	h	z-d	Centrado	RPM Máx.	Kg
WAT-D80-3	80	55	66	16	66,56	50	4	3-M6	0,08	4000	2
WAT-D100-3	100	72	84	22	74,05	55	3	3-M8	0,08	3500	3
WAT-D125-3	125	95	108	30	84,5	58	4	3-M8	0,08	3000	5
WAT-D160-3	160	130	142	45	94	65	5	3-M8	0,08	2500	9
WAT-D200-3	200	165	180	65	109	75	5	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

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



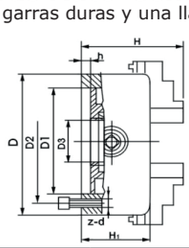


Referencia	D (ø) mm	D1	D2	D3	H	H1	h	z-d	Centrado	RPM Máx.	Kg
WAT-D80-4	80	55	66	16	66,56	50	4	3-M6	0,08	4000	2
WAT-D100-4	100	72	84	22	74,05	53,5	3	3-M8	0,08	3500	3
WAT-D125-4	125	95	108	30	84,5	58	4	3-M8	0,08	3000	5
WAT-D160-4	160	130	142	45	94	65	5	3-M8	0,08	2500	9
WAT-D200-4	200	165	180	65	109	75	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

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



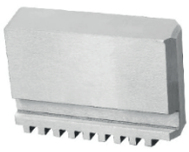


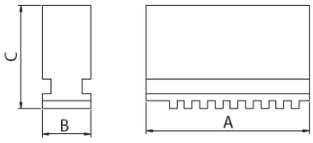
Referencia	D (ø) mm	D1	D2	D3	H	H1	h	z-d	Centrado	RPM Máx.	Kg
WAT-D100-6	100	72	84	26	74,5	55	3	3-M6	0,08	3500	3
WAT-D130-6	130	100	115	35	86,5	58	5	3-M8	0,08	3000	6
WAT-D165-6	165	130	145	45	94	65	5	3-M8	0,08	2500	9
WAT-D200-6	200	165	180	65	109	75	6	3-M10	0,10	2000	16
WAT-D252-6	252	206	226	80	120	80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

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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

Tornillos Amarres DIN 55027 - DIN 55029 (Camlock)

Referencia 55027	Amarre	Medida	Cantidad Requerida
ZE-SB3	3	M10X34	3
ZE-SB4	4	M10X39	3
ZE-SB5	5	M10X43	4
ZE-SB6	6	M12X50	4
ZE-SB8	8	M16X50	4
ZE-SB11	11	M20X75	6
ZE-SB15	15	M24X90	6
Referencia 55029	**Amarre**	**Medida**	**Cantidad Requerida**
ZE-CB3	3	M10X1	3
ZE-CB4	4	M10X1	3
ZE-CB5	5	M12X1	4
ZE-CB6	6	M16X1.5	4
ZE-CB8	8	M20X1.5	4
ZE-CB11	11	M22X1.5	6
ZE-CB15	15	M24X1.5	6



Tipo DIN 55027 Ref. ZE-SB



Tipo 55029 Camlock Ref. ZE-CB

Llave Amarre de Plato de Torno

Referencia	Para Plato	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

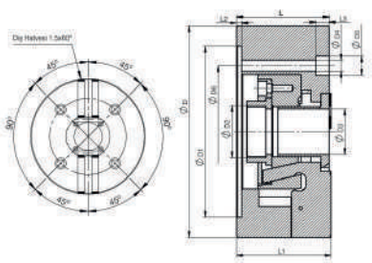
El plato contiene: 1 juego de garras blandas - 1 juego de tuercas T y una llave de apriete.

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



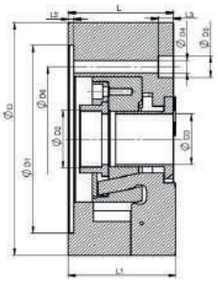
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Plato Hidráulico - 3 Garras

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

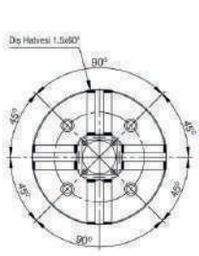
- Datos Técnicos -

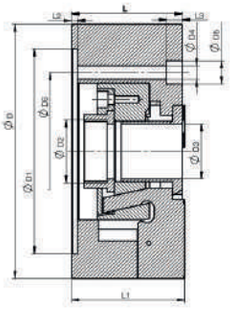
Código	Apriete Garra	Vel. Máx.	Máx.	Máx. Fuerza Amarre	Amarre	Nº Flanco	ø Min-Máx.	Peso
OZ503	5.5	7000	17KV	36KV	10	A4	11-135	7
OZ603	5.5	6000	21KV	56KV	13	A5	12-169	10
OZ803	7.3	5000	35KV	85KV	17	A5-A6	12-210	20
OZ103	8.5	4500	42KV	110KV	20	A6-A8	28-254	30
OZ123	8.5	3500	54KV	143KV	20	A8	32-305	46
OZ153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

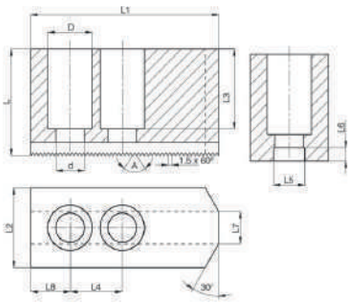
- Datos Técnicos -

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

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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" - ø 533	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

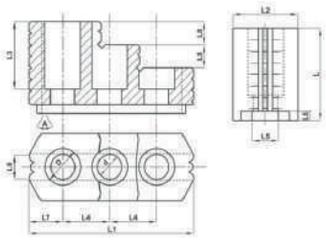
Referencia	ø Modelo	L	L1	L2	L3	L4	L5	L6	L7	L8	D	d
EY-08100	8" - ø 210	100	95	35	50	25	14	5	12	25	19	13
EY-08120	8" - ø 210	120	95	35	50	25	14	5	12	25	19	13
EY-08130	8" - ø 210	130	95	35	50	25	14	5	12	25	19	13
EY-10100	10" - ø 254	100	110	40	50	30	16	5	14	30	19	13
EY-10120	10" - ø 254	120	110	40	50	30	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

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

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Garras Duras Torno (1.5 X 60º)

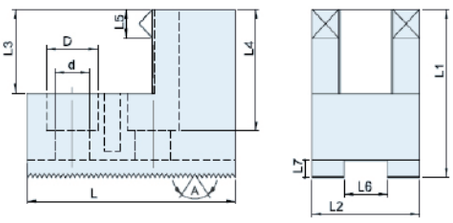
Para Modelo de 3 Garras

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

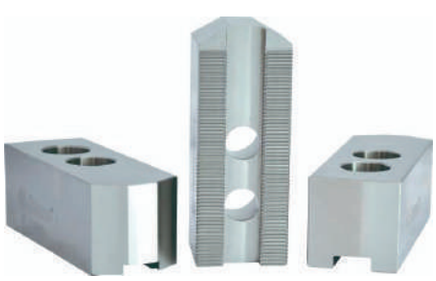


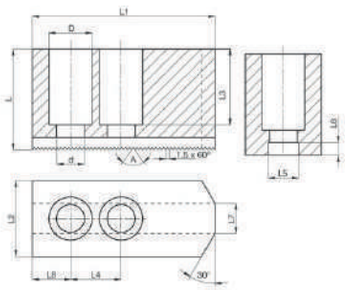


Garras Duras Torno - Con Tope (1.5 X 60º)

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



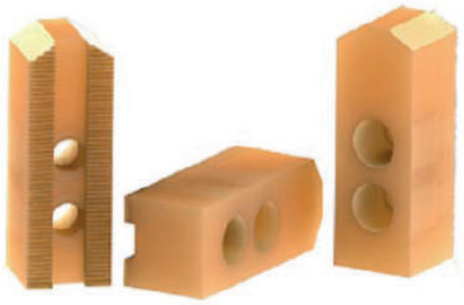


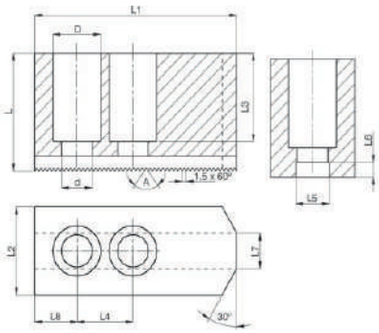
Garras Blandas Aluminio (1.5 X 60º)

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

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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

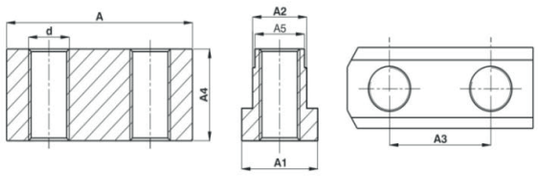
T De de Amarre para Garras Torno - Estándar - 3 Juegos

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



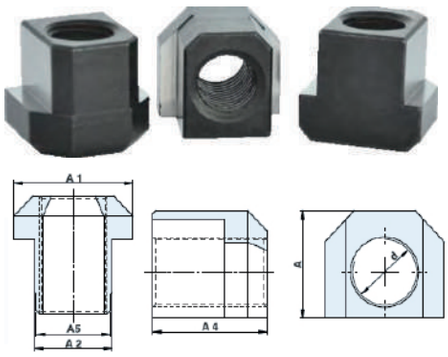
T De de Amarre para Garras Torno - Estándar - 4 Juegos

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)

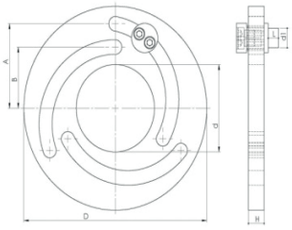
Referencia	Modelo	A	A1	A2	A4	A5	d
AT610	6″ - ø 169	17	17	12	18.5	-	M-10
AT810	8″ - ø 210	20	20.5	14	20.5	-	M-12
AT110	10″ - ø 254	21	22.5	16	21.5	-	M-12
AT120	12″ - ø 305	26	26.5	18	33.5	-	M-16
AT122	12″ - ø 305	26	29.5	21	27.5	-	M-20
AT123	15″ - ø 381	35	35	35.5	39	22	M-20
AT210	21″ - ø 533	46	37.5	25	45	-	M-20



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Soporte Para Torneado de Garras

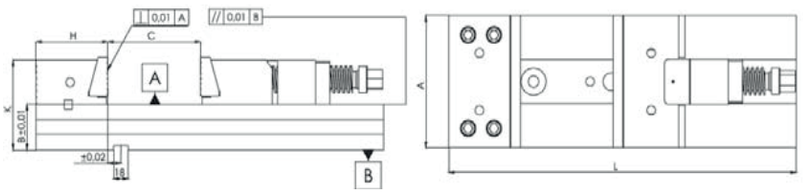




Referencia	D	d	A	B	H	L	D1
S505	140	60	58	42	12	8	13.5
S605	168	80	72	52	12	8	16.5
S805	218	115	94	72	13	8	18.5
S1005	255	150	112.5	87.5	13	8	18.5
S1205	316	185	137	107	15	8	21.5
S1505	380	230	166	138	20	15	31

Mordaza de Precisión

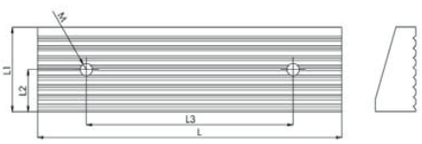




Referencia	A	C	H	B	K	L	KGF	KG
CTM12513	125	130	79	40	80	335	3200	12.8
CTM15020	150	200	89	52	102	430	4300	38.5
CTM15030	150	300	89	52	102	530	4300	43.5
CTM17530	175	300	97	60	120	560	4300	50.8
CTM20030	200	300	110	65	128	575	4500	73.2
CTM20040	200	400	100	65	128	675	4500	81.2

Bocas para Mordaza CTM - Estándar

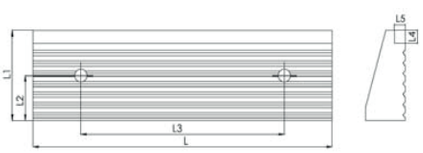




Referencia	L	L1	L2	L3	M
CT0126	125	34.5	17	85	M5
CT0151	150	44	22	95	M5
CT0176	175	50	25	105	M6
CT0201	200	53	26	135	M6

Bocas para Mordaza CTM - Escalonada

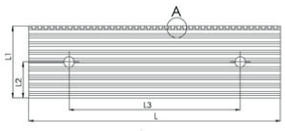




Referencia	L	L1	L2	L3	L4	L5	M
CT0132	125	34.5	17	85	3	3	M5
CT0157	150	44	22	95	3	3	M5
CT0182	175	50	25	105	3	3	M6
CT0207	200	53	26	135	3	3	M6

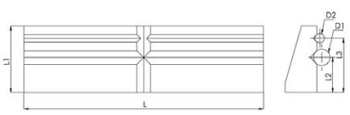
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Bocas para Mordaza CTM - Dentada

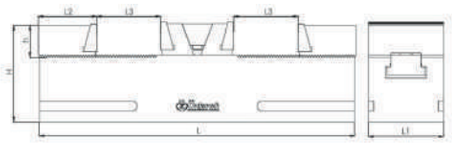
Referencia	L	L1	L2	L3	L4	L5	M
CT0130	125	34.5	17	85	3	3	M5
CT0155	150	44	22	95	3	3	M5
CT0180	175	50	25	105	3	3	M6
CT0205	200	53	26	135	3	3	M6

Bocas para Mordaza CTM - Prismática

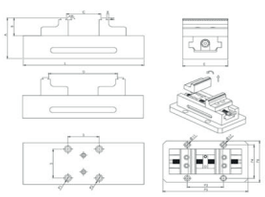
Referencia	L	L1	L2	L3	D1	D2
CT0131	125	34.5	18	28	7-36	4-50
CT0156	150	44	24	37	11-48	6-65
CT0181	175	50	28	42	8-56	7-75
CT0206	200	53	29	44	10-60	8-80

Mordaza Hidráluica 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 5X

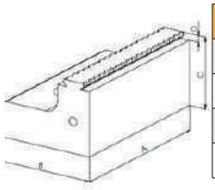



Referencia	CNX75100	CNX75150	CNX75200	CNX100150	CNX100350	CNX125220	CNX125270	CNX125320
L	185	235	285	200	350	250	300	350
A	73	73	73	90	90	100	100	100
B	32	32	32	35	35	40	40	40
C-Min-Máx.	0-100	0-150	0-200	0-100	0-250	0-135	0-185	0-235
C-Min-Máx.	65-150	65-200	65-250	75-150	75-300	95-220	95-275	95-320
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

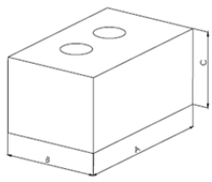
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Recambios para Modelo Mordaza 5X

Garras Duras Para 5X



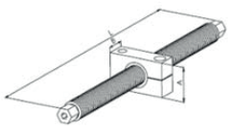
Referencia	75051	10051	12551
A	75	100	125
B	45	55	60
C	32	35	40
D	3	3	3



Garras Blandas Para 5X

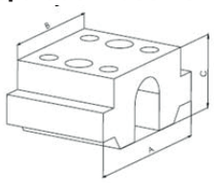
Referencia	75052	10052	12552
A	75	100	125
B	60	70	80
C	32	35	40

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

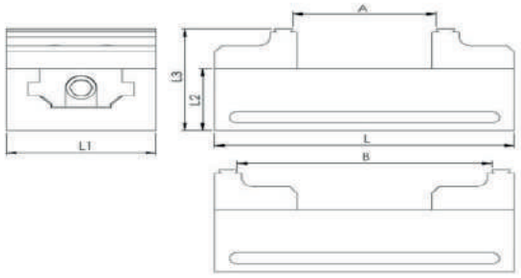


Referencia	7556R	7556L	10056R	10056L	12556R	12556L
A	54	54	72	72	85	85
B	41	41	55	55	67	67
C	25	25	33.5	33.5	37	37
ACC.	Derecha	Izquierda	Derecha	Izquierda	Derecha	Izquierda

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)





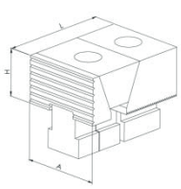
Referencia	L	L1	L2	L3	L4	L5	A	B	C	D	E	H	W	T	PASO	KN	KG
CSM60300	300	160	50	200	100	-	35	60	60	60	83	95	24.5	16	3X60º	20	15
CSM60450	450	560	125	200	100	-	35	60	60	60	83	95	24.5	16	3X60º	20	18
CSN70400	400	260	100	200	100	200	40	70	70	60	83	100	24.5	16	3X60º	20	23
CSM70600	600	560	100	200	100	100	40	70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

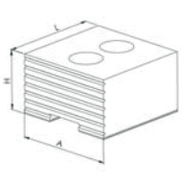
Accesorios para Mordazas CMS Series

Garras Duras



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

Garras Blandas

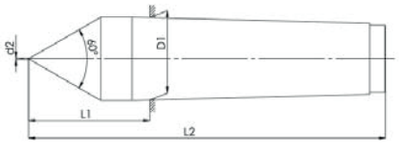


Referencia	A	H	L
CSY610	60	60	81
CSY710	70	60	83

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Punto Fijo 60º

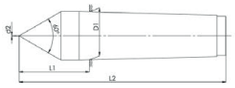




Referencia	Cono Morse	D1	d2	L1	L2
SP100	2	18	0.8	36	100
SP110	3	24.1	0.8	44	125
SP120	4	31.6	1	57	160
SP130	5	44.7	1.5	70	200
SP138	6	63.348	2	88	270

Punto Fijo 60º - MD

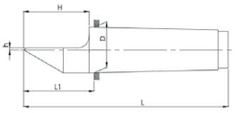




Referencia	Cono Morse	D1	d2	L1	L2
ES200	2	18	7	36	100
ES210	3	24.1	11	44	125
ES220	4	31.6	14	57	160
ES230	5	44.7	18	70	200

Punto Fijo - Punta Parcial

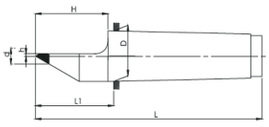




Referencia	Cono Morse	H	L1	h	D	L	d
SPD100	2	40	41	2	18	110	7
SPD110	3	60	64	3	24.1	150	11
SPD120	4	70	71	3	180	180	14

Punto Fijo - Punta Parcial Metal Duro

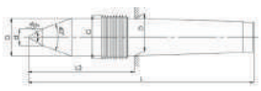




Referencia	Cono Morse	H	L1	h	D	L	d
ESD100	2	40	41	2	18	110	7
ESD110	3	60	64	3	24.1	150	11
ESD120	4	70	71	3	180	180	14

Punto Fijo 60/40º con Tuerca Hexagonal

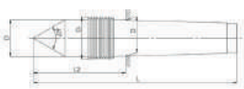




Referencia	CM	D	d	L1	L2	L	G
SP136	3	24.10	8	-	56	149	M27x1.5
SP137	4	31.60	-	-	71	175	M36x1.5
SP150	5	45	-	-	95	217	M48x1.5

Punto Fijo 60 con Tuerca Hexagonal

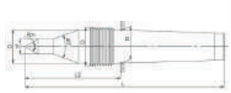




Referencia	CM	D	d	L1	L2	L	G
SP140	3	24.10	8	-	56	149	M27x1.5
SP141	4	31.60	14	-	71	175	M36x1.5
SP155	5	45	16	-	95	217	M48x1.5

Punto Fijo Rebajado 60º con Tuerca Hexagonal





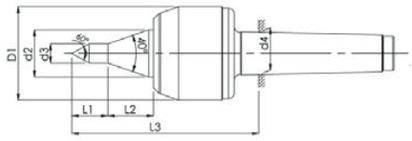
Referencia	CM	D	d	L1	L2	L	G
SP144	3	24.10	8	17	68	150	M27x1.5
SP145	4	31.60	14	25	86	190	M36x1.5
SP160	5	45	16	25	106	236	M48x1.5

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Punto Giratorio Punta Rebajada

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



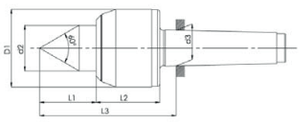


Referencia	CM	D1	d2	d3	L1	L2	L3	Máx.Cen.
C60	3	58	24.5	9	15	28	107	0.005
C70	4	68	34.5	14	25	32	121	0.005
C80	5	78	43.5	14	25	44	148	0.005

Punto Giratorio Estándar

Punta 60º



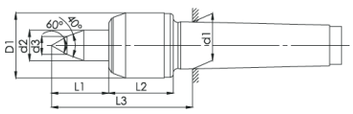


Referencia	CM	D1	d2	d3	L1	L2	L3	Máx.Cen.	Carga Peso
N01	2	50	24.5	17.780	32	50	92	0.005	1.700
N02	3	53	24.5	23.325	33	50	94	0.005	1.900
N03	4	68	40	31.267	50	56	114	0.005	3.000
N04	5	78	44	44.399	58	69	138	0.005	4.900
N05	6	98	53.5	63.348	80	96	191	0.01	10.00

Punto Giratorio Ejecución Ligera

Punta 40/60º



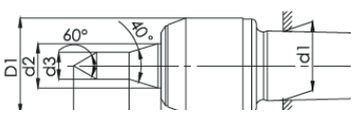


Referencia	CM	w	d1	d2	d3	L1	L2	L3	Máx.Cen.
C110	4	43	31.267	20	12	30	88	88	0.005
C140	5	60	44.399	30	14	50	62	123	0.005

Punto Giratorio Ejecución Ligera Rebajado

Punta 40/60º ejecución ligera.



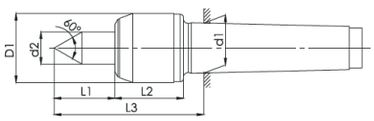


Referencia	CM	D1	d1	d2	d3	L1	L2	L3	Máx.Cen.
C120	4	43	31.267	20	12	25	15	95	0.005
C150	5	60	44.399	30	14	25	27	133	0.005

Punto Giratorio Ejecución Ligera

Punta 60º ejecución ligera.





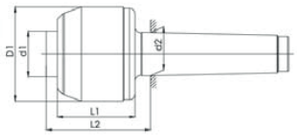
Referencia	CM	D1	d1	d2	d3	L1	L2	L3	Máx.Cen.
C130	4	43	31.267	20	-	27	42	88	0.005
C140	5	60	44.399	30	-	40	60	118	0.005

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Punto Giratorio - Puntas Intercambiables

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







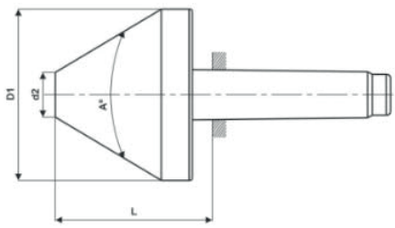
Referencia	CM	D1	d1	L1	L2	L3	Máx.Cen.
C104	4	68	34.5	54	74	88	0.01
C105	5	78	44	69	90	118	0.01

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

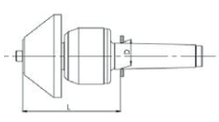




Referencia	CM	D1	A	d2	L	Conc.	Peso
B70	3	80	60º	26	70	0.008	2.5
B80	4	80	60º	26	71	0.008	2.8
B90	3	100	60º	28	84	0.008	3.9
B100	4	100	60º	28	86	0.008	4.2
B110	4	120	60º	38	89	0.008	5.8
B120	5	120	60º	38	97	0.008	6.5
B130	4	140	60º	45	104	0.01	8.0
B140	5	140	60º	45	108	0.01	8.8
B150	5	170	70º	58	121	0.01	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

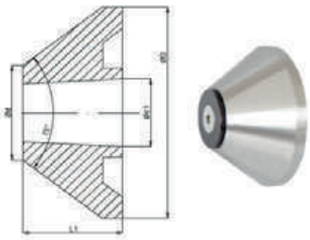
Punto Giratorio para Tubos Adaptable





Referencia	CM	L	D	Máx. Kg
C284	4	116	31.267	750
C285	5	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

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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
Serie Larga Z-2					
MF115.010	1	3	5	60	2
MF115.020	2	3	10	60	2
MF115.030	3	3	15	60	2
MF115.040	4	4	20	80	2
MF115.050	5	5	25	80	2
MF115.060	6	6	25	80	2
MF115.080	8	8	35	90	2
MF115.100	10	10	45	100	2
MF115.120	12	12	50	100	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

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

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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

Fresa MD – Z4

Referencia	Diámetro Fresa	Diámetro Amarre	Longitud Corte	Longitud Total	Z
MF118.010	1	3	38	38	4
MF118.015	1.5	3	38	38	4
MF118.020	2	3	38	38	4
MF118.025	2.5	3	38	38	4
MF118.030	3	3	38	38	4
MF118.035	3.5	4	38	40	4
MF118.040	4	4	50	50	4
MF118.050	5	5	50	50	4
MF118.060	6	6	50	50	4
MF118.070	7	8	50	60	4
MF118.080	8	8	60	60	4
MF118.090	9	10	60	75	4
MF118.100	10	10	75	75	4
MF118.110	11	12	75	75	4
MF118.120	12	12	75	75	4
MF118.130	13	14	85	85	4
MF118.140	14	14	85	85	4
MF118.150	15	16	85	92	4
MF118.160	16	16	92	100	4
MF118.180	18	18	100	100	4
MF118.200	20	20	100	100	4
MF118.250	25	25	100	100	4
Serie Larga Z-4					
MF119.010	1	3	60	60	4
MF119.020	2	3	60	60	4
MF119.030	3	3	60	60	4
MF119.040	4	4	80	80	4
MF119.050	5	5	80	80	4
MF119.060	6	6	80	80	4
MF119.080	8	8	90	90	4
MF119.100	10	10	100	100	4
MF119.120	12	12	100	100	4
MF119.140	14	14	150	150	4
MF119.160	16	16	150	150	4
MF119.200	20	20	150	150	4
MF119.250	25	25	150	150	4



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

Serie Extra Larga - Z4					
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

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Fresa MD – Z6

Referencia	Diámetro Fresa	Diámetro Amarre	Longitud Corte	Longitud Total	Z
MF210.030	3	3	8	38	6
MF210.040	4	4	11	50	6
MF210.050	5	5	13	50	6
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
Serie Larga Z-6					
MF211.030	3	3	15	60	6
MF211.040	4	4	20	80	6
MF211.050	5	5	25	80	6
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
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
MF220.100	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	3
MF221.080	8	8	35	90	3
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: Z-3 / 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
Serie Larga Z-1					
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
Recubrimiento: Tialn
Uso: Plasticos/Aluminio

Fresa MD Z-2 - Cuello Reducido

Referencia	Diámetro Fresa	Diámetro Amarre	Longitud Corte	Longitud Reducida	Longitud Total
MF222.010	1	6	0.95	5	55
MF222.010L	1	6	0.95	12	65
MF222.015	1.5	6	1.44	5	55
MF222.015L	1.5	6	1.44	12	65
MF222.020	2	6	1.92	10	55
MF222.020L	2	6	1.92	16	65
MF222.030	3	6	2.9	9	65
MF222.030L	3	6	2.9	15	65
MF222.040	4	6	3.9	12	65
MF222.040L	4	6	3.9	20	65
Diámetro Amarre ø3mm					
MF223.002	0.20	3	-	0.4	38
MF223.003	0.30	3	-	0.6	38
MF223.004	0.40	3	-	0.8	38
MF223.005	0.50	3	-	1	38
MF223.006	0.60	3	-	1.2	38
MF223.007	0.70	3	-	1.4	38
MF223.008	0.80	3	-	1.6	38
MF223.009	0.90	3	-	1.8	38
Diámetro Amarre ø4mm					
MF224.004	0.4	4	0.38	0.6	45
MF224.0041	0.4	4	0.38	0.6	45
MF224.005	0.5	4	0.38	0.7	45
MF224.0051	0.5	4	0.38	0.7	45
MF224.0052	0.5	4	0.38	0.7	45
MF224.006	0.6	4	0.38	0.9	45
MF224.0061	0.6	4	0.38	0.9	45
MF224.0062	0.6	4	0.38	0.9	45
MF224.008	0.8	4	0.38	1.2	45
MF224.0081	0.8	4	0.38	1.2	45
MF224.0082	0.8	4	0.38	12	45
MF224.012	1.2	4	0.38	1.8	45
MF224.0121	1.2	4	0.38	1.8	45
MF224.0122	1.2	4	0.38	1.8	45



Corte Hélice: 30º
Modelo: Z-2
Recubrimiento: Altin
Material: Micrograno
Uso: General
Dureza: <56HRC
Disponible con Mango: ø3 - ø4 - ø6

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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
Serie Larga Bola Z-2				
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
MF226.160	16	16	20	150
MF226.200	20	20	25	150
Serie Extra Larga Bola Z-2				
MF227.030	3	3	6	75
MF227.050	5	5	6	100
MF227.060	6	6	15	100
MF227.060L	6	6	15	150
MF227.060XL	6	6	30	200
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

Referencia	Diámetro Fresa	Diámetro Amarre	Longitud Cuello	Longitud Corte	Longitud Total
MF228.010	1	6	5	1.5	55
MF228.010L	1	6	12	1.5	65
MF228.020	2	6	10	2	55
MF228.020L	2	6	14	3	55
MF228.020XL	2	6	16	2	60
MF228.025	2.5	6	20	3	60
MF228.030	3	6	9	2	65
MF228.030L	3	6	15	2	65
MF228.030XL	3	6	20	4	60
MF228.030XXL	3	6	40	2	80
MF228.040	4	6	12	2	65
MF228.040L	4	6	20	5	60
MF228.050	5	6	20	6	60



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

Fresa MD Bola Z-2 – Cuello Largo Cónico

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
Serie Larga Z-2					
MF230.010	1	6	40	1.5	80
MF230.015	1.5	6	40	2	80
MF230.020	2	6	40	3	80
MF230.030	3	6	50	4	100
MF230.040	4	6	50	5	100
MF230.040L	4	8	50	8	100
MF230.050	5	8	41	12	90
MF230.050L	5	6	50	6	100
MF230.060	6	8	33	14	90
MF230.060L	6	8	50	8	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



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

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

Referencia	Diámetro Fresa	Diámetro Mango	Longitud Cuello	Longitud Corte	Longitud Total
MF231.02020	2	6	20	2	60
MF231.03020	3	6	20	3	60
MF231.04020	4	6	20	4	60
MF231.05020	5	6	20	10	60
MF231.06020	6	6	20	12	60
MF231.08020	8	8	20	12	80
Serie Larga Z-2					
MF232.02020	2	6	20	2	80
MF232.03020	3	6	20	3	80
MF232.04020	4	6	20	4	80
MF232.05020	5	6	20	10	80
MF232.06020	6	6	20	12	80
MF232.08020	8	8	20	12	100
MF232.10022	10	10	22	10	100
MF232.12024	12	12	34	12	100



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

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Fresa MD Bola Z-2 – Mango 3mm

Referencia	Diámetro Fresa	Diámetro Mango	Longitud Cuello	Longitud Corte	Longitud Total
MF233.02	0.2	3	-	0.2	38
MF233.03	0.3	3	-	0.3	38
MF233.04	0.4	3	-	0.4	38
MF233.05	0.5	3	-	0.5	38
MF233.06	0.6	3	-	0.6	38
MF233.07	0.7	3	-	0.7	38
MF233.08	0.8	3	-	0.8	38
MF233.09	0.9	3	-	0.9	38



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

Fresa MD Bola Z-2 – Mango 4mm

Referencia	Diámetro Fresa	Diámetro Mango	Longitud Cuello	Longitud Corte	Longitud Total
MF234.0402	0.4	4	2	0.6	45
MF234.0404	0.4	4	4	0.6	45
MF234.0502	0.5	4	2	0.7	45
MF234.0504	0.5	4	4	0.7	45
MF234.0506	0.5	4	6	0.7	45
MF234.0604	0.6	4	4	0.9	45
MF234.0606	0.6	4	6	0.9	45
MF234.0608	0.6	4	8	0.9	45
MF234.0806	0.8	4	6	1.2	45
MF234.0808	0.8	4	8	1.2	45
MF234.0810	0.8	4	10	1.2	45
MF234.1206	1.2	4	6	1.8	45
MF234.1208	1.2	4	8	1.8	45
MF234.1210	1.2	4	10	1.8	45



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

Fresa MD Tórica Z-2



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

Referencia	Diámetro Fresa	Diámetro Mango	Radio	Longitud Corte	Longitud Mango Reducido	Longitud Total
MF240.010025	1	6	0.25	1.5	5	55
MF240.010025L	1	6	0.25	1.5	12	65
MF240.015030	1.5	6	0.3	1.5	5	55
MF240.015030L	1.5	6	0.3	1.5	12	65
MF240.020020	2	6	0.2	2	10	80
MF240.020050	2	6	0.5	2	10	80
MF240.020020L	2	6	0.2	10	10	80
MF240.020050L	2	6	0.5	10	10	80
MF240.030020	3	6	0.2	3	15	80
MF240.030050	3	6	0.5	3	15	80
MF240.030020L	3	6	0.2	15	15	80
MF240.030050L	3	6	0.5	15	15	80
MF240.040020	4	6	0.2	4	20	80
MF240.040050	4	6	0.5	4	20	80
MF240.040100	4	6	1	4	20	80
MF240.040020L	4	6	0.2	20	20	80
MF240.040050L	4	6	0.5	20	20	80
MF240.040100L	4	6	1	20	20	80

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Fresa MD Tórica Z-2





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

Referencia	Diámetro Fresa	Diámetro Mango	Radio	Longitud Corte	Longitud Mango Reducido	Longitud Total
MF240.050020	5	6	0.2	7	25	80
MF240.050050	5	6	0.5	7	25	80
MF240.050100	5	6	1	7	25	80
MF240.050020L	5	6	0.2	25	25	80
MF240.050050L	5	6	0.5	25	25	80
MF240.050100L	5	6	1	25	25	80
MF240.060020	6	6	0.2	13	13	80
MF240.060050	6	6	0.5	13	13	80
MF240.060100	6	6	1	13	13	80
MF240.060150	6	6	1.5	13	13	80
MF240.060200	6	6	2	13	13	80
MF240.060020L	6	6	0.2	25	25	80
MF240.060050L	6	6	0.5	25	25	80
MF240.060100L	6	6	1	25	25	80
MF240.060200L	6	6	2	25	25	80
MF240.080050	8	8	0.5	19	19	90
MF240.080100	8	8	1	19	19	90
MF240.080150	8	8	1.5	19	19	90
MF240.080200	8	8	2	19	19	90
MF240.080050L	8	8	0.5	35	35	90
MF240.080100L	8	8	1	35	35	90
MF240.080200L	8	8	2	35	35	90
MF240.100050	10	10	0.5	22	22	100
MF240.100100	10	10	1	22	22	100
MF240.100150	10	10	1.5	22	22	100
MF240.100200	10	10	2	22	22	100
MF240.100300	10	10	3	22	22	100
MF240.100050L	10	10	0.5	45	45	100
MF240.100100L	10	10	1	45	45	100
MF240.100200L	10	10	2	45	45	100
MF240.100300L	10	10	3	45	45	100
MF240.120050	12	12	0.5	26	26	100
MF240.120100	12	12	1	26	26	100
MF240.120150	12	12	1.5	26	26	100
MF240.120200	12	12	2	26	26	100
MF240.120300	12	12	3	26	26	100
MF240.120050L	12	12	0.5	50	50	100
MF240.120100L	12	12	1	50	50	100
MF240.120200L	12	12	2	50	50	100
MF240.120300L	12	12	3	50	50	100
Serie Extra Larga Tórica Z-2						
MF241.020050	2	6	0.5	3	43	109
MF241.030050	3	6	0.5	5	43	109
MF241.040050	4	6	0.5	6	44	109
MF241.040100	4	6	1	6	44	109
MF241.050050	5	8	0.5	7	45	109
MF241.050100	5	8	1	7	45	109
MF241.060050	6	8	0.5	8	46	109
MF241.060100	6	8	1	8	46	109
MF241.060150	6	8	1.5	8	46	109
MF241.080050	8	10	0.5	9	47	109
MF241.080100	8	10	1	9	47	109
MF241.080150	8	10	1.5	9	47	109
MF241.080200	8	10	2	9	47	109

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Fresa MD Tórica Z-4

Referencia	ø Fresa	ø Mango	Radio	Corte	Mango Reducido	Total
MF242.020020	2	6	0.2	2	10	80
MF242.020050	2	6	0.5	2	10	80
MF242.020020L	2	6	0.2	10	10	80
MF242.020050L	2	6	0.5	10	10	80
MF242.030020	3	6	0.2	3	15	80
MF242.030050	3	6	0.5	3	15	80
MF242.030020L	3	6	0.2	15	15	80
MF242.030050L	3	6	0.5	15	15	80
MF242.040020	4	6	0.2	4	20	80
MF242.040050	4	6	0.5	4	20	80
MF242.040100	4	6	1	4	20	80
MF242.040020L	4	6	0.2	20	20	80
MF242.040050L	4	6	0.5	20	20	80
MF242.040100L	4	6	1	20	20	80
MF242.050020	5	6	0.2	7	25	80
MF242.050050	5	6	0.5	7	25	80
MF242.050100	5	6	1	7	25	80
MF242.050020L	5	6	0.2	25	25	80
MF242.050050L	5	6	0.5	25	25	80
MF242.050100L	5	6	1	25	25	80
MF242.060020	6	6	0.2	13	13	80
MF242.060050	6	6	0.5	13	13	80
MF242.060100	6	6	1	13	13	80
MF242.060150	6	6	1.5	13	13	80
MF242.060200	6	6	2	13	13	80
MF242.060020L	6	6	0.2	25	25	80
MF242.060050L	6	6	0.5	25	25	80
MF242.060100L	6	6	1	25	25	80
MF242.060200L	6	6	2	25	25	80
MF242.080050	8	8	0.5	19	19	90
MF242.080100	8	8	1	19	19	90
MF242.080150	8	8	1.5	19	19	90
MF242.080200	8	8	2	19	19	90
MF242.080050L	8	8	0.5	35	35	90
MF242.080100L	8	8	1	35	35	90
MF242.080200L	8	8	2	35	35	90
MF242.100050	10	10	0.5	22	22	100
MF242.100100	10	10	1	22	22	100
MF242.100150	10	10	1.5	22	22	100
MF242.100200	10	10	2	22	22	100
MF242.100300	10	10	3	22	22	109
MF242.100050L	10	10	0.5	45	45	109
MF242.100100L	10	10	1	45	45	109
MF242.100200L	10	10	2	45	45	109
MF242.100300L	10	10	3	45	45	109
MF242.120050	12	12	0.5	26	26	109
MF242.120100	12	12	1	26	26	109
MF242.120150	12	12	1.5	26	26	109
MF242.120200	12	12	2	26	26	109
MF242.120300	12	12	3	26	26	109
MF242.120050L	12	12	0.5	50	50	109
MF242.120100L	12	12	1	50	50	109
MF242.120200L	12	12	2	50	50	109
MF242.120300L	12	12	3	50	50	109



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

Serie Extra Larga Tórica Z-4

Referencia	ø Fresa	ø Mango	Radio	Corte	Mango Reducido	Lon. Total
MF243.020050	2	6	0.5	3	43	109
MF243.030050	3	6	0.5	5	43	109
MF243.040050	4	6	0.5	6	44	109
MF243.040100	4	6	1	6	44	109
MF243.050050	5	8	0.5	7	45	109
MF243.050100	5	8	1	7	45	109
MF243.060050	6	8	0.5	8	46	109
MF243.060100	6	8	1	8	46	109
MF243.060150	6	8	1.5	8	46	109
MF243.080050	8	10	0.5	9	47	109
MF243.080100	8	10	1	9	47	109
MF243.080150	8	10	1.5	9	47	109
MF243.080200	8	10	2	9	47	109

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 – Z3 Aluminio

Referencia	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Total	Z
MF320.030	3	6	8	57	2
MF320.035	3.5	6	10	57	2
MF320.040	4	6	11	57	2
MF320.045	4.5	6	11	57	2
MF320.050	5	6	13	57	2
MF320.060	6	6	13	57	2
MF320.070	7	8	16	63	2
MF320.080	8	8	19	63	2
MF320.090	9	10	19	72	2
MF320.100	10	10	22	72	2
MF320.120	12	12	26	83	2
MF320.140	14	14	26	83	2
MF320.160	16	16	32	92	2
MF320.180	18	18	32	92	2
MF320.200	20	20	38	104	2



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

Fresa MD – Z4 – Desbaste Aluminio

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



Corte Hélice: 25º
Modelo: Z-4
Sin Recubrimiento
Amarre: Weldon

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Fresa MD – Z2 Basic

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



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

FRESA MD – Z3 BASIC

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-2
Sin Recubrimiento
Mango: Cilíndrico

Fresa MD Hélice Variable – Z4

Referencia	Diámetro Fresa	Diámetro Mango	Longitud Corte	Longitud Total
MF252.0300	3	6	8	50
MF252.0400	4	6	11	50
MF252.0500	5	6	13	50
MF252.0600	6	6	16	50
MF252.0800	8	8	19	60
MF252.1000	10	10	22	73
MF252.1200	12	12	26	75
MF252.1400	14	14	30	85
MF252.1600	16	16	32	85
MF252.2000	20	20	38	100



Corte Hélice: 30º
Modelo: Z-4
Recubrimiento: TIALSIN
Material: Micrograno 0.6um
Uso: General
Dureza: <56HRC
Mango: Cilíndrico

Fresa MD Achlaflanar 60º / 90º - Z-

Referencia 60º	Referencia 90º	Diámetro	Diámetro Mango	Longitud Total
MF350.040	MF352.040	4	4	50
MF350.060	MF352.060	6	6	50
MF350.080	MF352.080	8	13	60
MF350.100	MF352.100	10	16	72
MF350.120	MF352.120	12	19	75
MF350.160	MF352.160	16	22	92



Modelo: Z-4
Recubrimiento: Altin
Uso: General
Modelo 60º / 90º

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Broca MD Sin Refrigeración - 3xD



Corte Angulo: 140º
Tolerancia: Dm7, dh6 - Según DIN-6537K
Recubrimiento: Altin
Uso: General

Referencia	Diámetro	øAmarre	LC	LT
MB110.030	3	6	20	62
MB110.031	3.1	6	20	62
MB110.032	3.2	6	20	62
MB110.033	3.3	6	20	62
MB110.034	3.4	6	20	62
MB110.035	3.5	6	20	62
MB110.036	3.6	6	20	62
MB110.037	3.7	6	20	62
MB110.038	3.8	6	24	62
MB110.039	3.9	6	24	66
MB110.040	4	6	24	66
MB110.041	4.1	6	24	66
MB110.042	4.2	6	24	66
MB110.043	4.3	6	24	66
MB110.044	4.4	6	24	66
MB110.045	4.5	6	24	66
MB110.046	4.6	6	24	66
MB110.047	4.7	6	24	66
MB110.048	4.8	6	28	66
MB110.049	4.9	6	28	66
MB110.050	5	6	28	66
MB110.051	5.1	6	28	66
MB110.052	5.2	6	28	66
MB110.053	5.3	6	28	66
MB110.054	5.4	6	28	66
MB110.055	5.5	6	28	66
MB110.056	5.6	6	28	66
MB110.057	5.7	6	28	66
MB110.058	5.8	6	28	66
MB110.059	5.9	6	28	66
MB110.060	6	6	28	66
MB110.061	6.1	8	28	79
MB110.062	6.2	8	34	79
MB110.063	6.3	8	34	79
MB110.064	6.4	8	34	79
MB110.065	6.5	8	34	79
MB110.066	6.6	8	34	79
MB110.067	6.7	8	34	79
MB110.068	6.8	8	34	79
MB110.069	6.9	8	34	79
MB110.070	7	8	34	79
MB110.071	7.1	8	41	79
MB110.072	7.2	8	41	79
MB110.073	7.3	8	41	79
MB110.074	7.4	8	41	79
MB110.075	7.5	8	41	79
MB110.076	7.6	8	41	79
MB110.077	7.7	8	41	79
MB110.078	7.8	8	41	79
MB110.079	7.9	8	41	79
MB110.080	8	8	47	79
MB110.081	8.1	8	47	89
MB110.082	8.2	10	47	89
MB110.083	8.3	10	47	89
MB110.084	8.4	10	47	89
MB110.085	8.5	10	47	89

Referencia	Diámetro	øAmarre	LC	LT
MB110.086	8.6	10	47	89
MB110.087	8.7	10	47	89
MB110.088	8.8	10	47	89
MB110.089	8.9	10	47	89
MB110.090	9.0	10	47	89
MB110.091	9.1	10	47	89
MB110.092	9.2	10	47	89
MB110.093	9.3	10	47	89
MB110.094	9.4	10	47	89
MB110.095	9.5	10	47	89
MB110.096	9.6	10	47	89
MB110.097	9.7	10	47	89
MB110.098	9.8	10	47	89
MB110.099	9.9	10	47	89
MB110.100	10.0	10	47	89
MB110.101	10.1	12	55	102
MB110.102	10.2	12	55	102
MB110.103	10.3	12	55	102
MB110.104	10.4	12	55	102
MB110.105	10.5	12	55	102
MB110.106	10.6	12	55	102
MB110.107	10.7	12	55	102
MB110.108	10.8	12	55	102
MB110.109	10.9	12	55	102
MB110.110	11.0	12	55	102
MB110.111	11.1	12	55	102
MB110.112	11.2	12	55	102
MB110.113	11.3	12	55	102
MB110.114	11.4	12	55	102
MB110.115	11.5	12	55	102
MB110.116	11.6	12	55	102
MB110.117	11.7	12	55	102
MB110.118	11.8	12	55	102
MB110.119	11.9	12	55	102
MB110.120	12.0	12	55	102
MB110.122	12.2	14	60	107
MB110.125	12.5	14	60	107
MB110.127	12.7	14	60	107
MB110.128	12.8	14	60	107
MB110.130	13.0	14	60	107
MB110.131	13.1	14	60	107
MB110.135	13.5	14	60	107
MB110.138	13.8	14	60	107
MB110.140	14.0	14	60	115
MB110.145	14.5	16	65	115
MB110.148	14.8	16	65	115
MB110.150	15.0	16	65	115
MB110.155	15.5	16	65	115
MB110.160	16.0	16	65	115
MB110.165	16.5	18	73	123
MB110.170	17.0	18	73	123
MB110.175	17.5	18	73	123
MB110.180	18.0	18	73	123
MB110.185	18.5	18	79	131
MB110.190	19.0	18	79	131
MB110.195	19.5	18	79	131
MB110.200	20.0	18	79	131

Broca MD Sin Refrigeración - 5xD



Corte Angulo: 140º
Tolerancia: Dm7, dh6 - Según DIN-6537L
Recubrimiento: Altin
Uso: General

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

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

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Broca MD Con Refrigeración Interior - 5xD



Corte Angulo: 140º
Tolerancia: Dm7, dh6 - Según DIN-6537K
Recubrimiento: Altin
Uso: General

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

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

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Broca MD Con Refrigeración Interior - 8xD



Corte Angulo: 140º
Tolerancia: Dm7, dh6
Recubrimiento: Altin
Uso: General
Según DIN-6537L

Referencia	Diámetro	øAmarre	LC	LT
MB135.030	3.0	6	34	72
MB135.031	3.1	6	34	72
MB135.032	3.2	6	34	72
MB135.033	3.3	6	34	72
MB135.034	3.4	6	34	72
MB135.035	3.5	6	34	72
MB135.036	3.6	6	34	72
MB135.037	3.7	6	34	72
MB135.038	3.8	6	34	81
MB135.039	3.9	6	43	81
MB135.040	4.0	6	43	81
MB135.041	4.1	6	43	81
MB135.042	4.2	6	43	81
MB135.043	4.3	6	43	81
MB135.044	4.4	6	43	81
MB135.045	4.5	6	43	81
MB135.046	4.6	6	43	81
MB135.047	4.7	6	43	81
MB135.048	4.8	6	57	95
MB135.049	4.9	6	57	95
MB135.050	5.0	6	57	95
MB135.051	5.1	6	57	95
MB135.052	5.2	6	57	95
MB135.053	5.3	6	57	95
MB135.054	5.4	6	57	95
MB135.055	5.5	6	57	95
MB135.056	5.6	6	57	95
MB135.057	5.7	6	57	95
MB135.058	5.8	6	57	95
MB135.059	5.9	6	57	95
MB135.060	6.0	6	55	95
MB135.061	6.1	8	76	114
MB135.062	6.2	8	76	114
MB135.063	6.3	8	76	114
MB135.064	6.4	8	76	114
MB135.065	6.5	8	76	114
MB135.066	6.6	8	76	114
MB135.067	6.7	8	76	114
MB135.068	6.8	8	76	114
MB135.069	6.9	8	76	114
MB135.070	7.0	8	76	114
MB135.071	7.1	8	76	114
MB135.072	7.2	8	76	114
MB135.073	7.3	8	76	114
MB135.074	7.4	8	76	114
MB135.075	7.5	8	76	114
MB135.076	7.6	8	76	114
MB135.077	7.7	8	76	114
MB135.078	7.8	8	76	114

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

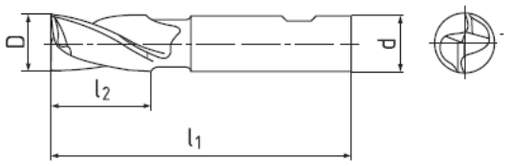
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Fresa HSS – Z2 – Serie Estándar

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	19	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	22	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

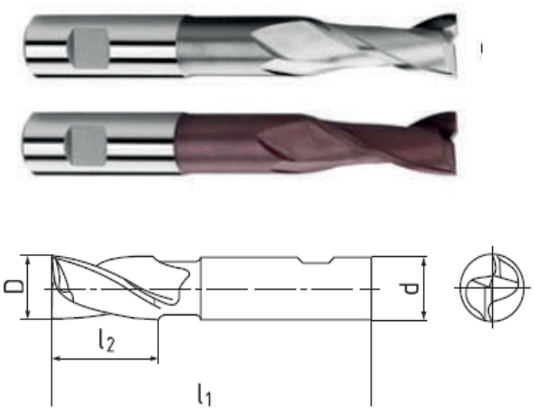




Fresa - Z2 – Serie Larga

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

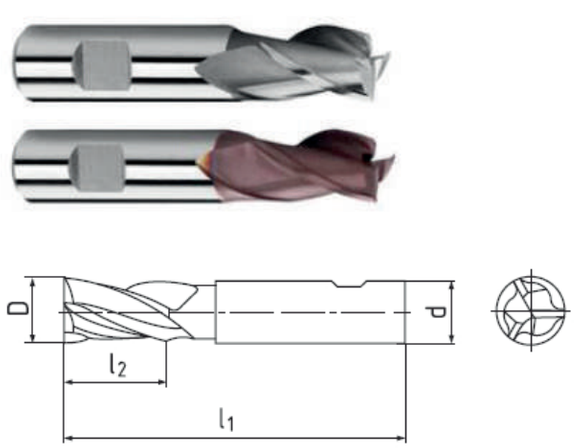
Referencia	Referencia TIALN	D	d	L1	L2	Z
HF114.020	HF115.020	2	6	54	2.5	2
HF114.030	HF115.030	3	6	56	3	2
HF114.035	HF115.035	3.5	6	59	4	2
HF114.040	HF115.040	4	6	63	5	2
HF114.045	HF115.045	4.5	6	63	5	2
HF114.050	HF115.050	5	6	68	5	2
HF114.055	HF115.055	5.5	6	68	6	2
HF114.060	HF115.060	6	6	68	7	2
HF114.065	HF115.065	6.5	10	80	7	2
HF114.070	HF115.070	7	10	80	7	2
HF114.080	HF115.080	8	10	88	8	2
HF114.085	HF115.085	8.5	10	88	8	2
HF114.090	HF115.090	9	10	88	8	2
HF114.100	HF115.100	10	10	95	8	2
HF114.110	HF115.110	11	12	102	8	2
HF114.120	HF115.120	12	12	110	10	2
HF114.130	HF115.130	13	12	110	10	2
HF114.140	HF115.140	14	12	110	10	2
HF114.150	HF115.150	15	12	110	11	2
HF114.160	HF115.160	16	16	123	11	2
HF114.180	HF115.180	18	16	123	11	2
HF114.190	HF115.190	19	16	123	11	2
HF114.200	HF115.200	20	20	141	11	2
HF114.220	HF115.220	22	20	141	13	2
HF114.240	HF115.240	24	25	166	13	2
HF114.250	HF115.250	25	25	166	13	2
HF114.260	HF115.260	26	25	166	13	2
HF114.280	HF115.280	28	25	166	13	2
HF114.300	HF115.300	30	25	166	13	2
HF114.320	HF115.320	32	32	186	16	2
HF114.350	HF115.350	35	32	186	16	2
HF114.360	HF115.360	36	32	186	16	2
HF114.40032	HF115.40032	40*	32	196	16	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



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FRESA HSS – Z3 – Serie Corta (Continuación)

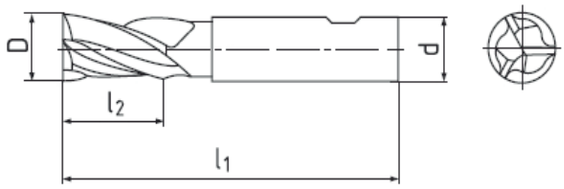
Referencia	Referencia TIALN	D	d	L1	L2	Z
HF116.140	HF117.140	14	12	73	16	3
HF116.150	HF117.150	15	12	73	16	3
HF116.160	HF117.160	16	16	79	19	3
HF116.180	HF117.180	18	16	79	19	3
HF116.197	HF117.197	19.7	16	88	22	3
HF116.200	HF117.200	20	20	88	22	3
HF116.217	HF117.217	21.7	20	88	22	3
HF116.220	HF117.220	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	102	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



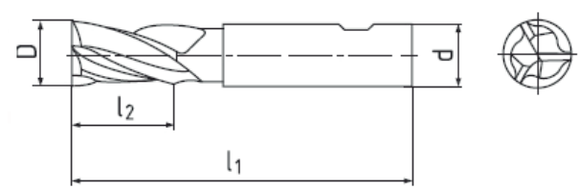


Fresa HSS – Z3 – Serie Larga

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





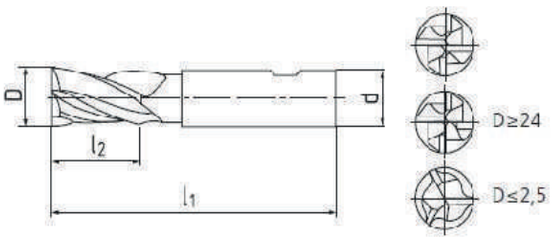
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Fresa HSS Z4 / Z5 – Serie Estándar

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



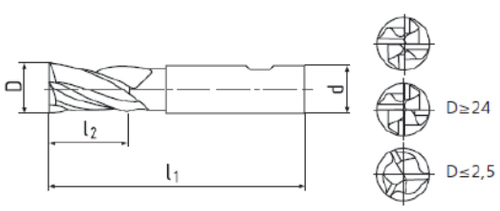


Fresa HSS Serie Larga

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	24	4
HF126.025	HF127.025	2.5	6	56	30	4
HF126.030	HF127.030	3	6	56	38	4
HF126.035	HF127.035	3.5	6	59	38	4
HF126.040	HF127.040	4	6	63	45	4
HF126.045	HF127.045	4.5	6	63	45	4
HF126.050	HF127.050	5	6	68	53	4
HF126.055	HF127.055	5.5	6	68	53	4
HF126.060	HF127.060	6	6	68	53	4
HF126.065	HF127.065	6.5	10	80	53	4
HF126.070	HF127.070	7	10	80	63	4
HF126.075	HF127.075	7.5	10	80	63	4
HF126.080	HF127.080	8	10	88	63	4
HF126.085	HF127.085	8.5	10	88	75	4
HF126.090	HF127.090	9	10	88	75	5
HF126.095	HF127.095	9.5	10	88	90	5
HF126.100	HF127.100	10	10	95	90	5
HF126.110	HF127.110	11	12	102	90	5
HF126.120	HF127.120	12	12	110	106	5
HF126.130	HF127.130	13	12	110	106	5
HF126.140	HF127.140	14	12	110	125	5
HF126.150	HF127.150	15	12	110	53	6





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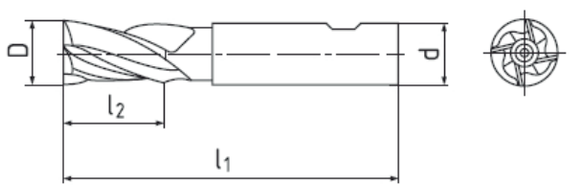
Fresa HSS Serie Larga - Continuación
Características: HSS-CO8 – DIN 844- Tipo N – Corte 40/12º

Referencia	Referencia TIALN	D	d	L1	L2	Z
HF126.160	HF127.160	16	16	123	63	6
HF126.170	HF127.170	17	16	123	63	6
HF126.180	HF127.180	18	16	123	63	6
HF126.190	HF127.190	19	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

Fresa Z4/5/6 – Serie Estándar
Características: HSS-CO8 – DIN 844 - Tipo N – Corte 40/12º / 35/12º

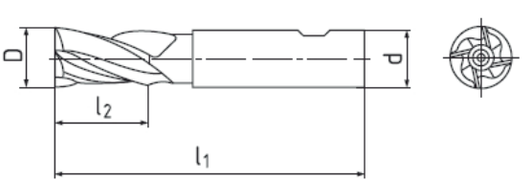
Referencia	Referencia TIALN	D	d	L1	L2	Z
HF128.060	HF129.060	6	6	57	13	4
HF128.070	HF129.070	7	10	66	16	4
HF128.080	HF129.080	8	10	69	19	4
HF128.090	HF129.090	9	10	69	19	4
HF128.100	HF129.100	10	10	72	22	4
HF128.110	HF129.110	11	12	79	22	4
HF128.120	HF129.120	12	12	83	26	4
HF128.130	HF129.130	13	12	83	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	68	4
HF130.070	HF131.070	7	10	80	80	4
HF130.080	HF131.080	8	10	88	88	4
HF130.090	HF131.090	9	10	88	88	4
HF130.100	HF131.100	10	10	95	95	4
HF130.110	HF131.110	11	12	102	102	4
HF130.120	HF131.120	12	12	110	110	4
HF130.130	HF131.130	13	12	110	110	4
HF130.140	HF131.140	14	12	110	110	4
HF130.150	HF131.150	15	12	110	110	4
HF130.160	HF131.160	16	16	123	123	4
HF130.170	HF131.170	17	16	123	123	4
HF130.180	HF131.180	18	16	123	123	4
HF130.200	HF131.200	20	20	141	141	4
HF130.220	HF131.220	22	20	141	141	4
HF130.250	HF131.250	25	25	166	166	5
HF130.280	HF131.280	28	25	166	166	5
HF130.300	HF131.300	30	25	166	166	5
HF130.320	HF131.320	32	32	186	186	5
HF130.360	HF131.360	36	32	186	186	5

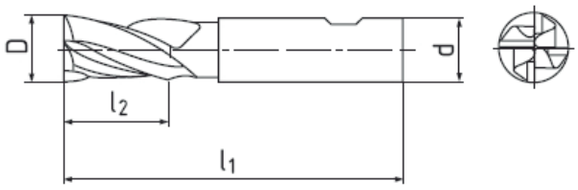
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Referencia	Referencia TIALN	D	d	L1	L2	Z
HF132.020	HF133.020	2	6	51	7	3
HF132.025	HF133.025	2.5	6	52	8	3
HF132.030	HF133.030	3	6	52	8	4
HF132.035	HF133.035	3.5	6	54	10	4
HF132.040	HF133.040	4	6	55	11	4
HF132.045	HF133.045	4.5	6	55	11	4
HF132.050	HF133.050	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	78	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



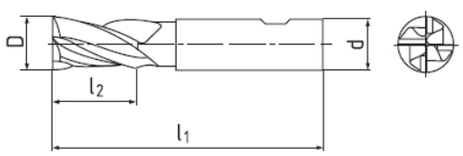


Referencia	Referencia TIALN	D	d	L1	L2	Z
HF134.020	HF135.020	2	6	54	10	3
HF134.030	HF135.030	3	6	56	12	4
HF134.035	HF135.035	3.5	6	59	15	4
HF134.040	HF135.040	4	6	63	19	4
HF134.045	HF135.045	4.5	6	63	19	4
HF134.050	HF135.050	5	6	68	24	4
HF134.055	HF135.055	5.5	6	68	24	4
HF134.060	HF135.060	6	6	68	24	4
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





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

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

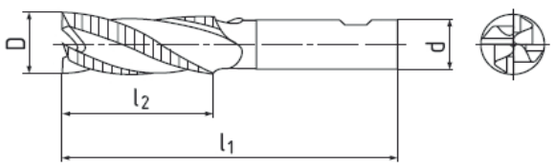
Referencia	Referencia TIALN	D	d	L1	L2	Z
HF134.200	HF135.200	20	20	141	75	4
HF134.200	HF135.200	20	20	141	75	4
HF134.200	HF135.200	22	20	141	75	5
HF134.220	HF135.220	24	25	166	90	5
HF134.240	HF135.240	25	25	166	90	5
HF134.250	HF135.250	26	25	166	90	5
HF134.280	HF135.280	28	25	166	90	5
HF134.300	HF135.300	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



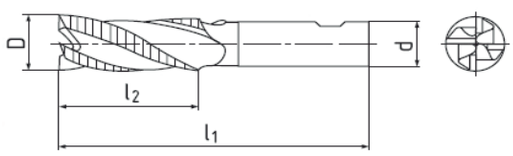


Fresa HSS Desbaste Medio Z4/Z5 – Serie Larga

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	57	13	4
HF142.080	HF143.080	7	10	69	19	4
HF142.100	HF143.100	10	10	72	22	4
HF142.110	HF143.110	11	12	79	22	4
HF142.120	HF143.120	12	12	83	26	4
HF142.130	HF143.130	13	12	83	26	4
HF142.140	HF143.140	14	12	83	26	4
HF142.160	HF143.160	16	16	92	32	4
HF142.180	HF143.180	18	16	92	32	4
HF142.200	HF143.200	20	20	104	38	5
HF142.220	HF143.220	22	20	104	38	5
HF142.240	HF143.240	24	25	121	45	5
HF142.250	HF143.250	25	25	121	45	5
HF142.260	HF143.260	26	25	121	45	5
HF142.280	HF143.280	28	25	121	45	5
HF142.300	HF143.300	30	25	121	45	5
HF142.320	HF143.320	32	32	133	53	6





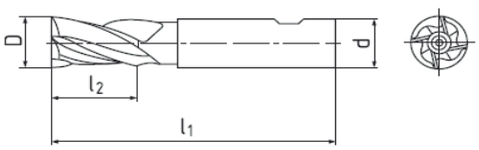
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Fresa HSS Desbaste Fuerte - Z4/Z5 – Serie Extra Larga

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



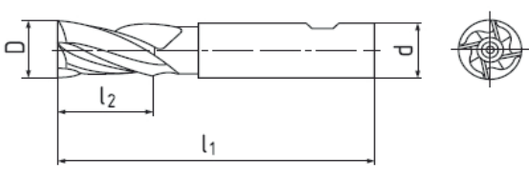


Fresa HSS Acabado - Z4/Z5 – Serie extra Larga

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



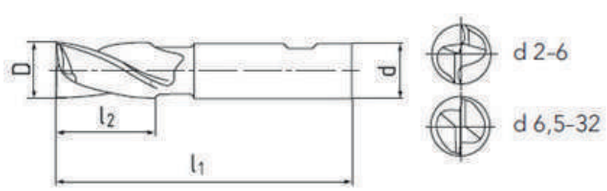


Fresa Z2 – ALU – Serie Estándar

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



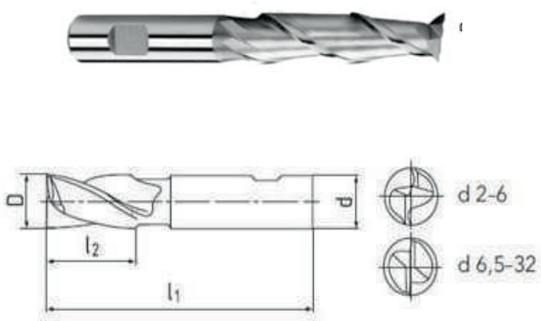


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Fresa Z2 – ALU – Serie Larga

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

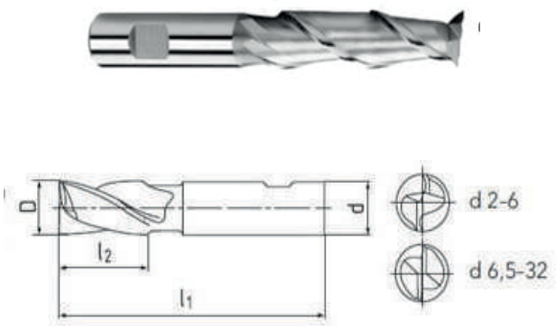
Referencia	D	d	L1	L2	Z
HF162.020	2	6	54	10	2
HF162.030	3	6	56	12	2
HF162.040	4	6	63	19	2
HF162.050	5	6	68	24	2
HF162.060	6	6	68	24	2
HF162.070	7	10	80	30	2
HF162.080	8	10	88	38	2
HF162.100	10	10	95	45	2
HF162.110	11	12	102	45	2
HF162.120	12	12	110	53	2
HF162.130	13	12	110	53	2
HF162.140	14	12	110	53	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

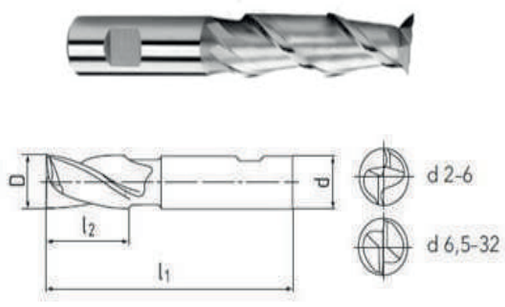
Referencia	D	d	L1	L2	Z
HF164.020	2	6	51	7	3
HF164.030	3	6	52	8	3
HF164.040	4	6	55	11	3
HF164.045	4.5	6	55	11	3
HF164.050	5	6	57	13	3
HF164.060	6	6	57	13	3
HF164.070	7	10	66	16	3
HF164.080	8	10	69	19	3
HF164.090	9	10	69	19	3
HF164.100	10	10	72	22	3
HF164.110	12	12	83	26	3
HF164.120	14	12	83	26	3
HF164.130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

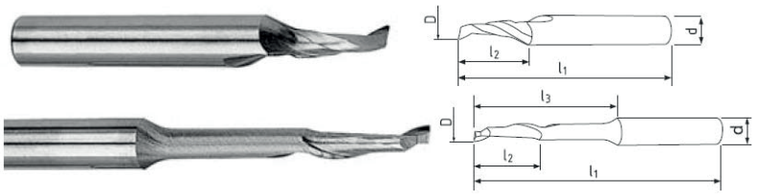
Referencia	Referencia TIALN	D	d	L1	L2	Z
HF166.060	HF167.060	6	6	68	24	3
HF166.070	HF167.070	7	10	80	30	3
HF166.080	HF167.080	8	10	88	38	3
HF166.090	HF167.090	9	10	88	38	3
HF166.100	HF167.100	10	10	95	45	3
HF166.120	HF167.120	12	12	110	53	3
HF166.140	HF167.140	14	12	110	53	3
HF166.150	HF167.150	15	12	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



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Fresa HSS – Z1 – ALU

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

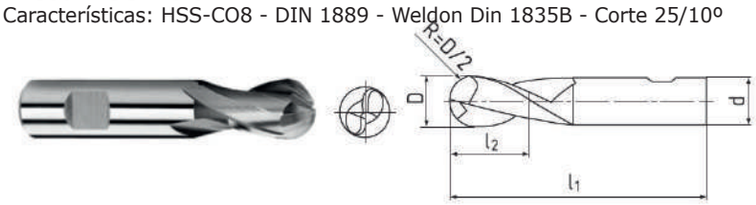


Referencia	D	Ø Amarre	Longitud Total	Longitud Corte
HF110.03	3	8	60	12
HF110.04	4	8	60	14
HF110.05	5	8	60	14
HF110.06	6	8	60	14
HF110.07	7	8	60	14
HF110.08	8	8	80	14
HF110.09	9	8	80	14
HF110.10	10	8	80	14
HF110.12	12	8	80	14

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	6
HF150.045	4.5	6	52	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 Total	Longitud Corte
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

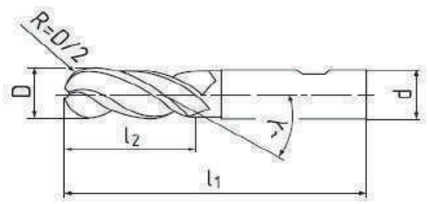
Referencia	D	Ø Amarre	Longitud Total	Longitud Corte
HF152.140	14	12	26	110
HF152.150	15	12	26	110
HF152.160	16	16	32	123
HF152.180	18	16	32	123
HF152.200	20	20	38	141
HF152.220	22	20	38	141
HF152.240	24	25	45	166
HF152.250	25	25	45	166
HF152.280	28	25	45	166
HF152.300	30	25	45	166
HF152.320	32	32	53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

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Fresa HSS Bola – Z4

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





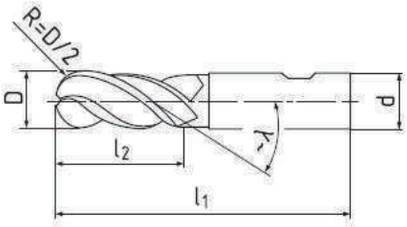
Referencia	D	Ø Amarre	Longitud Corte	Longitud Total
HF154.040	4	6	11	55
HF154.050	5	6	13	57
HF154.060	6	6	13	57
HF154.080	8	10	19	69

Referencia	D	Ø Amarre	Longitud Corte	Longitud Total
HF154.100	10	10	22	72
HF154.120	12	12	26	83
HF154.160	16	16	36	92
HF154.200	20	20	38	104

Fresa HSS Bola – Z4 – Serie Larga

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





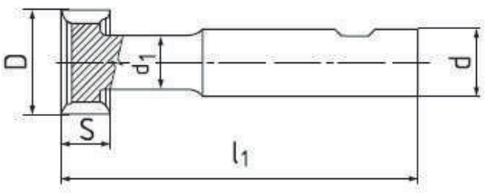
Referencia	D	Ø Amarre	Longitud Corte	Longitud Total
HF156.040	4	6	19	63
HF156.050	5	6	24	68
HF156.060	6	6	24	68
HF156.080	8	10	38	88

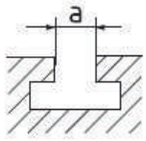
Referencia	D	Ø Amarre	Longitud Corte	Longitud Total
HF156.100	10	10	22	72
HF156.120	12	12	26	83
HF156.160	16	16	36	92
HF156.200	20	20	38	104

Fresa en T - Mango Cilíndrico

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





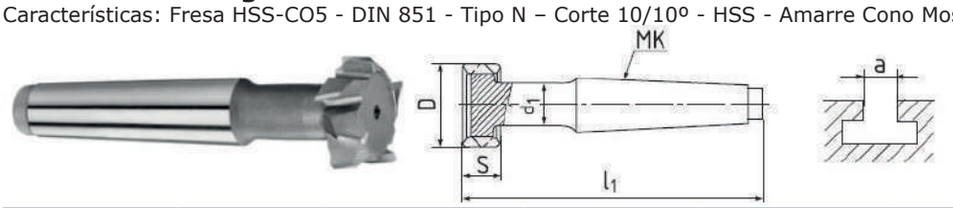


Referencia	Diametro	Amarre	Altura	Longitud Total	Diente	Ancho Ranura
HF214.110	11	10	4	53.5	6	5
HF214.125	12.5	10	6	57	6	6
HF214.160	16	10	8	62	6	8
HF214.180	18	12	8	70	6	10
HF214.190	19	12	9	71	6	8
HF214.210	21	12	9	74	6	12
HF214.220	22	12	10	75	6	10
HF214.250	25	16	11	82	8	14
HF214.280	28	16	12	85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

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Fresa en T - Mango Cono Morse

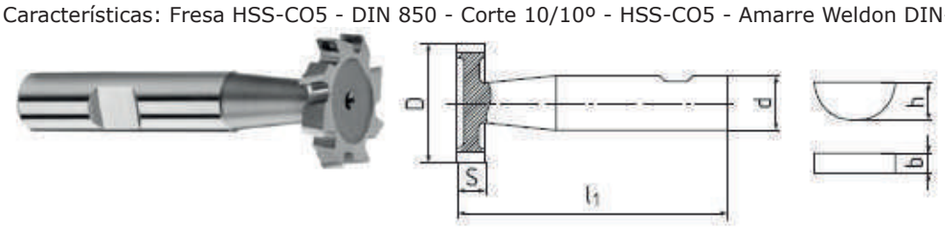
Características: Fresa HSS-CO5 - DIN 851 - Tipo N – Corte 10/10º - HSS - Amarre Cono Mose 228A



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

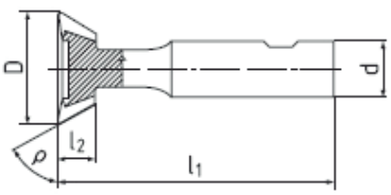
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Fresa Cònica Angular

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	60	5	10
HF220.05020	50	20	12	63	6.3	10
HF220.05025	50	25	12	67	8	10
HF220.05516	55	16	12	60	5.6	10
HF220.05520	55	20	12	63	7.1	10
HF220.05525	55	25	12	67	9	10
HF220.06016	60	16	12	60	6.3	10
HF220.06020	60	20	12	63	8	10
HF220.06025	60	25	12	67	10	10
HF220.06032	60	32	12	71	12.5	12
HF220.06040	60	40	12	80	16	12
HF220.06516	65	16	12	60	6.3	10
HF220.06525	65	25	12	67	10	12
HF220.07016	70	16	12	60	7	10
HF220.07020	70	20	12	63	9	10
HF220.07025	70	25	16	67	11	10
HF220.07516	75	16	12	60	8	10
HF220.07525	75	25	12	67	10	12
HF220.08016	80	16	12	60	8	10
HF220.08025	80	25	12	67	10	12
HF220.08516	85	16	12	60	8	10
HF220.08525	85	25	12	67	10	12



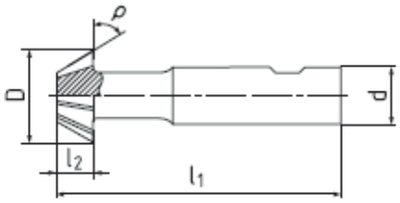


Fresa Cònica Angular

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	71	6.3	10
HF222.06525	65	25	16	80	10	12
HF222.07016	70	16	12	60	7	10
HF222.07020	70	20	12	67	9	10
HF222.07516	75	16	12	60	8	10
HF222.07525	75	25	12	63	10	12



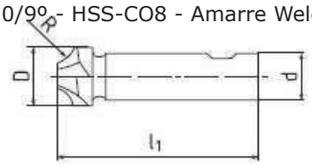


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Fresa Radio

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





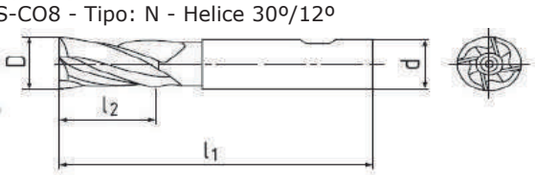
Referencia	Radio	Diametro	Amarre	Long. Total	Dientes
HF224.010	1	8	10	60	4
HF224.0125	1.25	9	10	60	4
HF224.015	1.5	9	10	60	4
HF224.016	1.6	9.2	10	60	4
HF224.020	2	10	10	60	4
HF224.025	2	11	10	60	4
HF224.030	2.5	12	12	60	4
HF224.035	3	13	12	60	4
HF224.040	3.5	14	12	60	4
HF224.045	4	15	12	60	4
HF224.050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





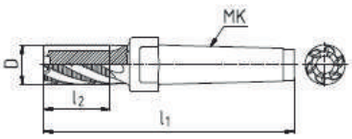
Referencia	Referencia TIALN	D	d	L1	L2	Z
HF212.300	HF213.300	30	20	90	30	6
HF212.350	HF213.350	35	20	90	30	6
HF212.400	HF213.400	40	25	90	32	8
HF212.500	HF213.500	50	32	100	36	8

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
HF226.300	32	4	201	53	6
HF226.320	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

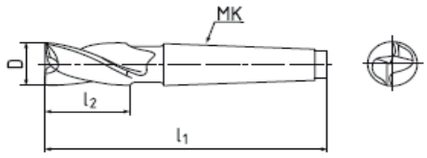
Referencia	D	MK	Long. Total	Long. Corte	Z
H228.160	16	2	148	63	4
H228.200	20	2	160	75	4
H228.220	22	3	160	75	5
H228.240	24	3	192	90	5
H228.250	25	3	192	90	5
H228.260	26	3	192	90	5
H228.280	28	3	192	90	5
H228.300	30	3	192	90	5
H228.320	32	4	254	106	6
H228.360	36	4	254	106	6
H228.400	40	4	273	125	6
H228.450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

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Fresa Z-2 Cono Morse

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





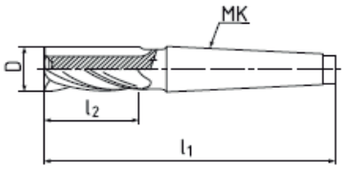
Referencia	D	MK	Long. Total	Long. Corte	Z
HF230.120	12	1	85	14	2
HF230.140	14	2	100	16	2
HF230.160	16	2	105	8	2
HF230.180	18	2	110	20	2
HF230.200	20	2	115	20	2
HF230.220	22	2	120	22	2
HF230.240	24	3	140	25	2
HF230.250	25	3	140	25	2

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

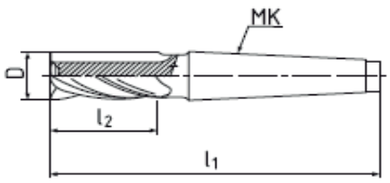
Serie Larga

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

Referencia	D	MK	Long. Total	Long. Corte	Z
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

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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

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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

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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	16	28
HF262.063020	63	2	16	28
HF262.063025	63	2.5	16	28
HF262.063030	63	3	16	28
HF262.063040	63	4	16	28
HF262.063050	63	5	16	28
HF262.063060	63	6	16	28
HF262.080016	80	1.6	20	32
HF262.080020	80	2	20	32
HF262.080025	80	2.5	20	32
HF262.080030	80	3	20	32
HF262.080040	80	4	20	32
HF262.080050	80	5	20	32
HF262.080060	80	6	20	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

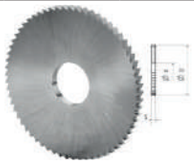
Referencia	Diametro	Espesor	Agujero	Dientes
HF264.050016	50	1.6	16	24
HF264.050020	50	2	16	24
HF264.050025	50	2.5	16	24
HF264.050030	50	3	16	24
HF264.050035	50	3.5	16	24
HF264.050040	50	4	16	24
HF264.050050	50	5	16	22
HF264.063016	63	1.6	16	28
HF264.063020	63	2	16	28
HF264.063025	63	2.5	16	28
HF264.063030	63	3	16	28
HF264.063035	63	3.5	16	28
HF264.063040	63	4	16	28
HF264.063050	63	5	16	28
HF264.063060	63	6	16	28
HF264.080016	80	1.6	20	32
HF264.080020	80	2	20	32
HF264.080025	80	2.5	20	32
HF264.080030	80	3	20	32
HF264.080035	80	3.5	20	32
HF264.080040	80	4	20	32
HF264.080050	80	5	20	32
HF264.080060	80	6	20	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

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



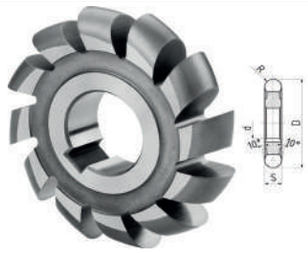
Disco Corte HSS-CO5

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
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

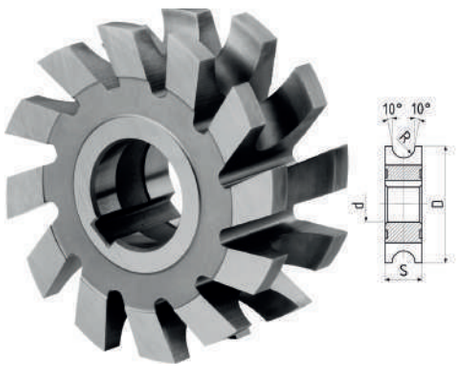


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Fresa Disco Concava

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

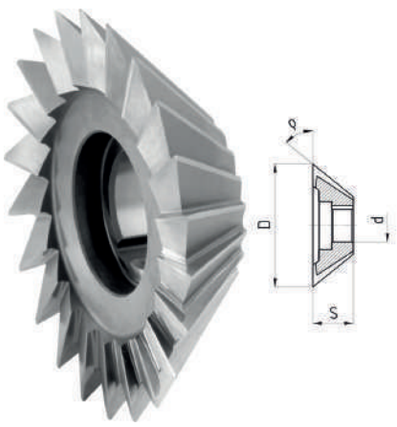
Referencia	Diametro	Radio	Agujero	Espesor	Dientes
HF270.0500100	50	1	16	6	14
HF270.0500125	50	1.25	16	6	14
HF270.0500150	50	1.5	16	8	14
HF270.0500200	50	2	16	9	14
HF270.0630250	63	2.5	22	10	14
HF270.0630300	63	3	22	12	12
HF270.0630400	63	4	22	16	12
HF270.0630500	63	5	22	20	10
HF270.0800600	80	6	27	24	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

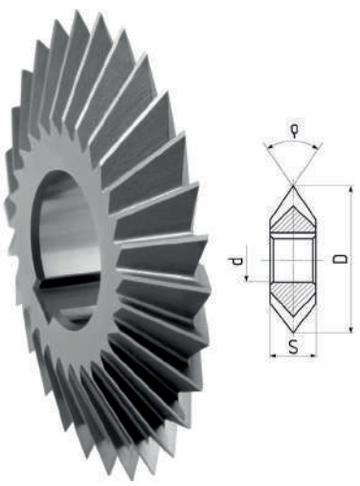
Referencia	Angulo	Diametro	Espesor	Agujero	Dientes
HF272.045040	45	40	10	14	14
HF272.045050	45	50	13	13	16
HF272.045063	45	63	18	16	16
HF272.045080	45	80	22	22	18
HF272.045100	45	100	28	27	20
HF272.050040	50	40	13	10	14
HF272.050050	50	50	16	13	16
HF272.050063	50	63	20	16	16
HF272.050080	50	80	25	20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

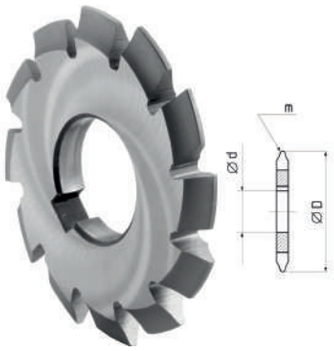


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Fresa Disco Modular

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

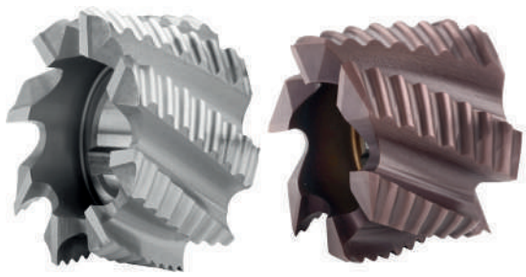
1	2	3	4	5	6	7	8
12-13	14-16	17-20	21-25	26-34	35-54	55-134	135-00

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

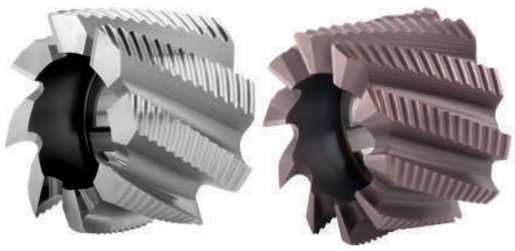
(*) Modelo con HSS-CO8%



Fresa Frontal Desbaste Fino

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

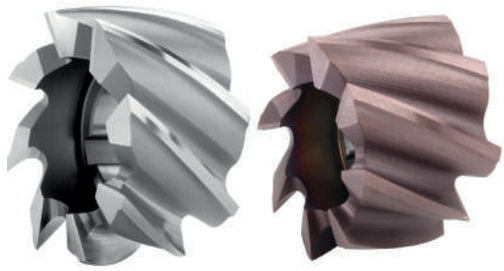
Referencia	Referencia TialN	Diametro	Agujero	Altura	Dientes
HF252.040	HF253.040	40	16	32	8
HF252.050	HF253.050	50	22	36	8
HF252.063	HF253.063	63	27	40	10
HF252.080	HF253.080	80	27	45	10
HF252.100	HF253.100	100	32	50	12



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



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Broca de Centrado Tipo H

Características: HSS-CO5 - RH



Referencia 90º	Diametro	Longitud Total	Longitud Corte
HB110.030	3	46	12
HB110.040	4	55	14
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	14
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

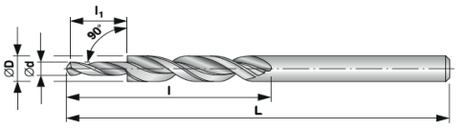
Características: HSS-CO5 – 60º - DIN 333A



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

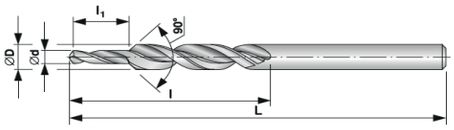
Características: DIN 8376 – HSS



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

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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	4.53.3	71	5	3	K201893040
K201793050	M-5	10	5.54.2	80	8	3	K201893050
K201793060	M-6	11	6.65	80	8	3	K201893060
K201793080	M-8	15	96.8	100	12.5	3	K201893080
K201793100	M-10	18	118.5	100	12.5	3	K201893100
K201793120	M-12	20	13.510.2	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

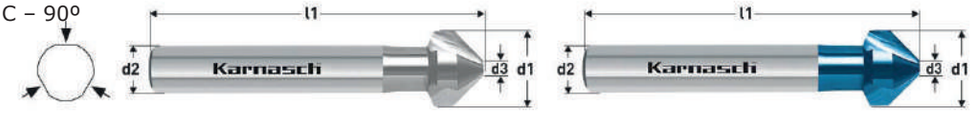
Con Recubrimiento

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

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Avellanador 90º - Z3

Características: HSS-XE – DIN335 – Forma C – 90º



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 – 90ªº



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 AVELLENADORES



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

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Avellanador 90º - Serie Larga y Extra Larga

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	K201725.010
K201720.020	8.3	2	85	155	6	3	M4	K201725.020
K201720.030	10.4	2.5	88	157	6	3	M5	K201725.030
K201720.040	12.4	2.8	108	158	8	3	M6	K201725.040
K201720.050	15	3.2	110	158	10	3	M8	K201725.050
K201720.060	16.5	3.2	112	161	10	3	M8	K201725.060
K201720.070	20.5	3.5	115	164	10	3	M10	K201725.070
K201720.080	25	3.8	118	164	10	3	M12	K201725.080
K201720.080	25	3.8	118	164	10	3	M12	K201725.080

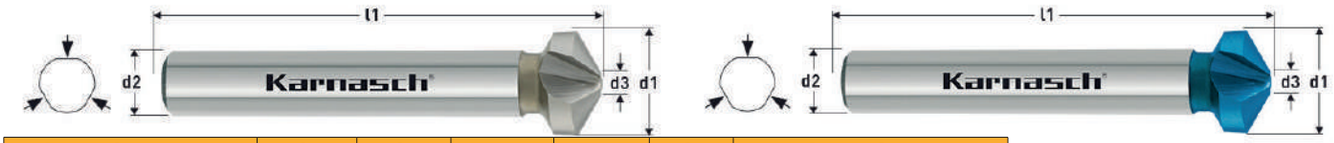
Características: HSS-XE-Blue – DIN 335 – Forma C – 90º



Referencia Larga	d1	d3	L1 (Modelo Largo)	L1 (Modelo Extra Largo)	d2	Z	BF	Referencia Extra Larga
K201770.010	6.3	1.5	85	154	5	3	M3	K201775.010
K201770.020	8.3	2	85	155	6	3	M4	K201775.020
K201770.030	10.4	2.5	88	157	6	3	M5	K201775.030
K201770.040	12.4	2.8	108	158	8	3	M6	K201775.040
K201770.050	15	3.2	110	158	10	3	M8	K201775.050
K201770.060	16.5	3.2	112	161	10	3	M8	K201775.060
K201770.070	20.5	3.5	115	164	10	3	M10	K201775.070
K201770.080	25	3.8	118	164	10	3	M12	K201775.080
K201720.080	25	3.8	118	164	10	3	M12	K201775.080

Avellanador 120

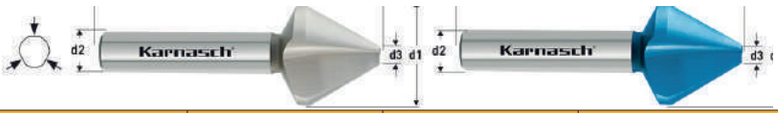
Características: HSS-XE-Blue – DIN 335 – Forma C – 60º



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

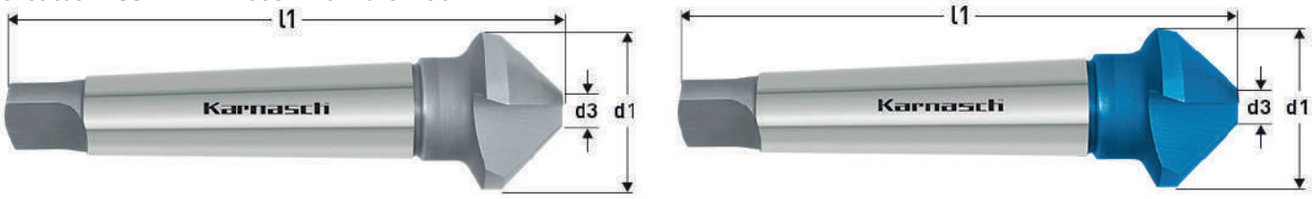


Referencia	d1	d3	L1	Z	d2	Referencia BLUE
K404030.0063	6.3	1.6	45	3	5	K403030.0063
K404030.0080	8	2	50	3	6	K403030.0080
K404030.0100	10	2.5	53	3	6	K403030.0100
K404030.0125	12.5	3.2	56	3	8	K403030.0125
K404030.0160	16	4	63	3	10	K403030.0160
K404030.0200	20	5	67	3	10	K403030.0200
K404030.0250	25	6.3	71	3	10	K403030.0250
K404030.0315	31.5	10	76	3	12	K403030.0315

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Avellanador 90º - Cono Morse

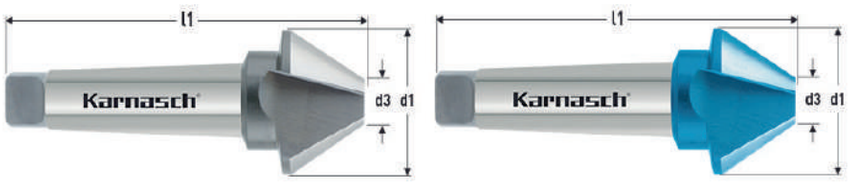
Características: HSS-XE – DIN335 – Forma C – 90º



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

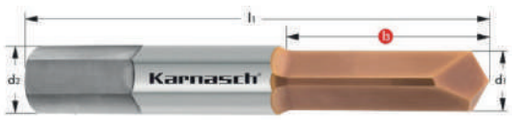
Características: HSS-XE – DIN335 – Forma C – 60º



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

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



Set de Extractor de Machos

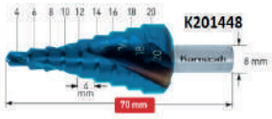
REFERENCIA:	K201865
Incluyen las Medidas de M3 – M4 – M5 – M6 – M8 – M10	

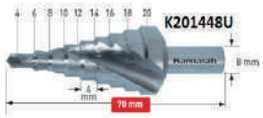
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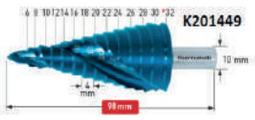
Brocas Escalonadas HSS

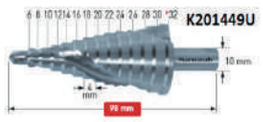








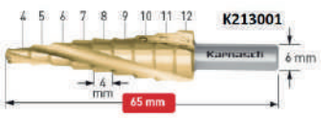


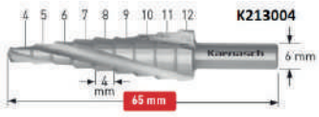


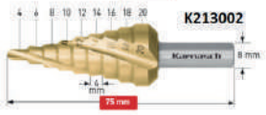
Referencia Recubierta	Rango	Ø Amarre	Altura corte	Longitud total	Referencia Sin Recubrir
K201447	4-12	6	5	80	K201447U
K201448	4-20	8	4	70	K201448U
K201449	6-32	10	4	98	K201449U

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













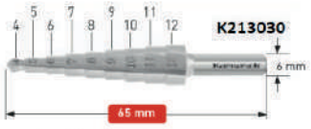


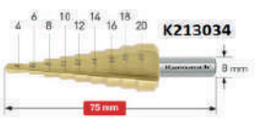
Referencia Recubierta	Rango	Ø Amarre	Altura corte	Longitud total	Referencia Sin Recubrir
K213001	4-12	6	4	65	K213004
K213002	4-20	8	4	75	K213005
K213003	6-30	10	4	100	K213006

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
K213033	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



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



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Coronas para Maquinas de Base Electromagética – Blue Line

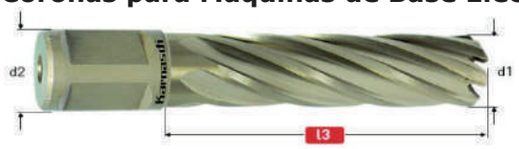


- Fresa Hueca HSS-XE con Recubrimiento y Amarre Weldon 19mm.
- Modelo K201312 (Longitud 30 mm)
- Modelo K201313 (Longitud 55mm)
- Disponibles también de longitud 80 y 110 mm algunas medidas

Diámetro	Referencia L3	Referencia L3
	30 mm	55 mm
Ø12	K201312.012	K201313.012
Ø13	K201312.013	K201313.013
Ø14	K201312.014	K201313.014
Ø15	K201312.015	K201313.015
Ø16	K201312.016	K201313.016
Ø17	K201312.017	K201313.017
Ø18	K201312.018	K201313.018
Ø19	K201312.019	K201313.019
Ø20	K201312.020	K201313.020
Ø21	K201312.021	K201313.021
Ø22	K201312.022	K201313.022
Ø23	K201312.023	K201313.023
Ø24	K201312.024	K201313.024
Ø25	K201312.025	K201313.025
Ø26	K201312.026	K201313.026
Ø27	K201312.027	K201313.027
Ø28	K201312.028	K201313.028
Ø29	K201312.029	K201313.029
Ø30	K201312.030	K201313.030
Ø31	K201312.031	K201313.031
Ø32	K201312.032	K201313.032
Ø33	K201312.033	K201313.033
Ø34	K201312.034	K201313.034
Ø35	K201312.035	K201313.035
Ø36	K201312.036	K201313.036

Diámetro	Referencia L3	Referencia L3
	30 mm	55 mm
Ø37	K201312.037	K201313.037
Ø38	K201312.038	K201313.038
Ø39	K201312.039	K201313.039
Ø40	K201312.040	K201313.040
Ø41	K201312.041	K201313.041
Ø42	K201312.042	K201313.042
Ø43	K201312.043	K201313.043
Ø44	K201312.044	K201313.044
Ø45	K201312.045	K201313.045
Ø46	K201312.046	K201313.046
Ø47	K201312.047	K201313.047
Ø48	K201312.048	K201313.048
Ø49	K201312.049	K201313.049
Ø50	K201312.050	K201313.050
Ø51	K201312.051	K201313.051
Ø52	K201312.052	K201313.052
Ø53	K201312.053	K201313.053
Ø54	K201312.054	K201313.054
Ø55	K201312.055	K201313.055
Ø56	K201312.056	K201313.056
Ø57	K201312.057	K201313.057
Ø58	K201312.058	K201313.058
Ø59	K201312.059	K201313.059
Ø60	K201312.060	K201313.060

Coronas para Maquinas de Base Electromagética – Gold Line

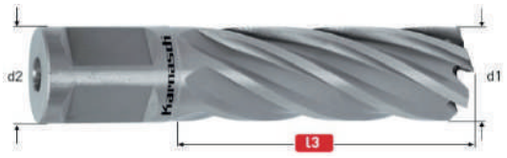


- Fresa Hueca HSS y Amarre Weldon 19mm.
- Modelo K201260U (Longitud 30 mm)
- Modelo K201270U (Longitud 55mm)
- Disponibles también de longitud 80 y 110 mm algunas medidas

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						

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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

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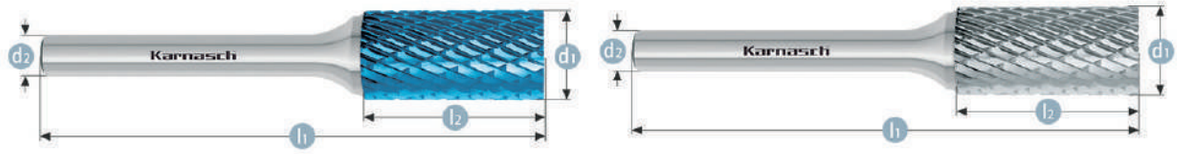
Coronas para Maquinas de Base Electromagética – Hard-Line



- 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
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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

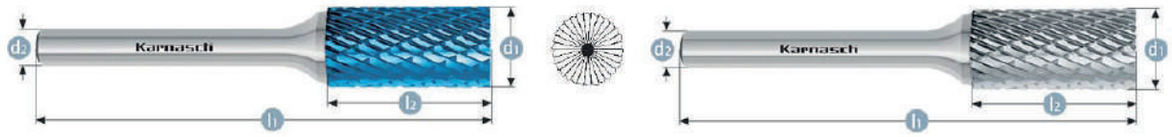
Fresa Rotativa HP3 - Forma A



Referencia BLUE	D1	L2	D2	L2	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		-

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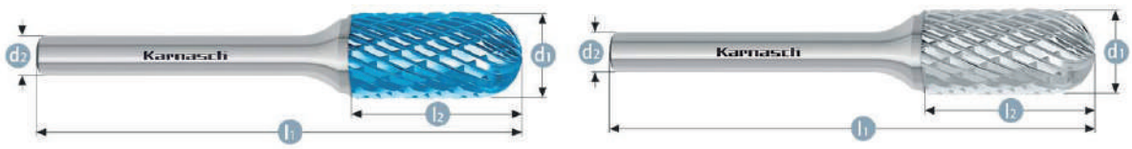
Fresa Rotativa HP3 - Forma B



Referencia BLUE	D1	L2	D2	L2	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

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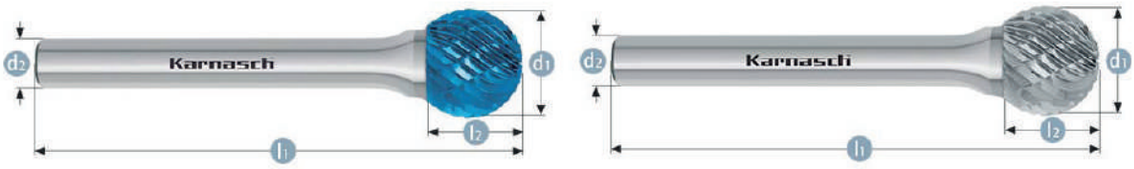
Fresa Rotativa HP3 - Forma C



Referencia BLUE	D1	L2	D2	L2	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

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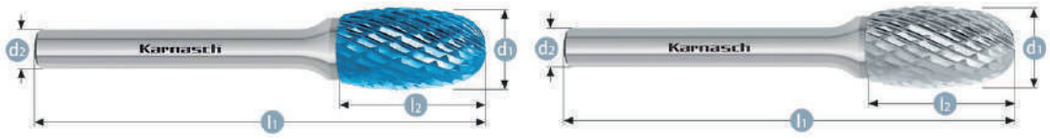
Fresa Rotativa HP3 - Forma D - Bola



Referencia BLUE	D1	L2	D2	L2	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

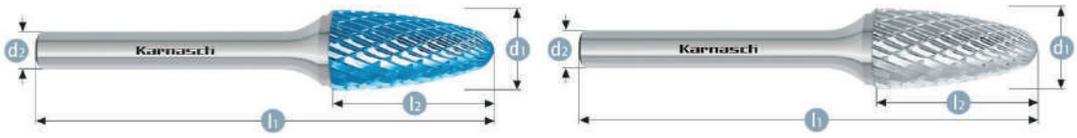
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Fresa Rotativa HP3 - Forma E - Oval



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

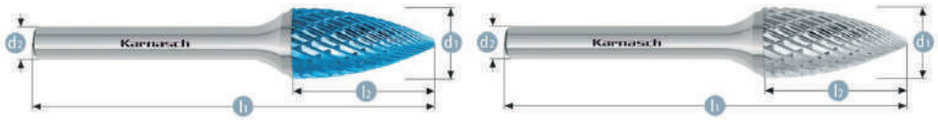
Fresa Rotativa HP3 - Forma F - Ojival Redondeada



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

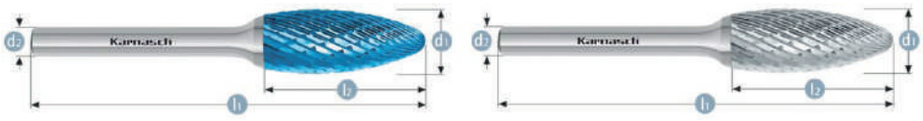
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Fresa Rotativa HP3 - Forma G - Ojival Punta



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

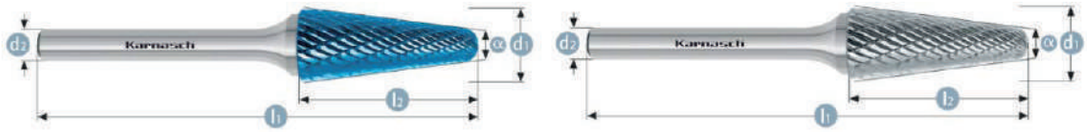
Fresa Rotativa HP3 - Forma H



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

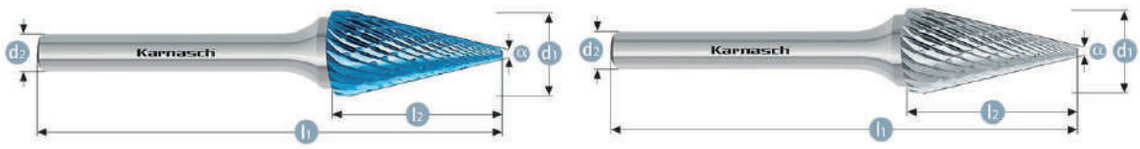
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Fresa Rotativa HP3 - Forma L



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

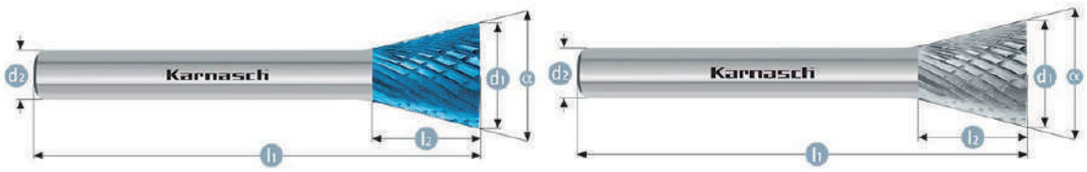
Fresa Rotativa HP3 - Forma M



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

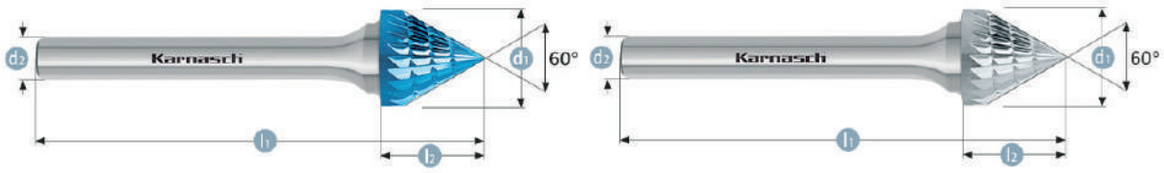
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Fresa Rotativa HP3 - Forma N



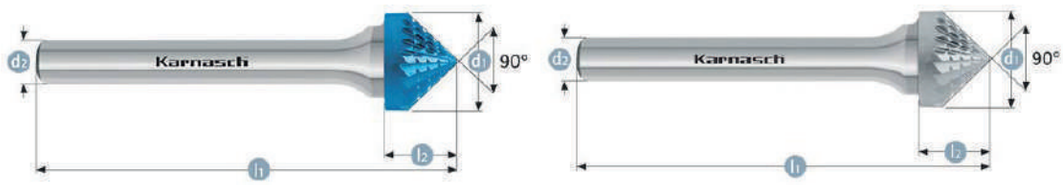
Referencia BLUE	D1	L2	D2	L2	M.S	VHM	ALFA	Referencia
K11 5096 005	3	5	3	38		X	10°	K11 3096 005
K11 5096 010	6	7	3	39	X		10°	K11 3096 010
K11 5096 015	6	8	6	50		X	10°	K11 3096 015
K11 5096 020	10	10	6	55	X		13°	K11 3096 020
K11 5096 025	12	13	6	58	X		30°	K11 3096 025
K11 5096 030	12	13	8	58	X		30°	K11 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

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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

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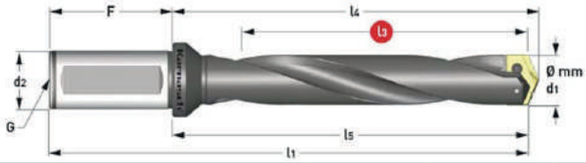
Amoladoras Rectas Profesionales de Aire Karnasch

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

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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"

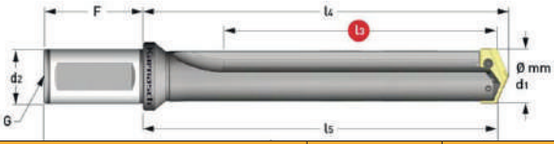
22.1010 - Broca Intercambiable Hélice Mango Cilíndrico - 5xD

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"

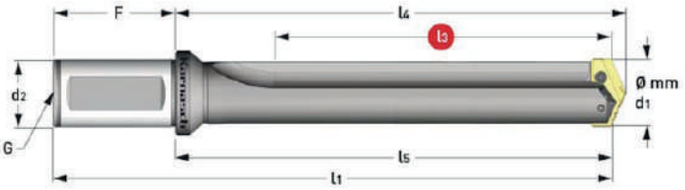
22.1020 - Broca Intercambiable Recta Mango Cilíndrico - 3xD



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"

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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"

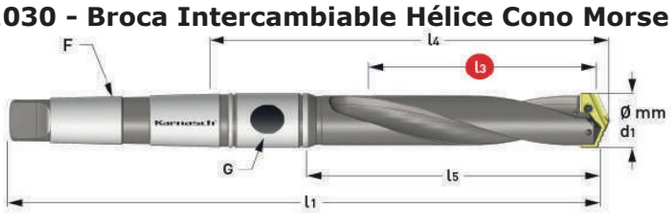
22.1020 - Broca Intercambiable Recta Mango Cilíndrico - 12xD

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

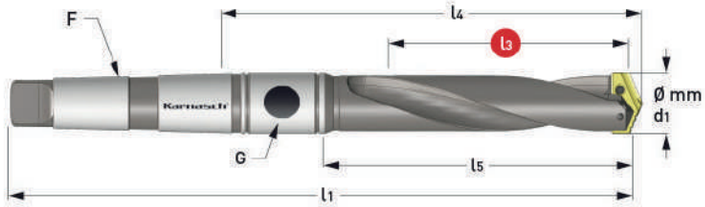
Referencia	Rango Óptimo	Rango Posible	Corte L3	L5	L4	L1	d2	F	G
K22.1020.02900.0095	9.5-11	-	290	319.9	322.3	369.9	20	50	1/8"
K22.1020.02905.0115	11.5-12.5	-	290	319.9	322.3	369.9	20	50	1/8"
K22.1020.03870.0130	13-15	13-17.5	387	416	418.8	446	20	50	1/8"
K22.1020.03870.0155	15.5-17.5	-	387	416	418.8	446	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

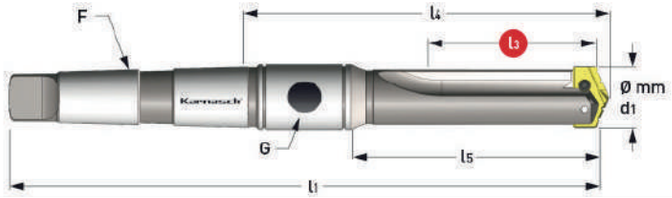


Referencia	Rango Óptimo	Rango Posible	Corte L3	L5	L4	L1	F	G
K22.1030.00603.0095	9.5-11	-	60.3	80.2	116.7	188.9	2	1/16"
K22.1030.00603.0115	11.5-12.5	-	60.3	80.2	116.7	188.9	2	1/16"
K22.1030.00635.0130	13-15	13-17.5	63.5	84.1	121	192.9	2	1/16"
K22.1030.00635.0155	15.5-17.5	-	63.5	84.1	121	192.9	2	1/16"
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 Hélice Cono Morse - 3xD



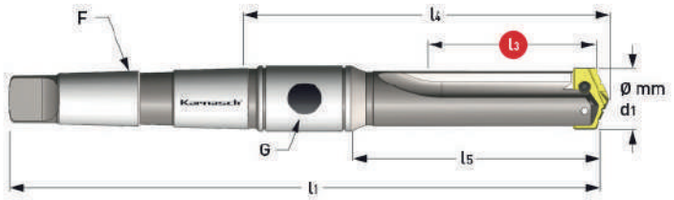
Referencia	Rango Óptimo	Rango Posible	Corte L3	L5	L4	L1	F	G
K22.1040.01301.0480	48-55	48-65	130.1	165.1	219.1	363.5	5	1/4"
K22.1040.01301.0560	56-65	-	130.1	165.1	219.1	363.5	5	1/4"
K22.1040.01715.0640	64-76	64-88	171.5	215.9	287.3	430.2	5	1/2"
K22.1040.01715.0780	78-88	-	171.5	215.9	287.3	430.2	5	1/2"
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 Hélice 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			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"

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22.1040 - Broca Intercambiable Hélice 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 Hélice 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

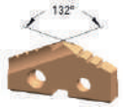
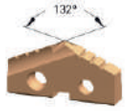
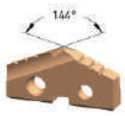
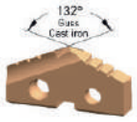
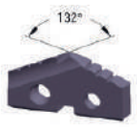
Referencia	Para Brocas Ø mm
K22.9010.0095	09-11
K22.9010.0115	11.5-12.5
K22.9010.0130	13-17.5
K22.9010.0180	18-24
K22.9010.0250	25-35
K22.9010.0360	36-65
K22.9010.0640	64-114



Referencia	Máx N/cm
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.		K22.4010 - MD Uso para inoxidables, materiales desbaste y materiales duros.	
K22.2510 - HSS Uso para inoxidables, hierro y fundición en grandes diámetros.		K22.4510 - MD Uso para todo tipo de fundición.	
K22.3010 - HSS Uso para aluminios, latón y cobre.		K22.5010 - MD Uso para aluminios, latón y cobre.	
K22.3510 - HSS Uso para cero fundido, acero y fundición.		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	-	-	-	-	-

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Cuchillas para Brocas Intercambiables



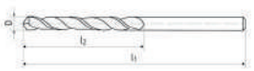
Diámetro	K22.2010 HSS	K22.2510 HSS	K22.3010 HSS	K22.3510 HSS	K22.4010 MD	K22.4510 MD	K22.5010 MD	K22.5510 MD
44	440	-	440	-	-	-	-	-
45	450	-	450	-	-	-	-	-
46	460	-	460	-	-	-	-	-
47	470	-	470	-	-	-	-	-
48	480	-	480	-	-	-	-	-
49	490	-	490	-	-	-	-	-
50	500	-	500	-	-	-	-	-
51	510	-	510	-	-	-	-	-
52	520	-	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	-	-	-	-

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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





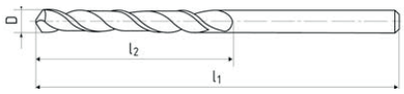
Referencia HSS	Referencia HSS-CO5	Ø D	I1 Long. Total	I2 Long. Corte
HB120.0100	-	1	26	6
HB120.0110	-	1.1	28	7
HB120.0120	-	1.2	30	8
HB120.0125	-	1.25	30	8
HB120.0130	-	1.3	30	8
HB120.0140	-	1.4	32	9
HB120.0150	-	1.5	32	9
HB120.0160		1.6	34	10
HB120.0170	-	1.7	34	10
HB120.0175	-	1.75	36	11
HB120.0180	-	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
HB124.0320	HB126.0320	3,2	65	36
HB124.0330	HB126.0330	3,3	65	36

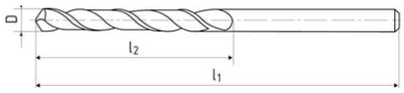
Referencia HSS	Referencia HSS-CO5	Ø D	I1 Long. Total	I2 Long. Corte
HB124.0340	HB126.0340	3,4	70	39
HB124.0350	HB126.0350	3,5	70	39
HB124.0360	HB126.0360	3,6	70	39
HB124.0370	HB126.0370	3,7	70	39
HB124.0380	HB126.0380	3,8	75	43
HB124.0390	HB126.0390	3,9	75	43
HB124.0400	HB126.0400	4	75	43
HB124.0410	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
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

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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

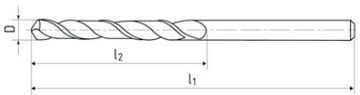
Referencia HSS	Referencia HSS-CO5	Ø D	I1 Long. Total	I2 Long. Corte
HB124.1300	HB126.1300	13	151	101
HB124.1310	-	13,1	151	101
HB124.1320	HB126.1320	13,2	151	101
HB124.1330	-	13,3	160	108
HB124.1340	-	13,4	160	108
HB124.1350	HB126.1350	13,5	160	108
HB124.1360	-	13,6	160	108
HB124.1370	-	13,7	160	108
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

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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

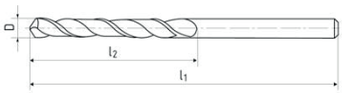
Referencia	Ø D	I1	I2
HB130.1350	13,5	160	108
HB130.1400	14	160	108
HB130.1450	14,5	169	114
HB130.1500	15	169	114
HB130.1550	15,5	178	120
HB130.1600	16	178	120
HB130.1650	16,5	184	125
HB130.1700	17	184	125
HB130.1750	17,5	191	130
HB130.1800	18	191	130
HB130.1850	18,5	198	135
HB130.1900	19	198	135
HB130.1950	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

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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

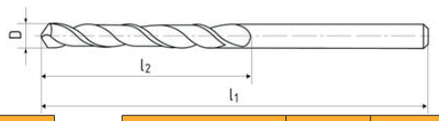
Referencia Serie 3	Ø D	I1	I2
HB140.0350	3.5	265	180
HB140.0360	3,6	265	180
HB140.0370	3,7	265	180
HB140.0375	3,75	265	180
HB140.0380	3,8	280	190
HB140.0390	3,9	280	190
HB140.0400	4	280	190
HB140.0410	4,1	280	190
HB140.0420	4,2	280	190
HB140.0425	4,25	280	190
HB140.0430	4,3	295	200
HB140.0440	4,4	295	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

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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

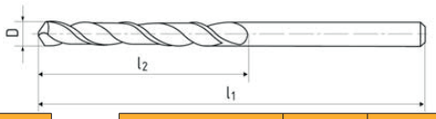
Referencia Serie 3	Ø D	I1	I2
HB140.0710	7,1	370	250
HB140.0720	7,2	370	250
HB140.0725	7,25	370	250
HB140.0730	7,3	370	250
HB140.0710	7,1	370	250
HB140.0720	7,2	370	250
HB140.0725	7,25	370	250
HB140.0730	7,3	370	250
HB140.0710	7,1	370	250
HB140.0720	7,2	370	250
HB140.0725	7,25	370	250
HB140.0730	7,3	370	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

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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

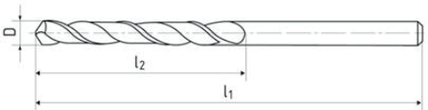
Referencia: HB124-SET25
Medidas: 1 a 13 mm cada 0.5mm
Referencia: HB126-SET25
Medidas: 1 a 13 mm cada 0.5mm

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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
HB142.0380	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

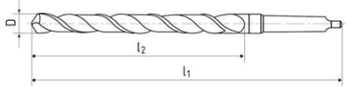
Referencia Serie 2	Ø D	I1	I2
HB144.0280	2,8	190	130
HB144.0300	3	190	130
HB144.0320	3,2	200	135
HB144.0350	3,5	210	145
HB144.0380	3,8	220	150
HB144.0400	4	220	150
HB144.0420	4,2	220	150
HB144.0450	4,5	235	160
HB144.0480	4,8	245	170
HB144.0500	5	245	170
HB144.0520	5,2	245	170
HB144.0550	5,5	260	180
HB144.0580	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

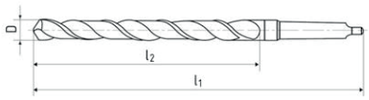
Referencia HSS	Referencia HSS-COS	Ø D	MK CM	I1 Long. Total	I2 Long. Corte
HB150.1000	HB152.1000	10	1	168	87
HB150.1025	-	10,25	1	168	87
HB150.1050	HB152.1050	10,5	1	168	87
HB150.1075	-	10,75	1	175	94
HB150.1100	HB152.1100	11	1	175	94
HB150.1125	-	11,25	1	175	94
HB150.1150	HB152.1150	11,5	1	175	94
HB150.1175	-	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

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Broca HSS Cono Morse - DIN 345

HB150 > HSS - DIN 345 - TIPO N - Punta 118º - PAS
HB152 > HSS-CO5% - DIN 345 - Tipo N - Punta 128º





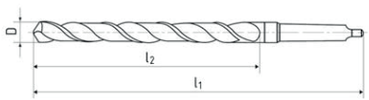
Referencia HSS	Referencia HSS-COS	Ø D	MK CM	I1 Long. Total	I2 Long. Corte
HB150.1260	-	12,6	1	182	101
HB150.1270	-	12,7	1	182	101
HB150.1275	-	12,75	1	182	101
HB150.1280	-	12,8	1	182	101
HB150.1290	-	12,9	1	182	101
HB150.1300	HB152.1300	13	1	182	101
HB150.1310	-	13,1	1	182	101
HB150.1320	-	13,2	1	182	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
HB150.2250	HB152.2250	22,5	2	253	155
HB150.2275	-	22,75	2	253	155
HB150.2300	HB152.2300	23	2	253	155

Referencia HSS	Referencia HSS-COS	Ø D	MK CM	I1 Long. Total	I2 Long. Corte
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
HB150.2325	-	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





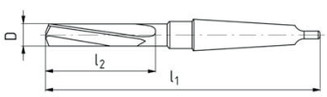
Referencia HSS	Referencia HSS-COS	Ø D	MK CM	I1 Long. Total	I2 Long. Corte
HB150.3750	HB152.3750	37,5	4	344	195
HB150.3800	HB152.3800	38	4	349	200
HB150.3850	HB152.3850	38,5	4	349	200
HB150.3900	HB152.3900	39	4	349	200
HB150.3950	HB152.3950	39,5	4	349	200
HB150.4000	HB152.4000	40	4	349	200
HB150.4050	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
HB150.5000	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

Referencia HSS	Referencia HSS-COS	Ø D	MK CM	I1 Long. Total	I2 Long. Corte
HB150.5700	-	57	5	422	235
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

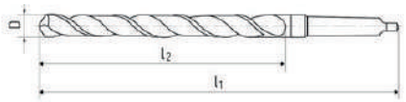
Referencia	D	MK	I1	I2
HB168.3800	38	4	265	120
HB168.3900	39	4	265	120
HB168.4000	40	4	265	120
HB168.4100	41	4	265	120
HB168.4200	42	4	265	120
HB168.4300	43	4	265	120
HB168.4400	44	4	265	120
HB168.4500	45	4	265	120
HB168.4600	46	4	265	120
HB168.4700	47	4	265	150
HB168.4800	48	5	340	150
HB168.4900	49	5	340	150
HB168.5000	50	5	340	150

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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

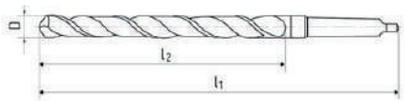
Referencia	D	MK	I1	I2
HB156.0800	8	1	265	165
HB156.0850	8,5	1	265	165
HB156.0900	9	1	275	175
HB156.0950	9,5	1	275	175
HB156.1000	10	1	285	185
HB156.1050	10,5	1	285	185
HB156.1100	11	1	300	195
HB156.1150	11,5	1	300	195
HB156.1200	12	1	310	205
HB156.1250	12,5	1	310	205
HB156.1300	13	1	310	205
HB156.1350	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

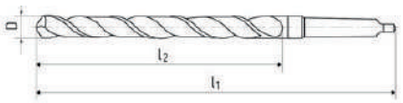
Referencia	D	MK	I1	I2
HB156.4000	40	4	555	360
HB156.4100	41	4	555	360
HB156.4200	42	4	555	360
HB156.4300	43	4	585	385
HB156.4400	44	4	585	385
HB156.4500	45	4	585	385
HB156.4600	46	4	585	385
HB156.4700	47	4	585	385
HB156.4800	48	4	605	405
HB156.4900	49	4	605	405
HB156.5000	50	4	605	405

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-COS - 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

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

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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



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 47994980

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
MC4N	16 x 10 x 110	P20 – M30 – K10
MC4N	20 x 12 x 125	P20 – M30 – K10
MC4N	25 x 16 x 140	P20 – M30 – K10
MC4N	32 x 20 x 170	P20 – M30 – K10
MC4N	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



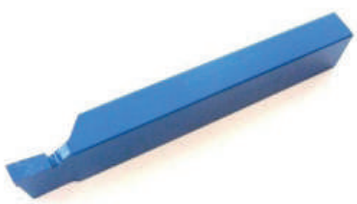
Cuchilla ISO 6 – DIN 4980

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



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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 Neutra	Dimensiones	Calidades
MC09N	8 X 8 X 125	P20 – M30 – K10
MC09N	10 X 10 X 150	P20 – M30 – K10
MC09N	12 X 12 X 180	P20 – M30 – K10
MC09N	16 X 16 X 210	P20 – M30 – K10
MC09N	20 X 20 X 250	P20 – M30 – K10
MC09N	25 X 25 X 300	P20 – M30 – K10
MC09N	32 X 32 X 355	P20 – M30 – K10



Cuchilla ISO 10 – DIN 4795

Referencia Neutra	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
MC10N	40 x 25 x 200	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



TIPO DE CALIDADES:
- Calidad P20 – Acero
- Calidad M30 – Inoxidable
- Calidad K10 – Fundición

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Sierras de Cinta "JUNIOR" Bimetalica M-42 – Dentado Variable



Dentado P - POSITIVO.
Dentado N - NEUTRO 0º.
Dentado BS - DENTADO ANCHO

Ancho x Espesor	0,75/1,25	1,1/1,6	1,4/2	2/3	3/4	4/5	4/6	5/6	5/8	6/10	8/12	10/14
6 x 0,6												N
6 x 0,9												N
10 x 0,6												N
10 x 0,9												N
13 x 0,6										N	N	N
13 x 0,9												N
20 x 0,9							P		N	N	N	N
27 x 0,9				P	P-N-BS	P	P-N-BS	P	N	N	N	N
34 x 1,1				P-BS	P-N-BS	P	P-N-BS	P	N	N	N	
41 x 1,3			P	P-BS	P-N-BS	P	P-N-BS		N	N		
54 x 1,3		P	P	P	P-BS	P	P					
54 x 1,6	P	P	P	P-BS	P-BS	P	P-BS	P				
67 x 1,6	P	P	P	P	P		BS					
80 x 1,6	P	P	P	P								

Sierras de Cinta "JUNIOR" Bimetalica M-42 – Dentado Fijo



Dentado P - POSITIVO.
Dentado N - NEUTRO 0º.
Dentado ALU – Aluminio y Maderas (Maquinas de ejecución vertical)

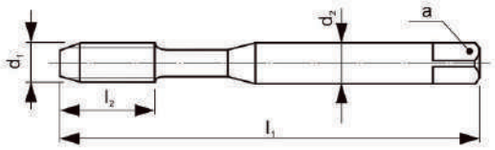
Ancho x Espesor	0.75	1.25	2	3	4	6	8	10	14	18
6 x 0,6						P				
6 x 0,9						P		N	N	
10 x 0,6						P				
10 x 0,9					P	P	N	N	N	
13 x 0,6						P		N	N	
13 x 0,9				P-ALU	P-ALU	P	N	N	N	
20 x 0,9				P-ALU	P				N	N
27 x 0,9			P-ALU	P-N-ALU	P-N-ALU	P-N	N	N	N	
34 x 1,1			ALU							
41 x 1,3		P-ALU	P-ALU	P-N-ALU	P-N	N	N	N		
54 x 1,3		P	P	P	P					
54 x 1,6		P								
67 x 1,6		P	P	P						
80 x 1,6		P	P							

Datos Técnicos: Selección del Paso de Diente en Sierras de Cinta

PASO DE DIENTES	TUBOS Y PERFILES	MACIZOS		PASO DE DIENTES	TUBOS Y PERFILES	MACIZOS
Z = 14	0-2 mm de espesor	0-10 mm		Z = 4/5	Uso ocasional	60-120 mm
Z = 10/14	2-4 mm de espesor	7-12 mm		Z = 3/4	12-30 mm de espesor	80-160 mm
Z = 8/12	3-5 mm de espesor	10-20 mm		Z = 2/3	+ 30 mm de espesor	120-350 mm
Z = 6/10	4-7 mm de espesor	15-30 mm		Z = 1,4/2	– –	200-500 mm
Z = 5/8	6-10 mm de espesor	20-40 mm		Z = 1,1/1,6	– –	400-800 mm
Z = 5/6	Uso ocasional	35-90 mm		Z = 0,75/1,25	– –	+ de 800 mm
Z = 4/6	7-15 mm de espesor	40-100 mm				

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M | 60° P | DIN 13 | Type N | HSSE ★ | DIN 371 | ISO 2 6H | Form B 3,5-6



Z = Número de Cortes



Referencia:	100-100	100-100	100-101	100-104
	ISO 3 6G	OX		TiAlN

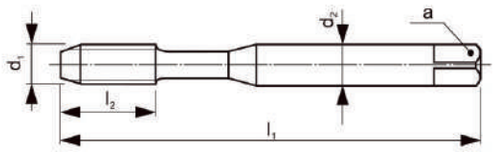
d_1	P	l_1	l_2	d_2	a	z				
M2	0,4	45	8	2,8	2,1	3	■			
M2,5	0,45	50	9	2,8	2,1	3	■			
M3	0,5	56	11	3,5	2,7	3	■	■	■	■
M4	0,7	63	13	4,5	3,4	3	■	■	■	■
M5	0,8	70	16	6	4,9	3	■	■	■	■
M6	1	80	19	6	4,9	3	■	■	■	■
M8	1,25	90	22	8	6,2	3	■	■	■	■
M10	1,5	100	24	10	8	3	■	■	■	■

Velocidad de Corte

V_c m/min	Acero 800 N/mm2	Aluminio
100-100	8-15	10-15
100-101	12-20	12-20
100-104	10-15	

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M | 60° P | DIN 13 | Type N | HSSE ★ | DIN 371 | ISO 2 6H | Form C 2-3 | ≤2xd



Z = Número de Cortes



Referencia: 100-400

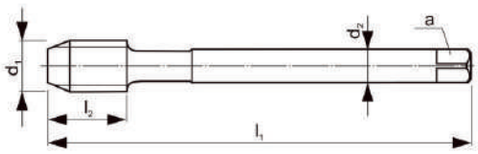
d_1	P	l_1	l_2	d_2	a	z	
M3	0,5	56	9	3,5	2,7	3	■
M3,5	0,6	56	11	4	3	3	■
M4	0,7	63	12	4,5	3,4	3	■
M5	0,8	70	13	6	4,9	3	■
M6	1	80	15	6	4,9	3	■
M8	1,25	90	18	8	6,2	3	■
M10	1,5	100	20	10	8	3	■

Velocidad de Corte

V_c m/min	Acero 800 N/mm2	Aluminio
100-400	6-10	8-10

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M | 60° P | DIN 13 | Type N | HSSE ★ | DIN 376 | ISO 2 6H | Form B 3,5-6



z = Número de Cortes



Referencia: 200-100 | 200-100 | 200-101 | 200-104 | 200-400

ISO 3 6G | OX | TiAlN | Form C 2-3

d_1	P	l_1	l_2	d_2	a	z					
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					■

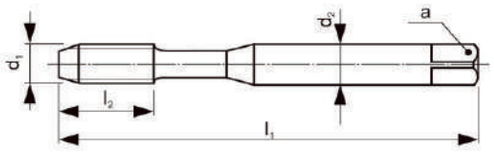
Velocidad de Corte

V_c m/min	Acero 800 N/mm2	Aluminio
200-100	8-15	10-15
200-101	10-15	12-20
200-104	12-20	
200-400	6-10	8-10

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JUNGMANN® WERKZEUGE

M | 60° P | DIN 13 | Type N | HSSE ★ | DIN 371 | ISO 2 6H | Form C 2-3 | RSP 40° | ≤2xd



Z = Número de Cortes



Referencia:	100-500	100-500	100-501	100-504
		ISO 3 6G	OX	TiAlN

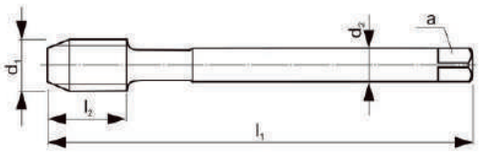
d_1	P	l_1	l_2	d_2	a	z				
M2	0,4	45	6	2,8	2,1	3	■			
M2,5	0,45	50	7,5	2,8	2,1	3	■			
M3	0,5	56	5	3,5	2,7	3	■	■	■	■
M4	0,7	63	7	4,5	3,4	3	■	■	■	■
M5	0,8	70	8	6	4,9	3	■	■	■	■
M6	1	80	10	6	4,9	3	■	■	■	■
M8	1,25	90	13	8	6,2	3	■	■	■	■
M10	1,5	100	15	10	8	3	■	■	■	■

Velocidad de Corte

V_c m/min	Acero 800 N/mm2	Aluminio
100-500	8-10	8-10
100-501	10-12	10-15
100-504	10-15	

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M | 60° P | DIN 13 | Type N | HSSE ★ | DIN 376 | ISO 2 6H | Form C 2-3 | RSP 40° | ≤2xd



Z = Número de Cortes

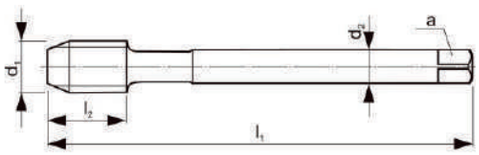


Referencia:							200-500	200-500	200-501	200-504
								ISO 3 6G	OX	TiAlN
d_1	P	l_1	l_2	d_2	a	z				
M3	0,5	56	5	2,2	-	3	■			
M4	0,7	63	7	2,8	2,1	3	■		■	
M5	0,8	70	8	3,5	2,7	3	■		■	
M6	1	80	10	4,5	3,4	3	■		■	
M7	1	80	10	5,5	4,3	3	■		■	
M8	1,25	90	13	6	4,9	3	■		■	
M10	1,5	100	15	7	5,5	3	■		■	
M12	1,75	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	■		■	

Velocidad de Corte V_c m/min	Acero 800 N/mm2	Aluminio
200-500	8-10	8-10
200-501	10-12	10-15
200-504	10-15	

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Z = Número de Cortes

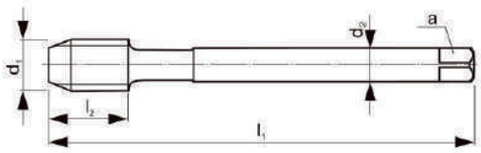


Referencia:							300-100	300-400
							Form C 2-3	
d_1	P	l_1	l_2	d_2	a	z		
M4	0,5	63	12	2,8	2,1	3	■	■
M5	0,5	70	13	3,5	2,7	3	■	■
M6	0,5	80	15	4,5	3,4	3	■	■
M6	0,75	80	15	4,5	3,4	3	■	■
M7	0,75	80	15	5,5	4,3	3	■	■
M8	0,75	80	15	6	4,9	3	■	■
M8	1	90	18	6	4,9	3	■	■
M9	1	90	18	7	5,5	3	■	■
M10	0,75	90	20	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	■	■

Velocidad de Corte V_c m/min	Acero 800 N/mm2	Aluminio
300-100	8-15	10-15
300-400	6-10	8-10

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MF | 60° P | DIN 13 | Type N | HSSE ★ | DIN 374 | ISO 2 6H | Form B 3,5-6



Z = Número de Cortes



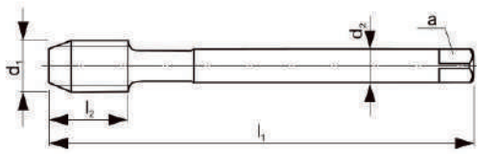
Referencia:							300-100	300-400
d_1	P	l_1	l_2	d_2	a	z		Form C 2-3 / ≤2xd
M20	1	125	24	16	12	3	■	■
M20	1,5	125	24	16	12	3	■	■
M20	2	140	30	16	12	3	■	■
M22	1	125	24	18	14,5	3	■	■
M22	1,5	125	24	18	14,5	3	■	■
M22	2	140	30	18	14,5	3	■	■
M24	1	140	26	18	14,5	4	■	■
M24	1,5	140	26	18	14,5	4	■	■
M24	2	140	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	■	■

Velocidad de Corte V_c m/min	Acero 800 N/mm2	Aluminio
300-100	8-15	10-15
300-400	6-10	8-10

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JUNGMANN® WERKZEUGE

MF | 60° | DIN 13 | Type N | HSSE ★ | DIN 374 | ISO 2 6H | Form C 2-3 | RSP 40° | ≤2xd



Z = Número de Cortes



Referencia: 300-500

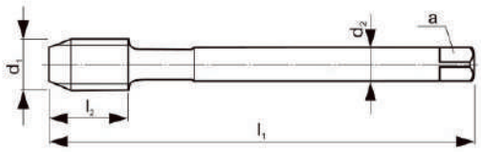
d_1	P	l_1	l_2	d_2	a	z	
M4	0,5	63	7	2,8	2,1	3	■
M5	0,5	70	8	3,5	2,7	3	■
M6	0,5	80	10	4,5	3,4	3	■
M6	0,75	80	10	4,5	3,4	3	■
M7	0,75	80	10	5,5	4,3	3	■
M8	0,75	80	10	6	4,9	3	■
M8	1	90	13	6	4,9	3	■
M9	1	90	13	7	5,5	3	■
M10	0,75	90	12	7	5,5	3	■
M10	1	90	12	7	5,5	3	■
M10	1,25	100	15	7	5,5	3	■
M11	1	90	12	8	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	■

Velocidad de Corte

V_c m/min	Acero 800 N/mm2	Aluminio
300-500	8-10	8-10

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Z = Número de Cortes



Referencia: **300-500**

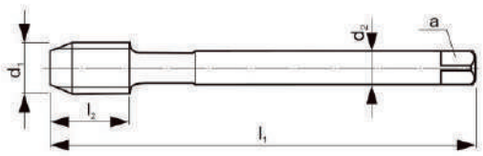
d_1	P	l_1	l_2	d_2	a	z	
M22	1	125	20	18	14,5	4	■
M22	1,5	125	20	18	14,5	4	■
M22	2	140	20	18	14,5	4	■
M24	1	140	22	18	14,5	4	■
M24	1,5	140	22	18	14,5	4	■
M24	2	140	22	18	14,5	4	■
M25	1,5	140	22	18	14,5	4	■
M26	1,5	140	22	18	14,5	4	■
M27	1	140	22	20	16	4	■
M27	1,5	140	22	20	16	4	■
M27	2	140	22	20	16	4	■
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	■

Velocidad de Corte V_c m/min	Acero 800 N/mm2	Aluminio
300-500	8-10	8-10

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JUNGMANN® WERKZEUGE

G | 55° P | DIN ISO 228 | Type N | HSSE ★ | DIN 5156 | Form B 3,5-6



Z = Número de Cortes

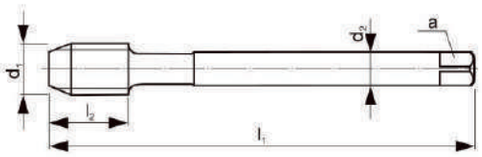


Referencia:							203-400	203-100	203-102
							Form C 2-3		TiN
d_1	P	l_1	l_2	d_2	a	z	≤2xd		
G1/8"	28	90	20	7	5,5	3	■	■	■
G1/4"	19	100	21	11	9	3	■	■	■
G3/8"	19	100	21	12	9	3	■	■	■
G1/2"	14	125	24	16	12	3	■	■	■
G5/8"	14	125	24	18	14,5	4	■	■	■
G3/4"	14	140	26	20	16	4	■	■	■
G7/8"	14	150	28	22	18	4	■	■	■
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	■	■	■

Velocidad de Corte V_c m/min	Acero 800 N/mm2	Aluminio
203-400	6-10	6-10
203-100	8-15	10-15
203-102	10-15	10-15

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G | 55° P | DIN ISO 228 | Type N | HSSE ★ | DIN 5156 | Form C 2-3 | RSP 35° | ≤2xd



Z = Número de Cortes





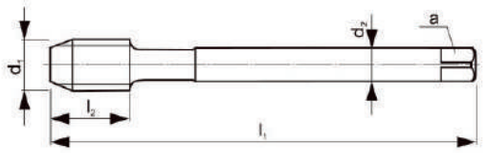
Referencia:							203-500	203-502
								TiN
d_1	P	l_1	l_2	d_2	a	z		
G1/8"	28	90	20	7	5,5	3	■	■
G1/4"	19	100	21	11	9	3	■	■
G3/8"	19	100	21	12	9	3	■	■
G1/2"	14	125	24	16	12	3	■	■
G5/8"	14	125	24	18	14,5	4	■	■
G3/4"	14	140	26	20	16	4	■	■
G7/8"	14	150	28	22	18	4	■	■
G1"	11	160	30	25	20	4	■	■
G1 1/8"	11	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		

Velocidad de Corte

V_c m/min	Acero 800 N/mm2	Aluminio
203-500	8-15	10-15
203-502	10-15	10-15

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Z = Número de Cortes

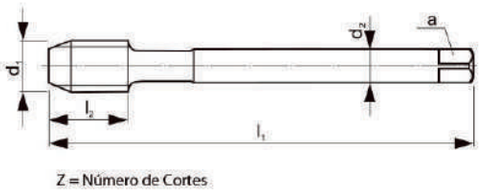


Referencia:								101-400	101-100	101-500
									Form B 3,5-6	RSP 35°
d_1	P	l_1	l_2	l_2	d_2	a	z RSP35°			
UNC5	40	56	9	5	3,5	2,7	3	■	■	■
UNC6	32	56	11	7	4	3	3	■	■	■
UNC8	32	63	12	7	4,5	3,4	3	■	■	■
UNC10	24	70	13	8	6	4,9	3	■	■	■
UNC12	24	80	15	10	6	4,9	3	■	■	■
UNC1/4	20	80	15	10	7	5,5	3	■	■	■
UNC5/16	18	90	18	13	8	6,2	3	■	■	■
UNC3/8	16	90	20	15	9	7	3	■	■	■

Velocidad de Corte V_c m/min	Acero 800 N/mm2	Aluminio
101-400	6-10	8-10
101-100	8-15	10-15
101-500	8-10	8-10

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Z = Número de Cortes



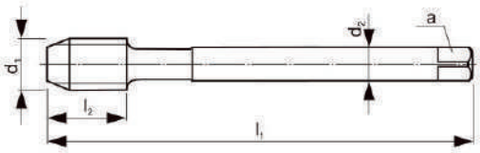
Referencia:							201-400	201-100	201-500
								Form B 3,5-6	RSP 35°
							≤2xd		≤2xd
d_1	P	l_1	l_2	d_2	a	z /RSP35°			
UNC7/16	14	100	20	8	6,2	3/3	■	■	■
UNC1/2	13	110	23	9	7	3/3	■	■	■
UNC9/16	12	110	25	11	9	3/3	■	■	■
UNC5/8	11	110	25	12	9	3/3	■	■	■
UNC3/4	10	125	30	14	11	3/4	■	■	■
UNC7/8	9	140	30	18	14,5	3/4	■	■	■
UNC1	8	160	36	18	14,5	3/4	■	■	■
UNC1 1/8	7	180	40	22	18	4/-	■	■	

Velocidad de Corte V_c m/min	Acero 800 N/mm2	Aluminio
201-400	6-10	8-10
201-100	8-15	10-15
201-500	8-10	8-10

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JUNGMANN® WERKZEUGE

UNF | 60° P | Type N | HSSE ★ | ≈DIN 374 | 2B | Form C 2-3



Z = Número de Cortes



Referencia:

	302-400	302-100	302-500
		Form B 3.5-6	RSP 35°
	≤2xd		≤2xd

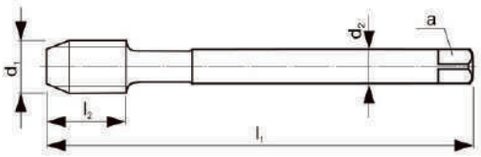
d_1	P	l_1	l_2	d_2	a	z /RSP35°	302-400	302-100	302-500
UNF5	44	56	9	2,2	-	3/3	■	■	■
UNF6	40	56	11	2,5	2,1	3/3	■	■	■
UNF8	36	63	12	2,8	2,1	3/3	■	■	■
UNF10	32	70	13	3,5	2,7	3/3	■	■	■
UNF12	28	80	15	4	3	3/3	■	■	■
UNF1/4	28	80	15	4,5	3,4	3/3	■	■	■
UNF5/16	24	90	18	6	4,9	3/3	■	■	■
UNF3/8	24	90	20	7	5,5	3/3	■	■	■
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	■	■	■

Velocidad de Corte

V_c m/min	Acero 800 N/mm2	Aluminio
302-400	6-10	8-10
302-100	8-15	10-15
302-500	8-10	8-10

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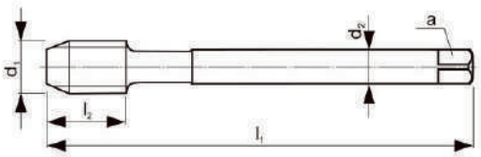


Z = Número de Cortes

Referencia: 704-400

d_1	P	l_1	l_2	d_2	a	z	
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	■







Z = Número de Cortes

Referencia: 705-400

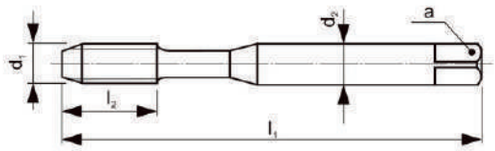
d_1	P	l_1	l_2	d_2	a	z /RSP35°	
PG7	20	70	22	9	7	4	■
PG9	18	70	22	12	9	4	■
PG11	18	80	22	14	11	4	■
PG13,5	18	80	22	16	12	4	■
PG16	18	80	22	18	14,5	4	■
PG21	16	90	22	22	18	4	■
PG29	16	100	25	28	22	4	■

Velocidad de Corte V_c m/min	Acero 800 N/mm2	Aluminio
704-400	3-6	5-8
705-400	8-10	8-10

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JUNGMANN® WERKZEUGE

M | 60° P | DIN 13 | Type H 1200 | HSSE ★ | DIN 371 | ISO 2 6H | Form B 3,5-6



Z = Número de Cortes



Referencia:	100-121	100-123
	OX	TiCN

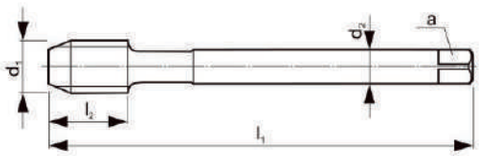
d_1	P	l_1	l_2	d_2	a	z		
M3	0,5	56	9	3,5	2,7	3	■	■
M4	0,7	63	12	4,5	3,4	3	■	■
M5	0,8	70	13	6	4,9	3	■	■
M6	1	80	15	6	4,9	3	■	■
M8	1,25	90	18	8	6,2	3	■	■
M10	1,5	100	20	10	8	3	■	■

Velocidad de Corte

V_c m/min	Acero 800 N/mm2	Acero 1200 N/mm2	Al (Si > 8%)
100-121	12-15	4-8	8-12
100-123	10-15	8-12	8-20

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M | 60° P | DIN 13 | Type H 1200 | HSSE ★ | DIN 376 | ISO 2 6H | Form B 3,5-6



Z = Número de Cortes





Referencia:							200-121	200-123
							OX	TiCN
d_1	P	l_1	l_2	d_2	a	z		
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	■	■

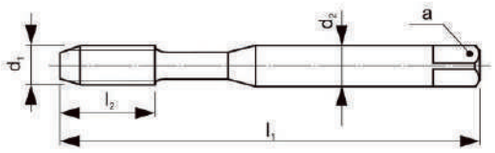
Velocidad de Corte

V_c m/min	Acero 800 N/mm2	Acero 1200 N/mm2	Al (Si > 8%)
200-121	12-15	4-8	8-12
200-123	10-15	8-12	8-20

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JUNGMANN® WERKZEUGE

M | 60° P | DIN 13 | Type H 1200 | HSSE ★ | DIN 371 | ISO 2 6H | Form C 2-3 | RSP 40° | ≤2xd



Z = Número de Cortes





Referencia:	100-521	100-523
	OX	TiCN

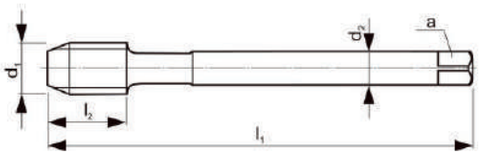
d_1	P	l_1	l_2	d_2	a	z		
M3	0,5	56	5	3,5	2,7	3	■	■
M4	0,7	63	7	4,5	3,4	3	■	■
M5	0,8	70	8	6	4,9	3	■	■
M6	1	80	10	6	4,9	3	■	■
M8	1,25	90	13	8	6,2	3	■	■
M10	1,5	100	15	10	8	3	■	■

Velocidad de Corte

V_c m/min	Acero 800 N/mm2	Acero 1200 N/mm2	Al (Si > 8%)
100-521	10-12	4-8	10-15
100-523	10-15	6-10	8-20

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M | 60° P | DIN 13 | Type H 1200 | HSSE ★ | DIN 376 | ISO 2 6H | Form C 2-3 | RSP 40° | ≤2xd



Z = Número de Cortes





Referencia:	200-521	200-523
	OX	TiCN

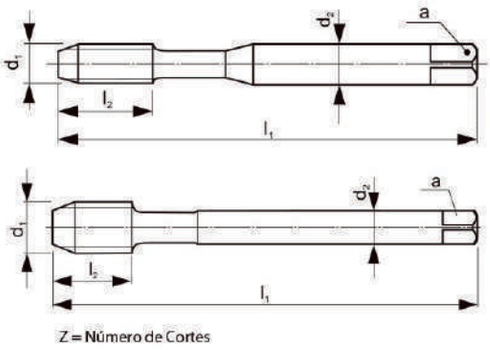
d_1	P	l_1	l_2	d_2	a	z		
M3	0,5	56	5	2,2	-	3	■	■
M4	0,7	63	7	2,8	2,1	3	■	■
M5	0,8	70	8	3,5	2,7	3	■	■
M6	1	80	10	4,5	3,4	3	■	■
M8	1,25	90	13	6	4,9	3	■	■
M10	1,5	100	15	7	5,5	3	■	■
M12	1,75	110	18	9	7	4	■	■
M14	2	110	20	11	9	4	■	■
M16	2	110	20	12	9	4	■	■
M18	2,5	125	25	14	11	4	■	■
M20	2,5	140	25	16	12	4	■	■
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	■	■

Velocidad de Corte

V_c m/min	Acero 800 N/mm2	Acero 1200 N/mm2	Al (Si > 8%)
200-521	10-12	4-8	10-15
200-523	10-15	6-10	8-20

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M | 60° P | DIN 13 | Type H 1400 | HSSE PM ★★★★ | DIN 371 | DIN 376 | ISO 2 6H | FNT



Z = Número de Cortes



Referencia: 100-144 | 100-564 | 100-544

DIN 371 Form B 3,5-6 | DIN 371 Form C 2-3 | DIN 371 Form D 3,5-5

d_1	P	l_1	l_2	l_2 RSP	d_2	a	z			
M3	0,5	56	9	5	3,5	2,7	3	■	■	■
M4	0,7	63	12	7	4,5	3,4	3	■	■	■
M5	0,8	70	13	8	6	4,9	3	■	■	■
M6	1	80	15	10	6	4,9	3	■	■	■
M8	1,25	90	18	13	8	6,2	3	■	■	■
M10	1,5	100	20	15	10	8	3	■	■	■

Referencia: 200-144 | 200-564 | 200-544

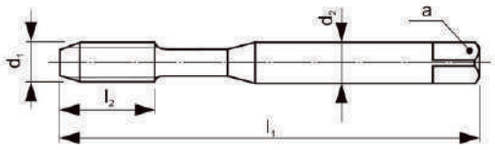
DIN 376 Form B 3,5-6 | DIN 376 Form C 2-3 | DIN 376 Form D 3,5-5

d_1	P	l_1	l_2	l_2 RSP	d_2	a	z			
M12	1,75	110	23	18	9	7	3	■	■	■

Velocidad de Corte V_c m/min	Acero 800 N/mm2	Acero 1400 N/mm2
100-144, 200-144	4-8	4-8
100-564, 200-564	5-10	4-8
100-544, 200-544	5-10	4-8

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M | 60° P | DIN 13 | Type VA | HSSE PM ★★★★ | DIN 371 | ISO 2 6H | Form C 2-3 | RSP 40° | ≤2xd



Z = Número de Cortes

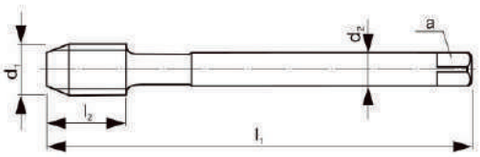


Referencia:							100-655	100-601	100-603
							HL	OX	TiCN
d_1	P	l_1	l_2	d_2	a	z		HSSE ★	HSSE ★
M3	0,5	56	5	3,5	2,7	3	■	■	■
M4	0,7	63	7	4,5	3,4	3	■	■	■
M5	0,8	70	8	6	4,9	3	■	■	■
M6	1	80	10	6	4,9	3	■	■	■
M8	1,25	90	13	8	6,2	3	■	■	■
M10	1,5	100	15	10	8	3	■	■	■

Velocidad de Corte V_c m/min	INOX
100-655	8-12
100-601	3-6
100-603	4-8

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M | 60° P | DIN 13 | Type VA | HSSE PM ★★★★ | DIN 376 | ISO 2 6H | Form C 2-3 | RSP 40° | ≤2xd



Z= Número de Cortes

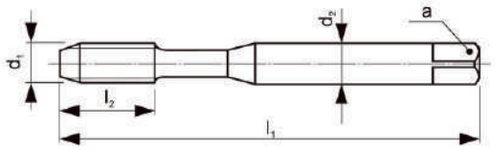


Referencia:							200-655	200-601	200-603
							HL	OX	TiCN
d_1	P	l_1	l_2	d_2	a	z		HSSE ★	HSSE ★
M3	0,5	56	5	2,2	-	3		■	
M4	0,7	63	7	2,8	2,1	3		■	
M5	0,8	70	8	3,5	2,7	3		■	
M6	1	80	10	4,5	3,4	3		■	
M8	1,25	90	13	6	4,9	3		■	
M10	1,5	100	15	7	5,5	3		■	
M12	1,75	110	18	9	7	3	■	■	■
M14	2	110	20	11	9	3	■	■	■
M16	2	110	20	12	9	4	■	■	■
M18	2,5	125	25	14	11	4		■	■
M20	2,5	140	25	16	12	4	■	■	■
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		■	■

Velocidad de Corte V_c m/min	INOX
200-655	8-12
200-601	3-6
200-603	4-8

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Z = Número de Cortes



Referencia: 100-423

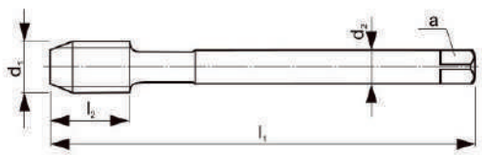
TiCN

d_1	P	l_1	l_2	d_2	a	z	
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	■

Velocidad de Corte V_c m/min	Fundición
100-423	10-20

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M | 60° P | DIN 13 | Type GG | HSSE ★ | DIN 376 | ISO 2 6HX | Form C 2-3 | ≤2xd



Z = Número de Cortes



Referencia: 200-423

TiCN

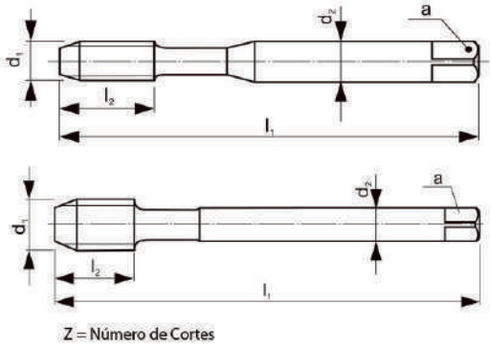
d_1	P	l_1	l_2	d_2	a	z	
M3	0,5	56	9	2,2	-	3	■
M4	0,7	63	12	2,8	2,1	3	■
M5	0,8	70	13	3,5	2,7	3	■
M6	1	80	15	4,5	3,4	3	■
M8	1,25	90	18	6	4,9	4	■
M10	1,5	100	20	7	5,5	4	■
M12	1,75	110	23	9	7	4	■
M14	2	110	25	11	9	4	■
M16	2	110	25	12	9	4	■
M18	2,5	125	30	14	11	4	■
M20	2,5	140	30	16	12	4	■
M22	2,5	140	30	18	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	■

Velocidad de Corte

V_c m/min	Fundición
200-423	10-20

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M | 60° P | DIN 13 | Type AL | HSSE ★ | ISO 2 6H | Form B 3,5-6 | ALS



Z = Número de Cortes



Referencia: 100-126 | 100-306

DIN 371 | DIN 371

d_1	P	l_1	l_2	d_2	a	z	100-126	100-306
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	■	■

Referencia: 200-126 | 200-306

DIN 376 | DIN 376

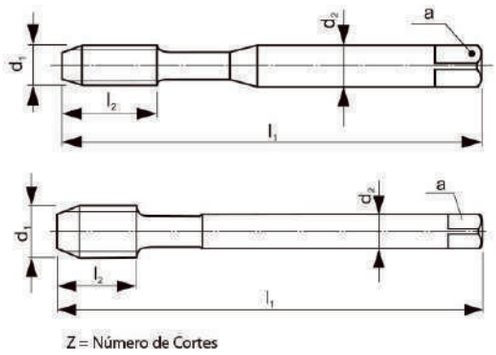
d_1	P	l_1	l_2	d_2	a	z	200-126	200-306
M12	1,75	110	23	9	7	3	■	■
M14	2	110	25	11	9	3	■	■
M16	2	110	25	12	9	3	■	■
M18	2,5	125	30	14	11	3	■	■
M20	2,5	140	30	16	12	3	■	■

Velocidad de Corte

V_c m/min	ALU (Si<8%)	ALU (Si>8%)
100-126	10-30	
200-126	10-30	
100-306		15-35
200-306		15-35

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M | 60° P | DIN 13 | Type AL | HSSE ★ | ISO 2 6H | Form C 2-3 | ≤2xd | ALS



Z = Número de Cortes



Referencia: 100-526 100-706

DIN 371 RSP 40° | DIN 371 RSP 45°

d_1	P	l_1	l_2	d_2	a	z RSP40°	z RSP45°	100-526	100-706
M3	0,5	56	5	3,5	2,7	3	2	■	■
M4	0,7	63	7	4,5	3,4	3	2	■	■
M5	0,8	70	8	6	4,9	3	2	■	■
M6	1	80	10	6	4,9	3	2	■	■
M8	1,25	90	13	8	6,2	3	2	■	■
M10	1,5	100	15	10	8	3	2	■	■

Referencia: 200-526 200-706

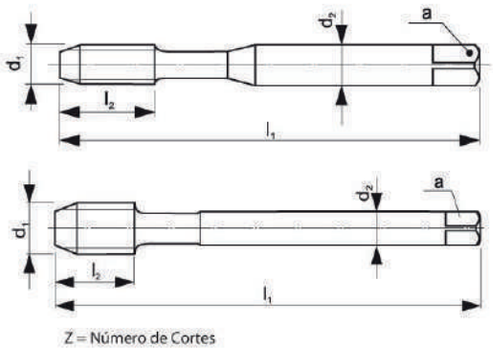
DIN 376 RSP 40° | DIN 376 RSP 45°

d_1	P	l_1	l_2 RSP40°	d_2	a	z RSP40°	z RSP45°	200-526	200-706
M12	1,75	110	18	9	7	3	2	■	■
M14	2	110	20	11	9	3	2	■	■
M16	2	110	20	12	9	3	2	■	■
M18	2,5	125	25	14	11	3	3	■	■
M20	2,5	140	25	16	12	3	3	■	■

Velocidad de Corte V_c m/min	ALU (Si<8%)	ALU (Si>8%)
100-526	10-25	
200-526	10-25	
100-706		10-30
200-706		10-30

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M | 60° P | DIN 13 | Type UNI | HSSE ★ | ISO 2 6H | Form B 3,5-6 | TiN



Z = Número de Cortes



Referencia: 100-272

DIN 371

d_1	P	l_1	l_2	d_2	a	z	
M3	0,5	56	9	3,5	2,7	7	■
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	■

Referencia: 200-272

DIN 376

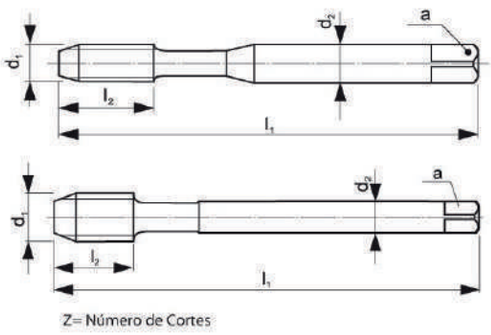
d_1	P	l_1	l_2	d_2	a	z	
M12	1,75	110	23	9	7	3	■
M14	2	110	25	11	9	3	■
M16	2	110	25	12	9	3	■
M18	2,5	125	30	14	11	3	■
M20	2,5	140	30	16	12	3	■

Velocidad de Corte

V_c m/min	Acero 800 N/mm2	Acero 1200 N/mm2	INOX	Al (Si > 8%)
100-272	10-15	8-12	4-8	8-15
200-272	10-15	8-12	4-8	8-15

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M | 60° P | DIN 13 | Type UNI | HSSE PM ★★★★ | DIN 371 | DIN 376 | Form B 3,5-6 | HL



Z= Número de Cortes





Referencia: 100-295 | 100-295

d_1	P	l_1	l_2	d_2	a	z	DIN 371 ISO 2 6HX	DIN 371 ISO 3 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	■	■

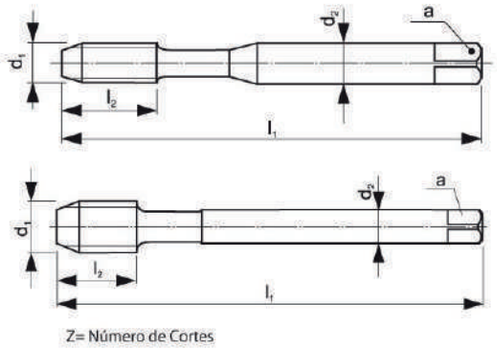
Referencia: 200-295 | 200-295

d_1	P	l_1	l_2	d_2	a	z	DIN 376 ISO 2 6HX	DIN 376 ISO 3 6GX
M12	1,75	110	28	9	7	3	■	■
M14	2	110	30	11	9	4	■	
M16	2	110	32	12	9	4	■	■
M20	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	■	

Velocidad de Corte

V_c m/min	Acero 800 N/mm2	Acero 1200 N/mm2	Acero 1400 N/mm2	INOX	Al (Si > 8%)
100-295	15-25	10-18	8-12	12-15	15-40
200-295	15-25	10-18	8-12	12-15	15-40

M | 60° P | DIN 13 | Type UNI | HSSE | ISO 2 6H | Form C 2-3 | RSP 35° | ≤2xd | TiN



Z= Número de Cortes



Referencia: 100-672

DIN 371

d_1	P	l_1	l_2	d_2	a	z	
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	■

Referencia: 200-672

DIN 376

d_1	P	l_1	l_2	d_2	a	z	
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	■

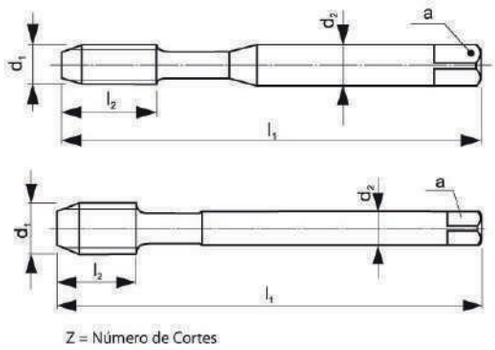
Velocidad de Corte

V_c m/min	Acero 800 N/mm2	Acero 1200 N/mm2	INOX	Al (Si > 8%)
100-672	10-12	6-10	4-8	8-15
200-672	10-12	6-10	4-8	8-15

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JUNGMANN® WERKZEUGE

M | 60° P | DIN 13 | Type UNI | HSSE PM ★★★★ | Form C 2-3 | RSP 50° | ≤2xd | HL



Z = Número de Cortes



Referencia: 100-695 | 100-695

d_1	P	l_1	l_2	d_2	a	z	DIN 371 ISO 2 6HX	DIN 371 ISO 3 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	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	■	■

Referencia: 200-695 | 200-695

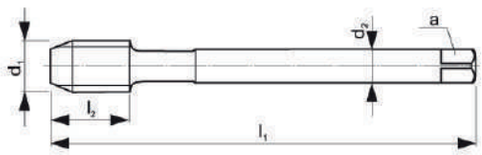
d_1	P	l_1	l_2	d_2	a	z	DIN 376 ISO 2 6HX	DIN 376 ISO 3 6GX
M12	1,75	110	18	9	7	3	■	■
M14	2	110	20	11	9	3	■	
M16	2	110	20	12	9	3	■	■
M20	2,5	140	25	16	12	3	■	■
M24	3	160	30	28	14,5	4	■	
M27	3	160	30	20	16	5	■	
M30	3,5	180	35	22	18	5	■	

Velocidad de Corte

V_c m/min	Acero 800 N/mm2	Acero 1200 N/mm2	Acero 1400 N/mm2	INOX	Al (Si > 8%)
100-695	10-25	10-12	6-10	10-12	15-30
200-695	10-25	10-12	6-10	10-12	15-30

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MF | 60° P | DIN 13 | Type UNI | HSSE ★ | DIN 374 | ISO 2 6H | TiN



Z= Número de Cortes



Referencia:	300-272	300-672
	Form B 3,5-6	Form C 2-3
		RSP 35°

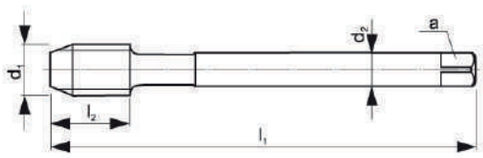
d_1	P	l_1	l_2	l_2RSP35°	d_2	a	z		
M6	075	80	15	10	4,5	3,4	3	■	■
M8	1	90	18	13	6	4,9	3	■	■
M8	0,75	80	15	10	6	4,9	3	■	■
M10	1	90	20	12	7	5,5	3	■	■
M12	1,5	100	21	14	9	7	3	■	■
M12	1	100	21	14	9	7	3	■	■
M14	1,5	100	21	16	11	9	3	■	■
M16	1,5	100	21	16	12	9	4	■	■
M18	1,5	110	24	20	14	11	4	■	■
M20	1,5	125	24	20	16	12	4	■	■

Velocidad de Corte

V_c m/min	Acero 800 N/mm2	Acero 1200 N/mm2	INOX	Al (Si > 8%)
300-272	10-15	8-12	4-8	8-15
300-672	10-12	6-10	4-8	8-15

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MF | 60° P | DIN 13 | Type UNI | HSSE PM ★★★★ | DIN 374 | ISO 2 6HX | HL



Z= Número de Cortes



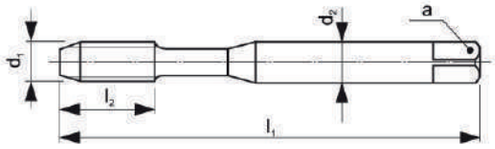
Referencia:								300-295	300-695
								Form B 3,5-6	Form C 2-3
d_1	P	l_1	l_2	l_2RSP50°	d_2	a	z		RSP 50°
M8	1	90	22	10	6	4,9	3	■	■
M10	1,25	100	24	12	7	5,5	3	■	■
M10	1	90	20	12	7	5,5	3	■	■
M12	1,5	100	22	14	9	7	4	■	■
M12	1,25	100	22	14	9	7	4	■	■
M12	1	100	22	14	9	7	4	■	■
M14	1,5	100	22	16	11	9	4	■	■
M16	1,5	100	22	16	12	9	4	■	■
M18	1,5	110	25	20	14	11	4	■	■
M20	1,5	125	25	20	16	12	4	■	■

Velocidad de Corte

V_c m/min	Acero 800 N/mm2	Acero 1200 N/mm2	Acero 1400 N/mm2	INOX	Al (Si > 8%)
300-295	15-25	10-18	8-12	12-15	15-40
300-695	10-25	10-12	6-10	10-12	15-30

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M | 60° P | DIN 13 | Type N | HSSE ★ | DIN 2174 | Form C 2-3 | ≤2xd | TiN



Z = Número de Cortes

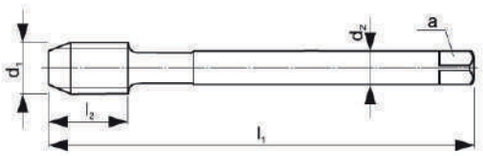


Referencia:						800-902	800-902	800-922	800-922
						ISO 2 6HX	ISO 3 6GX	ISO 2 6HX	ISO 3 6GX
d_1	P	l_1	l_2	d_2	a	z			
M3	0,5	56	11	3,5	2,7	■	■	■	■
M3,5	0,6	56	12	4	3	■	■	■	■
M4	0,7	63	13	4,5	3,4	■	■	■	■
M5	0,8	70	16	6	4,9	■	■	■	■
M6	1	80	19	6	4,9	■	■	■	■
M8	1,25	90	22	8	6,2	■	■	■	■
M10	1,5	100	24	10	8	■	■	■	■
M12	1,75	110	28	9	7	■		■	■

Velocidad de Corte V_c m/min	Acero 800 N/mm2	Al
800-902	15-25	
800-922	15-25	15-30

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Z= Número de Cortes

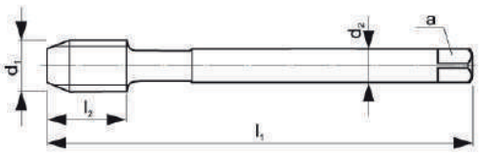


Referencia: **400-070**

d_1	P	l_1	l_2	d_2	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	■

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M | 60° P | DIN 13 | Type VA | HSSE ★ | DIN 352 | ISO 2 6H | Form C 2-3 | ≤2xd



Z= Número de Cortes



Referencia: 400-091

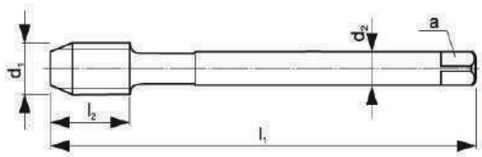
OX

d_1	P	l_1	l_2	d_2	a	z	
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	■

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JUNGMANN® WERKZEUGE

MF | 60° P | DIN 13 | Type N | HSS | DIN 2181 | ISO 2 6H | Form C 2-3 | ≤2xd



z = Nutenzahl / z = number of flutes / z = Número de Cortes

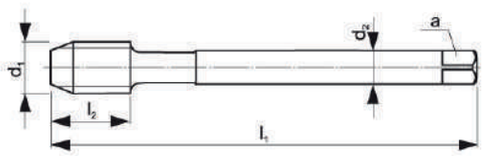


Referencia: **400-080**

d_1	P	l_1	l_2	d_2	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	■
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	■

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MF | 60° P | DIN 13 | Type N | HSS | DIN 2181 | ISO 2 6H | Form C 2-3 | ≤2xd



z = Nutenzahl / z = number of flutes / z = Número de Cortes



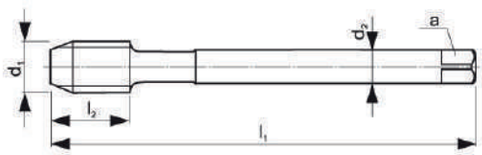
Referencia: **400-080**

d_1	P	l_1	l_2	d_2	a	z	
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	■

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JUNGMANN® WERKZEUGE

MF | 60° P | DIN 13 | Type N | HSS | DIN 2181 | ISO 2 6H | Form C 2-3 | ≤2xd



z = Nutenzahl / z = number of flutes / z = Número de Cortes

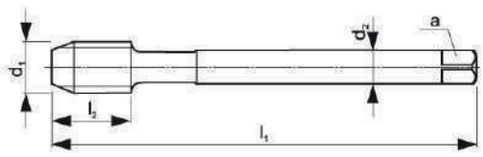


Referencia: **400-080**

d_1	P	l_1	l_2	d_2	a	z	
M35	1,5	100	25	28	22	4	■
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	■

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z = Nutenzahl / z = number of flutes / z = Número de Cortes



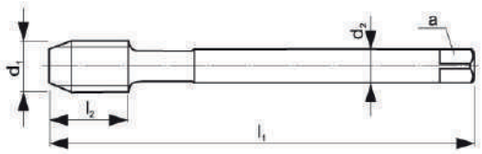
Referencia: **403-080**

d_1	P	l_1	l_2	d_2	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	■

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JUNGMANN® WERKZEUGE





z = Nutenzahl / z = number of flutes / z = Número de Cortes

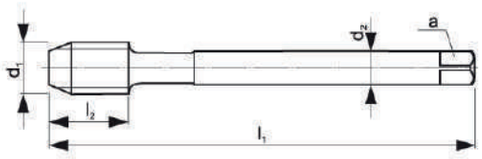


Referencia: **401-070**

d_1	P	l_1	l_2	d_2	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	■

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z = Nutenzahl / z = number of flutes / z = Número de Cortes



Referencia: **402-080**

d_1	P	l_1	l_2	d_2	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	■

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Referencia: 090-010

d_1	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	■

Velocidad de Corte

V_c m/min	Acero 800 N/mm2
090-010	2-4

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M | MF | 60° P | DIN 13 | Type N | HSS | DIN EN 22 568 | ISO 6g | 1,5



Referencia: 090-010

d_1	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	■

Velocidad de Corte

V_c m/min	Acero 800 N/mm2
090-010	2-4

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Referencia: **093-010**

d_1	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	■

Velocidad de Corte V_c m/min	Acero 800 N/mm2
093-010	2-4

Referencia: **CGM-JW**



Bote de 5 Kilos

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.

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Roscadoras Electricas Taipu: Serie 3E - Basic Line

Referencia	Capacidad	Max. Vel.	Rango Radio	Rango Altura
L800-M12	M3-M12	800 Rpm	800	380
Z1100-M16	M6-M16	450 Rpm	1100	380
Z1500-M30	M6-M30	250 Rpm	1500	700
T200C-M42	M10-M42	70 Rpm	2000	700



Características L800-M12:
Altura Ajustable Hasta 380 mm
Controlador Integrado Táctil, Roscado posicion Vertical o Universal.
Idioma Castellano, Certificado CE y 6 Cabecillas de roscado incluidas.

Características - Extras Z1100-M16:
Altura Ajustable 40-60 mm
Roscado en Forma Vertical y Horizontal
Controlador Exterior, Idioma Castellano, Certificado CE
y 6 Cabecillas de roscado incluidas.
Extras:
Soporte Magnético PLM-600
Soporte Magentico Posicionador ø31 Perpendicular
Mesa de Trabajo 900 x 600 x 700 (90Kg)



Características - Extras Z1500-M30:
Altura Ajustable 100 mm
Roscado en Forma Vertical y Horizontal
Controlador Exterior, Idioma Castellano, Certificado CE
y 6 Cabecillas de roscado incluidas. Mesa de Trabajo 900 x 600 x 700 (90 Kg)
Extras:
Soporte Magnético PLM-600
Reductor Cabecilla ø31-ø19 para Roscas Inferiores A M5

Características - Extras Z1500-M30:
Altura Ajustable 100 mm
Roscado en Forma Vertical y Horizontal
Controlador Exterior, Idioma Castellano, Certificado CE
y 6 Cabecillas de roscado incluidas. Mesa de Trabajo 900 x 600 x 700 (90 Kg)
Extras:
Soporte Magnético PLM-600
Reductor Cabecilla ø31-ø19 para Roscas Inferiores A M5

Accesorios Roscadoras:



Soporte Magnético



Mesa de Trabajo



Posicionador Magentico

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Roscadoras Electricas Taipu: Serie TP - Profesional Line

Referencia	Capacidad	Max. Vel.	Max. Fuerza	Rango Radio	Diametro Amarre	Peso
TP915-16A	M2-M16	250 Rpm	50 Nm	915	ø19 (Serie 1)	25-30 Kg
TP1100-30AU	M3-M30	150 Rpm	270Nm	1100	ø31 (Serie 2)	35-45 Kg
TP1300-42AD	M8-M42	30/100 Rpm	600 Nm	1300	ø48 (Serie 3)	110-120 Kg



Características TP915-16A:
Altura Ajustable 40-60 mm
Controlador Exterior, Idioma Castellano, Certificado CE y 6 Cabecillas de roscado incluidas.

Extras TP915-16A:
Soporte Magnético PLM-300
Mesa de Trabajo 900 x 600 x 700 (90 Kg)



Características TP1100-30AU:
Altura Ajustable 40-60 mm
Roscado en Forma Vertical y Horizontal
Controlador Exterior, Idioma Castellano, Certificado CE y 6 Cabecillas de roscado incluidas.

Extras TP1100-30AU:
Soporte Magnético PLM-600
Soporte Magentico Posicionador ø31 Perpendicular
Reductor Cabecilla ø31-ø19 para Roscas Inferiores A M5
Mesa de Trabajo 900 x 600 x 700 (90 Kg)

Características TPL1300-42AD:
Altura Ajustable 100 mm
Roscado en Forma Vertical y Horizontal
Controlador Exterior, Idioma Castellano, Certificado CE y 6 Cabecillas de roscado incluidas.
Mesa de Trabajo 900 x 600 x 700 (90 Kg)

Extras TPL1300-42AD:
Reductor Cabecilla ø31-ø19 para Roscas Inferiores A M5
Reductor Cabecilla ø48-ø31 para Roscas de M5 a M30

Roscadoras Electricas Taipu: Gran Capacidad

Las roscadoras eléctricas taipu de gran capacidad estan preparadas para los más exigentes clientes en un amplio rango de medidas.
Su rango de medida hasta roscas de M-120 hacen que sea uno de los modelos mas grandes del mercado de roscadoras automáticas.

Referencia	Capacidad	Max. Vel.	Max. Fuerza	Diametro Amarre
R403080	M30-M80	25 rpm	2000 Nm	ø60 - Serie 4
R4030120	M30-M120	17 rpm	3000 Nm	ø80 - Serie 5



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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.



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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

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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		

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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



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Kit Reparacion Roscas – BSP - Gas (G)





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

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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

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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 KIT UNC 1/4 - 1/2	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
	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 KIT UNF 1/4 - 1/2	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
	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 KIT BSW 1/4 - 1/2	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
	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 KIT UNC 1/4 - 1/2	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
	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 KIT UNC 1/4 - 1/2	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
	G – BSP 1/2 X 14	EBW10	BZ010	11.5	10

Referencia	Medida	Cód. Útil	Cód. Varilla	Diametro Broca	Insertos 1.5D Incluidos
B5125 KIT UNC 1/4 - 1/2	BS 0	EBW06	BZ006	6.2	5
	BA 2	EBW05	BZ005	4.9	5
	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 KIT UNC 1/4 - 1/2	NPT 1/8 X 27	EBW10	-	-	5
	BPT 1/4 X 19	EBW14	-	-	5
	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

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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



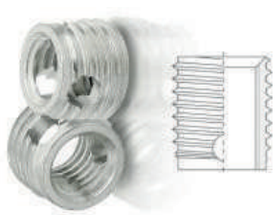
Referencia Acero	Referencia Inox	Referencia Latón	Rosca Interior	Rosca Exterior	Longitud	Unidades/Pack
1-FE02	-	-	M 2 x 0,4*	M 4,5 x 0,5	6 mm	100
1-FE025	-	-	M 2,5 x 0,45	M 4,5 x 0,5	6 mm	100
1-FE03	1-FA43	1-FMS43	M 3 x 0,5	M 5 x 0,5	6 mm	100
1-FE04	1-FA44	1-FMS44	M 4 x 0,7	M 6,5 x 0,75	8 mm	100
1-FE05	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
1-FE74	UNC 1/4 x 20*	M 10 x 1,5	14 mm	100
1-FE75	UNC 5/16 x 18*	M 12 x 1,5	15 mm	100
1-FE76	UNC 3/8 x 16*	M 14 x 1,5	18 mm	100
1-FE77	UNC 7/16 x 14*	M 16 x 1,5	22 mm	100
1-FE78	UNC 1/2 x 13*	M 18 x 1,5	22 mm	100

Modelos UNF	Rosca Interior	Rosca Exterior	Longitud	Unidades/Pack
1-FE84	UNF 1/4 x 28*	M 10 x 1,5	14 mm	10
1-FE85	UNF 5/16 x 24*	M 12 x 1,5	15 mm	10
1-FE86	UNF 3/8 x 24*	M 14 x 1,5	18 mm	5
1-FE87	UNF 7/16 x 20*	M 16 x 1,5	22 mm	5
1-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

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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

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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			

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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	-	-

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Baercoils UNF

	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	-	-	-

Baercoils UNC

	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	-	-	-

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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	-

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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

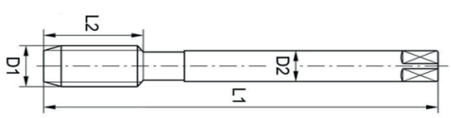


	Pack	1,0 D	1,5 D	2,0 D	2,5 D	3,0 D
M 2 X 0.4	100	1-B6102-1	1-B6102-15	1-B6102-2	1-B6102-25	1-B6102-3
M 2.2 X 0.45	100	1-B6125-1	1-B6125-15	1-B6125-2	1-B6125-25	1-B6125-3
M 2.5 X 0.45	100	1-B6126-1	-	-	-	-
M 3 X 0.5	100	1-B6103-1	1-B6103-15	1-B6103-2	1-B6103-25	-
M 3.5 X 0.6	100	1-B6135-1	1-B6135-15	1-B6135-2	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





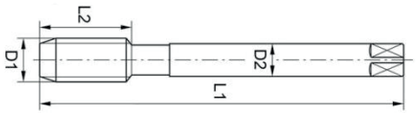
Referencia	Medida	D1	D2	L1	L2	o	Ø Broca
B3001	M 2 x 0,4	2,52	2,8	44,5	9,5	2,24	2,1
B3002	M 2,2 x 0,45	2,79	3,15	48	11	2,5	2,3
B3003	M 2,5 x 0,45	3,09	3,15	48	11	2,5	2,6
B3005	M 3 x 0,5	3,65	4	53	13	3,15	3,2
B3006	M 3,5 x 0,6	4,28	4,5	53	13	3,55	3,7
B3007	M 4 x 0,7	4,91	5	58	16	4	4,2
B3008	M 5 x 0,8	6,04	6,3	66	19	5	5,3
B3071	MF 6 x 0,75	6,98	8	72	22	6,3	6,2

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Machos para Helicoils - MÉTRICA

Macho mano/máquina HSSE - Forma D - Pasante/Ciego



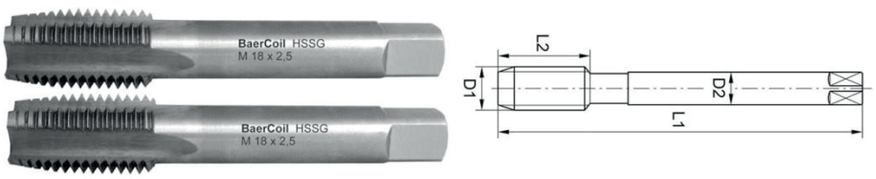


Referencia	Medida	D1	D2	L1	L2	o	Ø Broca
B3009	M 6 x 1,0	7,3	8	72	22	6,3	6,3
B3010	M 7 x 1,0	8,3	9	72	22	7,1	7,3
B3072	MF 8 x 0,75	8,9	9,6	77	33	7,2	8,2
B3012	MF 8 x 1,0	9,3	10	80	24	8	8,3
B3011	M 8 x 1,25	9,62	10	80	24	8	8,3
B3073	MF 9 x 1,0	10,3	8,2	90	35	6,1	9,3
B3013	M 9 x 1,25	10,62	8	85	25	6,3	9,3
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
B3082	M 52 x 5	58,50	40,0	221	76	34	53,5

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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

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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

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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

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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

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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

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Útil 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

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Útil Para Extraer 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"



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

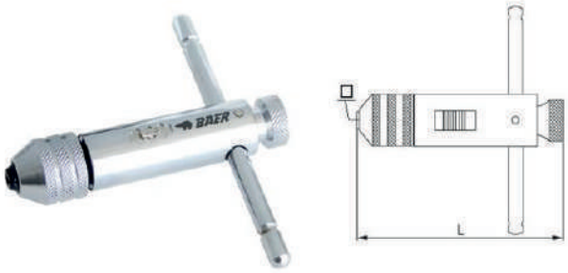
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Baerfix - Útil



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

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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

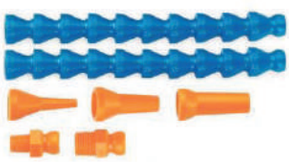
(*) Consultar modelos especiales

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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

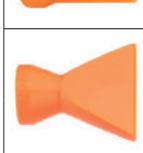
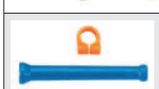


20 Rótulas articuladas
Longitud Total: 300 mm

Referencia: 49421



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 2 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

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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

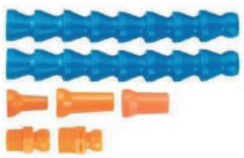
Referencia		Descripción
	**62423**	Anillo de 15 conexiones de salida con 1 tapón de cierre
	**82721A**	Grifo macho 1/4 NPT Adaptador 2 Und
	82731A	Grifo macho 1/4 NPT Adaptador 10 Und
	**82722**	Grifo en línea 1/4 2 Und
	82732	Grifo en línea 1/4 20 Und
	**82723A**	Grifo macho 1/4 NPT 2 Und
	82723A	Grifo 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

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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 y 1/2 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

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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
(1.6-3.17-6.35 mm)
2 Racores 1/4 y 1/8

Referencia: 84041



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

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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 2 Und
	84068	Ramificación Y 1/2 20 Und
	**84049**	Ramificación Y 1/2 2 Und
	84069	Ramificación Y 1/2 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

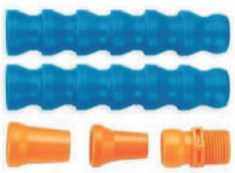
Referencia		Descripción
	**84724A**	Grifo hembra 1/2 NPT 2 Und
	84744A	Grifo hembra 1/2 NPT 10 Und
	**84725**	Válvula de retención 1/2 2 Und
	84745	Válvula de retención 1/2 10 Und
	**84346**	Surtido de 4 Bocas 18x2 – 18x3 - 18x5 y 18x7
	**54400**	Conjunto conector modular 1/2
	**54410**	Conjunto conector 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

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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: 83051



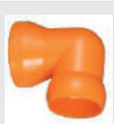
Rótulas articuladas
Longitud Total: 1524 cm

Referencia: 83091



Rótulas articuladas
Longitud Total: 2500 cm

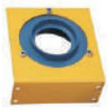
Referencia		Descripción
	**86063**	Boca de salida ø15.9 4 Und
	**86064A**	Racor de 3/4 NPT 4 Und
	86074A	Racor de 3/4 NPT 50 Und
	**86021**	Acoplamiento recto para imán 2 Und
	**86022**	Base Magnética para Pantalla ø65x10
	**86023**	Acoplamiento Lateral de Pantalla 2 Und
	**86067**	Boca plana 75x2 2 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

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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	

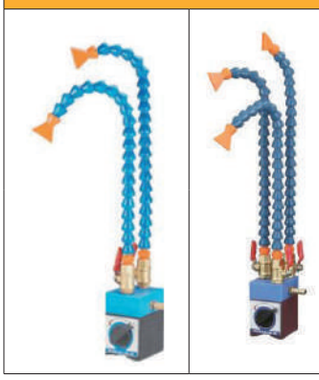
Pantallas y Lanzas con Soporte Magnético

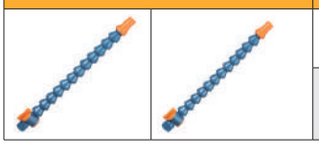
	Referencia	Descripción	Referencia	Descripción
	**34101**	Conjunto Completo - Pantalla 150 x 200	**34101-8P**	Recambio Pantalla 150x200
	34102	Conjunto Completo - Pantalla 190 x 250	**34102-10P**	Recambio Pantalla 190x250
	34103	Conjunto Completo - Pantalla 215 x 300	**34103-12P**	Recambio Pantalla 215x300

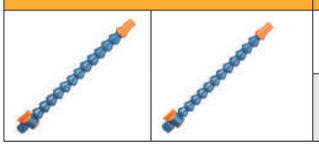
		Referencia	Descripción
		**88003**	Soporte Magnético y Lanza 1/4 - 180 mm
		88005	Soporte Magnético y Lanza 1/4 con grifo – 180 mm
		88103	Soporte Magnético y Lanza 1/4 – 365 mm
		88105	Soporte Magnético y Lanza 1/4 Con Grifo – 365 mm

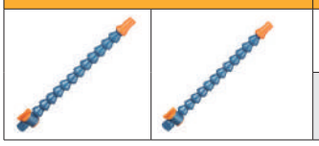
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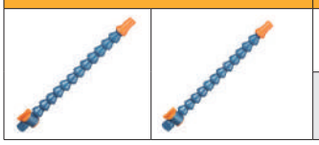
Lanzas con Soporte Magnético

	Referencia	Descripción
	**87011**	Soporte Magnético y 2 Lanzas 1/4 con grifo - 365 mm
	87002	Soporte Magnético y 3 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?



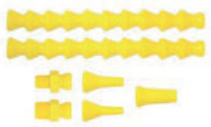
Modelo	
1/4"	10.2 mm + (14.8 mm x B) + 35.2 mm = Total
3/8”	12.7 mm + (17.3 mm x B) + 39.2 mm = Total
1/2”	14.8 mm + (21.1 mm x B) + 37.8 mm = Total
3/4”	14.2 mm + (23.7 mm x B) + 43 mm = Total

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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

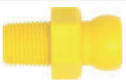


20 Rótulas articuladas
Longitud Total: 280 mm

Referencia: 52051



Rollo de 1.524 mm
de Rótulas

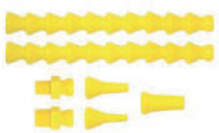
Referencia		Descripción
	**52022**	Boca de salida ø1.6 mm - 4 Und
	52042	Boca de salida ø1.6 mm - 50 Und
	52024	Boca de salida ø6.35 mm - 4 Und
	52044	Boca de salida ø6.35 mm - 50 Und
	**52025A**	Racor de 1/8 NPT - 4 Und
	52035A	Racor de 1/8 NPT - 50 Und
	**52028**	Ramificación Y - 2 Und
	52038	Ramificación Y - 20 Und
	**52420**	Codos a 90º - 2 Und
	52430	Codos a 90º - 20 Und

Referencia		Descripción
	52023	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



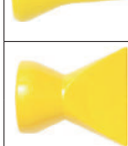
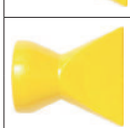
12 Rótulas articuladas
Longitud Total: 270 mm

Referencia: 54081



Rollo de 1.524 mm
de Rótulas

	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

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Sistema de Alta Preción Ajustable

Presión: 30kg/cm2





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	

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

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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
RB4000GT		Súper Set: 1 Mango Aluminio + 1 Cuchilla GT-E100 + 1 Cuchilla GT-D50

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Kits de Rebarbado

Referencia: NB1200GT1

Set Mango para Cuchillas Tipo E
Con 20 Cuchillas GT-E100



Referencia: YT2000GT1

Set Mango para Cuchillas Tipo D
Con 1 Rasqueta Triangular GT-D75
y GT-T80



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 E (ø3.2 mm) con 5 Cuchillas GT-E100
y 5 Cuchillas GT-E200



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: EL2000GT

Grattec Box: Kit Universal
con 2 Mangos, 6 Extensiones
y sus cuchillas correspondientes



Referencia: SP1700GT

Grattec 7 Piezas: Kit con 7 Mangos
y sus 7 cuchillas y extensiones



Referencia: CR5510GT

Set Cerámico incluye:
1 Mango
+ 5 Cuchillas GT-CR6001 (65º)
+ 5 Cuchillas GT-CR61001 (75º)



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

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Cuchillas Grattec Tipo B (ø2.6 mm) - Pack 10 Und

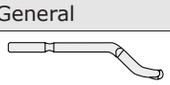
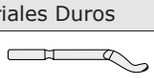
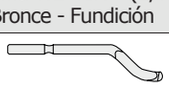
Referencia: GT-B10	Referencia: GT-B10L	Referencia: GT-B10S	Referencia: GT-B10TIN	Referencia: GT-B10D
Uso General	Uso General Izquierda	Cuchilla Cobalto M35	Cuchilla con Recubrimiento	Cuchilla Diamantada
				

Referencia: GT-B10C	Referencia: GT-B20	Referencia: GT-B20C	Referencia: GT-B30	Referencia: GT-B60
Cuchilla Metal Duro	Materiales Blandos	Metal Duro y Materiales Blandos	Interior y Exterior a la vez	Para zonas interiores
				

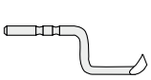
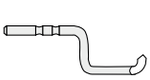
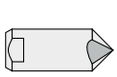
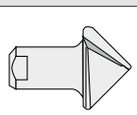
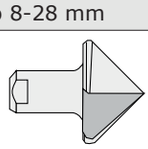
Cuchillas Grattec Tipo E (ø3.2 mm) - Pack 10 Und

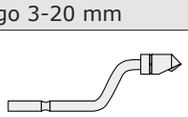
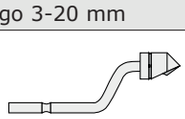
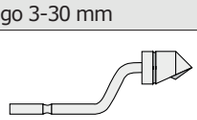
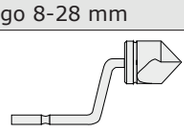
Refv erencia: GT-E100	Referencia: GT-E100L	Referencia: GT-100TIN	Referencia: GT-100D	Referencia: GT-E100C
Cuchilla N1 Uso General	Cuchilla N1 TIN Materiales Duros	Cuchilla N2 *(L/R) Uso Bronce - Fundición	Cuchilla N2 TIN *(L/R) Uso Bronce - Fundición	Cuchilla N3 Uso Int/Ext. de una vez
				

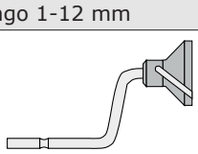
Referencia: GT-E101	Referencia: GT-E101L	Referencia: GT-E101TIN	Referencia: GT-E150	Referencia: GT-E200
Cuchilla N6 Agujeros internos y partes internas	Cuchilla N10 Cobalt Uso Materiales Duros	Cuchilla N2 *(L/R) Uso Bronce - Fundición	Cuchilla N2 TIN *(L/R) Uso Bronce - Fundición	Cuchilla N3 Uso Int/Ext. de una vez
				

Referencia: GT-E200C	Referencia: GT-E202	Referencia: GT-E300	Referencia: GT-E350	Referencia: GT-E600
Cuchilla N1 Uso General	Cuchilla N1 TIN Materiales Duros	Cuchilla N2 *(L/R) Uso Bronce - Fundición	Cuchilla N2 TIN *(L/R) Uso Bronce - Fundición	Cuchilla N3 Uso Int/Ext. de una vez
				

Cuchillas Grattec Tipo C (Avellanado)

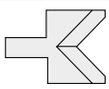
Referencia: GT-BC100	Referencia: GT-BO100	Referencia: GT-C12	Referencia: GT-C20	Referencia: GT-C30
Cuchilla C12 - 90º Rango 1-12 mm	Cuchilla C20 - 90º Rango 3-20 mm	Cuchilla C20Tin - 90º Rango 3-20 mm	Cuchilla C30 - 90º Rango 3-30 mm	Cuchilla EX28 - 90º Rango 8-28 mm
				

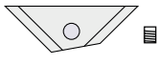
Referencia: GT-BC3200	Referencia: GT-BC6300	Referencia: GT-BC8300	Referencia: GT-BC1040	Referencia: GT-BC1650
Cuchilla C12 - 90º Rango 1-12 mm	Cuchilla C20 - 90º Rango 3-20 mm	Cuchilla C20Tin - 90º Rango 3-20 mm	Cuchilla C30 - 90º Rango 3-30 mm	Cuchilla EX28 - 90º Rango 8-28 mm
				

Referencia: GT-EX2000	Referencia: GT-EX30011
Cuchilla C12 - 90º Rango 1-12 mm	Cuchilla C20 - 90º Rango 3-20 mm
	

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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
				

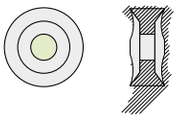
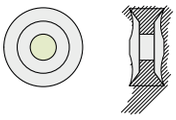
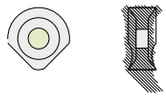
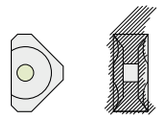
Referencia: GT-L7	Referencia: GT-BR2200	Referencia: GT-BR2000	Referencia: GT-GR1000
Cuchilla L7 Doble Ranura	Cuchilla BR2200 Para agujeros 10-22	Cuchilla BR2000 Para agujeros 5.5-10	Cuchila BR1000 Para agujeros 3-5.5
			

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
				

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Sistemas de Recogevirutas HOOKY

Referencia:	SP2510GT
Modelo Gancho Longitud: 300 mm	



Referencia:	SP2560GT
Modelo Gancho Longitud: 500 mm	



Referencia:	SP2730GT
Modelo Pala Longitud: 300 mm	



Referencia:	SP2740GT
Modelo Pala Longitud: 500 mm	



Referencia:	SP2600GT
Pala de recambio para recogevirutas	



Soportes Magnéticos HOLDTEC



Con ajuste fino superior

Con ajuste fino en la base magnética

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

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Portaherramientas y Placas

Insertos y Portaherramientas Ranurado V



AKKO (T12P)
Compatible Con Placa Akko T12

ADKT-T12P-R/L-1616-T5
ADKT-T12P-R/L-2020-T5
ADKT-T12P-R/L-2525-T5
ADKT-T12P-R/L-3232-T5



T12.10.0234.PJ.R
T12.10.0356.PK.R
T12.10.0470.PL.R

Insertos y Portaherramientas Ranurado



AKKO (T20)
Compatible con Placa Akko T20

AAUT-T20-R/L-1616-45
AAUT-T20-R/L-2020-45
AAUT-T20-R/L-2525-45



T20.00.0815.45.04R/L
T20.00.1220.45.05R/L
T20.00.2024.45.06R/L



T20.00.1220.45.20R/L

Portaherramientas y Cuchillas para Chaveteros-Ranurados



AKKO (B41-B42)
Compatible con placa
Akko B41-B42

ABT-B41-D17-Y25-L90-I040
ABT-B41-D17-Y25-L105-I065
ABT-B41-D22-Y25-L100-I050
ABT-B41-D22-Y25-L125-I070
ABT-B42-D30-Y32-L100-I050
ABT-B42-D30-Y32-L125-I075
ABT-B42-D30-Y32-L170-I110
ABT-B42-D38-Y32-L100-I050
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ABT-B42-D40-Y32-L125-I075



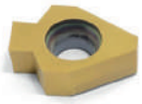
DIN 6885 Tolerancia C1
Para uso en Torno o Fresadoras

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B41.00.0713.085.VP3001
B41.00.0813.105.VP3001
B42.00.1013.105.VP3001
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B42.00.1215.225.VP3001



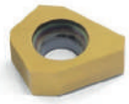
DIN 6885 Tolerancia P9
Para uso en Torno o Fresadoras

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B41.00.0798.020.VP3001
B42.00.0998.030.VP3001
B42.00.1197.030.VP3001
B42.00.1397.030.VP3001



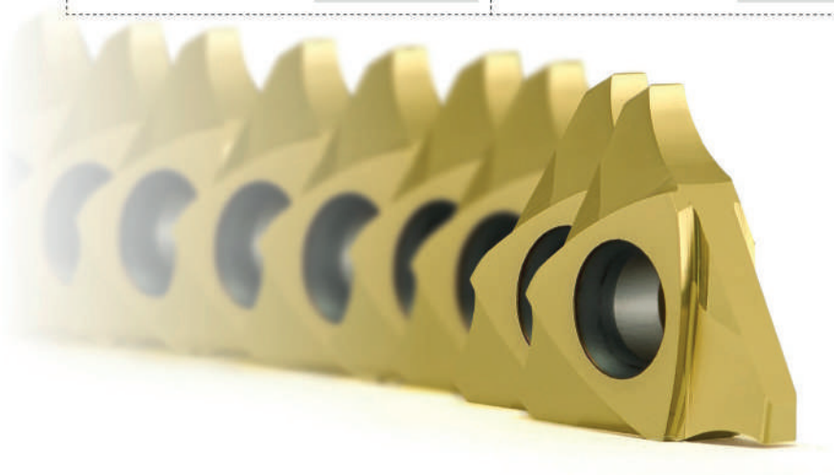
DIN 6885 Tolerancia JS9
Para uso en Torno o Fresadoras

B41.00.0501.020.VP3001
B41.00.0601.020.VP3001
B41.00.0801.020.VP3001
B42.00.1001.030.VP3001
B42.00.1200.050.VP3001
B42.00.1201.030.VP3001
B42.00.1401.030.VP3001



Para Chaflanes
Uso en Fresadoras o Tornos

B41.00.0150.CH.VP3001
B41.00.0300.CH.VP3001
B42.00.0600.CH.VP3001



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Portaherramientas y Placas

Soportes Portaherramientas Valvulas



AKKO (B11)
Compatible con Placa Akko B11

VST-B11-2842
VST-B11-4058



AKKO (B11)
Compatible con Placa Akko B11

VST-B11-1830



AKKO (B11)
Compatible con Placa Akko B11

VST-B11-2032



B11003	B11008	B11014	B11020
B11004	B11009	B11016	B11021
B11005	B11010	B11017	B11022
B11006	B11011	B11018	B11029
B11007	B11012	B11019	B11030



B11015	B11024	B11026	B11028
B11023	B11025	B11027	



B11013

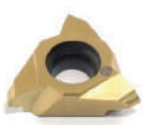


Portaherramientas e Insertos de Roscado



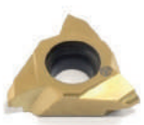
AKKO (T09)
Compatible con Placa Akko T09

ATW-301-T09-D1240-Z06	ATW-306-T09-D1240-Z06	ATW-311-T09-D1252-Z06
ATW-302-T09-D1233-Z06	ATW-307-T09-D1250-Z06	ATW-312-T09-D1252-Z06
ATW-303-T09-D0620-Z06	ATW-308-T09-D1142-Z06	ATW-313-T09-D1650-Z06
ATW-304-T09-D1240-Z06	ATW-309-T09-D2054-Z08	ATW-314-T09-D2052-Z06
ATW-305-T09-D1245-Z06	ATW-310-T09-D1252-Z06	ATW-316-T09-D1252-Z06
		ATW-315-T09-D1245-Z06



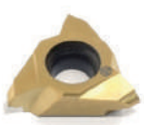
Standart ISO 5835

T09.HA150.D12
T09.HA200.D12
T09.HA270.D12
T09.HA350.D12
T09.HA400.D12
T09.HA450.D12
T09.HA500.D12
T09.HB400.D12
T09.HB650.D12



Standart ISO 9268

T09.HC290.D12
T09.HC350.D12
T09.HC390.D12
T09.HC420.D12



Standart ISO 9268

T09.HD400.D12
T09.HD450.D12

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Portaherramientas de Torneado Exterior



75° **TCBNR / L**

Sistema T
2525 M16



75° **TCKNR / L**

Sistema T
2020 K12
2525 M12
3232 P12
2525 M16
3232 P16



95° **TCLNR / L**

Sistema T
2020 K12
2525 M12
3232 P12
4040 S12
5050 S12
2525 M16
3232 P16



50° **TCMNN**

Sistema T
1616 H12
2020 K12
2525 M12
3232 P12
2525 M16
3232 P16



40° **TCZNN**

Sistema T
2020 K12
2525 M12
3232 P12
2525 M16
3232 P16



107.5° **TDHNR / L**

Sistema T
2525 M11
2020 K15
2525 M15
3232 P15



93° **TDJNR / L**

Sistema T
1616 H11
2020 K11
2525 M11
2020 K15
2525 M15
3232 P15
4040 S15
2020 K1504
2525 M1504
3232 P1504
4040 S1504



62.5° **TDNNN**

Sistema T
1616 H11
2020 K11
2525 M11
2020 K15
2525 M15
3232 P15



45° **TSDNN**

Sistema T
1616 H12
2020 K12
2525 M12
3232 P12
3232 P15



75° **TSKNR / L**

Sistema T
2020 K12
2525 M12
3232 P12
3232 P15



45° **TSSNR / L**

Sistema T
2020 K12
2525 M12
3232 P12
2525 M15
3232 P15



60° **TTENN**

Sistema T
2020 K16
2525 M16
3232 P16
2525 M22
3232 P22



90° **TTGNR / L**

Sistema T
2020 K16
2525 M16
3232 P16
2525 M22
3232 P22
4040 S22



93° **TTJNR / L**

Sistema T
2020 K16
2525 M16
3232 P16
2525 M22
3232 P22



107.5° **TVHNR / L**

Sistema T
2020 K16
2525 M16
3232 P16



93° **TVJNR / L**

Sistema T
2020 K16
2525 M16
3232 P16



72.5° **TVVNN**

Sistema T
2020 K16
2525 M16
3232 P16

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Portaherramientas de Torneado Exterior



95° **TWLNR / L**

Sistema T
1616 H06
2020 K06
2525 M06
2020 K08
2525 M08
3232 P08
4040 S08



60° **MTENN**

Sistema M
2020 K16
2525 M16
3232 P16
2525 M22
3232 P22
4040 S22



93° **MTJNR / L**

Sistema M
2020 K16
2525 M16
3232 P16
2525 M22
3232 P22
4040 S22



95° **MWLNR / L**

Sistema M
1616 H06
2020 K06
2525 M06
2020 K08
2525 M08
3232 P08



50° **MWMNN**

Sistema M
1616 H06
2020 K06
2525 M06
2020 K08
2525 M08
3232 P08



75° **PCBNR / L**

Sistema P
2020 K12C
2525 M12C
3232 P12C
2525 M16C
3232 P16C
3232 P19C
4040 S19C
4040 S25C



95° **PCLNR / L**

Sistema P
1616 H09
2020 K09
2525 M09
1616 H12
2020 K12C
2525 M12C
3232 P12C
2525 M16C
3232 P16C
2525 M19C
3232 P19C
4040 S19C
4040 S25C
5050 S25C



50° **PCMNN**

Sistema P
2020 K12C
2525 M12C
3232 P19C
4040 S19C
4040 S25C



93° **PDJNR / L**

Sistema P
1616 H11
2020 K11
2525 M11
2020 K15C
2525 M15C
3232 P15C
4040 S15C



62.5° **PDNNN**

Sistema P
1616 H11
2020 K11
2525 M11
2020 K15C
2525 M15C
3232 P15C



75° **PSBNR / L**

Sistema P
1616 H09
2020 K12C
2525 M12C
3232 P12C
2525 M15
3232 P15C
3232 P19C
4040 S19C
4040 S25C
5050 S25C



45° **PSDNN**

Sistema P
1616 H09
2020 K12C
2525 M12C
3232 P12C
2525 M15C
3232 P19C
4040 S25C



75° **PSKNR / L**

Sistema P
2020 K09
2020 K12C
2525 M12C
3232 P12C
2525 M15C
3232 P15C
3232 P19C
4040 S19C
4040 S25C
5050 S25C



45° **PSSNR / L**

Sistema P
1616 H09
2020 K09
2020 K12C
2525 M12C
3232 P12C
3232 P15C
3232 P19C
4040 S19C
4040 S25C

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Portaherramientas de Torneado Exterior



Sistema P
1616 H16
2020 K16
2525 M16
3232 P16
2525 M22C
3232 P22C

90° **PTFNR / L**



Sistema P
1616 H16
2020 K16
2525 M16
2525 M22C
3232 P22C

90° **PTGNR / L**



Sistema P
1616 H16
2020 K16
2525 M16
3232 P16
2525 M22C
3232 P22C
4040 S27

93° **PTJNR / L**



Sistema P
1616 H16
2020 K16
2525 M16
3232 P16
2525 M22C
3232 P22C

60° **PTTNR / L**



Sistema P
1616 H06
2020 K06
2525 M06
1616 H08
2020 K08C
2525 M08C
3232 P08C

95° **PWLNR / L**



Sistema C
2020 K16
2525 M16
3232 P16
4040 S16

93° **CKJNR / L**



Sistema C Ceramico
2525 M1207C
3232 P1207C
2525 M1607C

95° **CCLNR / L**



Sistema C Ceramico
2525 M06CV
3225 P06CV
4040 S06CV

2525 M09CV
3225 P09CV
4040 S09CV

2525 M12CV
3225 P12CV
4040 S12CV

-° **CRDCN**



Sistema C Ceramico
3225 P06CV
3225 P09CV
3225 P12CV

- **CRDCR / L**



Sistema C Ceramico
2525 M1107C
2525 M1507C
3232 P1507C

93° **CDJNR / L**



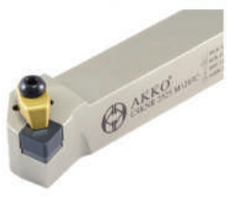
Sistema C Ceramico
2525 M1107C

62.5° **CDNNN**



Sistema C Ceramico
2525 M1207C
3232 P1207C

45° **CSDNN**



Sistema C Ceramico
2525 M1207C
3232 P1207C

75° **CSKNR / L**



Sistema C Ceramico
2525 M1207C
3232 P1207C

75° **CSRNR / L**



Sistema C Ceramico
2525 M1207C
3232 P1207C

45° **CSSNR / L**



Sistema C Ceramico
2525 M1607C
3232 P1607C

93° **CTJNR / L**



Sistema C Ceramico
0808 E06
1010 E06
1212 F09
1616 H09
2020 K09
2020 K12
2525 M12-Z
2525 M12

90° **SCACR / L**

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Portaherramientas de Torneado Exterior



50° **SCMCN**

Sistema S

0808 E06	1616 H09
1010 E06	2020 K12
1212 F06	2525 M12
1212 F09	



95° **SCLCR / L**

Sistema S

0808 E06	2525 M09
1010 E06	1616 H12
1010 E09	2020 K12-Z
1212 F09	2020 K12
1616 H09	2525 M12-Z
2020 K09	2525 M12



107.5° **SDHCR / L**

Sistema S

0808 E07	
1010 E07	
1212 F07	
1616 H07	
1616 H11	
2020 K11	
2525 M 11	
3232 P11	



93° **SDJCR / L**

Sistema S

0808 E07	
1010 E07	
1212 F07	
1616 H07	
1616 H11	
2020 K11	
2525 M 11	
3232 P11	



62.5° **SDNCN**

Sistema S

0808 E07	
1010 E07	
1212 F07	
1616 H07	
1616 H11	
2020 K11	
2525 M 11	
3232 P11	



-° **SRDCR / L**

Sistema S

3232 P12C



-° **SRDCN**

Sistema S

1616 H06	1616 H10C	2525 M16C
2020 K06	2020 K10C	3232 P16C
2525 M06	2525 M10C	2525 M20C
1616 H08C	3232 P10C	3232 P20C
2020 K08C	2020 K12C	3232 P25C
2525 M08C	2525 M12C	3232 P32C
	3232 P12C	



-° **SRGCR / L**

Sistema S

1616 H06	1616 H10C	2020 K12C
2020 K06	2020 K10C	2525 M12C
1616 H08C	2525 M10C	3232 P12C
2020 K08C	3232 P10C	
2525 M08C		



20° **SRHCR / L**

Sistema S

2525 K06
2525 K08
2525 K10
2525 K12
2525 K16



-° **SRXCR / L**

Sistema S

3232 X08C
3232 X10C
3232 X12C



45° **SSDCN**

Sistema S

1212 F09
1616 H09-Z
1616 H09
2020 K09-Z
2020 K09
1616 H12-Z
1616 H12
2020 K12
2525 M12



90° **STGCR / L**

Sistema S

0808 E09
1010 E09
1212 F11
1616 H11
1616 H16
2020 K16
2525 M16
3232 P16



45° **SSSCR / L**

Sistema S

1212 F09	1616 H12
1616 H09-Z	2020 K12-Z
1616 H09	2020 K12
2020 K09-Z	2525 M12-Z
2020 K09	2525 M12



90° **STFCR / L**

Sistema S

0808 E09	1616 H16
1010 E09	2020 K16
1212 F11	2525 M16
1616 H11	3232 P16

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Portaherramientas de Torneado Exterior



93° **STJCR / L**

Sistema S
0808 E09
1010 E09
1212 F11
1616 H11
1616 H16
2020 K16
2525 M16
3232 P16



90° **STCCN**

Sistema S
2020 L11
2525 M11
1616 K16
2020 M16
2525 P16
3232 R16
2525 P22



93° **STUCR / L**

Sistema S
0808 E09
1010 E09
1212 F11
1616 H11
2020 K16
2525 M16
3232 P16



107.5° **SVHBR / L**

Sistema S
1212 F11
1616 H11
2020 K11
2020 K16
2525 M16
3232 P16



107.5° **SVHCR / L**

Sistema S
1212 F11
1616 H11
2020 K11
2020 K16
2525 M16
3232 P16



93° **SVJBR / L**

Sistema S
1212 F11
1616 H11
2020 K11
1616 H16
2020 K16
2525 M16
3232 P16



93° **SVJCR / L**

Sistema S
1212 F11
1616 H11
2020 K11
2525 M11
1212 F16
2020 K16
2525 M16
3232 P16



72.5° **SVVBN**

Sistema S
1212 F11
1616 H11
2020 K11
2020 K16
2525 M16
3232 P16



72.5° **SVVCN**

Sistema S
1212 F11
1616 H11
2020 K11
2020 K16
2525 M16
3232 P16



90° **SCACR / L**

Sistema S - Tipo Swiss
0808 X06-S
1010 K06-S
1212 G06-S
1212 K06-S
1212 K09-S
1616 K09-S
2020 K09-S



90° **SDACR / L**

Sistema S - Tipo Swiss
0808 X07-S
1010 K07-S
1212 K07-S
1616 F07-S
1616 K07-S
1212 K11-S
1616 F11-S
1616 K11-S
2020 K11-S



91° **STGCR / L**

Sistema S - Tipo Swiss
1216 K11-S
1616 K11-S
1216 K16-S
1616 K16-S



95° **SCLCR / L**

Sistema S - Tipo Swiss
0808 X06-S
1010 X06-S
1212 G06-S
1212 X06-S
1212 K06-S
1616 F06-S
1616 X06-S
1212 G09-S
1212 X09-S
1616 F09-S
1616 G09-S
1616 X09-S
2020 X09-S



93° **SDJCR / L**

Sistema S - Tipo Swiss
0808 X07-S
1010 X07-S
1212 G07-S
1212 X07-S
1616 F07-S
1616 X07-S
2020 X07-S
1212 G11-S
1212 X11-S
1212 K11-S
1616 F11-S
1616 X11-S
1616 K11-S
2020 X11-S



90° **SVACR / L**

Sistema S - Tipo Swiss
1010 K11-S
1212 K11-S
1616 K11-S
2020 K11-S
1212 K16-S
1616 K16-S

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Portaherramientas de Torneado Interior



-	ASTB

Cuerpo SEC
1212-L84-H
1616-L90-H



93°	SDJCR / L

Porta SEC
12X43.3-07
16X43.3-07
12X43.3-11
16X43.3-11



93°	SVJCR / L

Porta SEC
12-43.3-11
16-43.3-11



93°	SVJBR / L

Sistema S - Tipo Swiss
1616 K11-S



93°	SVJCR / L

Sistema S - Tipo Swiss
0808 X11-S
1010 K11-S
1212 K11-S
1616 K11-S



95°	TCLNR / L

Sistema T

S25S TCLNR/L 09-Z	S32T TCLNR/L 12	S32T TCLNR/L 16
S25S TCLNR/L 09	S40U TCLNR/L 12	S40U TCLNR/L 16
S25S TCLNR/L 12-Z	S50V TCLNR/L 12	S50V TCLNR/L 16
S25S TCLNR/L 12		



62.5°	TD-NR / L

Sistema T
S32T TD-NR/L 15
S40U TD-NR/L 15
S50V TD-NR/L 15



107.5°	TDQNR / L

Sistema T
S25S TDQNR/L 11-Z
S25S TDQNR/L 11
S32T TDQNR/L 11
S25S TDQNR/L 15
S32T TDQNR/L 15
S40U TDQNR/L 15
S50V TDQNR/L 15



93°	TDUNR / L

Sistema T
S25S TDUNR/L 11-Z
S25S TDUNR/L 11
S32T TDUNR/L 11
S25S TDUNR/L 15
S32T TDUNR/L 15
S40U TDUNR/L 15
S50V TDUNR/L 15



75°	TSKNR / L

Sistema T
S25S TSKNR/L 12-Z
S25S TSKNR/L 12
S32T TSKNR/L 12
S40U TSKNR/L 12



60°	TT-NR / L

Sistema T
S25S TT-NR/L 16-Z
S25S TT-NR/L 16
S32T TT-NR/L 16



93°	TTUNR / L

Sistema T
S25S TTUNR/L 16-Z
S25S TTUNR/L 16
S32T TTUNR/L 16
S25S TTUNR/L 22
S32T TTUNR/L 22
S40U TTUNR/L 22
S50V TTUNR/L 22



93°	TVUNR / L

Sistema T
S25S TVUNR/L 16
S32T TVUNR/L 16
S40U TVUNR/L 16



95°	TWLNR / L

Sistema T

S25S TWLNR/L 06-Z	S25S TWLNR/L 08	A32S TWLNR/L 08
S25S TWLNR/L 06	S32T TWLNR/L 08	A40T TWLNR/L 08
S32T TWLNR/L 06	S40U TWLNR/L 08	A50U TWLNR/L 08
S25S TWLNR/L 08-Z	S50V TWLNR/L 08	



93°	CKUNR / L

Sistema C
S25S CKUNR/L 16
S32T CKUNR/L 16
S40U CKUNR/L 16
S50V CKUNR/L 16

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Portaherramientas de Torneado Interior



95° **MCLNR / L**

Sistema M

S20R MCLNR/L 12
S25S MCLNR/L 12-Z
S25S MCLNR/L 12
S32T MCLNR/L 12



93° **MDUNR / L**

Sistema M

S20R MDUNR/L 11
S25S MDUNR/L 11
S25S MDUNR/L 15-Z
S25S MDUNR/L 15
S32T MDUNR/L 15
S40U MDUNR/L 15
S50V MDUNR/L 15



90° **MTFNR / L**

Sistema M

S20R MTFNR/L 16
S25S MTFNR/L 16
S32T MTFNR/L 16
S40U MTFNR/L 16
S32T MTFNR/L 22
S40U MTFNR/L 22
S50V MTFNR/L 22



60° **MT-NR / L**

Sistema M

S20R MT-NR/L 16
S25S MT-NR/L 16-Z
S25S MT-NR/L 16
S32T MT-NR/L 16
S40U MT-NR/L 16
S32T MT-NR/L 22
S40U MT-NR/L 22
S50U MT-NR/L 22



107.5° **MTQNR / L**

Sistema M

S20R MTQNR/L 16
S25S MTQNR/L 16-Z
S25S MTQNR/L 16
S32T MTQNR/L 16
S40U MTQNR/L 16
S32T MTQNR/L 22
S40U MTQNR/L 22
S50V MTQNR/L 22



93° **MTUNR / L**

Sistema M

S20R MTUNR/L 16
S25S MTUNR/L 16-Z
S25S MTUNR/L 16
S32T MTUNR/L 16
S40U MTUNR/L 16
S50V MTUNR/L 16
S32T MTUNR/L 22
S40U MTUNR/L 22
S50V MTUNR/L 22



95° **MWLNR / L**

Sistema M

S16P MWLNR/L 06
S20R MWLNR/L 06
S25S MWLNR/L 06
S25S MWLNR/L 08-Z
S25S MWLNR/L 08
S32T MWLNR/L 08
S40U MWLNR/L 08



95° **PCLNR / L**

Sistema P

S16P PCLNR/L 09
S20R PCLNR/L 09
S25S PCLNR/L 09
S25S PCLNR/L 12C
S32T PCLNR/L 12C
S40U PCLNR/L 12C
S50V PCLNR/L 12C
S32T PCLNR/L 16C
S40U PCLNR/L 16C
S50V PCLNR/L 16C
S40U PCLNR/L 19C
S50V PCLNR/L 19C
A25R PCLNR/L 12C
A32S PCLNR/L 12C
A40T PCLNR/L 12C
A50U PCLNR/L 12C
A32S PCLNR/L 16C
A40T PCLNR/L 16C
A50U PCLNR/L 16C
A40T PCLNR/L 19C
A50U PCLNR/L 19C



107.5° **PDQNR / L**

Sistema P

S20R PDQNR/L 11
S25S PDQNR/L 11
S32T PDQNR/L 15
S40U PDQNR/L 15
S50V PDQNR/L 15
S32T PDQNR/L 1504
S40U PDQNR/L 1504
S50V PDQNR/L 1504
A20P PDQNR/L 11
A25R PDQNR/L 11
A32S PDQNR/L 15
A40T PDQNR/L 15
A50U PDQNR/L 15
A32S PDQNR / L 1504
A40T PDQNR / L 1504



93° **PDUNR / L**

Sistema P

S20R PDUNR/L 11
S25S PDUNR/L 11
S25S PDUNR/L 15
S32T PDUNR/L 15
S40U PDUNR/L 15
S50V PDUNR/L 15
A20P PDUNR/L 11
A25R PDUNR/L 11
A32S PDUNR/L 11
A32S PDUNR/L 15
A40T PDUNR/L 15
A50U PDUNR/L 15



93° **PDXNR / L**

Sistema P

S32T PDXNR/L 15
S40U PDXNR/L 15
S50V PDXNR/L 15



75° **PSKNR / L**

Sistema P

S25S PSKNR/L 12C
S32T PSKNR/L 12C
S40U PSKNR/L 12C
S50V PSKNR/L 12C
S40U PSKNR/L 15



93° **PTUNR / L**

Sistema P

S16P PTUNR/L 16
S20R PTUNR/L 16
S25S PTUNR/L 16C
S32T PTUNR/L 16C
S40U PTUNR/L 16C
S32T PTUNR/L 22C
S40U PTUNR/L 22C
S50V PTUNR/L 22C



95° **PWLNR / L**

Sistema P

S20R PWLNR/L 06
S25S PWLNR/L 06
S32T PWLNR/L 06
S25S PWLNR/L 08C
S32T PWLNR/L 08C
S40U PWLNR/L 08C
S50V PWLNR/L 08C
A20P PWLNR/L 06
A25R PWLNR/L 06
A32S PWLNR/L 06
A25R PWLNR/L 08C
A32S PWLNR/L 08C
A40T PWLNR/L 08C
A50U PWLNR/L 08C



90° **SCFCR / L**

Sistema S

S08H SCFCR/L 06
S10K SCFCR/L 06
S12K SCFCR/L 06
S12K SCFCR/L 09
S16P SCFCR/L 09
S20R SCFCR/L 09
S25S SCFCR/L 09-Z
S25S SCFCR/L 09
S25S SCFCR/L 12

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Portaherramientas de Torneado Interior



95° **SCLCR / L**

Sistema S

S0608H SCLCR/L 03	S12K SCLCR/L 09	S32T SCLCR/L 09	A12H SCLCR/L 06
S0608H SCLCR/L 06	S1416P SCLCR/L 09	S25S SCLCR/L 12-Z	A16M SCLCR/L 09
S08H SCLCR/L 06	S16P SCLCR/L 09	S25S SCLCR/L 12	A20P SCLCR/L 09
S10K SCLCR/L 06	S1620R SCLCR/L 09	S32T SCLCR/L 12	A25R SCLCR/L 09
S12K SCLCR/L 06	S20R SCLCR/L 09	S40U SCLCR/L 12	A32S SCLCR/L 09
S1216P SCLCR/L 06	S25S SCLCR/L 09-Z	A08H SCLCR/L 06	A25R SCLCR/L 12
S16P SCLCR/L 06	S25S SCLCR/L 09	A10H SCLCR/L 06	



62.5° **SD-CR / L**

Sistema S

S10K SD-CR/L 07
S12K SD-CR/L 07
S16P SD-CR/L 07
S20R SD-CR/L 07
S16P SD-CR/L 11
S20R SD-CR/L 11
S25S SD-CR/L 11-Z
S25S SD-CR/L 11
S32T SD-CR/L 11
S40U SD-CR/L 11



117.5° **SDPCR / L**

Sistema S

S10K SDPCR/L 07
S12K SDPCR/L 07
S16P SDPCR/L 11
S20R SDPCR/L 11
S25S SDPCR/L 11



-° **SRGCR / L**

Sistema S

S16P SRGCR/L 08
S20R SRGCR/L 08
S25S SRGCR/L 08C
S32T SRGCR/L 08C
S40U SRGCR/L 08C



107.5° **SDQCR / L**

Sistema S

S10K SDQCR/L 07	S16P SDQCR/L 11	A10H SDQCR/L 07	A16M SDQCR/L 11
S12K SDQCR/L 07	S20R SDQCR/L 11	A12H SDQCR/L 07	A20P SDQCR/L 11
S16P SDQCR/L 07	S25S SDQCR/L 11-Z	A16M SDQCR/L 07	A25R SDQCR/L 11
S20R SDQCR/L 07	S25S SDQCR/L 11	A20P SDQCR/L 07	A32S SDQCR/L 11
	S32T SDQCR/L 11		
	S40U SDQCR/L 11		



93° **SDUCR / L**

Sistema S

S0810K SDUCR/L 07	S1416P SDUCR/L 11	S40U SDUCR/L 11	A16M SDUCR/L 11
S10K SDUCR/L 07	S16P SDUCR/L 11	S50V SDUCR/L 11	A20P SDUCR/L 11
S12K SDUCR/L 07	S1620R SDUCR/L 11	A0810H SDUCR/L 07	A25R SDUCR/L 11
S1216P SDUCR/L 07	S20R SDUCR/L 11	A10H SDUCR/L 07	A32S SDUCR/L 11
S1416P SDUCR/L 07	S25S SDUCR/L 11-Z	A12H SDUCR/L 07	
S16P SDUCR/L 07	S25S SDUCR/L 11	A16M SDUCR/L 07	
S20R SDUCR/L 07	S32T SDUCR/L 11	A20P SDUCR/L 07	



93° **SDXCR / L**

Sistema S

S12K SDXCR/L 07
S16P SDXCR/L 07
S20R SDXCR/L 07
S16P SDXCR/L 11
S20R SDXCR/L 11
S25S SDXCR/L 11-Z
S25S SDXCR/L 11
S32T SDXCR/L 11
S40U SDXCR/L 11



45° **SSSCR / L**

Sistema S

S16P SSSCR/L 09
S20R SSSCR/L 09
S25S SSSCR/L 09
S25S SSSCR/L 09-Z
S25S SSSCR/L 12
S32T SSSCR/L 12
S40U SSSCR/L 12



60° **ST-CR / L**

Sistema S

S12K ST-CR/L 11
S16P ST-CR/L 11
S20R ST-CR/L 11
S16P ST-CR/L 16
S20R ST-CR/L 16
S25S ST-CR/L 16-Z
S25S ST-CR/L 16
S32T ST-CR/L 16
S40U ST-CR/L 16



90° **STFCR / L**

Sistema S

S0610F STFCR/L 06	S12K STFCR/L 11	S16P STFCR/L 16
S08H STFCR/L 06	S16P STFCR/L 11	S20R STFCR/L 16
S10K STFCR/L 09	S20R STFCR/L 11	S25S STFCR/L 16-Z
S12K STFCR/L 09		S25S STFCR/L 16
		S32T STFCR/L 16



93° **STUCR / L**

Sistema S

S10K STUCR/L 09	S20R STUCR/L 11	S25S STUCR/L 16
S12K STUCR/L 09	S16P STUCR/L 16	S32T STUCR/L 16
S12K STUCR/L 11	S20R STUCR/L 16	S40U STUCR/L 16
S16P STUCR/L 11	S25S STUCR/L 16-Z	

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Portaherramientas de Torneado Interior



93° **STUPR / L**

Sistema S
S08H STUPR/L 0802
S10K STUPR/L 1103
S12K STUPR/L 1103
S12M STUPR/L 1103
S16P STUPR/L 1103
S16R STUPR/L 1103



93° **SVJBR / L**

Sistema S
S25S SVJBR/L 16
S32T SVJBR/L 16
S40U SVJBR/L 16



93° **SVJCR / L**

Sistema S
S12K SVJCR/L 11
S16P SVJCR/L 11
S20R SVJCR/L 11



107.5° **SVQBR / L**

Sistema S
S16P SVQBR/L 11
S20R SVQBR/L 11
S25S SVQBR/L 16-Z
S25S SVQBR/L 16
S32T SVQBR/L 16
S40U SVQBR/L 16
A20Q SVQBR/L 11
A20Q SVQBR/L 16
A25S SVQBR/L 16
A32S SVQBR/L 16



107.5° **SVQCR / L**

Sistema S
S16P SVQCR/L 11
S20R SVQCR/L 11
S25S SVQCR/L 16-Z
S25S SVQCR/L 16
S32T SVQCR/L 16
S40U SVQCR/L 16



93° **SVUBR / L**

Sistema S
S16P SVUBR/L 11
S20R SVUBR/L 11
S25S SVUBR/L 16-Z
S25S SVUBR/L 16
S32T SVUBR/L 16
S40U SVUBR/L 16
A20Q SVUBR/L 16
A32S SVUBR/L 16



93° **SVUCR / L**

Sistema S
S16P SVUCR/L 11
S20R SVUCR/L 11
S25S SVUCR/L 16-Z
S25S SVUCR/L 16
S32T SVUCR/L 16
S40U SVUCR/L 16
A12K SVUCR/L 07
A20Q SVUCR/L 11
A25R SVUCR/L 16



93° **SVXBR / L**

Sistema S
S16P SVXBR/L 1102
S20R SVXBR/L 1102
S16P SVXBR/L 11
S20R SVXBR/L 11
S25S SVXBR/L 16
S32T SVXBR/L 16
S40U SVXBR/L 16



95° **SWLCR**

Sistema S
S0608H SWLCR 03
S0810K SWLCR 03



93° **SWUBR**

Sistema S
S08H SWUBR 06-5.5
S08H SWUBR 06-7
S0610H SWUBR 06



95° **SCLCR / L**

Sistema S
Mango Metal Duro
E08K SCLCR/L 06
E10M SCLCR/L 06
E12Q SCLCR/L 06
E16R SCLCR/L 09
E20S SCLCR/L 09



93° **SDUCR / L**

Sistema S
Mango Metal Duro
E10M SDUCR/L 07
E12Q SDUCR/L 07
E16R SDUCR/L 11
E20S SDUCR/L 11

Sets de Portaherramientas de Torneado Interior



95° **SET-A/SCLCR/L**

Set Sistema S
A08H SCLCR/L 06
A10H SCLCR/L 06
A12H SCLCR/L 06
A16M SCLCR/L 09



95° **SET-E/SCLCR/L**

Set Sistema S
E08K SCLCR/L 06
E10M SCLCR/L 06
E12Q SCLCR/L 06
E16R SCLCR/L 09



95° **SET-S/SCLCR/L**

Set Sistema S
S08H SCLCR/L 06
S10K SCLCR/L 06
S12K SCLCR/L 06
S16P SCLCR/L 09



93° **SET-A/SDUCR/L**

Set Sistema S
A10H SDUCR/L 07
A12H SDUCR/L 07
A16M SDUCR/L 11



93° **SET-E/SDUCR/L**

Set Sistema S
E10M SDUCR/L 07
E12Q SDUCR/L 07
E16R SDUCR/L 11



93° **SET-S/SDUCR/L**

Set Sistema S
S10K SDUCR/L 07
S12K SDUCR/L 07
S16P SDUCR/L 11

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Cartuchos



90° **SCACR / L**

Sistema S

S10X SCACR/L 06
S10A SCACR/L 06
S1018 SCACR/L 06
S1065 SCACR/L 06
S10C SCACR/L 06
S12B SCACR/L 06
S12D SCACR/L 06
S12D SCACR/L 09
S1265 SCACR/L 09
S12H SCACR/L 09
S15C SCACR/L 09
S1554 SCACR/L 09
S15E SCACR/L 09
S15D SCACR/L 09
S16A SCACR/L 09
S16B SCACR/L 09
S16C SCACR/L 09
S16D SCACR/L 09
S16E SCACR/L 09
S16G SCACR/L 09
S16H SCACR/L 09
S1868 SCACR/L 09
S18E SCACR/L 09
S1888 SCACR/L 09
S18105 SCACR/L 09
S18175 SCACR/L 09
S20E SCACR/L 09
S20E SCACR/L 12
S20H SCACR/L 12



50° **SCMCN**

Sistema S

S10X SCMCN 06
S12D SCMCN 06
S16C SCMCN 09
S16D SCMCN 09



- **SRSCN**

Sistema S

S12D SRSCN 10
S14D SRSCN 10
S16D SRSCN 10



-° **STXCR / L**

Sistema S

STXCR/L 2020 B16
STXCR/L 2020 E16
STXCR/L 2020 B16-SA
STXCR/L 2020 E16-SA
STXCR/L 2020 B16-PL
STXCR/L 2020 E16-PL
STXCR/L 2020 H16-PL



90° **SCFCR / L**

Sistema S

06CA 06
08CA 06
10CA 09
12CA 12
16CA 12



45° **SCSCR / L**

Sistema S

06CA 06
10CA 09
12CA 12



75° **SSKCR / L**

Sistema S

10CA 09
12CA 12



90° **STFCR / L**

Sistema S

08CA 09
10CA 11
12CA 16
16CA 16



45° **STSCR / L**

Sistema S

08CA 09
10CA 11
12CA 16



60° **STTCR / L**

Sistema S

08CA 09
10CA 11



75° **PSKNR / L**

Sistema P

16CA 12



90° **PTFNR / L**

Sistema P

12CA 16
16CA 16



45° **PSDNN**

Sistema P

S22D PSDNN 12C



75° **PSRNR / L**

Sistema P

16CA 12

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Platos y Cartuchos de Torneado



Código	Dmax		Dmin		Max
	D in	D out	D in	D out	(Dout-Din)
ACPBT-1	27-52	52	18-36	36	27
ACPBT-2	27-49	52	25-36	36	27
ACPBT-3	48-75	75	41	42	27
ACPBT-4	51-75	75	51	52	27
ACPBT-5	22-35	35	22	23	27
ACPBT-6	15-35	35	15	16	27
ACPBT-7	49-53	75	32-36	36	27
ACPBT-8	49	75	33-37	37	27



Código	D1		D2	
	Dmax	Dmin	Dmax	Dmin
ACPBT-9	38	24	15	1
ACPBT-10	78	64	43	29



-° **ÖTG-TC..**

Cartucho

ÖTG-TC11-4IL
ÖTG-TC11-4IR
ÖTG-TC16-1AL
ÖTG-TC16-1AR
ÖTG-TC16-2DL
ÖTG-TC16-2DR
ÖTG-TC16-3IL
ÖTG-TC16-3IR

Portaherramentas de Roscado Interior / Exterior



SER / L

Para Maquinas tipo Swiss

1010 K11-S
1212 K11-S



SER / L

Roscado Exterior

0808 E11	2525 M16C	2525 M16C-T
1010 E11	3232 P16C	2525 M22C-T
1212 F 11	2525 M22C	2020 K16C-S
1616 H11	3232 P22C	2525 M16C-S
1616 H16C	4040 S22C	3232 P16C-S
2020 K16C		



TER / L

Roscado Exterior

1616 H16	2525 M22	2525 M27
2020 K16	3232 P22	3232 P27
2525 M16	4040 S22	4040 S27
3232 P16		



SIR / L

Roscado Interior

S12X05H 06	S16M 16	S25R 22C
S16X07M 08	S20x16P 16	S32S 22C
S10H 11	S20P 16	S40T 22C
S12K 11	S25R 16C	S50U 22C
S16X10M 11	S32S 16C	S25R 16C-T
S16X13M 11	S40T 16C	S32S 16C-T
S16M 11	S50U 16C	S25R 22C-T
S16x13M 16	S20P 22	S32S 22C-T



TIR / L

Roscado Interior

S25R 16	S25R 22	S32S 27
S32S 16	S32S 22	S40T 27
S40T 16	S40T 22	S50U 27
S50U 16	S50U 22	

Portaherramientas de Ranurado

Ranurado Exterior



KRLY - Compatible con Insertos: KRLY - JD (MGM.)

ADKT-K-R/L-1212-1.5-T15	ADKT-K-R/L-2020-3-T20	ADKT-K-R/L-3232-4-T22
ADKT-K-R/L-2020-1.5-T15	ADKT-K-R/L-2020-3-R28	ADKT-K-R/L-2020-5-T20
ADKT-K-R/L-1212-2-T15	ADKT-K-R/L-2525-3-R15	ADKT-K-R/L-2525-5-T18
ADKT-K-R/L-1616-2-T15	ADKT-K-R/L-2525-3-T22	ADKT-K-R/L-2525-5-T25
ADKT-K-R/L-2020-2-T15	ADKT-K-R/L-3232-3-T22	ADKT-K-R/L-3232-5-T25
ADKT-K-R/L-2525-2-T15	ADKT-K-R/L-2020-4-T20	ADKT-K-R/L-2525-6-T25
ADKT-K-R/L-3232-2-T15	ADKT-K-R/L-2020-4-R25	ADKT-K-R/L-3232-6-T25
ADKT-K-R/L-1212-3-T15	ADKT-K-R/L-2525-4-T18	ADKT-K-R/L-3232-8-T32
ADKT-K-R/L-1616-3-T15	ADKT-K-R/L-2525-4-T22	



Compatible con Insertos: KRLY (KG..)

ADKT-KG-R/L-2020-2-T15
ADKT-KG-R/L-2525-2-T15
ADKT-KG-R/L-2525-2-T17
ADKT-KG-R/L-1616-3-T20
ADKT-KG-R/L-2020-3-T20
ADKT-KG-R/L-2525-3-T22
ADKT-KG-R/L-2020-4-T20
ADKT-KG-R/L-2525-4-T16
ADKT-KG-R/L-2525-4-T22
ADKT-KG-R/L-2525-5-T25
ADKT-KG-R/L-2525-6-T25

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Portaherramientas de Ranurado



Compatible con Insertos:
HRN (S229)

ADKT-H-R/L-2020-3-T20
ADKT-H-R/L-2525-3-T22
ADKT-H-R/L-2525-3-T26
ADKT-H-R/L-2020-4-T20
ADKT-H-R/L-2525-4-T22
ADKT-H-R/L-3232-4-T22
ADKT-H-R/L-2020-5-T20
ADKT-H-R/L-2525-5-T25
ADKT-H-R/L-2525-6-T25



Compatible con Insertos:
HRN (S224-S223)

ADKT-HK-R/L-1616-2-T15
ADKT-HK-R/L-2020-2-T15
ADKT-HK-R/L-2525-2-T15
ADKT-HK-R/L-2020-3-T20
ADKT-HK-R/L-2525-3-T22
ADKT-HK-R/L-2020-4-T20
ADKT-HK-R/L-2525-4-T22
ADKT-HS223-R/L-2020-2-T15
ADKT-HS223-R/L-2020-3-T17



Compatible con Insertos:
ZCC (ZQMX)

ADKT-ZCC1-R/L-2020-3-T20
ADKT-ZCC1-R/L-2525-3-T22
ADKT-ZCC1-R/L-2020-4-T20
ADKT-ZCC1-R/L-2525-4-T22



Compatible con Insertos:
ZCC (Z..D)

ADKT-ZCC2-R/L-1616-2-T15
ADKT-ZCC2-R/L-2020-2-T15
ADKT-ZCC2-R/L-2525-2-T15
ADKT-ZCC2-R/L-1616-2.5-T15
ADKT-ZCC2-R/L-2020-2.5-T17
ADKT-ZCC2-R/L-2525-2.5-T15
ADKT-ZCC2-R/L-1616-3-T15
ADKT-ZCC2-R/L-1616-3-T17
ADKT-ZCC2-R/L-1616-3-T20
ADKT-ZCC2-R/L-2020-3-T12
ADKT-ZCC2-R/L-2020-3-T20
ADKT-ZCC2-R/L-2020-3-R21
ADKT-ZCC2-R/L-2020-3-R25
ADKT-ZCC2-R/L-2525-3-T12
ADKT-ZCC2-R/L-2525-3-T22
ADKT-ZCC2-R/L-2525-3-R30
ADKT-ZCC2-R/L-2020-4-T12
ADKT-ZCC2-R/L-2020-4-T20
ADKT-ZCC2-R/L-2525-4-T12
ADKT-ZCC2-R/L-2525-4-T22
ADKT-ZCC2-R/L-2020-5-T12
ADKT-ZCC2-R/L-2020-5-T20
ADKT-ZCC2-R/L-2525-5-T12
ADKT-ZCC2-R/L-2525-5-T25
ADKT-ZCC2-R/L-3232-5-T25
ADKT-ZCC2-R/L-2020-6-T20
ADKT-ZCC2-R/L-2525-6-T25
ADKT-ZCC2-R/L-3232-6-T25
ADKT-ZCC2-R/L-3232-6-T30



Compatible con Insertos:
KNMTL (A4.)

ADKT-KM-R/L-2020-2-T15
ADKT-KM-R/L-2525-2-T15
ADKT-KM-R/L-2020-3-T20
ADKT-KM-R/L-2525-3-T22
ADKT-KM-R/L-2525-4-T22



Compatible con Insertos:
ISCR (DGN-GRP-GIM-GIP-GTN-DCE)

ADKT-I-R/L-1212-2-T15
ADKT-I-R/L-1616-2-T15
ADKT-I-R/L-2020-2-T15
ADKT-I-R/L-2525-2-T15
ADKT-I-R/L-3232-2-T15
ADKT-I-R/L-1212-3-T15
ADKT-I-R/L-1616-3-T15
ADKT-I-R/L-2020-3-T20
ADKT-I-R/L-2525-3-T22
ADKT-I-R/L-3232-3-T22
ADKT-I-R/L-2020-4-T20
ADKT-I-R/L-2525-4-T22
ADKT-I-R/L-3232-4-T25
ADKT-I-R/L-2020-5-T20
ADKT-I-R/L-2525-5-T25
ADKT-IG-R/L-1616-3-T18
ADKT-IG-R/L-2020-3-R20
ADKT-IG-R/L-2525-3-T22
ADKT-IGI-R/L-2020-2-T15
ADKT-IGI-R/L-2525-2-T15
ADKT-IGI-R/L-1616-3-T15
ADKT-IGI-R/L-2020-3-T20
ADKT-IGI-R/L-2525-3-T22
ADKT-IGI-R/L-2525-4-T22
ADKT-IGI-R/L-2525-5-T25
ADKT-IGI-R/L-2525-8-T30
ADKT-IGTN-R/L-2525-5-T25
ADKT-IDC-R/L-2525-3-T21



Compatible con Insertos:
ISCR (TGM.)

ADKT-ITG-R/L-2020-3-T8
ADKT-ITG-R/L-2525-3-T8
ADKT-ITG-R/L-3232-3-T8
ADKT-ITG-R/L-2020-4-T9
ADKT-ITG-R/L-2525-4-T17
ADKT-ITG-R/L-3232-4-T17
ADKT-ITG-R/L-3232-5-T25



Compatible con Insertos:
SNDVK (123)

ADKT-123-R/L-1212-1.5-R15
ADKT-123-R/L-1616-1.5-R15
ADKT-123-R/L-1616-2-T15
ADKT-123-R/L-2020-2-T8
ADKT-123-R/L-2020-2-T15
ADKT-123-R/L-2525-2-T15
ADKT-123-R/L-3232-2-T15
ADKT-123-R/L-1616-3-T15
ADKT-123-R/L-2020-3-T20
ADKT-123-R/L-2525-3-T22
ADKT-123-R/L-2020-4-T20
ADKT-123-R/L-2525-4-T22
ADKT-123-R/L-3232-4-T25
ADKT-123-R/L-2020-5-T20
ADKT-123-R/L-2525-5-T25
ADKT-123-R/L-3232-6-T15



Compatible con Insertos:
SNDVK (151.2)

ADKT-151.22-R/L-1616-2-T15
ADKT-151.22-R/L-2020-2-T15
ADKT-151.22-R/L-2525-2-T15
ADKT-151.22-R/L-1616-3-T15
ADKT-151.22-R/L-2020-3-T20
ADKT-151.22-R/L-2525-3-T22
ADKT-151.22-R/L-1616-4-T15
ADKT-151.22-R/L-2020-4-T20
ADKT-151.22-R/L-2525-4-T22
ADKT-151.22-R/L-2020-5-T20
ADKT-151.22-R/L-2525-5-T25



Compatible con Insertos:
SNDVK (151.2)

ADKT-151.23-R/L-1616-2-T15
ADKT-151.23-R/L-2020-2-T15
ADKT-151.23-R/L-2525-2-T15
ADKT-151.23-R/L-1616-2.5-T15
ADKT-151.23-R/L-2020-2.5-T15
ADKT-151.23-R/L-2525-2.5-T15
ADKT-151.23-R/L-1212-3-T15
ADKT-151.23-R/L-1616-3-T15
ADKT-151.23-R/L-2020-3-T20
ADKT-151.23-R/L-2525-3-T20
ADKT-151.23-R/L-2525-3-T22
ADKT-151.23-R/L-1616-4-T15
ADKT-151.23-R/L-2020-4-T20
ADKT-151.23-R/L-2525-4-T22
ADKT-151.23-R/L-2020-5-T20
ADKT-151.23-R/L-2525-5-T25



Compatible con Insertos:
SNDVK (154.91)

ADKT-154-91-R/L-2020-3-T4
ADKT-154-91-R/L 2525-3-T4
ADKT-154-91-R/L 2020-5-T5
ADKT-154-91-R/L 2525-5-T5



Compatible con Insertos:
ARN (LOMR.)

ADKT-ARN-R/L-2020-2-T15
ADKT-ARN-R/L-2525-2-T15
ADKT-ARN-R/L-2020-3-T20
ADKT-ARN-R/L-2525-3-T22



Compatible con Insertos:
TGTC (TD.)

ADKT-TD-R/L-1212-2-T15
ADKT-TD-R/L-1616-2-T15
ADKT-TD-R/L-2020-2-T9
ADKT-TD-R/L-2020-2-T15
ADKT-TD-R/L-2020-2-T20
ADKT-TD-R/L-2525-2-T17
ADKT-TD-R/L-1212-3-T15
ADKT-TD-R/L-1616-3-T15
ADKT-TD-R/L-2020-3-T20
ADKT-TD-R/L-2020-3-T25
ADKT-TD-R/L-2020-3-T30
ADKT-TD-R/L-2525-3-T9
ADKT-TD-R/L-2525-3-T22
ADKT-TD-R/L-2525-3-T25
ADKT-TD-R/L-2525-3-T30
ADKT-TD-R/L-3232-3-T25
ADKT-TD-R/L-2525-4-T22
ADKT-TD-R/L-2525-4-T30
ADKT-TD-R/L-2525-5-T25

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Portaherramientas de Ranurado



Compatible con Insertos:
SMTM (WCF.)

ADKT-SWC-R/L-2020-2-T25
ADKT-SWC-R/L-2020-3-T25



Compatible con Insertos:
SMTM (GCM)

ADKT-SGC-R/L-1212-2-R15
ADKT-SGC-R/L-1616-2-R15
ADKT-SGC-R/L-2020-2-R20
ADKT-SGC-R/L-2525-2-R20
ADKT-SGC-R/L-1212-3-R15
ADKT-SGC-R/L-1616-3-R15
ADKT-SGC-R/L-2020-3-R22
ADKT-SGC-R/L-2525-3-R15
ADKT-SGC-R/L-2525-3-R22
ADKT-SGC-R/L-2525-4-R25



Compatible con Insertos:
HRN (S312)

ADKT-H22-R/L-1616-(0.5-2)-T6
ADKT-H22-R/L-2020-(0.5-2)-T6
ADKT-H22-R/L-2525-(0.5-2)-T6



Compatible con Insertos:
WLTR (GX16-GX24)

ADKT-WGX16-R/L-2020-2-R16
ADKT-WGX16-R/L-2525-2-R16
ADKT-WGX24-R/L-2020-3-T20
ADKT-WGX24-R/L-2525-3-T22
ADKT-WGX24-R/L-3232-3-T22
ADKT-WGX24-R/L-2525-4-T22
ADKT-WGX24-R/L-2525-5-T25
ADKT-WGX24-R/L-3232-5-T25



Compatible con Insertos:
PLBT (GP)

ADKT-GP-R/L-2020-2-T15
ADKT-GP-R/L-2525-2-T15
ADKT-GP-R/L-2020-3-T20
ADKT-GP-R/L-2525-3-T22
ADKT-GP-R/L-2525-4-T22
ADKT-GP-R/L-2525-5-T25



Compatible con Insertos:
CRTZT (GX24.)

ADKT-CD-R/L-2020-3-R20
ADKT-CD-R/L-2525-3-R23



Compatible con Insertos:
LMNA (GCTX)

ADKT-LGC-R/L-1616-2-D40
ADKT-LGC-R/L-2020-2-D40
ADKT-LGC-R/L-2525-2-D40
ADKT-LGC-R/L-1616-3-T20
ADKT-LGC-R/L-2020-3-T20
ADKT-LGC-R/L-2525-3-T20

Dış Çap Kanal Açma İsviçre Tipi Kayar Otomat Takımları
External Grooving Toolholders For Swiss Type Sliding Automatic Lathes



Compatible con Insertos:
TGTC (TD.)

ADKT-TD-R/L-1212-2-T12-K-S
ADKT-TD-R/L-1616-2-T16-K-S
ADKT-TD-R/L-1212-3-T12-K-S
ADKT-TD-R/L-1616-3-T16-K-S



Compatible con Insertos:
KRLY-JD (MGM.)

ADKT-K-R/L-1212-2-R12-K-S
ADKT-K-R/L-1616-2-R16-K-S
ADKT-K-R/L-1212-3-R12-K-S
ADKT-K-R/L-1616-3-R16-K-S



Compatible con Insertos:
ZCC (Z..D)

ADKT-ZCC2-R/L-1010-2-T12-K-S
ADKT-ZCC2-R/L-1212-2-T12-K-S
ADKT-ZCC2-R/L-1616-2-R16-K-S
ADKT-ZCC2-R/L-1212-3-T12-K-S



Compatible con Insertos:
KRLY (KG.)

ADKT-KG-R/L-1212-2-R12-K-S
ADKT-KG-R/L-1616-2-R16-K-S
ADKT-KG-R/L-1212-3-R12-K-S
ADKT-KG-R/L-1616-3-R16-K-S



Compatible con Insertos:
ISCR (DGN)

ADKT-I-R/L-0808-2-R10-S
ADKT-I-R/L-1010-2-R10-K-S
ADKT-I-R/L-1212-2-R12-K-S
ADKT-I-R/L-1616-3-R16-K-S



Compatible con Insertos:
WLTR (GX16-GX24)

ADKT-WGX16-R/L-1212-2-R12-K-S
ADKT-WGX16-R/L-1616-2-R16-K-S
ADKT-WGX24-R/L-1616-3-R16-K-S

Portaherramientas de Ranurado Frontal



Compatible con Insertos:
KRLY - JD (MGM.)

AAKT-K-R/L-2525-34-45-3-T17
AAKT-K-R/L-2525-39-55-3-T17
AAKT-K-R/L-2525-49-80-3-T17
AAKT-K-R/L-2525-70-110-3-T17
AAKT-K-R/L-2525-100-150-3-T17
AAKT-K-R/L-2525-80-180-3-T32
AAKT-K-R/L-2525-175-215-3-T22
AAKT-K-R/L-2525-700-800-3-T17
AAKT-K-R/L-2525-50-85-4-T22
AAKT-K-R/L-2525-70-110-4-T22
AAKT-K-R/L-2525-100-150-4-T22
AAKT-K-R/L-2525-80-180-4-T32
AAKT-K-R/L-2525-180-800-4-T32
AAKT-K-R/L-2525-70-110-5-T25
AAKT-K-R/L-2525-100-150-5-T25
AAKT-K-R/L-2525-80-180-5-T32
AAKT-K-R/L-2525-140-200-5-T25
AAKT-K-R/L-2525-180-800-5-T32
AAKT-K-R/L-2525-60-100-6-T25
AAKT-K-R/L-2525-60-100-6-T35
AAKT-K-R/L-2525-100-200-6-T25
AAKT-K-R/L-2525-100-200-6-T35
AAKT-K-R/L-2525-100-200-6-T45
AAKT-K-R/L-2525-140-300-6-T35
AAKT-K-R/L-2525-140-300-8-T35
AAKT-K-R/L-3232-140-350-8-T35

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Portaherramientas de Ranurado



Compatible con Inserto:
WITH ZCC (Z..D)

AAKT-ZCC2-R/L-2525-140-180-2-T4
AAKT-ZCC2-R/L-2525-35-45-3-T17
AAKT-ZCC2-R/L-2525-39-55-3-T17
AAKT-ZCC2-R/L-2525-49-80-3-T17
AAKT-ZCC2-R/L-2525-70-110-3-T17
AAKT-ZCC2-R/L-2525-100-150-3-T17
AAKT-ZCC2-R/L-2525-40-60-4-T22
AAKT-ZCC2-R/L-2525-52-80-4-T22
AAKT-ZCC2-R/L-2525-72-110-4-T22
AAKT-ZCC2-R/L-2525-100-150-4-T22
AAKT-ZCC2-R/L-2525-140-200-4-T22
AAKT-ZCC2-R/L-2525-55-95-5-T25
AAKT-ZCC2-R/L-2525-85-140-5-T25
AAKT-ZCC2-R/L-2525-130-200-5-T25
AAKT-ZCC2-R/L-2525-190-400-5-T25
AAKT-ZCC2-R/L-2525-190-400-5-T35
AAKT-ZCC2-R/L-2525-200-500-5-T17
AAKT-ZCC2-R/L-2525-60-110-6-T15



Compatible con Inserto:
ISCR (DGN-GRP)

AAKT-IG-R/L-2525-40-60-4-T25
AAKT-IG-R/L-2525-52-80-4-T25
AAKT-IG-R/L-2525-70-110-4-T28
AAKT-IG-R/L-2525-100-150-4-T25
AAKT-IG-R/L-2525-110-200-4-T28
AAKT-IG-R/L-2525-110-200-4-T32
AAKT-IG-R/L-2525-180-800-4-T28
AAKT-IG-R/L-2525-70-110-5-T32
AAKT-IG-R/L-2525-110-200-5-T9
AAKT-IG-R/L-2525-110-200-5-T32
AAKT-IG-R/L-2525-180-800-5-T32
AAKT-IG-R/L-2525-58-100-6-T32
AAKT-IG-R/L-2525-88-180-6-T32

Ranura Frontal Externa



Compatible con Inserto:
ZCC (Z..D)

ALKT-ZCC2-R/L-2525-35-45-3-T10
ALKT-ZCC2-R/L-2525-39-55-3-T10
ALKT-ZCC2-R/L-2525-35-ϖ-3-T4
ALKT-ZCC2-R/L-2525-40-60-4-T14
ALKT-ZCC2-R/L-2525-52-80-4-T14
ALKT-ZCC2-R/L-2525-72-110-4-T14
ALKT-ZCC2-R/L-2525-100-230-4-T14
ALKT-ZCC2-R/L-2525-40-ϖ-4-T4

Lamas de Tronzado



Compatible con Inserto:
SCR (DGN-GRP)

AKL-I-26-2
AKL-I-32-2
AKL-I-26-3
AKL-I-32-3
AKL-I-26-4
AKL-I-32-4



Compatible con Inserto:
SNDVK (123)

AKL-123-32-2
AKL-123-32-3
AKL-123-32-4



Compatible con Inserto:
TGTC (TD.)

AKL-TD-32-2
AKL-TD-32-3

Lamas de Tronzado



Compatible con Inserto:
SMTM (GCM)

AKL-SGC-26-3
AKL-SGC-32-3

Soporte Porta-lamas



ALBU

ALBU-20-26
ALBU-20-32
ALBU-25-26
ALBU-25-32
ALBU-32-32

Ranuras Interiores Mini



Compatible con Inserto:
SNDVK (MB)

AIKT-MB07-A16-090-15
AIKT-MB07-A16-090-22
AIKT-MB09-A16-090-19
AIKT-MB09-A16-110-40
AIKT-MB09-A16-095-28

Portaherramientas de Ranurado Interior



Compatible con Inserto:
KRLY - JD (MGM.)

AIKT-K-R/L-16-2-T4
AIKT-K-R/L-20-2-T4
AIKT-K-R/L-25-2-T6
AIKT-K-R/L-20-3-T6
AIKT-K-R/L-20-3-T7
AIKT-K-R/L-25-3-T6
AIKT-K-R/L-25-3-T10
AIKT-K-R/L-32-3-T6
AIKT-K-R/L-32-3-T12
AIKT-K-R/L-40-3-T6
AIKT-K-R/L-40-3-T12
AIKT-K-R/L-20-4-T6
AIKT-K-R/L-20-4-T7
AIKT-K-R/L-25-4-T6
AIKT-K-R/L-25-4-T10
AIKT-K-R/L-32-4-T6
AIKT-K-R/L-32-4-T12
AIKT-K-R/L-40-4-T6
AIKT-K-R/L-40-4-T12
AIKT-K-R/L-25-5-T7
AIKT-K-R/L-32-5-T7
AIKT-K-R/L-40-5-T7
AIKT-K-R/L-40-5-T12



Compatible con Inserto:
KRLY (KG..)

AIKT-KG-R/L-25-2-T7
AIKT-KG-R/L-20-3-T6.5-H
AIKT-KG-R/L-25-3-T7
AIKT-KG-R/L-40-3-T8
AIKT-KG-R/L-25-4-T8

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Portaherramientas de Ranurado Interior



Compatible con Inserto:
HRN (S229)

AIKT-H-R/L-25-3-T8
AIKT-H-R/L-32-3-T7
AIKT-H-R/L-40-3-T7
AIKT-H-R/L-25-4-T8
AIKT-H-R/L-32-4-T7
AIKT-H-R/L-40-4-T7
AIKT-H-R/L-25-5-T8
AIKT-H-R/L-32-5-T7
AIKT-H-R/L-40-5-T7



Compatible con Inserto:
SNDVK (154.91) INSERT

AIKT-154.91-R/L-16-3-T3
AIKT-154.91-R/L-20-3-T4
AIKT-154.91-R/L-25-3-T4
AIKT-154.91-R/L-25-5-T5
AIKT-154.91-R/L-32-5-T5



Compatible con Inserto:
SNDVK (123) INSERT

AIKT-123-R/L-20-2-T6
AIKT-123-R/L-25-2-T6
AIKT-123-R/L-32-2-T7
AIKT-123-R/L-20-3-T6
AIKT-123-R/L-25-3-T7
AIKT-123-R/L-32-3-T9
AIKT-123-R/L-20-4-T8
AIKT-123-R/L-25-4-T7
AIKT-123-R/L-32-4-T7
AIKT-123-R/L-32-4-T10
AIKT-123-R/L-25-5-T8
AIKT-123-R/L-32-5-T11



Compatible con Inserto:
HRN (S224-S223)

AIKT-HK-R/L-20-2-T6
AIKT-HK-R/L-25-2-T6
AIKT-HK-R/L-20-3-T6
AIKT-HK-R/L-25-3-T6
AIKT-HK-R/L-32-3-T6
AIKT-HK-R/L-20-4-T6
AIKT-HK-R/L-25-4-T6
AIKT-HK-R/L-32-4-T6
AIKT-HS223-R/L-20-2-T5
AIKT-HS223-R/L-25-2-T5
AIKT-HS223-R/L-20-3-T6
AIKT-HS223-R/L-25-3-T6



Compatible con Inserto:
ZCC (Z..D) INSERT

AIKT-ZCC2-R/L-16-2-T4
AIKT-ZCC2-R/L-20-3-T5
AIKT-ZCC2-R/L-20-3-T8
AIKT-ZCC2-R/L-25-3-T5
AIKT-ZCC2-R/L-25-3-T10
AIKT-ZCC2-R/L-32-3-T6
AIKT-ZCC2-R/L-32-3-T8
AIKT-ZCC2-R/L-32-3-T13
AIKT-ZCC2-R/L-40-3-T12
AIKT-ZCC2-R/L-25-4-T6
AIKT-ZCC2-R/L-32-4-T7
AIKT-ZCC2-R/L-32-4-T8
AIKT-ZCC2-R/L-32-4-T10
AIKT-ZCC2-R/L-32-5-T7
AIKT-ZCC2-R/L-32-5-T8
AIKT-ZCC2-R/L-40-5-T8
AIKT-ZCC2-R/L-40-5-T10



Compatible con Inserto:
ISCR (TGM.)

AIKT-ITG-R/L-16-3-T6-H
AIKT-ITG-R/L-20-3-T6-H
AIKT-ITG-R/L-25-3-T8-H
AIKT-ITG-R/L-32-3-T8-H
AIKT-ITG-R/L-20-4-T6-H
AIKT-ITG-R/L-25-4-T7-H
AIKT-ITG-R/L-25-4-T9-H
AIKT-ITG-R/L-32-4-T11-H
AIKT-ITG-R/L-40-4-T11-H
AIKT-ITG-R/L-32-6.35-T17.5-H



Compatible con Inserto:
ISCR (DGN)

AIKT-I-R/L-20-3-T5
AIKT-I-R/L-25-3-T6



Compatible con Inserto:
SCR (DGN-GRP)

AIKT-IG-R/L-25-4-T10-H
AIKT-IG-R/L-32-4-T10-H
AIKT-IG-R/L-40-4-T12-H
AIKT-IG-R/L-25-5-T10-H
AIKT-IG-R/L-32-5-T10-H
AIKT-IG-R/L-40-5-T12-H
AIKT-IG-R/L-50-5-T12-H



Compatible con Inserto:
ISCR (GIMIY-GIPI)

AIKT-IGI-R/L-20-3-T4
AIKT-IGI-R/L-25-3-T5
AIKT-IGI-R/L-32-3-T5
AIKT-IGI-R/L-40-3-T5
AIKT-IGI-R/L-20-4-T4
AIKT-IGI-R/L-25-5-T10
AIKT-IGI-R/L-25-5-T15



Compatible con Inserto:
ISCR (GEPI)

AIKT-IGE-R/L-10-2-T3-H
AIKT-IGE-R/L-16-2-T3-D11.5
AIKT-IGE-R/L-16-2-T2.5-H
AIKT-IGE-R/L-16-3-T2.5-H
AIKT-IGE-R/L-16-3-T2.5-D20



Compatible con Inserto:
SMTM (GCM)

AIKT-SGC-R-25-3-T6
AIKT-SGC-R-32-3-T6
AIKT-SGC-R-40-3-T6



Compatible con Inserto:
ZCC (QC..)

AIKT-QC11-R/L-20-(0.5-1.8)
AIKT-QC16-R/L-20-(0.5-2.5)
AIKT-QC22-R/L-25-(2.5-3.3)
AIKT-QC22-R/L-25-(3.3-4.8)



Compatible con Inserto:
KNMTL (A4.)

AIKT-KM-R/L-20-2-T7
AIKT-KM-R/L-20-3-T7
AIKT-KM-R/L-25-3-T10
AIKT-KM-R/L-32-3-T12
AIKT-KM-R/L-40-3-T12
AIKT-KM-R/L-20-4-T7
AIKT-KM-R/L-32-4-T12.2-H



Compatible con Inserto:
PLBT (GP.)

AIKT-GP-R/L-20-2-T4
AIKT-GP-R/L-25-2-T6
AIKT-GP-R/L-20-3-T6
AIKT-GP-R/L-25-3-T6
AIKT-GP-R/L-32-3-T6
AIKT-GP-R/L-20-4-T6
AIKT-GP-R/L-25-4-T6
AIKT-GP-R/L-32-4-T6



Compatible con Inserto:
TGTC (TD.)

AIKT-TD-R-16-2-T8.5-H
AIKT-TD-R-20-3-T6-H
AIKT-TD-R-25-3-T6-H
AIKT-TD-R-32-3-T5-H

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Portaherramientas de Taladrado

Sistema U

D2 WCM - (ISO)



ATUM 16XD2 WCM. 030208
ATUM 16.5XD2 WCM. 030208
ATUM 17XD2 WCM. 030208
ATUM 17.5XD2 WCM 030208
ATUM 18XD2 WCM. 030208
ATUM 18.5XD2 WCM. 030208
ATUM 19XD2 WCM. 030208
ATUM 19.5XD2 WCM. 030208
ATUM 20XD2 WCM. 040208
ATUM 20.5XD2 WCM. 040208
ATUM 21XD2 WCM. 040208
ATUM 21.5XD2 WCM. 040208
ATUM 22XD2 WCM. 040208
ATUM 22.5XD2 WCM. 040208
ATUM 23XD2 WCM. 040208
ATUM 23.5XD2 WCM. 040208
ATUM 24XD2 WCM. 050308
ATUM 24.5XD2 WCM. 050308
ATUM 25XD2 WCM. 050308
ATUM 25.5XD2 WCM. 050308
ATUM 26XD2 WCM. 050308
ATUM 26.5XD2 WCM. 050308
ATUM 27XD2 WCM. 050308
ATUM 27.5XD2 WCM. 050308
ATUM 28XD2 WCM. 050308
ATUM 28.5XD2 WCM. 050308
ATUM 29XD2 WCM. 050308
ATUM 29.5XD2 WCM. 050308
ATUM 30XD2 WCM. 06T308
ATUM 31XD2 WCM. 06T308
ATUM 32XD2 WCM. 06T308
ATUM 33XD2 WCM. 06T308
ATUM 34XD2 WCM. 06T308
ATUM 35XD2 WCM. 06T308
ATUM 36XD2 WCM. 06T308
ATUM 37XD2 WCM. 06T308
ATUM 38XD2 WCM. 06T308
ATUM 39XD2 WCM. 06T308
ATUM 40XD2 WCM. 06T308
ATUM 41XD2 WCM. 06T308
ATUM 42XD2 WCM. 06T308
ATUM 43XD2 WCM. 06T308
ATUM 44XD2 WCM. 06T308
ATUM 45XD2 WCM. 080412
ATUM 46XD2 WCM. 080412
ATUM 47XD2 WCM. 080412
ATUM 48XD2 WCM. 080412
ATUM 49XD2 WCM. 080412
ATUM 50XD2 WCM. 080412
ATUM 51XD2 WCM. 080412
ATUM 52XD2 WCM. 080412
ATUM 53XD2 WCM. 080412
ATUM 54XD2 WCM. 080412
ATUM 55XD2 WCM. 080412
ATUM 56XD2 WCM. 080412
ATUM 57XD2 WCM. 080412
ATUM 58XD2 WCM. 080412
ATUM 59XD2 WCM. 080412
ATUM 60XD2 WCM. 080412

D3 WCM - (ISO)



ATUM 16XD3 WCM. 030208
ATUM 16.5XD3 WCM. 030208
ATUM 17XD3 WCM. 030208
ATUM 17.5XD3 WCM. 030208
ATUM 18XD3 WCM. 030208
ATUM 18.5XD3 WCM. 030208
ATUM 19XD3 WCM. 030208
ATUM 19.5XD3 WCM. 030208
ATUM 20XD3 WCM. 040208
ATUM 20.5XD3 WCM. 040208
ATUM 21XD3 WCM. 040208
ATUM 21.5XD3 WCM. 040208
ATUM 22XD3 WCM. 040208
ATUM 22.5XD3 WCM. 040208
ATUM 23XD3 WCM. 040208
ATUM 23.5XD3 WCM. 040208
ATUM 24XD3 WCM. 050308
ATUM 24.5XD3 WCM. 050308
ATUM 25XD3 WCM. 050308
ATUM 25.5XD3 WCM. 050308
ATUM 26XD3 WCM. 050308
ATUM 26.5XD3 WCM. 050308
ATUM 27XD3 WCM. 050308
ATUM 27.5XD3 WCM. 050308
ATUM 28XD3 WCM. 050308
ATUM 28.5XD3 WCM. 050308
ATUM 29XD3 WCM. 050308
ATUM 29.5XD3 WCM. 050308
ATUM 30XD3 WCM. 06T308
ATUM 30.5XD3 WCM. 06T308
ATUM 31XD3 WCM. 06T308
ATUM 31.5XD3 WCM. 06T308
ATUM 32XD3 WCM. 06T308
ATUM 32.5XD3 WCM. 06T308
ATUM 33XD3 WCM. 06T308
ATUM 33.5XD3 WCM. 06T308
ATUM 34XD3 WCM. 06T308
ATUM 34.5XD3 WCM. 06T308
ATUM 35XD3 WCM. 06T308
ATUM 35.5XD3 WCM. 06T308
ATUM 36XD3 WCM. 06T308
ATUM 36.5XD3 WCM. 06T308
ATUM 37XD3 WCM. 06T308
ATUM 37.5XD3 WCM. 06T308
ATUM 38XD3 WCM. 06T308
ATUM 38.5XD3 WCM. 06T308
ATUM 39XD3 WCM. 06T308
ATUM 39.5XD3 WCM. 06T308
ATUM 40XD3 WCM. 06T308
ATUM 40.5XD3 WCM. 06T308
ATUM 41XD3 WCM. 06T308
ATUM 41.5XD3 WCM. 06T308
ATUM 42XD3 WCM. 06T308
ATUM 42.5XD3 WCM. 06T308
ATUM 43XD3 WCM. 06T308
ATUM 43.5XD3 WCM. 06T308
ATUM 44XD3 WCM. 06T308
ATUM 44.5XD3 WCM. 06T308
ATUM 45XD3 WCM. 080412

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Portaherramientas de Taladrado

Sistema U

D3 WCM - (ISO)



ATUM 45.5XD3 WCM. 080412
ATUM 46XD3 WCM. 080412
ATUM 47XD3 WCM. 080412
ATUM 48XD3 WCM. 080412
ATUM 49XD3 WCM. 080412
ATUM 50XD3 WCM. 080412
ATUM 51XD3 WCM. 080412
ATUM 52XD3 WCM. 080412
ATUM 53XD3 WCM. 080412
ATUM 54XD3 WCM. 080412
ATUM 55XD3 WCM. 080412
ATUM 56XD3 WCM. 080412
ATUM 57XD3 WCM. 080412
ATUM 58XD3 WCM. 080412
ATUM 59XD3 WCM. 080412
ATUM 60XD3 WCM. 080412

D4 WCM - (ISO)



ATUM 16XD4 WCM. 030208
ATUM 17XD4 WCM. 030208
ATUM 17.5XD4 WCM. 030208
ATUM 18XD4 WCM. 030208
ATUM 19XD4 WCM. 030208
ATUM 20XD4 WCM. 040208
ATUM 21XD4 WCM. 040208
ATUM 22XD4 WCM. 040208
ATUM 22.5XD4 WCM. 040208
ATUM 23XD4 WCM. 040208
ATUM 24XD4 WCM. 050308
ATUM 25XD4 WCM. 050308
ATUM 26XD4 WCM. 050308
ATUM 26.5XD4 WCM. 050308
ATUM 27XD4 WCM. 050308
ATUM 28XD4 WCM. 050308
ATUM 28.5XD4 WCM. 050308
ATUM 29XD4 WCM. 050308
ATUM 30XD4 WCM. 06T308
ATUM 31XD4 WCM. 06T308
ATUM 32XD4 WCM. 06T308
ATUM 33XD4 WCM. 06T308
ATUM 33.5XD4 WCM. 06T308
ATUM 34XD4 WCM. 06T308
ATUM 35XD4 WCM. 06T308
ATUM 36XD4 WCM. 06T308
ATUM 37XD4 WCM. 06T308
ATUM 38XD4 WCM. 06T308
ATUM 38.5XD4 WCM. 06T308
ATUM 39XD4 WCM. 06T308
ATUM 40XD4 WCM. 06T308
ATUM 41XD4 WCM. 06T308
ATUM 42XD4 WCM. 06T308
ATUM 43XD4 WCM. 06T308
ATUM 44XD4 WCM. 06T308
ATUM 45XD4 WCM. 080412
ATUM 46XD4 WCM. 080412
ATUM 47XD4 WCM. 080412
ATUM 48XD4 WCM. 080412
ATUM 49XD4 WCM. 080412
ATUM 50XD4 WCM. 080412

D2 SP.. - SPMG
Para Placa (TGTC)



ATUM 12.5XD2 SP.. 050204
ATUM 13XD2 SP.. 050204
ATUM 13.5XD2 SP.. 050204
ATUM 14XD2 SP.. 050204
ATUM 14.5XD2 SP.. 050204
ATUM 15XD2 SP.. 050204
ATUM 15.5XD2 SP.. 060204
ATUM 16XD2 SP.. 060204
ATUM 16.5XD2 SP.. 060204
ATUM 17XD2 SP.. 060204
ATUM 17.5XD2 SP.. 060204
ATUM 18XD2 SP.. 060204
ATUM 18.5D2 SP.. 060204
ATUM 19XD2 SP.. 060204
ATUM 19.5XD2 SP.. 060204
ATUM 20XD2 SP.. 060204
ATUM 20.5XD2 SP.. 060204
ATUM 21XD2 SP.. 060204
ATUM 21.5XD2 SP.. 060204
ATUM 22XD2 SP.. 07T308
ATUM 22.5XD2 SP.. 07T308
ATUM 23XD2 SP.. 07T308
ATUM 23.5XD2 SP.. 07T308
ATUM 24XD2 SP.. 07T308
ATUM 24.5XD2 SP.. 07T308
ATUM 25XD2 SP.. 07T308
ATUM 25.5XD2 SP.. 07T308
ATUM 26XD2 SP.. 07T308
ATUM 26.5XD2 SP.. 07T308
ATUM 27XD2 SP.. 07T308
ATUM 27.5XD2 SP.. 07T308
ATUM 28XD2 SP.. 090408
ATUM 28.5XD2 SP.. 090408
ATUM 29XD2 SP.. 090408
ATUM 29.5XD2 SP.. 090408
ATUM 30XD2 SP.. 090408
ATUM 31XD2 SP.. 090408
ATUM 32XD2 SP.. 090408
ATUM 33XD2 SP.. 090408
ATUM 34XD2 SP.. 110408
ATUM 35XD2 SP.. 110408
ATUM 36XD2 SP.. 110408
ATUM 37XD2 SP.. 110408
ATUM 38XD2 SP.. 110408
ATUM 39XD2 SP.. 110408
ATUM 40XD2 SP.. 110408
ATUM 41XD2 SP.. 110408
ATUM 42XD2 SP.. 140512
ATUM 43XD2 SP.. 140512
ATUM 44XD2 SP.. 140512
ATUM 45XD2 SP.. 140512
ATUM 46XD2 SP.. 140512
ATUM 47XD2 SP.. 140512
ATUM 48XD2 SP.. 140512
ATUM 49XD2 SP.. 140512
ATUM 50XD2 SP.. 140512

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Portaherramientas de Taladrado

Sistema U

D3 SP.. - SPMG
Para Placa (TGTC)



ATUM 12.5XD3 SP.. 050204
ATUM 13XD3 SP.. 050204
ATUM 13.5XD3 SP.. 050204
ATUM 14XD3 SP.. 050204
ATUM 14.5XD3 SP.. 050204
ATUM 15XD3 SP.. 050204
ATUM 15.5XD3 SP.. 060204
ATUM 16XD3 SP.. 060204
ATUM 16.5XD3 SP.. 060204
ATUM 17XD3 SP.. 060204
ATUM 17.5XD3 SP.. 060204
ATUM 18XD3 SP.. 060204
ATUM 18.5XD3 SP.. 060204
ATUM 19xD3 SP.. 060204
ATUM 19.5XD3 SP.. 060204
ATUM 20XD3 SP.. 060204
ATUM 20.5XD3 SP.. 060204
ATUM 21XD3 SP.. 060204
ATUM 21.5XD3 SP.. 060204
ATUM 22XD3 SP.. 07T308
ATUM 22.5XD3 SP.. 07T308
ATUM 23XD3 SP.. 07T308
ATUM 23.5XD3 SP.. 07T308
ATUM 24XD3 SP.. 07T308
ATUM 24.5XD3 SP.. 07T308
ATUM 25XD3 SP.. 07T308
ATUM 25.5XD3 SP.. 07T308
ATUM 26XD3 SP.. 07T308
ATUM 26.5XD3 SP.. 07T308
ATUM 27XD3 SP.. 07T308
ATUM 27.5XD3 SP.. 07T308
ATUM 28XD3 SP.. 090408
ATUM 28.5XD3 SP.. 090408
ATUM 29XD3 SP.. 090408
ATUM 29.5XD3 SP.. 090408
ATUM 30XD3 SP.. 090408
ATUM 30.5XD3 SP.. 090408
ATUM 31XD3 SP.. 090408
ATUM 31.5XD3 SP.. 090408
ATUM 32XD3 SP.. 090408
ATUM 32.5XD3 SP.. 090408
ATUM 33XD3 SP.. 090408
ATUM 33.5XD3 SP.. 090408
ATUM 34XD3 SP.. 110408
ATUM 34.5XD3 SP.. 110408
ATUM 35XD3 SP.. 110408
ATUM 35.5XD3 SP.. 110408
ATUM 36XD3 SP.. 110408
ATUM 36.5XD3 SP.. 110408
ATUM 37XD3 SP.. 110408
ATUM 37.5XD3 SP.. 110408
ATUM 38XD3 SP.. 110408
ATUM 38.5XD3 SP.. 110408
ATUM 39XD3 SP.. 110408
ATUM 39.5XD3 SP.. 110408
ATUM 40XD3 SP.. 110408
ATUM 40.5XD3 SP.. 110408

D3 SP.. - SPMG
Para Placa (TGTC)



ATUM 41XD3 SP.. 110408
ATUM 41.5XD3 SP.. 110408
ATUM 42XD3 SP.. 140512
ATUM 42.5XD3 SP.. 140512
ATUM 43XD3 SP.. 140512
ATUM 43.5XD3 SP.. 140512
ATUM 44XD3 SP.. 140512
ATUM 44.5XD3 SP.. 140512
ATUM 45XD3 SP.. 140512
ATUM 45.5XD3 SP.. 140512
ATUM 46XD3 SP.. 140512
ATUM 47XD3 SP.. 140512
ATUM 48XD3 SP.. 140512
ATUM 49XD3 SP.. 140512
ATUM 50XD3 SP.. 140512
ATUM 51XD3 SP.. 140512
ATUM 52XD3 SP.. 140512

D4 SP.. - SPMG
Para Placa (TGTC)



ATUM 13XD4 SP.. 050204
ATUM 14XD4 SP.. 050204
ATUM 15XD4 SP.. 050204
ATUM 16XD4 SP.. 060204
ATUM 17XD4 SP.. 060204
ATUM 17.5XD4 SP.. 060204
ATUM 18XD4 SP.. 060204
ATUM 19XD4 SP.. 060204
ATUM 19.5XD4 SP.. 060204
ATUM 20XD4 SP.. 060204
ATUM 21XD4 SP.. 060204
ATUM 22XD4 SP.. 07T308
ATUM 23XD4 SP.. 07T308
ATUM 23.5XD4 SP.. 07T308
ATUM 24XD4 SP.. 07T308
ATUM 25XD4 SP.. 07T308
ATUM 26XD4 SP.. 07T308
ATUM 27XD4 SP.. 07T308
ATUM 27.5XD4 SP.. 07T308
ATUM 28XD4 SP.. 090408
ATUM 29XD4 SP.. 090408
ATUM 30XD4 SP.. 090408
ATUM 31XD4 SP.. 090408
ATUM 32XD4 SP.. 090408
ATUM 33XD4 SP.. 090408
ATUM 33.5XD4 SP.. 090408
ATUM 34XD4 SP.. 110408
ATUM 35XD4 SP.. 110408
ATUM 36XD4 SP.. 110408
ATUM 37XD4 SP.. 110408
ATUM 38XD4 SP.. 110408
ATUM 39XD4 SP.. 110408
ATUM 40XD4 SP.. 110408
ATUM 41XD4 SP.. 110408
ATUM 42XD4 SP.. 140512
ATUM 43XD4 SP.. 140512
ATUM 44XD4 SP.. 140512

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Portaherramientas de Taladrado

Sistema U

D2 SPGT -
Para Placa (ZCC)



ATUM 12.5XD2 SPGT 050204
ATUM 13XD2 SPGT 050204
ATUM 13.5XD2 SPGT 050204
ATUM 14XD2 SPGT 050204
ATUM 15XD2 SPGT 050204
ATUM 16XD2 SPGT 060204
ATUM 16.5XD2 SPGT 060204
ATUM 17XD2 SPGT 060204
ATUM 17.5XD2 SPGT 060204
ATUM 18XD2 SPGT 060204
ATUM 19XD2 SPGT 060204
ATUM 20XD2 SPGT 060204
ATUM 22XD2 SPGT 07T308
ATUM 22.5XD2 SPGT 07T308
ATUM 23XD2 SPGT 07T308
ATUM 24XD2 SPGT 07T308
ATUM 25XD2 SPGT 07T308
ATUM 26XD2 SPGT 07T308
ATUM 28XD2 SPGT 090408
ATUM 29XD2 SPGT 090408
ATUM 30XD2 SPGT 090408
ATUM 32XD2 SPGT 090408
ATUM 35XD2 SPGT 110408
ATUM 36XD2 SPGT 110408
ATUM 40XD2 SPGT 110408

D3 SPGT -
Para Placa (ZCC)



ATUM 12.5XD3 SPGT 050204
ATUM 13XD3 SPGT 050204
ATUM 13.5XD3 SPGT 050204
ATUM 14XD3 SPGT 050204
ATUM 14.5XD3 SPGT 050204
ATUM 15XD3 SPGT 050204
ATUM 15.5XD3 SPGT 060204
ATUM 16XD3 SPGT 060204
ATUM 16.5XD3 SPGT 060204
ATUM 17XD3 SPGT 060204
ATUM 17.5XD3 SPGT 060204
ATUM 18XD3 SPGT 060204
ATUM 18.5XD3 SPGT 060204
ATUM 19XD3 SPGT 060204
ATUM 19.5XD3 SPGT 060204
ATUM 20XD3 SPGT 060204
ATUM 20.5XD3 SPGT 060204
ATUM 21XD3 SPGT 060204
ATUM 21.5XD3 SPGT 060204
ATUM 22XD3 SPGT 07T308
ATUM 22.5XD3 SPGT 07T308
ATUM 23XD3 SPGT 07T308
ATUM 23.5XD3 SPGT 07T308
ATUM 24XD3 SPGT 07T308
ATUM 24.5XD3 SPGT 07T308
ATUM 25XD3 SPGT 07T308
ATUM 25.5XD3 SPGT 07T308
ATUM 26XD3 SPGT 07T308
ATUM 26.5XD3 SPGT 07T308
ATUM 27XD3 SPGT 07T308
ATUM 27.5XD3 SPGT 07T308
ATUM 28XD3 SPGT 090408

D3 SPGT -
Para Placa (ZCC)



ATUM 28.5XD3 SPGT 090408
ATUM 29XD3 SPGT 090408
ATUM 29.5XD3 SPGT 090408
ATUM 30XD3 SPGT 090408
ATUM 31XD3 SPGT 090408
ATUM 32XD3 SPGT 090408
ATUM 33XD3 SPGT 090408
ATUM 34XD3 SPGT 110408
ATUM 35XD3 SPGT 110408
ATUM 37XD3 SPGT 110408
ATUM 38XD3 SPGT 110408
ATUM 39XD3 SPGT 110408
ATUM 40XD3 SPGT 110408
ATUM 42XD3 SPGT 140512
ATUM 43XD3 SPGT 140512
ATUM 44XD3 SPGT 140512
ATUM 49XD3 SPGT 140512
ATUM 50XD3 SPGT 140512

D4 SPGT -
Para Placa (ZCC)



ATUM 13XD4 SPGT 050204
ATUM 14XD4 SPGT 050204
ATUM 15XD4 SPGT 050204
ATUM 16XD4 SPGT 060204
ATUM 17XD4 SPGT 060204
ATUM 17.5XD4 SPGT 060204
ATUM 18XD4 SPGT 060204
ATUM 19XD4 SPGT 060204
ATUM 19.5XD4 SPGT 060204
ATUM 20XD4 SPGT 060204
ATUM 21XD4 SPGT 060204
ATUM 22XD4 SPGT 07T308
ATUM 23XD4 SPGT 07T308
ATUM 23.5XD4 SPGT 07T308
ATUM 24XD4 SPGT 07T308
ATUM 25XD4 SPGT 07T308
ATUM 26XD4 SPGT 07T308
ATUM 27.5XD4 SPGT 07T308
ATUM 28XD4 SPGT 090408
ATUM 29XD4 SPGT 090408
ATUM 30XD4 SPGT 090408
ATUM 33.5XD4 SPGT 090408
ATUM 38XD4 SPGT 110408

D3 SO.. - SOMX-SOMT
Para Placa (ISCR)



ATUM 14XD3 SO.. 050204
ATUM 15XD3 SO.. 050204
ATUM 16XD3 SO.. 050204
ATUM 16.5XD3 SO.. 050204
ATUM 17XD3 SO.. 050204
ATUM 17.5XD3 SO.. 050204
ATUM 18XD3 SO.. 060304
ATUM 19XD3 SO.. 060204
ATUM 20XD3 SO.. 060304
ATUM 22XD3 SO.. 070305
ATUM 22.5XD3 SO.. 070305
ATUM 23XD3 SO.. 070305
ATUM 24XD3 SO.. 070305
ATUM 25XD3 SO.. 09T306
ATUM 26XD3 SO.. 09T306
ATUM 27XD3 SO.. 09T306
ATUM 29XD3 SO.. 09T306
ATUM 30XD3 SO.. 09T306

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Portaherramientas de Taladrado

Sistema de Taladrado U

D3 SO.. - SOMX-SOMT (ISCR)



ATUM 31XD3 SO.. 09T306
ATUM 33XD3 SO.. 09T306
ATUM 35XD3 SO.. 120408
ATUM 36XD3 SO.. 120408
ATUM 37XD3 SO.. 120408
ATUM 38XD3 SO.. 120408
ATUM 39XD3 SO.. 120408
ATUM 40XD3 SO.. 120408
ATUM 43XD3 SO.. 120408

D4 SO.. - SOMX-SOMT (ISCR)



ATUM 14XD4 SO.. 050204
ATUM 14.5XD4 SO.. 050204
ATUM 15XD4 SO.. 050204
ATUM 15.5XD4 SO.. 050204
ATUM 17XD4 SO.. 050204
ATUM 19XD4 SO.. 060304
ATUM 19.5XD4 SO.. 060304
ATUM 20XD4 SO.. 060304
ATUM 21XD4 SO.. 070305
ATUM 22XD4 SO.. 070305
ATUM 22.5XD4 SO. 070305
ATUM 23XD4 SO.. 070305
ATUM 24XD4 SO.. 070305
ATUM 25XD4 SO.. 09T306
ATUM 27XD4 SO.. 09T306
ATUM 28XD4 SO.. 09T306
ATUM 29XD4 SO.. 09T306
ATUM 30XD4 SO.. 09T306
ATUM 31XD4 SO.. 09T306
ATUM 33XD4 SO.. 09T306
ATUM 34XD4 SO.. 09T306
ATUM 35XD4 SO.. 120408

D2 KDR - SPMT-XOMT (KRLY)



ATUM 14XD2 KDR 0502..
ATUM 18XD2 KDR 0602..
ATUM 20XD2 KDR 07T2..
ATUM 22XD2 KDR 07T2..
ATUM 24XD2 KDR 0903..
ATUM 25XD2 KDR 0903..
ATUM 26XD2 KDR 0903..
ATUM 28XD2 KDR 0903..
ATUM 30XD2 KDR 11T3..
ATUM 32XD2 KDR 11T3..
ATUM 34XD2 KDR 11T3..
ATUM 37XD2 KDR 1304..

D4 KDR - SPMT-XOMT (KRLY)



ATUM 14XD4 KDR 0502..
ATUM 14.5XD4 KDR 0502..
ATUM 15XD4 KDR 0502..
ATUM 15.5XD4 KDR 0502..
ATUM 16XD4 KDR 0502..
ATUM 17XD4 KDR 0602..
ATUM 17.5XD4 KDR 0602..
ATUM 18XD4 KDR 0602..
ATUM 18.5XD4 KDR 0602..
ATUM 19XD4 KDR 0602..
ATUM 20XD4 KDR 07T2..
ATUM 21XD4 KDR 07T2..
ATUM 22XD4 KDR 07T2..
ATUM 24XD4 KDR 0903..
ATUM 25XD4 KDR 0903..

D3 KDR - SPMT-XOMT (KRLY)



ATUM 12.5XD3 KDR 0402..
ATUM 13XD3 KDR 0402..
ATUM 14XD3 KDR 0502..
ATUM 14.5XD3 KDR 0502..
ATUM 15XD3 KDR 0502..
ATUM 15.5XD3 KDR 0502..
ATUM 16XD3 KDR 0502..
ATUM 16.5XD3 KDR 0602..
ATUM 17XD3 KDR 0602..
ATUM 17.5XD3 KDR 0602..
ATUM 18XD3 KDR 0602..
ATUM 18.5XD3 KDR 0602..
ATUM 19XD3 KDR 0602..
ATUM 19.5XD3 KDR 0602..
ATUM 20XD3 KDR 07T2..
ATUM 20.5XD3 KDR 07T2..
ATUM 21XD3 KDR 07T2..
ATUM 22XD3 KDR 07T2..
ATUM 23XD3 KDR 07T2..
ATUM 23.5XD3 KDR 07T2..
ATUM 24XD3 KDR 0903..
ATUM 24.5XD3 KDR 0903..
ATUM 25XD3 KDR 0903..
ATUM 26XD3 KDR 0903..
ATUM 27XD3 KDR 0903..
ATUM 28XD3 KDR 0903..
ATUM 29XD3 KDR 0903..
ATUM 30XD3 KDR 11T3..
ATUM 32XD3 KDR 11T3..
ATUM 33XD3 KDR 11T3..
ATUM 34XD3 KDR 11T3..
ATUM 35XD3 KDR 11T3..
ATUM 37XD3 KDR 1304..
ATUM 38XD3 KDR 1304..
ATUM 39XD3 KDR 1304..
ATUM 40XD3 KDR 1304..

D2 SOMT - (TGTC)



ATUM 14XD2 SOMT 050204
ATUM 16XD2 SOMT 050204
ATUM 17XD2 SOMT 060204
ATUM 18XD2 SOMT 060204
ATUM 20XD2 SOMT 070306
ATUM 22XD2 SOMT 070306
ATUM 24XD2 SOMT 08T306
ATUM 25XD2 SOMT 08T306
ATUM 26XD2 SOMT 08T306
ATUM 27XD2 SOMT 09T308
ATUM 28XD2 SOMT 09T308
ATUM 30XD2 SOMT 09T308
ATUM 32XD2 SOMT 11T308
ATUM 33XD2 SOMT 11T308
ATUM 34XD2 SOMT 11T308
ATUM 35XD2 SOMT 11T308
ATUM 37XD2 SOMT 130408
ATUM 38XD2 SOMT 130408
ATUM 40XD2 SOMT 130408
ATUM 45XD2 SOMT 150510

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Portaherramientas de Taladrado

D3 SOMT - (TGTC)



ATUM 14XD3 SOMT 050204
ATUM 14.5XD3 SOMT 050204
ATUM 15XD3 SOMT 050204
ATUM 15.5XD3 SOMT 050204
ATUM 16XD3 SOMT 050204
ATUM 16.5XD3 SOMT 060204
ATUM 17XD3 SOMT 060204
ATUM 17.5XD3 SOMT 060204
ATUM 18XD3 SOMT 060204
ATUM 18.5XD3 SOMT 060204
ATUM 19XD3 SOMT 060204
ATUM 19.5XD3 SOMT 070306
ATUM 20XD3 SOMT 070306
ATUM 20.5XD3 SOMT 070306
ATUM 21XD3 SOMT 070306
ATUM 22XD3 SOMT 070305
ATUM 22.5XD3 SOMT 08T306
ATUM 23XD3 SOMT 08T306
ATUM 23.5XD3 SOMT 08T306
ATUM 24XD3 SOMT 08T306
ATUM 24.5XD3 SOMT 08T306
ATUM 25XD3 SOMT 08T306
ATUM 26XD3 SOMT 08T306
ATUM 27XD3 SOMT 09T308
ATUM 27.5XD3 SOMT 09T308
ATUM 28XD3 SOMT 09T308
ATUM 29XD3 SOMT 09T308
ATUM 30XD3 SOMT 09T308
ATUM 32XD3 SOMT 11T308
ATUM 33XD3 SOMT 11T308
ATUM 34XD3 SOMT 11T308
ATUM 35XD3 SOMT 11T308
ATUM 36XD3 SOMT 11T308
ATUM 37XD3 SOMT 130408
ATUM 38XD3 SOMT 130408
ATUM 39XD3 SOMT 130408
ATUM 40XD3 SOMT 130408
ATUM 45XD3 SOMT 150510
ATUM 49XD3 SOMT 150510
ATUM 50XD3 SOMT 150510

D4 SOMT - (TGTC)



ATUM 14XD4 SOMT 050204
ATUM 14.5XD4 SOMT 050204
ATUM 16XD4 SOMT 050204
ATUM 17XD4 SOMT 060204
ATUM 17.5XD4 SOMT 060204
ATUM 18XD4 SOMT 060204
ATUM 19XD4 SOMT 060204
ATUM 20XD4 SOMT 070306
ATUM 21XD4 SOMT 070306
ATUM 22XD4 SOMT 070306
ATUM 24XD4 SOMT 08T306
ATUM 25XD4 SOMT 08T306

D5 SOMT - (TGTC)



ATUM 14XD5 SOMT 050204
ATUM 15XD5 SOMT 050204
ATUM 15.5XD5 SOMT 050204
ATUM 16XD5 SOMT 050204
ATUM 17.5XD5 SOMT 060204
ATUM 18XD5 SOMT 060204
ATUM 19XD5 SOMT 060204
ATUM 19.5XD5 SOMT 070306
ATUM 20XD5 SOMT 070306
ATUM 21XD5 SOMT 070306
ATUM 22XD5 SOMT 070306
ATUM 23XD5 SOMT 08T306
ATUM 24XD5 SOMT 08T306
ATUM 25XD5 SOMT 08T306
ATUM 26XD5 SOMT 08T306
ATUM 27XD5 SOMT 09T308
ATUM 28XD5 SOMT 09T308
ATUM 29XD5 SOMT 09T308
ATUM 30XD5 SOMT 09T308
ATUM 33XD5 SOMT 11T308
ATUM 34XD5 SOMT 11T308
ATUM 35XD5 SOMT 11T308
ATUM 36XD5 SOMT 11T308

D3 880-.. (SNDVK)



ATUM 14XD3 880-0202..
ATUM 14.5XD3 880-0202..
ATUM 15XD3 880-0202..
ATUM 15.5XD3 880-0202..
ATUM 16XD3 880-0202..
ATUM 16.5XD3 880-0303..
ATUM 17XD3 880-0303..
ATUM 17.5XD3 880-0303..
ATUM 18XD3 880-0303..
ATUM 18.5XD3 880-0303..
ATUM 19XD3 880-0303..
ATUM 19.5XD3 880-0303..
ATUM 20XD3 880-0403..
ATUM 20.5XD3 880-0403..
ATUM 21XD3 880-0403..
ATUM 21.5XD3 880-0403..
ATUM 22XD3 880-0403..
ATUM 22.5XD3 880-0403..
ATUM 23XD3 880-0403..
ATUM 24XD3 880-0503..
ATUM 25XD3 880-0503..
ATUM 26XD3 880-0503..
ATUM 27XD3 880-0503..
ATUM 28XD3 880-0503..
ATUM 29XD3 880-0503..
ATUM 30XD3 880-0604..
ATUM 31XD3 880-0604..
ATUM 32XD3 880-0604..
ATUM 33XD3 880-0604..
ATUM 34XD3 880-0604..
ATUM 35XD3 880-0604..
ATUM 36XD3 880-0704..
ATUM 38XD3 880-0704..
ATUM 39XD3 880-0704..
ATUM 40XD3 880-0704..
ATUM 41XD3 880-0704..
ATUM 42XD3 880-0704..
ATUM 45XD3 880-0805..
ATUM 46XD3 880-0805..
ATUM 48XD3 880-0805..
ATUM 50XD3 880-0805..

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Accesorios para Brocas -- Mandrinado

Anillo de chaflanes para porta de taladrado





ADCR	Código
	ADCR-120-VB1103
	ADCR-125-VB1103
	ADCR-130-VB1103
	ADCR-135-VB1103
	ADCR-140-VB1103
	ADCR-145-VB1103
	ADCR-150-VB1103
	ADCR-155-VB1103
	ADCR-160-VB1103
	ADCR-165-VB1103
	ADCR-170-VB1103
	ADCR-175-VB1103
	ADCR-180-VB1103
	ADCR-185-VB1103
	ADCR-190-VB1103
	ADCR-195-VB1103
	ADCR-200-VB1103
	ADCR-205-VB1103
	ADCR-210-VB1103
	ADCR-215-VB1103
	ADCR-220-VB1103
	ADCR-225-VB1103
	ADCR-230-VB1103
	ADCR-235-VB1103
	ADCR-240-VB1103
	ADCR-245-VB1103
	ADCR-250-VB1103
	ADCR-255-VB1103
	ADCR-260-VB1103
	ADCR-265-VB1103
	ADCR-270-VB1103
	ADCR-275-VB1103
	ADCR-280-VB1103
	ADCR-285-VB1103
	ADCR-290-VB1103
	ADCR-295-VB1103
	ADCR-300-VB1103

Porta de Taladrado-Refrentado



Compatible con:
CRTZT-ISCR-TGTC-KRLY

AEKR/L-D2.25X8 XC.. 040104
AEKR/L-D2.25X10 XC.. 050204
AEKR/L-D2.25X12 XC.. 060204
AEKR/L-D2.25X14 XC.. 070304
AEKR/L-D2.25X16 XC.. 080304
AEKR/L-D2.25X18 XC.. 09T304
AEKR/L-D2.25X20 XC.. 10T304
AEKR/L-D2.25X25 XC.. 130404
AEKR/L-D2.25X32 XC.. 170504

Anillo Excéntrico para portas de taladrado



AET

AET-2025
AET-2532
AET-3240

Ø+0.4 - Ø-0.2 Ajuste

Conjunto de mandrinado



Código Conjunto	Dmin-Dmax
ABHR-D18x22-W16-L90-CC06	18-22
ABHR-D18x22-W16-L150-CC06	18-22
ABHR-D18x22-W16-L200-CC06	18-22
ABHR-D22x28-W20-L100-CC06	22-28
ABHR-D22x28-W20-L150-CC06	22-28
ABHR-D22x28-W20-L200-CC06	22-28
ABHR-D28x38-W20-L110-CC06	28-38
ABHR-D28x38-W20-L160-CC06	28-38
ABHR-D28x38-W20-L230-CC06	28-38
ABHR-D36x50-W25-L120-CC06	36-50
ABHR-D36x50-W25-L170-CC06	36-50
ABHR-D36x50-W25-L250-CC06	36-50
ABHR-D36x50-W25-L120-CC09	36-50
ABHR-D36x50-W25-L170-CC09	36-50
ABHR-D36x50-W25-L250-CC09	36-50
ABHR-D50x68-W32-L140-CC09	50-68
ABHR-D50x68-W32-L200-CC09	50-68
ABHR-D50x68-W32-L280-CC09	50-68
ABHR-D50x68-W32-L140-CC12	50-68
ABHR-D50x68-W32-L200-CC12	50-68
ABHR-D50x68-W32-L280-CC12	50-68
ABHR-D68x90-W32-L160-CC12	68-90
ABHR-D68x90-W32-L210-CC12	68-90
ABHR-D68x90-W32-L280-CC12	68-90
ABHR-D90x120-W32-L140-CC12	90-120
ABHR-D90x120-W40-L200-CC12	90-120
ABHR-D90x120-W40-L300-CC12	90-120
ABHR-D120x160-W40-L210-CC12	120-160
ABHR-D120x160-W40-L300-CC12	120-160
ABHR-D160x200-W40-L210-B-CC12	160-200
ABHR-D160x200-W40-L300-B-CC12	160-200

Cuerpo de Mandrinado



CódigoCuerpo	Cartucho
ABHRS-D16x42-W16-L90	AK.. 18-22
ABHRS-D16x102-W16-L150	AK.. 18-22
ABHRS-D16x152-W16-L200	AK.. 18-22
ABHRS-D20x50-W20-L100	AK.. 22-28
ABHRS-D20x100-W20-L150	AK.. 22-28
ABHRS-D20x150-W20-L200	AK.. 22-28
ABHRS-D25x60-W20-L110	AK.. 28-38
ABHRS-D25x110-W20-L160	AK.. 28-38
ABHRS-D25x180-W20-L230	AK.. 28-38
ABHRS-D32X64-W25-L120	AK.. 36-50
ABHRS-D32X114-W25-L170	AK.. 36-50
ABHRS-D32X194-W25-L250	AK.. 36-50
ABHRS-D32X64-W25-L120	AK.. 36-50-09
ABHRS-D32X114-W25-L170	AK.. 36-50-09
ABHRS-D32X194-W25-L250	AK.. 36-50-09
ABHRS-D40x80-W32-L140	AK.. 50-68
ABHRS-D40x140-W32-L200	AK.. 50-68
ABHRS-D40x220-W32-L280	AK.. 50-68
ABHRS-D40x80-W32-L140	AK.. 50-68-12
ABHRS-D40x140-W32-L200	AK.. 50-68-12
ABHRS-D40x220-W32-L280	AK.. 50-68-12
ABHRS-D50x100-W32-L160	AK.. 68-90
ABHRS-D50x150-W32-L210	AK.. 68-90
ABHRS-D50x220-W32-L280	AK.. 68-90
ABHRS-D63x80-W32-L140	AK.. 90-120
ABHRS-D63x130-W40-L200	AK.. 90-120
ABHRS-D63x230-W40-L300	AK.. 90-120
ABHRS-D80x140-W40-L210	AK.. 120-160
ABHRS-D80x230-W40-L300	AK.. 120-160
ABHRS-D80x140-W40-L210	AK.. 160-800
ABHRS-D80x230-W40-L300	AK.. 160-800

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Herramientas de Fresado

Cartuchos de mecanizado para Mandrinado



Código	Para Rango
AKSR 18-22	18-22
AKSR 22-28	22-28
AKSR 28-38	28-38
AKSR 36-50	36-50
AKSR 36-50-09	36-50
AKSR 50-68	50-68
AKSR 50-68-12	50-68
AKSR 68-90	68-90
AKSR 90-120	90-120
AKSR 120-160	120-160
AKSR 160-800	160-800



Código	Para Rango
AKCR 28-38	28-38
AKCR 36-50	36-50
AKCR 36-50-09	36-50
AKCR 50-68	50-68
AKCR 50-68-12	50-68
AKCR 68-90	68-90
AKCR 90-120	90-120
AKCR 120-160	120-160
AKCR 160-800	160-800

Herramientas de Fresado-Roscado



-°	ATM-C..	Inserto	Código
		C14	ATM-C14-D14-W20-L100-Z01-H
		C21 (Para CPT)	ATM-C21-D18-W20-L100-Z01-H ATM-C21-D21-W25-L125-Z01-H ATM-C21-D25-W20-L125-Z01-H ATM-C21-D28-W25-L90-Z01-H ATM-C21-D38-W32-L90-Z03-H ATM-C21-D38-W32-L120-Z03-H ATM-C21-D43-W32-L90-Z03-H
		C30 (Para CPT)	ATM-C30-D29-W25-L150-Z01-H



-°	ATM-H..	Inserto	Código
		H23 (Para CPT)	ATM-H23-D23-C25-L100-Z02-H
		H32 (Para CPT)	ATM-H32-D32-C32-L130-Z05-H



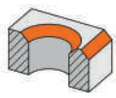
60°	ATM60..	Inserto	Código
		TBGT 060102	ATM60-TB0601-D13-C10-L150-Z02-H
		TC.T 090202	ATM60-TC0902-D20.5-C16-L150-Z02-H
		TC.T 110202	ATM60-TC1102-D26-C20-L150-Z03-H
		TC.T 16T304 (Para ISO)	ATM60-TC16T3-D32-C25-L150-Z02-H ATM60-TC16T3-D40-C32-L250-Z03-H

Herramientas de chaflanes



-°	ACM..-TC..	Inserto	Código
		TC.T 16T304	ACM10-TC16-D17X22-W16-L90-Z01 ACM15-TC16-D17X24-W16-L90-Z01 ACM15-TC16-D22X29-W16-L100-Z01 ACM15-TC16-D30X37-W20-L100-Z02 ACM15-TC16-D35X42-W20-L100-Z03 ACM15-TC16-D52X59-W25-L110-Z03 ACM17.5-TC16-D17X25-W16-L90-Z01 ACM18.5-TC16-D21.3X30-W20-L100-Z02 ACM20-TC16-D12X22-W16-L100-Z01 ACM20-TC16-D17X27-W16-L100-Z01 ACM20-TC16-D23X33-W20-L100-Z02 ACM20-TC16-D28X38-W20-L100-Z02 ACM20-TC16-D35X45-W20-L100-Z03 ACM20-TC16-D39X49-W20-L100-Z03 ACM20-TC16-D45X55-W25-L110-Z03 ACM20-TC16-D51X61-W25-L110-Z03 ACM22.5-TC16-D17X28-W16-L100-Z01 ACM25-TC16-D17X29-W16-L100-Z01 ACM30-TC16-D6X20-W16-L100-Z01 ACM30-TC16-D15X30-W16-L100-Z01 ACM30-TC16-D17.5X32.5-W20-L100-Z02 ACM30-TC16-D20X35-W16-L100-Z02 ACM30-TC16-D30X45-W20-L100-Z02 ACM30-TC16-D35X50-W20-L100-Z03 ACM30-TC16-D45X60-W25-L110-Z03
		TC.T 090204	ACM45-TC09-D7X18-W16-L100-Z02
		TC.T 110204	ACM45-TC11-D11X24-W16-L100-Z02
		TC.T 16T304	ACM45-TC16-D5X26-W16-L100-Z01 ACM45-TC16-D10X31-W16-L100-Z02 ACM45-TC16-D10X31-W20-L100-Z02 ACM45-TC16-D18X39-W16-L100-Z02 ACM45-TC16-D18X39-W20-L100-Z02 ACM45-TC16-D20X41-W20-L100-Z02 ACM45-TC16-D30X51-W20-L100-Z02 ACM55-TC16-D16X40-W20-L100-Z03 ACM62-TC16-D14X40-W20-L100-Z03 ACM72-TC16-D14X42-W20-L100-Z03







45°	ACM45-SP11	Inserto	Código
		SPGT 110408 (Para ZCC)	ACM45-SP1104-D12x26-W20-L150-Z01 ACM45-SP1104-D25x39-W25-L150-Z02 ACM45-SP1104-D32x46-W32-L150-Z03

Avellanador Cabeza Tornillo (DIN 974-1)



-°	ACBM-..	Inserto	Código
		CC.. 0602.. (Para ISO)	ACBM-CC06-D17X6-W16-L150-Z02 ACBM-CC06-D18X7-W16-L100-Z02-H ACBM-CC06-D18X7-W16-L160-Z02-H ACBM-CC06-D20X9-W20-L100-Z02-H ACBM-CC06-D20X9-W20-L160-Z02-H
		CC.. 09T3.. (Para ISO)	ACBM-CC09-D26X8.5-W25-L130-Z02-H ACBM-CC09-D26X8.5-W25-L200-Z02 ACBM-CC09-D33X15.5-W32-L130-Z02-H ACBM-CC09-D33X15.5-W32-L200-Z2
		SPMG 0602.. (Para TGTC)	ACBM-SP06-D15X4-W16-L160-Z02-H

Platos de Fresado para Chaflanes



-°	AHM..-AP16..	Inserto	Código
		AP.. 1604.. (Para ISO)	AHM15-AP16-D35x93-A27-Z0306-H AHM30-AP16-D35x87-A27-Z0306-H AHM45-AP16-D35x77-A27-Z0306-H AHM60-AP16-D35x65-A22-Z0306-H AHM75-AP16-D35x50-A22-Z0306-H

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Portaherramientas de Fresado

Prolongadores de Cabezas de Fresado de Rosca

AVTT	Takım Kodu / *Tool Code*
	AVTT-D13-C16-M08-L100-H AVTT-D15-C16-M08-L130-H AVTT-D18-C20-M10-L130-H AVTT-D18-C20-M10-L160-H AVTT-D23-C25-M12-L150-H AVTT-D23-C25-M12-L200-H AVTT-D23-C25-M12-L250-H AVTT-D30-C32-M16-L150-H AVTT-D30-C32-M16-L200-H AVTT-D30-C32-M16-L250-H AVTT-D30-C32-M16-L300-H

Portaherramientas para 4NTK0603..

90°	AFM90-4N06	Uç / Insert	Takım Kodu / *Tool Code*
		4NKT 0603.. (Para TGTC)	AFM90-4N06-D040-A16-Z05-H AFM90-4N06-D050-A22-Z06-H

Portaherramientas de Fresado para 3PKT0603 - 3PK1004 - 3PKT1505

90°	AEM90-3P..	Uç / Insert	Takım Kodu / *Tool Code*
		3P.T 0603.. (Para TGTC)	AEM90-3P0603-D16-W16-L120-Z03-H AEM90-3P0603-D20-W20-L150-Z03-H AEM90-3P0603-D25-W25-L150-Z05-H
		3P.T 1004.. (Para TGTC)	AEM90-3P1004-D20-W20-L150-Z02 AEM90-3P1004-D21-C20-L200-Z02 AEM90-3P1004-D25-W25-L150-Z03
		3P.T 1505.. (Para TGTC)	AEM90-3P1505-D32-W32-L150-Z03 AEM90-3P1505-D40-W32-L150-Z04

Plato de Fresado para 3PKT1004 - 3PKT1505

90°	AFM90-3P..	Uç / Insert	Takım Kodu / *Tool Code*
		3PKT 1004.. (Para TGTC)	AFM90-3P1004-D040-A16-Z05-H AFM90-3P1004-D050-A22-Z06-H
		3PKT 1505.. (Para TGTC)	AFM90-3P1505-D050-A22-Z04-H AFM90-3P1505-D050-A22-Z05-H AFM90-3P1505-D063-A22-Z04-H AFM90-3P1505-D063-A22-Z06-H AFM90-3P1505-D080-A27-Z07-H AFM90-3P1505-D100-A32-Z08-H AFM90-3P1505-D125-B40-Z10

Portaherramientas Cabeza Roscada para 3PKT1004

90°	AEM90-3P1004	Uç / Insert	Takım Kodu / *Tool Code*
	new 	3P.T 1004.. (Para TGTC)	AEM90-3P1004-D20-M10-L35-Z02 AEM90-3P1004-D32-M16-L43-Z05-H

Portaherramientas de Fresado para ADMT1003 - ADKT150508

90°	AEM90-AD..	Uç / Insert	Takım Kodu / *Tool Code*
		ADMT 1003.. (Para DJT)	AEM90-AD1003-D16-C16-L150-Z02 AEM90-AD1003-D17-C16-L150-Z02 AEM90-AD1003-D20-C20-L200-Z03 AEM90-AD1003-D21-C20-L150-Z03 AEM90-AD1003-D21-C20-L200-Z03 AEM90-AD1003-D25-C25-L200-Z03 AEM90-AD1003-D26-C25-L150-Z03 AEM90-AD1003-D26-C25-L200-Z03
		ADKT 150508 (Para DJT)	AEM90-AD1505D-D25-W25-L150-Z02 AEM90-AD1505D-D32-W32-L150-Z03

Portaherramientas para 4NKT0603..

90°	AEM90-4N06	Uç / Insert	Takım Kodu / *Tool Code*
		4NKT 0603.. (Para TGTC)	AEM90-4N06-D16-W16-L120-Z02-H AEM90-4N06-D16-W16-L160-Z02 AEM90-4N06-D20-W16-L120-Z03-H AEM90-4N06-D20-W16-L160-Z03

Portaherramientas Cabeza Roscada para ADKT150508

90°	AEM90-AD1505D	Uç / Insert	Takım Kodu / *Tool Code*
		ADKT 150508 (Para DJT)	AEM90-AD1505D-D25-M12-L43-Z02-H AEM90-AD1505D-D32-M16-L43-Z03-H

Plato de Fresado para AKT150508

90°	AFM90-AD1505D	Uç / Insert	Takım Kodu / *Tool Code*
		ADKT 150508 (Para DJT)	AFM90-AD1505D-D050-A22-Z05-H AFM90-AD1505D-D063-A27-Z06-H AFM90-AD1505D-D080-A27-Z08-H AFM90-AD1505D-D100-A32-Z08-H AFM90-AD1505D-D125-B40-Z09

Portaherramientas de Fresado para AD..1505..

90°	AEM90-AD15	Uç / Insert	Takım Kodu / *Tool Code*
		AD.. 1505.. (Para ISCR)	AEM90-AD1505-D25-W25-L150-Z02 AEM90-AD1505-D30-W25-L150-Z03 AEM90-AD1505-D32-W32-L150-Z03

Plato de Fresado para AD..1505..

90°	AFM90-AD1505	Uç / Insert	Takım Kodu / *Tool Code*
		AD.. 1505.. (Para ISCR)	AFM90-AD1505-D040-A16-Z04-H AFM90-AD1505-D050-A22-Z05-H AFM90-AD1505-D063-A22-Z06-H AFM90-AD1505-D080-A27-Z07-H AFM90-AD1505-D100-A32-Z08-H AFM90-AD1505-D125-B40-Z09

Portaherramientas de Fresado para ADMX0702..

90°	AEM90-AD..	Uç / Insert	Takım Kodu / *Tool Code*
		ADMX 0702.. (Para PRMT)	AEM90-AD07-D10-C08-L90-Z02-H AEM90-AD07-D10-C10-L80-Z02-H AEM90-AD07-D12-C10-L80-Z03-H AEM90-AD07-D12-C12-L90-Z03-H AEM90-AD07-D16-C16-L110-Z04-H AEM90-AD07-D20-C20-L125-Z05-H AEM90-AD07-D25-C25-L140-Z06-H
		ADMX 11T3.. (Para PRMT)	AEM90-AD11-D16-C16-L135-Z02-H AEM90-AD11-D18-C16-L135-Z02-H AEM90-AD11-D18-C16-L160-Z02-H AEM90-AD11-D20-C20-L150-Z02-H AEM90-AD11-D20-C20-L150-Z03-H AEM90-AD11-D22-C20-L150-Z03-H AEM90-AD11-D22-C20-L200-Z03-H AEM90-AD11-D25-C25-L170-Z03-H AEM90-AD11-D25-C25-L170-Z04-H AEM90-AD11-D28-C25-L165-Z04-H AEM90-AD11-D28-C25-L200-Z04-H AEM90-AD11-D30-C25-L165-Z04-H AEM90-AD11-D30-C25-L200-Z04-H AEM90-AD11-D32-C32-L195-Z05-H

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Portaherramientas de Fresado

Portaherramientas de Fresado para ADMT

90°	AEM90-AD..	Inserto	Código
		ADMT 0803.. (Para WLTR)	AEM90-AD0803-D16-W16-L150-Z02 AEM90-AD0803-D17-W16-L150-Z02 AEM90-AD0803-D17-W16-L200-Z02 AEM90-AD0803-D20-W20-L150-Z03 AEM90-AD0803-D21-W20-L200-Z03
		ADMT 10T3.. (Para WLTR)	AEM90-AD10T3-D16-W16-L100-Z02-H AEM90-AD10T3-D16-W16-L150-Z02 AEM90-AD10T3-D16-C16-L200-Z02 AEM90-AD10T3-D17-W16-L150-Z02 AEM90-AD10T3-D17-W16-L200-Z02 AEM90-AD10T3-D20-W20-L70-Z03 AEM90-AD10T3-D20-W20-L100-Z03-H AEM90-AD10T3-D20-C20-L150-Z03 AEM90-AD10T3-D20-W20-L150-Z03 AEM90-AD10T3-D20-C20-L200-Z03 AEM90-AD10T3-D25-W25-L100-Z03-H AEM90-AD10T3-D25-W25-L100-Z04-H AEM90-AD10T3-D25-W25-L150-Z03
		ADMT 1204.. (Para WLTR)	AEM90-AD1204-D20-W20-L150-Z02 AEM90-AD1204-D21-C20-L150-Z02 AEM90-AD1204-D22-C20-L150-Z02 AEM90-AD1204-D25-W25-L150-Z03 AEM90-AD1204-D26-W25-L180-Z03 AEM90-AD1204-D32-W32-L150-Z04
		ADMT 1606.. (Para WLTR)	AEM90-AD1606-D25-W25-L150-Z02 AEM90-AD1606-D32-W32-L150-Z03

Plato de Fresado para ADMT10T3

90°	AFM90-AD10T3	Inserto	Código
		ADMT 10T3.. (Para WLTR)	AFM90-AD10T3-D040-A16-Z06-H AFM90-AD10T3-D050-A22-Z07-H

Plato de Fresado para 490R-1404

90°	AFM90-490R14	Inserto	Código
		490R-1404.. (Para SNDVK)	AFM90-490R14-D050-A22-Z04-H AFM90-490R14-D063-A22-Z05-H AFM90-490R14-D080-A27-Z07-H

Plato de Fresado para ANGX

90°	AFM90-AN..	Inserto	Código
		ANGX 1105..	AFM90-AN11-D040-A16-Z04-H
		ANGX 150608 (Para ZCC)	AFM90-AN1506-D050-A22-Z04-H AFM90-AN1506-D063-A22-Z05-H AFM90-AN1506-D080-A27-Z06-H AFM90-AN1506-D100-A32-Z08-H AFM90-AN1506-D125-B40-Z12 AFM90-AN1506-D160-C40-Z14

Portaherramientas de Fresado para ANGX110508

90°	AEM90-AN11	Inserto	Código
		ANGX 110508 (Para ZCC)	AEM90-AN11-D22-W20-L150-Z02 AEM90-AN11-D25-W25-L150-Z02 AEM90-AN11-D25-C25-L200-Z02 AEM90-AN11-D26-W25-L150-Z02 AEM90-AN11-D28-W25-L150-Z02 AEM90-AN11-D32-W32-L150-Z03 AEM90-AN11-D32-C32-L200-Z03 AEM90-AN11-D40-W32-L150-Z04

Portaherramientas de Fresado para ANKX

90°	AEM90-AN1207	Inserto	Código
		ANKX 1207.. (Para XTC-GSC)	AEM90-AN1207-D25-W25-L150-Z02 AEM90-AN1207-D32-W32-L150-Z03 AEM90-AN1207-D40-W32-L150-Z04

Plato de Fresado para ANKX1205

90°	AFM90-AN12	Inserto	Código
		ANKX 1205.. (Para ISCR)	AFM90-AN12-D040-A16-Z04-H AFM90-AN12-D050-A22-Z05-H AFM90-AN12-D063-A27-Z06-H

Portaherramientas de Fresado para AN.X1607

90°	AEM90-AN1607	Inserto	Código
		AN.X 1607.. (Para TGTC)	AEM90-AN1607-D32-C25-L150-Z02 AEM90-AN1607-D40-C32-L150-Z03

Plato de Fresado para AN.X1607

90°	AFM90-AN1607	Inserto	Código
		AN.X 1607.. (Para TGTC)	AFM90-AN1607-D050-A22-Z04-H AFM90-AN1607-D063-A22-Z06-H AFM90-AN1607-D080-A27-Z07-H AFM90-AN1607-D100-A32-Z08-H AFM90-AN1607-D125-B40-Z10

Portaherramientas de Fresado para A0..1236

90°	AEM90-A01236	Inserto	Código
		A0.. 1236.. (Para MTSBSH)	AEM90-A01236-D16-W16-L150-Z02 AEM90-A01236-D20-C20-L100-Z02 AEM90-A01236-D25-C25-L115-Z02 AEM90-A01236-D25-W25-L150-Z03 AEM90-A01236-D32-W32-L150-Z04

Portaherramientas Cabeza Roscada para A0..1236

90°	AEM90-A01236	Inserto	Código
		A0.. 1236.. (Para MTSBSH)	AEM90-A01236-D16-M08-L30-Z02 AEM90-A01236-D20-M10-L35-Z03

Plato de Fresado para A0..1236 - A01848

90°	AFM90-A0..	Inserto	Código
		A0.. 1236..	AFM90-A01236-D050-A22-Z05-H
		A0.. 1848.. (Para MTSBSH)	AFM90-A01848-D050-A22-Z05-H AFM90-A01848-D063-A22-Z06-H

Plato de Fresado para ANKX

90°	AFM90-AN..	Inserto	Código
		ANKX 1207.. (Para XTC-GSC)	AFM90-AN1207-D040-A16-Z04-H AFM90-AN1207-D050-A22-Z05-H AFM90-AN1207-D063-A22-Z06-H
		ANKX 1607.. (Para XTC-GSC)	AFM90-AN1607X-D050-A22-Z04-H AFM90-AN1607X-D063-A22-Z06-H AFM90-AN1607X-D080-A27-Z07-H

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Portaherramientas de Fresado

Portaherramientas de Fresado para APMT - AP..1003

90°	AEM90-AP..	Inserto	Código
		APMT 0602.. (Para KRLY)	AEM90-AP06-D10-C10-L120-Z02 AEM90-AP06-D12-C12-L120-Z02
		APMT 0903.. (Para KRLY)	AEM90-AP0903-D16-C16-L150-Z02 AEM90-AP0903-D17-C16-L150-Z02 AEM90-AP0903-D20-C20-L150-Z02 AEM90-AP0903-D21-C20-L150-Z02 AEM90-AP0903-D25-C25-L150-Z03
		APKT 09T3.. (Para TGTC)	AEM90-AP09-D16-C16-L100-Z02-H AEM90-AP09-D16-C15-L150-Z02 AEM90-AP09-D16-W16-L150-Z02-H AEM90-AP09-D16-C16-L200-Z02-H AEM90-AP09-D17-C16-L150-Z02 AEM90-AP09-D17-C16-L180-Z02-H AEM90-AP09-D20-C20-L150-Z03-H AEM90-AP09-D20-C20-L200-Z03-H AEM90-AP09-D20-C20-L250-Z02-H AEM90-AP09-D21-C20-L150-Z03 AEM90-AP09-D26-C25-L150-Z04
		AP.. 1003.. (Para ISO)	AEM90-AP10-D12-W16-L100-Z01-H AEM90-AP10-D12-W16-L150-Z01 AEM90-AP10-D14-W16-L100-Z01-H AEM90-AP10-D14-W16-L150-Z01 AEM90-AP10-D16-C16-L100-Z02-H AEM90-AP10-D16-W16-L100-Z02-H AEM90-AP10-D16-C16-L120-Z02-H AEM90-AP10-D16-C16-L150-Z02 AEM90-AP10-D16-C16-L150-Z02-H AEM90-AP10-D16-W16-L150-Z02 AEM90-AP10-D16-C16-L200-Z02 AEM90-AP10-D16-C16-L200-Z02-H AEM90-AP10-D16-C16-L250-Z02 AEM90-AP10-D18-W16-L100-Z02-H AEM90-AP10-D18-W16-L150-Z02 AEM90-AP10-D20-C20-L100-Z03-H AEM90-AP10-D20-W20-L100-Z03-H AEM90-AP10-D20-C20-L120-Z03-H AEM90-AP10-D20-C20-L150-Z03 AEM90-AP10-D20-C20-L150-Z03-H AEM90-AP10-D20-W20-L150-Z03 AEM90-AP10-D20-C20-L200-Z02 AEM90-AP10-D20-C20-L200-Z03-H AEM90-AP10-D20-C20-L250-Z02 AEM90-AP10-D20-C20-L250-Z02-H AEM90-AP10-D21-W20-L150-Z03 AEM90-AP10-D22-W20-L100-Z03-H AEM90-AP10-D22-W20-L150-Z03 AEM90-AP10-D23-W20-L150-Z03 AEM90-AP10-D24-W20-L150-Z03 AEM90-AP10-D25-W25-L100-Z04-H AEM90-AP10-D25-C25-L100-Z03-H AEM90-AP10-D25-W25-L100-Z03-H AEM90-AP10-D25-C25-L120-Z03-H AEM90-AP10-D25-C25-L150-Z03 AEM90-AP10-D25-W25-L150-Z03 AEM90-AP10-D25-C25-L200-Z02 AEM90-AP10-D25-C25-L200-Z03 AEM90-AP10-D25-C25-L250-Z02 AEM90-AP10-D30-C25-L100-Z04-H AEM90-AP10-D30-C25-L120-Z04-H AEM90-AP10-D30-C25-L150-Z04 AEM90-AP10-D32-C25-L100-Z04-H AEM90-AP10-D32-C25-L120-Z04-H AEM90-AP10-D32-C25-L150-Z04 AEM90-AP10-D32-W25-L150-Z04 AEM90-AP10-D32-C32-L130-Z05 AEM90-AP10-D32-W32-L150-Z04 AEM90-AP10-D40-W32-L150-Z05
		AP.. 1003.. (Para DJT)	AEM90-AP10D-D16-W16-L150-Z02 AEM90-AP10D-D20-W20-L150-Z03 AEM90-AP10D-D25-W20-L150-Z03
		AP.. 1003.. (Para B.OKE)	AEM90-AP10O-D16-C15-L150-Z02 AEM90-AP10O-D21-C20-L150-Z03 AEM90-AP10O-D26-C25-L150-Z04 AEM90-AP10O-D33-C32-L200-Z05
		AP.. 1003.. (Para SMTM)	AEM90-AP10S-D16-W16-L150-Z02 AEM90-AP10S-D20-W20-L150-Z02 AEM90-AP10S-D25-W25-L150-Z03



Portaherramientas de Fresado para AP..11T3 - APMT - APKT

90°	AEM90-AP..	Inserto	Código
		AP.. 11T3.. (Para ZCC)	AEM90-AP11-D16-C16-L150-Z02 AEM90-AP11-D16-C16-L150-Z02-H AEM90-AP11-D16-W16-L150-Z02 AEM90-AP11-D16-W16-L150-Z02-H AEM90-AP11-D16-C16-L200-Z02 AEM90-AP11-D17-C16-L150-Z02 AEM90-AP11-D17-C16-L200-Z02 AEM90-AP11-D20-C20-L150-Z03 AEM90-AP11-D20-W20-L150-Z03 AEM90-AP11-D20-W20-L150-Z03-H AEM90-AP11-D20-C20-L200-Z03 AEM90-AP11-D21-C20-L150-Z03 AEM90-AP11-D21-W20-L150-Z03 AEM90-AP11-D21-W20-L150-Z03-H AEM90-AP11-D21-C20-L200-Z03 AEM90-AP11-D25-C25-L150-Z03 AEM90-AP11-D25-W25-L150-Z03 AEM90-AP11-D25-W25-L150-Z03-H AEM90-AP11-D26-C25-L150-Z03 AEM90-AP11-D26-C24-L150-Z03 AEM90-AP11-D32-W25-L150-Z04 AEM90-AP11-D32-W32-L150-Z03-H AEM90-AP11-D32-W32-L150-Z04
		APMT 1135.. (Para ACHTK)	AEM90-AP1135A-D14-C16-L150-Z01 AEM90-AP1135A-D16-C16-L150-Z02 AEM90-AP1135A-D16-C16-L200-Z02 AEM90-AP1135A-D16-C16-L250-Z02 AEM90-AP1135A-D17-C16-L180-Z02 AEM90-AP1135A-D20-C20-L150-Z03 AEM90-AP1135A-D20-C20-L200-Z02 AEM90-AP1135A-D21-C20-L180-Z02 AEM90-AP1135A-D25-C25-L200-Z03 AEM90-AP1135A-D26-C25-L250-Z02 AEM90-AP1135A-D33-C32-L250-Z02
		APMT 1135.. (Para YG)	AEM90-AP1135Y-D16-W16-L150-Z02 AEM90-AP1135Y-D20-W20-L150-Z03 AEM90-AP1135Y-D25-W25-L150-Z03
		APMT 1135.. (Para B.OKE)	AEM90-AP110-D16-C15-L150-Z02 AEM90-AP110-D21-C20-L150-Z03 AEM90-AP110-D26-C25-L150-Z04 AEM90-AP110-D33-C32-L200-Z05
		APKT 1135.. (Para XTC-GSC)	AEM90-APK11G-D16-W16-L150-Z02 AEM90-APK11G-D20-W20-L150-Z03 AEM90-APK11G-D25-W25-L150-Z03
		AP.. 1135.. (Para XTC-GSC)	AEM90-AP1135-D16-W16-L110-Z02-H AEM90-AP1135-D16-W16-L150-Z02 AEM90-AP1135-D20-W20-L125-Z03-H AEM90-AP1135-D20-W20-L150-Z03 AEM90-AP1135-D25-W25-L125-Z04-H AEM90-AP1135-D25-W25-L200-Z04-H AEM90-AP1135-D32-W32-L125-Z05-H AEM90-AP1135-D32-W32-L200-Z04-H
		AP.. 1204.. (Para TGTC)	AEM90-AP1204-D20-C20-L150-Z02 AEM90-AP1204-D21-C20-L150-Z02 AEM90-AP1204-D21-C20-L200-Z02 AEM90-AP1204-D25-C25-L150-Z03 AEM90-AP1204-D26-C25-L250-Z02 AEM90-AP1204-D32-C25-L150-Z03
		AP.. 1604.. (Para ISO)	AEM90-AP16-D25-C20-L100-Z02 AEM90-AP16-D25-W25-L100-Z02-H AEM90-AP16-D25-W25-L150-Z02 AEM90-AP16-D25-C25-L250-Z02 AEM90-AP16-D28-W25-L100-Z03-H AEM90-AP16-D28-W25-L150-Z03 AEM90-AP16-D30-W25-L110-Z03-H AEM90-AP16-D30-W25-L150-Z02 AEM90-AP16-D30-W25-L150-Z03 AEM90-AP16-D32-W32-L110-Z03-H AEM90-AP16-D32-C32-L150-Z03 AEM90-AP16-D32-W25-L150-Z03 AEM90-AP16-D32-W32-L150-Z03 AEM90-AP16-D32-W32-L150-Z03-H AEM90-AP16-D32-C25-L200-Z03-H AEM90-AP16-D32-C32-L250-Z02 AEM90-AP16-D32-C32-L250-Z03



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Portaherramientas de Fresado

Portaherramientas de Fresado para AP..1604 - AP..1705

90°	AEM90-AP..	Inserto	Código
		AP.. 1604.. (Para ISO)	AEM90-AP16-D35-W32-L150-Z03 AEM90-AP16-D36-W32-L110-Z03-H AEM90-AP16-D36-W32-L150-Z03 AEM90-AP16-D40-W32-L110-Z04-H AEM90-AP16-D40-C32-L150-Z04 AEM90-AP16-D40-W32-L150-Z04 AEM90-AP16-D40-C32-L250-Z02 AEM90-AP16-D40-C32-L250-Z04
		AP.. 1604.. (Para DJT)	AEM90-AP16DJ-D25-W25-L150-Z02 AEM90-AP16DJ-D25-C25-L200-Z02 AEM90-AP16DJ-D32-W32-L150-Z03 AEM90-AP16DJ-D32-C32-L180-Z03 AEM90-AP16DJ-D32-C32-L200-Z03
		AP.. 1604.. (Para LMN)	AEM90-AP16L-D25-C25-L120-Z02-H AEM90-AP16L-D25-C25-L150-Z02 AEM90-AP16L-D25-C25-L200-Z02 AEM90-AP16L-D25-C25-L250-Z02 AEM90-AP16L-D32-C32-L120-Z03-H AEM90-AP16L-D32-C32-L150-Z03 AEM90-AP16L-D32-C32-L200-Z03 AEM90-AP16L-D32-C32-L250-Z03 AEM90-AP16L-D40-C32-L120-Z04-H AEM90-AP16L-D40-C32-L150-Z04 AEM90-AP16L-D40-C32-L200-Z04 AEM90-AP16L-D40-C32-L250-Z04
		AP.. 1604.. (Para PLBT)	AEM90-AP16P-D25-W25-L100-Z02-H AEM90-AP16P-D25-W25-L150-Z02 AEM90-AP16P-D32-W32-L150-Z03 AEM90-AP16P-D32-C32-L250-Z02 AEM90-AP16P-D40-W32-L150-Z04
		AP.. 1705.. (Para TGTC)	AEM90-AP1705-D25-C25-L120-Z02 AEM90-AP1705-D26-C25-L200-Z02 AEM90-AP1705-D26-C25-L250-Z02 AEM90-AP1705-D26-C25-L300-Z02 AEM90-AP1705-D28-W25-L075-Z02 AEM90-AP1705-D32-C25-L150-Z03 AEM90-AP1705-D33-C32-L250-Z03 AEM90-AP1705-D33-C32-L300-Z02

Portaherramientas Cabeza Roscada para AP..1003 - AP..11T3 - AP..1604

90°	AEM90-AP..	Inserto	Código
		AP.. 1003.. (Para ISO)	AEM90-AP10-D16-M08-L30-Z02-H AEM90-AP10-D20-M10-L30-Z03-H AEM90-AP10-D25-M12-L35-Z03-H AEM90-AP10-D32-M16-L35-Z04-H AEM90-AP10-D40-M16-L43-Z05-H AEM90-AP10-D42-M16-L43-Z05-H
		AP.. 1003.. (Para DJT)	AEM90-AP10D-D16-M08-L30-Z02-H AEM90-AP10D-D20-M10-L30-Z03-H AEM90-AP10D-D25-M12-L35-Z03-H
		AP.. 11T3.. (Para ZCC)	AEM90-AP11-D16-M08-L30-Z02-H AEM90-AP11-D20-M10-L30-Z03-H AEM90-AP11-D25-M12-L35-Z03-H AEM90-AP11-D32-M16-L35-Z04-H AEM90-AP11-D40-M16-L43-Z05-H
		AP.. 1604.. (Para ISO)	AEM90-AP16-D25-M12-L43-Z02-H AEM90-AP16-D32-M16-L43-Z03-H AEM90-AP16-D40-M16-L43-Z04-H AEM90-AP16-D42-M16-L43-Z04-H
		AP.. 1604.. (Para DJT)	AEM90-AP16D-D25-M12-L43-Z02-H AEM90-AP16D-D32-M16-L43-Z03-H AEM90-AP16D-D40-M16-L43-Z04-H
		AP.. 1604.. (Para LMNA)	AEM90-AP16L-D25-M12-L43-Z02-H AEM90-AP16L-D32-M16-L43-Z03-H AEM90-AP16L-D40-M16-L43-Z04-H

Portaherramientas de Fresado para AP..1003

90°	AHM90-AP10	Inserto	Código
		AP.. 1003.. (Para ISO)	AHM90-AP10-D20-W20-L087-Z0204 AHM90-AP10-D20-W20-L087-Z0206 AHM90-AP10-D25-W25-L105-Z0208-H AHM90-AP10-D32-W32-L115-Z0315-H AHM90-AP10-D40-W32-L130-Z0318-H

Plato de Fresado para AP..1604

75°	AFM75-AP16	Inserto	Código
		AP.. 1604.. (Para ISO)	AFM75-AP16-D063-A22-Z04-H AFM75-AP16-D080-A27-Z05-H AFM75-AP16-D100-A32-Z06-H AFM75-AP16-D125-B40-Z07

Plato de Fresado para AP..1003 - AP..1604

90°	AFM90-AP..	Inserto	Código
		AP.. 1003.. (Para ISO)	AFM90-AP10-D040-A16-Z05-H AFM90-AP10-D050-A22-Z06-H AFM90-AP10-D063-A22-Z07-H AFM90-AP10-D080-A27-Z08-H AFM90-AP10-D100-A32-Z09-H
		AP.. 1604.. (Para ISO)	AFM90-AP16-D040-A16-Z04-H AFM90-AP16-D050-A22-Z05-H AFM90-AP16-D052-A22-Z05-H AFM90-AP16-D063-A22-Z06-H AFM90-AP16-D080-A27-Z07-H AFM90-AP16-D100-A32-Z08-H AFM90-AP16-D125-B40-Z09 AFM90-AP16-D160-C40-Z10 AFM90-AP16-D200-C60-Z12
		AP.. 1604. (Para DJT)	AFM90-AP16DJ-D050-A22-Z05-H AFM90-AP16DJ-D063-A22-Z06-H AFM90-AP16DJ-D080-A27-Z07-H
		AP.. 1604.. (Para LMNA)	AFM90-AP16L-D050-A22-Z05-H AFM90-AP16L-D063-A22-Z06-H AFM90-AP16L-D080-A27-Z07-H
		AP.. 1604.. (Para PLBT)	AFM90-AP16P-D040-A16-Z04-H AFM90-AP16P-D050-A22-Z05-H AFM90-AP16P-D063-A22-Z06-H AFM90-AP16P-D080-A27-Z07-H AFM90-AP16P-D100-A32-Z08-H
		AP.. 1604.. (Para ACHTK)	AFM90-AP16A-D050-A22-Z05-H AFM90-AP16A-D063-A22-Z06-H AFM90-AP16A-D080-A27-Z07-H AFM90-AP16A-D100-A32-Z08-H AFM90-AP16A-D125-B40-Z09

Plato de Fresado para AP..1705

90°	AFM90-AP1705	Inserto	Código
		AP.. 1705.. (Para TGTC-LMNA)	AFM90-AP1705-D050-A22-Z05-H AFM90-AP1705-D063-A22-Z06-H AFM90-AP1705-D080-A27-Z07-H AFM90-AP1705-D100-A32-Z08-H

Portaherramientas Cabeza Roscada paraAX.T1235 - AX.T1705

90°	AEM90-AX..	Inserto	Código
		AX.T 1235.. (Para SMTM)	AEM90-AX1235-D16-M08-L30-Z02-H AEM90-AX1235-D20-M10-L30-Z03-H AEM90-AX1235-D25-M12-L35-Z04-H
		AX.T 1705.. (Para SMTM)	AEM90-AX1705-D25-M12-L43-Z02-H AEM90-AX1705-D32-M16-L43-Z02-H

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Portaherramientas de Fresado

Portaherramientas de Fresado para AX.T0602 - AX.T0903

90°	AEM90-AX..	Inserto	Código
		AX.T 0602.. (Para TGTC)	AEM90-AX0602-D10-C09-L120-Z02 AEM90-AX0602-D10-C10-L080-Z02 AEM90-AX0602-D10-C10-L120-Z02 AEM90-AX0602-D12-C11-L120-Z02 AEM90-AX0602-D12-C12-L080-Z02 AEM90-AX0602-D12-C12-L120-Z02 AEM90-AX0602-D14-C12-L120-Z03 AEM90-AX0602-D16-W16-L120-Z04-H AEM90-AX0602-D16-W16-L150-Z04-H AEM90-AX0602-D20-W20-L120-Z05-H AEM90-AX0602-D20-W20-L150-Z05-H
		AX.T 0903.. (Para TGTC)	AEM90-AX0903-D16-C16-L120-Z02 AEM90-AX0903-D16-C16-L180-Z02 AEM90-AX0903-D17-C16-L120-Z02 AEM90-AX0903-D17-C16-L180-Z02 AEM90-AX0903-D20-C20-L120-Z03 AEM90-AX0903-D20-C20-L200-Z02 AEM90-AX0903-D21-C20-L120-Z03 AEM90-AX0903-D21-C20-L200-Z02 AEM90-AX0903-D25-C25-L150-Z03 AEM90-AX0903-D25-C25-L250-Z02 AEM90-AX0903-D26-C25-L150-Z03

Portaherramientas de Fresado para AZGT1135

90°	AEM90-AZ11..	Inserto	Código
		AZGT 1135.. (Para ZCC)	AEM90-AZ11-D12-W16-L90-Z01 AEM90-AZ11-D16-C16-L200-Z02 AEM90-AZ11-D16-W15-L170-Z02 AEM90-AZ11-D16-W16-L100-Z02 AEM90-AZ11-D16-W16-L150-Z02 AEM90-AZ11-D17-C16-L150-Z02 AEM90-AZ11-D17-C16-L180-Z02 AEM90-AZ11-D17-W16-L100-Z02 AEM90-AZ11-D18-W16-L120-Z02 AEM90-AZ11-D20-C20-L200-Z03 AEM90-AZ11-D20-W19-L170-Z03 AEM90-AZ11-D20-W20-L110-Z02 AEM90-AZ11-D21-C20-L150-Z03 AEM90-AZ11-D21-C20-L180-Z03 AEM90-AZ11-D21-W20-L110-Z03 AEM90-AZ11-D22-C20-L150-Z02 AEM90-AZ11-D25-C24-L180-Z04 AEM90-AZ11-D25-W25-L110-Z04 AEM90-AZ11-D26-C25-L250-Z02 AEM90-AZ11-D26-W25-L120-Z03 AEM90-AZ11-D26-W25-L120-Z04 AEM90-AZ11-D28-C25-L180-Z03 AEM90-AZ11-D28-C25-L250-Z02 AEM90-AZ11-D33-W32-L130-Z04

Portaherramientas de Fresado para AX.T1235

90°	AEM90-AX..	Inserto	Código
		AX.T 1235.. (Para SMTM)	AEM90-AX1235-D16-C14-L120-Z02-H AEM90-AX1235-D16-C15-L145-Z02-H AEM90-AX1235-D16-C16-L100-Z02-H AEM90-AX1235-D16-C16-L140-Z02-H AEM90-AX1235-D16-C16-L145-Z02-H AEM90-AX1235-D16-C16-L150-Z02 AEM90-AX1235-D20-C19-L150-Z02-H AEM90-AX1235-D20-C20-L110-Z03-H AEM90-AX1235-D20-C20-L150-Z02 AEM90-AX1235-D20-C20-L150-Z02-H AEM90-AX1235-D20-C20-L150-Z03 AEM90-AX1235-D25-C20-L120-Z04-H AEM90-AX1235-D25-C20-L150-Z04-H AEM90-AX1235-D25-C24-L170-Z02-H AEM90-AX1235-D25-C25-L120-Z04-H AEM90-AX1235-D25-C25-L150-Z03 AEM90-AX1235-D25-C25-L170-Z02-H AEM90-AX1235-D25-W25-L100-Z04-H AEM90-AX1235-D32-C32-L130-Z05-H AEM90-AX1235-D32-C32-L180-Z02-H
		AX.T 1705.. (Para SMTM)	AEM90-AX1705-D25-C25-L150-Z02 AEM90-AX1705-D28-W25-L115-Z02-H AEM90-AX1705-D32-C32-L150-Z03 AEM90-AX1705-D32-C32-L180-Z02-H

Plato de Fresado para AX.T1235 - AX.T1705

90°	AFM90-AX1705	Inserto	Código
		AX.T 1235.. (Para SMTM)	AFM90-AX1235-D040-A16-Z06-H AFM90-AX1235-D050-A22-Z07-H AFM90-AX1235-D063-A22-Z08-H AFM90-AX1235-D080-A27-Z10-H
		AX.T 1705.. (Para SMTM)	AFM90-AX1705-D040-A16-Z04-H AFM90-AX1705-D050-A22-Z05-H AFM90-AX1705-D063-A22-Z06-H AFM90-AX1705-D080-A27-Z07-H AFM90-AX1705-D100-A32-Z08-H

Portaherramientas de Fresado para BDMT11T3

90°	AEM90-BD..	Inserto	Código
		BDMT 11T3.. (Para KYCR)	AEM90-BD11T3-D16-C15-L180-Z02 AEM90-BD11T3-D16-C16-L100-Z02-H AEM90-BD11T3-D16-W16-L100-Z02-H AEM90-BD11T3-D16-W16-L150-Z02 AEM90-BD11T3-D17-W16-L150-Z02 AEM90-BD11T3-D17-C16-L180-Z02 AEM90-BD11T3-D18-W16-L100-Z02 AEM90-BD11T3-D18-W16-L100-Z02-H AEM90-BD11T3-D20-W20-L100-Z02-H AEM90-BD11T3-D20-W20-L100-Z03-H AEM90-BD11T3-D20-C20-L110-Z03-H AEM90-BD11T3-D20-W20-L150-Z02 AEM90-BD11T3-D20-W20-L150-Z03 AEM90-BD11T3-D20-W20-L150-Z03-H AEM90-BD11T3-D21-W20-L150-Z03 AEM90-BD11T3-D21-C20-L200-Z02 AEM90-BD11T3-D22-W20-L090-Z02-H AEM90-BD11T3-D25-W25-L100-Z03-H AEM90-BD11T3-D25-C25-L120-Z03-H AEM90-BD11T3-D25-W25-L150-Z03 AEM90-BD11T3-D26-W25-L150-Z03 AEM90-BD11T3-D26-C25-L250-Z02 AEM90-BD11T3-D32-W32-L110-Z04-H AEM90-BD11T3-D32-C32-L130-Z04-H AEM90-BD11T3-D32-W32-L150-Z04 AEM90-BD11T3-D40-W32-L110-Z04-H
		BDMT 1704.. (Para KYCR)	AEM90-BD1704-D25-W25-L100-Z02-H AEM90-BD1704-D25-W25-L150-Z02 AEM90-BD1704-D32-W32-L110-Z03-H AEM90-BD1704-D32-W32-L150-Z03 AEM90-BD1704-D40-W32-L110-Z04-H AEM90-BD1704-D40-W32-L150-Z04

Plato de Fresado para BDMT11T3

90°	AFM90-BD11T3	Inserto	Código
		BDMT 11T3.. (Para KYCR)	AFM90-BD11T3-D040-A16-Z04-H AFM90-BD11T3-D050-A22-Z05-H AFM90-BD11T3-D063-A22-Z06-H

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Portaherramientas de Fresado

Plato de Fresado para BDMT1704

90°	AFM90-BD1704	Inserto	Código
		BDMT 1704.. (Para KYCR)	AFM90-BD1704-D050-A22-Z05-H AFM90-BD1704-D063-A22-Z06-H AFM90-BD1704-D080-A27-Z07-H

Portaherramientas de Fresado para LNMT0804 - T490LNMT1306

90°	AEM90-LN..	Inserto	Código
		LNMT 0804.. (Para ISCR)	AEM90-LN08-D16-W16-L100-Z02-H AEM90-LN08-D16-W16-L150-Z02 AEM90-LN08-D20-W20-L100-Z03-H AEM90-LN08-D25-W25-L100-Z03-H AEM90-LN08-D32-W32-L110-Z05-H
		T490 LNMT 1306.. (Para ISCR)	AEM90-LN1306-D32-C32-L110-Z03-H AEM90-LN1306-D32-W32-L150-Z03

Portaherramientas Cabeza Roscada para DC.T

90°	AEM90-DC..	Inserto	Código
		DC.T 0702. (Para ISO)	AEM90-DC07-D20-M10-L30-Z02-H AEM90-DC07-D25-M12-L35-Z03-H AEM90-DC07-D32-M16-L43-Z04-H AEM90-DC07-D40-M16-L43-Z05-H
		DC.T 11T3.. (Para ISO)	AEM90-DC11-D32-M16-L43-Z03-H-F AEM90-DC11-D40-M16-L43-Z03-H-F

Plato de Fresado para LNMT1106 - T490 LNMT1306 - LNMT1506 - T490-LNMT1607

90°	AFM90-LN..	Inserto	Código
		LNMT 1106.. (Para ISCR)	AFM90-LN1106-D050-A22-Z05 AFM90-LN1106-D063-A22-Z06 AFM90-LN1106-D080-A27-Z08 AFM90L-LN1106-D080-A27-Z08 AFM90-LN1106-D100-A32-Z09 AFM90L-LN1106-D100-A32-Z09 AFM90-LN1106-D125-B40-Z10
		T490 LNMT 1306.. (Para ISCR)	AFM90-LN1306-D040-A16-Z04-H AFM90-LN1306-D050-A22-Z05-H AFM90-LN1306-D063-A22-Z06-H AFM90-LN1306-D080-A27-Z07-H AFM90-LN1306-D100-A32-Z08-H
		LNMT 1506.. (Para ISCR)	AFM90L-LN1506-D040-A16-Z04 AFM90-LN1506-D040-A16-Z04 AFM90-LN1506-D050-A22-Z05 AFM90-LN1506-D063-A22-Z06 AFM90-LN1506-D080-A27-Z07
		T490 LNMT 1607.. (Para ISCR)	AFM90-LN1607-D050-A22-Z03-H AFM90-LN1607-D063-A22-Z04-H AFM90-LN1607-D080-A27-Z05-H AFM90-LN1607-D100-A32-Z06-H

Portaherramientas de Fresado para EDPT10T3 - EDPT 1404

90°	AEM90-ED..	Inserto	Código
		EDPT 10T3.. (Para KNMTL)	AEM90-ED10T3-D16-W16-L120-Z02 AEM90-ED10T3-D20-W20-L120-Z02
		EDPT 1404.. (Para KNMTL)	AEM90-ED1404-D20-W20-L150-Z02 AEM90-ED1404-D25-W25-L150-Z02 AEM90-ED1404-D30-C25-L150-Z03

Plato de Fresado para HN..0905

45°	AFM45-HN0905	Inserto	Código
		HN.. 0905.. (Para WDA)	AFM45-HN0905-D050-A22-Z05-H AFM45-HN0905-D063-A22-Z06-H AFM45-HN0905-D080-A27-Z07-H AFM45-HN0905-D125-B40-Z10 AFM45-HN0905-D160-C40-Z12 AFM45L-HN0905-D160-C40-Z12 AFM45-HN0905-D200-C60-Z16 AFM45L-HN0905-D200-C60-Z16

Portaherramientas de Fresado para LNMT 1106

90°	AEM90-LN1106	Inserto	Código
		LNMT 1106.. (Para XTC-GSC)	AEM90-LN1106-D25-W25-L150-Z03 AEM90-LN1106-D32-W32-L150-Z04 AEM90-LN1106-D40-W32-L150-Z05

Plato de Fresado para HN..0905

45°	AFM45C-HN0905	Inserto	Código
		HN.. 0905.. (Para WDA-KNMTL)	AFM45C-HN0905-D063-A22-Z07 AFM45C-HN0905-D080-A27-Z09 AFM45C-HN0905-D100-A32-Z11 AFM45C-HN0905-D125-B40-Z13 AFM45CL-HN0905-D125-B40-Z10 AFM45C-HN0905-D160-C40-Z15

Plato de Fresado para LNMT1506

90°	AFM90-LN1506X	Inserto	Código
		LNMT 1506.. (Para XTC-GSC)	AFM90-LN1506X-D063-A22-Z06 AFM90-LN1506X-D080-A27-Z07 AFM90-LN1506X-D100-A32-Z08

Plato de Fresado para LNHU1306

90°	AFM90-LN1306W	Inserto	Código
		LNHU 1306.. (Para WLTR)	AFM90-LN1306W-D050-A22-Z05-H AFM90-LN1306W-D063-A22-Z06-H AFM90-LN1306W-D080-A27-Z07-H

Plato de Fresado para LOGU1207

90°	AFM90-L01207	Inserto	Código
		LOGU 1207.. (Para MTSBSH)	AFM90-L01207-D040-A16-Z04-H AFM90-L01207-D050-A22-Z05-H AFM90-L01207-D063-A22-Z05-H

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Portaherramientas de Fresado

Plato de Fresado para NNMU2007

45°	AFM45-NN2007	Inserto	Código
		NNMU 2007.. (Para MTSBSH)	AFM45-NN2007-D100-A32-Z07-H AFM45-NN2007-D125-B40-Z08 AFM45-NN2007-D160-C40-Z10

Plato de Fresado para OD..0605

43°	AFM43C-OD0605	Inserto	Código
		OD.. 0605.. (Para WLTR-LMNA)	AFM43C-OD0605-D080-A27-Z06-H AFM43C-OD0605-D100-A32-Z07-H AFM43C-OD0605-D125-B40-Z08

Portaherramientas de Fresado para LNGU15T6

90°	AEM90-LN15T6	Inserto	Código
		LNGU 15T6.. (Para KNMTL)	AEM90-LN15T6-D25-W25-L150-Z02-H AEM90-LN15T6-D32-W32-L150-Z03-H AEM90-LN15T6-D40-W32-L150-Z03-H

Plato de Fresado para OF..05T3

43°	AFM43-OF05T3	Inserto	Código
		OF.. 05T3.. (Para ISO)	AFM43-OF05T3-D050-A22-Z05-H AFM43-OF05T3-D063-A22-Z06-H AFM43-OF05T3-D080-A27-Z07-H AFM43-OF05T3-D125-B40-Z09

Plato de Fresado para LNGU15T6

90°	AFM90-LN15T6	Inserto	Código
		LNGU 15T6.. (Para KNMTL)	AFM90-LN15T6-D050-A22-Z05-H AFM90-LN15T6-D063-A22-Z06-H AFM90-LN15T6-D080-A27-Z07-H

Plato de Fresado para OF..0704

43°	AFM43C-OF07	Inserto	Código
		OF.. 0704.. (Para ISO)	AFM43C-OF07-D063-A22-Z04 AFM43C-OF07-D080-A27-Z05 AFM43C-OF07-D100-A32-Z06 AFM43C-OF07-D125-B40-Z08 AFM43C-OF07-D160-C40-Z09

Plato de Fresado para LNGX1307

90°	AFM90-LN1307	Inserto	Código
		LNGX 1307.. (Para WLTR)	AFM90-LN1307-D050-A22-Z04-H AFM90-LN1307-D063-A22-Z06-H AFM90-LN1307-D080-A27-Z07-H AFM90-LN1307-D100-A32-Z08-H

Plato de Fresado para ON..0604

43°	AFM43-ON0604	Inserto	Código
		ON.. 0604.. (Para ZCC)	AFM43-ON0604-D050-A22-Z05-H AFM43-ON0604-D063-A22-Z06-H AFM43-ON0604-D080-A27-Z07-H AFM43-ON0604-D100-A32-Z08-H AFM43-ON0604-D125-B40-Z09

Plato de Fresado para LNKT1506

90°	AFM90-LN15Z	Inserto	Código
		LNKT 1506.. (Para ZCC)	AFM90-LN15Z-D050-A22-Z04 AFM90-LN15Z-D063-A22-Z05 AFM90-LN15Z-D080-A27-Z06 AFM90-LN15Z-D100-A32-Z07 AFM90-LN15Z-D125-B40-Z08

Plato de Fresado para ON..0806

45°	AFM45.-ON0806	Inserto	Código
new 		ON.. 0806.. (Para ISO)	AFM45-ON0806-D063-A22-Z05-H AFM45-ON0806-D063-A22-Z06-H AFM45-ON0806-D080-A27-Z06-H AFM45-ON0806-D080-A27-Z08-H AFM45-ON0806-D100-A32-Z07-H AFM45-ON0806-D100-A32-Z10-H AFM45-ON0806-D125-B40-Z08 AFM45-ON0806-D160-C40-Z10 AFM45-ON0806-D200-C60-Z12 AFM45-ON0806-D315-D60-Z16 AFM45C-ON0806-D080-A27-Z10 AFM45C-ON0806-D100-A32-Z14-H AFM45C-ON0806-D125-B40-Z18 AFM45C-ON0806-D160-C40-Z22

Plato de Fresado para OD..0504

43°	AFM43-OD0504	Inserto	Código
		OD.. 0504.. (Para WLTR)	AFM43-OD0504-D040-A16-Z04-H AFM43-OD0504-D050-A22-Z05-H AFM43-OD0504-D063-A22-Z06-H AFM43-OD0504-D080-A27-Z07-H AFM43-OD0504-D100-A32-Z08-H

Plato de Fresado para ONHX0606

44°	AFM44-ON0606	Inserto	Código
		ONHX 0606.. (Para KRLY)	AFM44-ON0606-D063-A22-Z06-H AFM44-ON0606-D080-A27-Z08-H AFM44-ON0606-D100-A32-Z10-H

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Portaherramientas de Fresado

Plato de Fresado para PNMU0905

66°	AFM66-PN0905	Inserto	Código
		PNMU 0905.. (Para KYCR)	AFM66-PN0905-D050-A22-Z05 AFM66-PN0905-D063-A22-Z06 AFM66-PN0905-D080-A27-Z08 AFM66-PN0905-D100-A32-Z10 AFM66-PN0905-D125-B40-Z12

Plato de Fresado para PNEG1105

67°	AFM67-PN1105	Inserto	Código
		PNEG 1105.. (Para ZCC)	AFM67-PN1105-D050-A22-Z05 AFM67-PN1105-D063-A22-Z06 AFM67-PN1105-D080-A27-Z08 AFM67-PN1105-D100-B32-Z10 AFM67-PN1105-D125-B40-Z12 AFM67-PN1105-D160-C40-Z14

Plato de Fresado para R290

90°	AFM90-R290.12	Inserto	Código
		R290-12T3.. (Para SNDVK)	AFM90-R290.12-D050-A22-Z04-H AFM90-R290.12-D063-A22-Z05-H AFM90-R290.12-D080-A27-Z07-H AFM90-R290.12-D100-A32-Z09-H AFM90-R290.12-D125-B40-Z11

Portaherramientas de Fresado para R390

90°	AEM90-R390..	Inserto	Código
		R390-11T3.. (Para SNDVK)	AEM90-R390.11-D16-W16-L100-Z02-H AEM90-R390.11-D16-W16-L150-Z02 AEM90-R390.11-D16-W16-L150-Z02-H AEM90-R390.11-D20-W20-L090-Z02-H AEM90-R390.11-D20-W20-L100-Z03-H AEM90-R390.11-D20-W20-L150-Z03 AEM90-R390.11-D20-W20-L150-Z03-H AEM90-R390.11-D20-C20-L150-Z03 AEM90-R390.11-D22-W20-L090-Z02-H AEM90-R390.11-D25-C20-L150-Z03 AEM90-R390.11-D25-W25-L100-Z03-H AEM90-R390.11-D25-W25-L150-Z03 AEM90-R390.11-D25-W25-L150-Z03-H AEM90-R390.11-D30-W25-L150-Z04-H AEM90-R390.11-D32-C25-L200-Z03 AEM90-R390.11-D32-W32-L150-Z05-H
		R390-1704.. (Para SNDVK)	AEM90-R390.17-D25-W25-L150-Z02 AEM90-R390.17-D25-W25-L150-Z02-H AEM90-R390.17-D30-W25-L150-Z03 AEM90-R390.17-D30-W25-L150-Z03-H AEM90-R390.17-D32-W32-L150-Z03-H
		R390-1806..	AEM90-R390.18-D32-C32-L150-Z03

Portaherramientas Cabeza Roscada para R390

90°	AEM90-R390.11	Inserto	Código
		R390-11T3 (Para SNDVK)	AEM90-R390.11-D16-M08-L30-Z02-H AEM90-R390.11-D20-M10-L30-Z03-H AEM90-R390.11-D25-M12-L35-Z03-H AEM90-R390.11-D32-M16-L43-Z04-H

Portaherramientas Cabeza Roscada para RT1003

90°	AEM90-RT10	Inserto	Código
		RT 1003.. (Para SFTY)	AEM90-RT10-D16-M08-L20-Z02-H AEM90-RT10-D20-M10-L25-Z03-H AEM90-RT10-D25-M12-L30-Z04-H AEM90-RT10-D32-M16-L43-Z05-H AEM90-RT10-D42-M16-L43-Z06-H

Plato de Fresado para R390

90°	AFM90-R390..	Inserto	Código
		R390-11T3.. (Para SNDVK)	AFM90-R390.11-D040-A16-Z05-H AFM90-R390.11-D050-A22-Z06-H AFM90-R390.11-D063-A22-Z07-H AFM90-R390.11-D080-A27-Z09-H
		R390-1704.. (Para SNDVK)	AFM90-R390.17-D040-A16-Z04-H AFM90-R390.17-D050-A22-Z05-H AFM90-R390.17-D063-A22-Z06-H AFM90-R390.17-D080-A27-Z07-H AFM90-R390.17-D100-A32-Z08-H AFM90-R390.17-D125-B40-Z09
		R390-1806.. (Para SNDVK)	AFM90-R390.18-D050-A22-Z04-H AFM90-R390.18-D063-A22-Z05-H AFM90-R390.18-D080-A27-Z06-H AFM90-R390.18-D100-A32-Z07-H AFM90-R390.18-D125-B40-Z08

Portaherramientas de Fresado para RT0702 - RT1003 - RT1304 - RT1604

90°	AEM90-RT..	Inserto	Código
		RT 0702.. (Para SFTY)	AEM90-RT07-D10-W10-L120-Z02 AEM90-RT07-D12-C12-L120-Z02 AEM90-RT07-D12-W12-L120-Z02 AEM90-RT07-D14-W12-L120-Z02
		RT 1003.. (Para SFTY)	AEM90-RT10-D16-C15-L160-Z02 AEM90-RT10-D16-W16-L120-Z02-H AEM90-RT10-D16-W16-L150-Z02 AEM90-RT10-D16-C16-L200-Z02 AEM90-RT10-D17-W16-L160-Z02 AEM90-RT10-D17-C16-L200-Z02 AEM90-RT10-D18-W16-L120-Z02-H AEM90-RT10-D20-C19-L200-Z03 AEM90-RT10-D20-C20-L110-Z03 AEM90-RT10-D20-W20-L120-Z03-H AEM90-RT10-D20-W20-L150-Z03 AEM90-RT10-D20-C20-L200-Z03 AEM90-RT10-D21-W20-L200-Z03 AEM90-RT10-D22-W20-L120-Z03-H AEM90-RT10-D22-C20-L150-Z03 AEM90-RT10-D22-C20-L200-Z03 AEM90-RT10-D25-W25-L120-Z04-H AEM90-RT10-D25-W25-L150-Z04 AEM90-RT10-D25-C25-L200-Z04 AEM90-RT10-D26-C25-L250-Z04 AEM90-RT10-D32-W32-L120-Z05-H AEM90-RT10-D32-W32-L150-Z05 AEM90-RT10-D32-C32-L200-Z05 AEM90-RT10-D33-C32-L250-Z04
		RT 1304.. (Para SFTY)	AEM90-RT13-D32-C32-L250-Z04
		RT 1604.. (Para SFTY)	AEM90-RT16-D25-W25-L120-Z02-H AEM90-RT16-D25-W25-L150-Z02 AEM90-RT16-D25-C25-L200-Z02 AEM90-RT16-D32-W32-L120-Z03-H AEM90-RT16-D32-W32-L150-Z03 AEM90-RT16-D32-C32-L200-Z03 AEM90-RT16-D32-C32-L250-Z03 AEM90-RT16-D32-C32-L270-Z03 AEM90-RT16-D40-W32-L120-Z04-H AEM90-RT16-D40-W32-L150-Z04 AEM90-RT16-D40-C32-L200-Z04

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Portaherramientas de Fresado

Plato de Fresado para RT1003

90°	AFM90-RT10	Inserto	Código
		RT1003 (Para) SFTY	AFM90-RT10-D040-A16-Z06-H AFM90-RT10-D050-A22-Z07-H AFM90-RT10-D063-A22-Z09-H

Plato de Fresado para SEMT13T3

45°	AFM45-SE13	Inserto	Código
		SEMT 13T3.. (Para SMTM-DJT)	AFM45-SE13-D050-A22-Z04-H AFM45-SE13-D063-A22-Z05-H AFM45-SE13-D080-A27-Z06-H AFM45S-SE13-D050-A22-Z05-H AFM45S-SE13-D063-A22-Z06-H AFM45S-SE13-D080-A27-Z08-H AFM45S-SE13-D100-A32-Z10-H AFM45S-SE13-D125-B40-Z12

Plato de Fresado para SAKU1706

45°	AFM45-SA1706	Inserto	Código
		SAKU 1706.. (Para CRTZT)	AFM45-SA1706-D080-A27-Z06-H AFM45-SA1706-D100-A32-Z07-H AFM45-SA1706-D125-B40-Z09

Portaherramientas de Fresado para SOMT0803

90°	AEM90-S0803	Inserto	Código
		SOMT 0803.. (Para SMTM)	AEM90-S00803-D20-C16-L110-Z02-H AEM90-S00803-D25-C20-L110-Z02-H AEM90-S00803-D32-C25-L120-Z03-H

Plato de Fresado para SD..09M4 - SD..1305

90°	AFM90-SD..	Inserto	Código
		SD.. 09M4.. (Para KRLY)	AFM90-SD09M4-D040-A16-Z04-H AFM90-SD09M4-D050-A22-Z05-H AFM90-SD09M4-D063-A22-Z06-H AFM90-SD09M4-D063-A27-Z06-H AFM90-SD09M4-D080-A27-Z07-H
		SD.. 1305.. (Para KRLY)	AFM90-SD1305-D050-A22-Z04-H AFM90-SD1305-D063-A22-Z05-H AFM90-SD1305-D080-A27-Z06-H AFM90-SD1305-D100-A32-Z07-H AFM90-SD1305-D125-B40-Z08 AFM90-SD1305-D160-C40-Z10

Plato de Fresado para SE..12T3 - R245 - SE..14M4

45°	AFM45-SE..	Inserto	Código
		SE.. 12T3..-R245-12T3.. (Para ZCC-SNDVK)	AFM45-SE12-D050-A22-Z04-H AFM45L-SE12-D050-A22-Z04-H AFM45-SE12-D063-A22-Z05-H AFM45L-SE12-D063-A22-Z05-H AFM45-SE12-D080-A27-Z06-H AFM45L-SE12-D080-A27-Z06-H AFM45-SE12-D100-A32-Z07-H AFM45-SE12-D125-B40-Z08 AFM45-SE12-D160-C40-Z10 AFM45L-SE12-D160-C40-Z10 AFM45-SE12-D200-C60-Z12
		SE.. 14M4.. (Para KRLY)	AFM45-SE14M4-D063-A22-Z04-H AFM45-SE14M4-D080-A27-Z05-H AFM45-SE14M4-D100-A32-Z05-H AFM45-SE14M4-D125-B40-Z06 AFM45-SE14M4-D160-C40-Z07

Plato de Fresado para SDMT1204

90°	AFM90S-SD1204	Inserto	Código
		SDMT 1204.. (Para DJT)	AFM90S-SD1204-D050-A22-Z04-H AFM90S-SD1204-D063-A22-Z05-H AFM90S-SD1204-D080-A27-Z06-H AFM90S-SD1204-D100-A32-Z08-H AFM90S-SD1204-D125-B40-Z10 AFM90S-SD1204-D160-C40-Z12

Plato de Fresado para SEET1203

90°	AFM90-SE12	Inserto	Código
		SEET 1203.. (Para ZCC)	AFM90-SE12-D050 A22 Z04-H AFM90-SE12-D063 A22 Z05-H AFM90-SE12-D080 A27 Z07-H AFM90-SE12-D100 A32 Z09-H AFM90-SE12-D125 B40 Z11

Portaherramientas de Fresado para SEET09T3

90°	AEM90-SE09	Inserto	Código
		SEET 09T3.. (Para ZCC)	AEM90-SE09-D25-C25-L120-Z03-H AEM90-SE09-D25-C25-L150-Z02 AEM90-SE09-D32-C32-L120-Z04-H AEM90-SE09-D32-C32-L150-Z03

Plato de Fresado para SEET09T3

90°	AFM90-SE09	Inserto	Código
		SEET 09T3.. (Para ZCC)	AFM90-SE09-D040-A16-Z04-H AFM90-SE09-D050-A22-Z05-H AFM90-SE09-D063-A22-Z06-H

Plato de Fresado para SN..1206

45°	AFM45C-SN1206	Inserto	Código
		SN.. 1206.. (Para KRLY-PLBT-BHLR)	AFM45C-SN1206-D050-A22-Z04-H AFM45C-SN1206-D050-A22-Z05-H AFM45CL-SN1206-D050-A22-Z05-H AFM45C-SN1206-D063-A22-Z06-H AFM45C-SN1206-D063-A22-Z07-H AFM45CL-SN1206-D063-A22-Z07-H AFM45C-SN1206-D080-A27-Z07-H AFM45C-SN1206-D080-A27-Z08-H AFM45CL-SN1206-D080-A27-Z08-H AFM45C-SN1206-D100-A32-Z08-H AFM45C-SN1206-D100-A32-Z10-H AFM45CL-SN1206-D100-A32-Z10-H AFM45C-SN1206-D125-B40-Z11 AFM45CL-SN1206-D125-B40-Z11 AFM45C-SN1206-D160-C40-Z12 AFM45C-SN1206-D200-C60-Z14 AFM45CL-SN1206-D200-C60-Z14

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Portaherramientas de Fresado

Plato de Fresado para SN..12

45°	AFM45C-SN..	Inserto	Código
		SN.. 12.... (Para WLTR-LMN-ACHTK)	AFM45C-SN12..-D050-A22-Z04-H AFM45C-SN12..-D050-A22-Z05-H AFM45C-SN12..-D063-A22-Z06-H AFM45C-SN12..-D063-A22-Z07-H AFM45CL-SN12..-D063-A22-Z07-H AFM45C-SN12..-D080-A27-Z07-H AFM45C-SN12..-D080-A27-Z08-H AFM45CL-SN12..-D080-A27-Z08-H AFM45C-SN12..-D100-A32-Z08-H AFM45C-SN12..-D100-A32-Z10-H AFM45CL-SN12..-D100-A32-Z10-H AFM45C-SN12..-D125-B40-Z11 AFM45CL-SN12..-D125-B40-Z11 AFM45C-SN12..-D160-C40-Z12 AFM45C-SN12..-D200-C60-Z14 AFM45CL-SN12..-D200-C60-Z14

Plato de Fresado para SNEG1205

88°	AFM88C-SN12Z	Inserto	Código
		SNEG 1205.. (Para ZCC)	AFM88C-SN12Z-D063-A22-Z06-H AFM88C-SN12Z-D080-A27-Z07-H

Plato de Fresado para SPMT - XPMT - QPMR - QPMT

90°	AFM90-SP1004	Inserto	Código
		SPMT 1004.. XPMT 1004.. QPMR 1004.. QPMT 1004.. (Para ISCR)	AFM90-SP1004-D040-A16-Z04-H AFM90-SP1004-D050-A22-Z04-H AFM90-SP1004-D050-A22-Z06-H AFM90-SP1004-D063-A22-Z05-H AFM90-SP1004-D080-A27-Z07-H AFM90-SP1004-D100-A32-Z08-H

Plato de Fresado para SNMU1305

88°	AFM88-SN1305	Inserto	Código
		SNMU 1305.. (Para KYCR)	AFM88-SN1305-D050-A22-Z04 AFM88-SN1305-D050-A22-Z05 AFM88-SN1305-D063-A22-Z05 AFM88-SN1305-D063-A22-Z07 AFM88-SN1305-D080-A27-Z06 AFM88-SN1305-D080-A27-Z09 AFM88-SN1305-D100-A32-Z07 AFM88-SN1305-D100-A32-Z11 AFM88-SN1305-D125-B40-Z13

Portaherramientas de Fresado para SPGT

90°	AEM90-SPGT	Inserto	Código
		SPGT 0602.. (Para ZCC)	AEM90-SPGT0602-D16-W16-L150-Z02
		SPGT 07T3.. (Para ZCC)	AEM90-SPGT07T3-D20-W20-L150-Z03 AEM90-SPGT07T3-D25-W25-L150-Z03
		SPGT 0904.. (Para ZCC)	AEM90-SPGT0904-D30-W32-L150-Z03

Plato de Fresado para SNCN1204

88°	AFM88C-SN1204	Inserto	Código
new		SNCN 1204.. (Para UNIN-NT.-KYCR)	AFM88C-SN1204-D050-A22-Z05 AFM88C-SN1204-D063-A22-Z06 AFM88C-SN1204-D080-A27-Z07 AFM88C-SN1204-D100-A32-Z08 AFM88C-SN1204-D125-B40-Z11

Plato de Fresado para SPKN1203

75°	AFM75C-SP12	Inserto	Código
		SPKN 1203.. (Para ISO)	AFM75C-SP12-D050-A22-Z04 AFM75C-SP12-D063-A22-Z05 AFM75C-SP12-D080-A27-Z06 AFM75C-SP12-D100-A32-Z07 AFM75C-SP12-D125-B40-Z08 AFM75C-SP12-D160-C40-Z09 AFM75C-SP12-D200-C60-Z12

Plato de Fresado para SN..1206 - SN..12..

88°	AFM88C-SN1206	Inserto	Código
		SN.. 1206.. (Para ISO)	AFM88C-SN1206-D063-A22-Z06-H AFM88C-SN1206-D080-A27-Z07-H AFM88C-SN1206-D100-A32-Z09-H
		SN.. 12.. (Para ISO)	AFM88C-SN12..-D063-A22-Z06-H AFM88C-SN12..-D080-A27-Z07-H AFM88C-SN12..-D100-A32-Z09-H

Plato de Fresado para SNGX1306

88°	AFM88-SN1306	Inserto	Código
		SNGX 1306.. (Para TGTC)	AFM88-SN1306-D050-A22-Z05-H AFM88-SN1306-D063-A22-Z06-H AFM88-SN1306-D080-A27-Z07-H

Plato de Fresado para SNEG1205

45°	AFM45C-SN12Z	Inserto	Código
		SNEG 1205.. (Para ZCC)	AFM45C-SN12Z-D050-A22-Z05-H AFM45C-SN12Z-D063-A22-Z06-H AFM45C-SN12Z-D080-A27-Z07-H AFM45C-SN12Z-D100-A32-Z09-H AFM45C-SN12Z-D125-B40-Z11 AFM45C-SN12Z-D160-C40-Z12 AFM45C-SN12Z-D200-C60-Z14

Plato de Fresado para SNMU1305 - OXMT0705

89°	AFM89-SN1305I	Inserto	Código
		SNMU 1305.. SNMU 1305.. OXMT 0705.. (Para ISCR)	AFM89-SN1305I-D040-A16-Z04-H AFM89-SN1305I-D050-A22-Z05-H AFM89-SN1305I-D063-A22-Z06-H AFM89-SN1305I-D063-A22-Z07-H AFM89-SN1305I-D080-A27-Z08-H AFM89-SN1305I-D100-A32-Z10-H

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Portaherramientas de Fresado

Portaherramientas de Fresado para TNGX1004

90°	AEM90-TNG10	Inserto	Código
		TNGX 1004.. (Para PRMT)	AEM90-TNG10-D20-C20-L125-Z02-H AEM90-TNG10-D20-C20-L125-Z03-H AEM90-TNG10-D20-C20-L150-Z03-H AEM90-TNG10-D25-C25-L150-Z03-H AEM90-TNG10-D25-C25-L150-Z04-H AEM90-TNG10-D25-C25-L170-Z04-H AEM90-TNG10-D32-C32-L170-Z04-H AEM90-TNG10-D32-C32-L170-Z05-H

Plato de Fresado para TN.X2207

90°	AFM90-TN2207	Inserto	Código
		TN.X 2207.. (Para TGTC)	AFM90-TN2207-D063-A22-Z04-H AFM90-TN2207-D080-A27-Z05-H AFM90-TN2207-D100-B32-Z06 AFM90-TN2207-D125-B40-Z08

Plato de Fresado para TP..1603 - TP..2204

90°	AFM90C-TP..	Inserto	Código
		TP.. 1603 (Para ISO)	AFM90C-TP16-D050-A22-Z04 AFM90C-TP16-D063-A22-Z06 AFM90C-TP16-D080-A27-Z07 AFM90C-TP16-D100-A32-Z08 AFM90C-TP16-D125-B40-Z08
		TP.. 2204 (Para ISO)	AFM90C-TP22-D063-A22-Z05 AFM90C-TP22-D080-A27-Z06 AFM90C-TP22-D100-A32-Z07 AFM90C-TP22-D125-B40-Z08 AFM90C-TP22-D160-C40-Z09 AFM90C-TP22-D200-C60-Z12 AFM90C-TP22-D250-C60-Z15 AFM90C-TP22-D315-D60-Z18

Plato de Fresado para WNHU0604 - WNHU0806

90°	AFM90-WN..	Inserto	Código
		WNHU 0604.. (Para ZCC)	AFM90-WN0604Z-D040-A16-Z04-H AFM90-WN0604Z-D050-A22-Z05-H AFM90-WN0604Z-D063-A22-Z06-H AFM90-WN0604Z-D080-A27-Z07-H AFM90-WN0604Z-D100-A32-Z09-H
		WNHU 0806.. (Para ZCC)	AFM90-WN0806Z-D050-A22-Z04-H AFM90-WN0806Z-D063-A22-Z05-H AFM90-WN0806Z-D080-A27-Z06-H AFM90-WN0806Z-D100-A32-Z08-H AFM90-WN0806Z-D125-B40-Z10 AFM90-WN0806Z-D160-C40-Z12

Plato de Fresado para TPKT2205

90°	AFM90-TP2205	Inserto	Código
		TPKT 2205.. (Para TGTC)	AFM90-TP2205-D063-A22-Z04 AFM90-TP2205-D080-A27-Z06 AFM90-TP2205-D100-A32-Z07 AFM90-TP2205-D125-B40-Z08 AFM90-TP2205-D160-C40-Z09 AFM90-TP2205-D200-C60-Z12

Portaherramientas de Fresado para XCKX13T3

90°	AEM90-XC13	Inserto	Código
		XCKX 13T3.. (Para SC)	AEM90-XC13-D20-W20-L150-Z02 AEM90-XC13-D25-W25-L150-Z03 AEM90-XC13-D32-W32-L150-Z04

Plato de Fresado para WNMX0806

90°	AFM90-WN0806	Inserto	Código
		WNMX 080608 (Para KYCR-JD)	AFM90-WN0806-D050-A16-Z04-H AFM90-WN0806-D063-A22-Z05-H AFM90-WN0806-D080-A27-Z07-H

Portaherramientas Cabeza Roscada para XDHW0206 - XDHW0310

95°	AEM95-XD..	Inserto	Código
		XDHW 0206.. (Para DJT)	AEM95-XD0206-D16-M08-L23-Z02-H AEM95-XD0206-D16-M08-L23-Z02-H-F AEM95-XD0206-D20-M10-L30-Z03-H AEM95-XD0206-D20-M10-L30-Z03-H-F AEM95-XD0206-D25-M12-L35-Z03-H AEM95-XD0206-D25-M12-L35-Z03-H-F
		XDHW 0310.. (Para DJT)	AEM95C-XD0310-D35-M16-L43-Z03-H AEM95C-XD0310-D35-M16-L43-Z03-H-F AEM95C-XD0310-D42-M16-L43-Z04-H AEM95C-XD0310-D42-M16-L43-Z04-H-F

Portaherramientas Cabeza Roscada para WNHU0604

90°	AEM90-WN0604Z	Inserto	Código
		WNHU 0604.. (Para ZCC)	AEM90-WN0604Z-D25-M12-L35-Z02-H AEM90-WN0604Z-D32-M16-L43-Z03-H AEM90-WN0604Z-D40-M16-L43-Z04-H

Portaherramientas de Fresado para XNEX0403 - XNEX0806

90°	AEM90-XN..	Inserto	Código
new		XNEX 0403.. (Para SC)	AEM90-XN0403-D16-C16-L100-Z01-H AEM90-XN0403-D22-C20-L110-Z03-H
		XNEX 0806.. (Para SC)	AEM90-XN0806-D32-C32-L110-Z02-H

Portaherramientas de Fresado para WNHU0604

90°	AEM90-WN0604Z	Inserto	Código
		WNHU 0604.. (Para ZCC)	AEM90-WN0604Z-D25-W25-L150-Z02-H AEM90-WN0604Z-D32-W32-L150-Z03-H AEM90-WN0604Z-D40-W32-L150-Z04-H

Plato de Fresado para XNEX0403 - XNEX0806

90°	AFM90-XN..	Inserto	Código
		XNEX 0403..	AFM90-XN0403-D040-A16-Z05-H
		XNEX 0806.. (Para SC)	AFM90-XN0806-D050-A22-Z04-H AFM90-XN0806-D063-A22-Z05-H AFM90-XN0806-D080-A27-Z07-H AFM90-XN0806-D100-A32-Z08-H

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Portaherramientas de Fresado

Portaherramientas de Fresado para XD.T11T3

90°	AEM90-XD11T3	Inserto	Código
		XD.T 11T3.. (Para CRTZT)	AEM90-XD11T3-D16-W16-L150-Z02 AEM90-XD11T3-D17-C16-L150-Z02 AEM90-XD11T3-D20-W20-L150-Z03 AEM90-XD11T3-D21-C20-L080-Z03-H AEM90-XD11T3-D21-C20-L150-Z03 AEM90-XD11T3-D25-W25-L150-Z04 AEM90-XD11T3-D30-W25-L120-Z04 AEM90-XD11T3-D32-W32-L150-Z04 AEM90-XD11T3-D33-C20-L080-Z04-H

Plato de Fresado para XNMU0806

45°	AFM45C-XN0806	Inserto	Código
		XNMU 0806.. (Para DJT)	AFM45C-XN0806-D063-A22-Z05 AFM45C-XN0806-D080-A27-Z06 AFM45C-XN0806-D100-A32-Z08 AFM45C-XN0806-D125-B40-Z08 AFM45C-XN0806-D160-C40-Z10 AFM45C-XN0806-D200-C60-Z12

Portaherramientas de Fresado para XO..0602 - XO..0903 - XO..1204

90°	AEM90-XO..	Inserto	Código
		XO.. 0602.. (Para SC)	AEM90-X006-D10-C12-L120-Z02 AEM90-X006-D12-C12-L120-Z02
		XO.. 0903.. (Para SC)	AEM90-X009-D16-W16-L150-Z02 AEM90-X009-D20-W20-L150-Z03
		XO.. 1204.. (Para SC)	AEM90-X012-D20-W20-L150-Z02 AEM90-X012-D20-C20-L200-Z02 AEM90-X012-D22-W20-L150-Z02 AEM90-X012-D25-W25-L150-Z03 AEM90-X012-D25-C25-L200-Z03 AEM90-X012-D32-C25-L150-Z04 AEM90-X012-D32-W32-L150-Z04 AEM90-X012-D32-C32-L250-Z04

Plato de Fresado para XO..1204

75°	AFM75-X012	Inserto	Código
		XO.. 1204.. (Para SC)	AFM75-X012-D050-A22-Z04-H AFM75-X012-D063-A22-Z05-H AFM75-X012-D080-A27-Z06-H

Plato de Fresado para XO..1204

90°	AFM90-X012	Inserto	Código
		XO.. 1204.. (Para SC)	AFM90-X012-D040-A16-Z05-H AFM90-X012-D050-A22-Z07-H AFM90-X012-D063-A22-Z08-H AFM90-X012-D080-A27-Z10-H AFM90-X012-D100-A32-Z12-H

Plato de Fresado para SMTM - QP...1204

-°	AFMR-QP..	Inserto	Código
		(Para SMTM)	AFMR-QP10T3-D040-A16-Z04-H AFMR-QP10T3-D050-A22-Z05-H AFMR-QP10T3-D063-A22-Z06-H
		QP.. 1204. (Para SMTM)	AFMR-QP1204-D050-A22-Z04-H AFMR-QP1204-D063-A22-Z05-H

Plato de Fresado para SDMW0806

42°	AFM42C-XD0806	Inserto	Código
		XDMW 0806.. (Para DJT)	AFM42C-XD0806-D063-A27-Z04-H AFM42C-XD0806-D080-A27-Z05-H AFM42C-XD0806-D100-A32-Z06-H AFM42C-XD0806-D125-B40-Z07 AFM42C-XD0806-D160-C40-Z08 AFM42C-XD0806-D200-C60-Z09

Plato de Fresado para XNMU0906

45°	AFM45-XN0906	Inserto	Código
		XNMU 0906.. (Para TGTC)	AFM45-XN0906-D063-A22-Z06-H AFM45-XN0906-D080-A27-Z06-H AFM45-XN0906-D100-A32-Z07-H AFM45-XN0906-D125-B40-Z08

Portaherramientas de Fresado para ZPMT13T3

90°	AEM90-ZP13T3	Inserto	Código
		ZPMT 13T3.. (Para DJT)	AEM90-ZP13T3-D26-C25-L200-Z02 AEM90-ZP13T3-D26-C25-L200-Z03 AEM90-ZP13T3-D26-C25-L250-Z02 AEM90-ZP13T3-D33-C32-L200-Z03 AEM90-ZP13T3-D33-C32-L250-Z03

Portaherramientas de Fresado para ZCMT100308R

90°	AEM90-ZC1003	Inserto	Código
		ZCMT 100308R (Para DJT)	AEM90-ZC1003-D16-C14-L150-Z02 AEM90-ZC1003-D16-C14-L200-Z02 AEM90-ZC1003-D16-C15-L150-Z02 AEM90-ZC1003-D16-C16-L150-Z02 AEM90-ZC1003-D17-C16-L150-Z02 AEM90-ZC1003-D17-C16-L200-Z02 AEM90-ZC1003-D20-C18-L150-Z03 AEM90-ZC1003-D20-C18-L200-Z02 AEM90-ZC1003-D20-C20-L150-Z03 AEM90-ZC1003-D20-C18-L200-Z03 AEM90-ZC1003-D21-C20-L150-Z02 AEM90-ZC1003-D21-C20-L150-Z03 AEM90-ZC1003-D21-C20-L200-Z03 AEM90-ZC1003-D25-C20-L150-Z03 AEM90-ZC1003-D25-C20-L200-Z03 AEM90-ZC1003-D25-C25-L150-Z03 AEM90-ZC1003-D26-C25-L170-Z03 AEM90-ZC1003-D26-C25-L200-Z03 AEM90-ZC1003-D32-C25-L180-Z04 AEM90-ZC1003-D33-C32-L200-Z04

Portaherramientas de Fresado para QP..10T3 - QP..1204

-°	AEMR-QP..	Inserto	Código
		QP.. 10T3.. (Para SMTM)	AEMR-QP10T3-D20-C20-L150-Z01-H AEMR-QP10T3-D25-C25-L120-Z02-H AEMR-QP10T3-D25-C25-L150-Z02-H AEMR-QP10T3-D25-C25-L170-Z02 AEMR-QP10T3-D32-C32-L150-Z03-H AEMR-QP10T3-D32-C32-L170-Z03
		QP.. 1204.. (Para SMTM)	AEMR-QP1204-D25-C25-L150-Z02-H

Portaherramientas Cabeza Roscada para QP..10T3 - SMTM

-°	AEMR-QP10T3	Inserto	Código
		QP10T3.... (Para SMTM)	AEMR-QP10T3-D25-M12-L35-Z02-H AEMR-QP10T3-D32-M16-L43-Z03-H

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Portaherramientas de Fresado

Portaherramientas Cabeza Roscada para RC..10T3



-°	AEMR-RC10T3	Inserto	Código
		RC.. 10T3.. (Para ZCC)	AEMR-RC10T3-D25-M12-L35-Z03-H AEMR-RC10T3-D32-M16-L43-Z04-H AEMR-RC10T3-D40-M16-L43-Z05-H

Plato de Fresado para RC..1204



-°	AFMR-RC1204	Inserto	Código
		RC.. 1204.. (Para SNDVK)	AFMR-RC1204-D040-A16-Z04-H AFMR-RC1204-D050-A22-Z05-H AFMR-RC1204-D052-A22-Z05-H AFMR-RC1204-D063-A22-Z06-H AFMR-RC1204-D063-A27-Z06-H AFMR-RC1204-D080-A27-Z07-H

Plato de Fresado para RC10T3



-°	AFMR-RC10T3	Inserto	Código
		RC.. 10T3.. (Para ZCC)	AFMR-RC10T3-D040-A16-Z04-H AFMR-RC10T3-D050-A22-Z05-H AFMR-RC10T3-D063-A22-Z06-H

Portaherramientas de Fresado para RD...



-°	AEMRC-RD..	Inserto	Código
		RD.. 0501.. (Para ISO)	AEMR-RD0501-D08-W10-L100-Z01-H AEMR-RD0501-D10-W12-L100-Z02-H AEMR-RD0501-D12-W12-L120-Z02-H
		RD.. 08T2.. (Para ISO)	AEMR-RD08T2-D16-W16-L150-Z02 AEMR-RD08T2-D20-W20-L150-Z02
		RD.. 0803.. (Para ISO)	AEMR-RD0803-D16-W16-L150-Z02 AEMR-RD0803-D16-C20-L200-Z02 AEMR-RD0803-D20-W20-L150-Z03
		RD.. 1003.. (For ISO)	AEMRC-RD1003-D20-W20-L150-Z02 AEMRC-RD1003-D20-C20-L160-Z02 AEMRC-RD1003-D20-C20-L250-Z02 AEMRC-RD1003-D21-C20-L160-Z02 AEMRC-RD1003-D25-W25-L150-Z02 AEMRC-RD1003-D25-C25-L160-Z02 AEMRC-RD1003-D25-W25-L200-Z02 AEMRC-RD1003-D25-C25-L200-Z02 AEMRC-RD1003-D25-C25-L250-Z02 AEMRC-RD1003-D26-C25-L160-Z02 AEMRC-RD1003-D32-W32-L150-Z03 AEMRC-RD1003-D32-C32-L250-Z02 AEMRC-RD1003-D33-C32-L160-Z03 AEMRC-RD1003-D40-W32-L150-Z04 AEMRC-RD1003-D40-C32-L250-Z02
		RD.. 10T3.. (Para ISO)	AEMRC-RD10T3-D20-C20-L150-Z02 AEMRC-RD10T3-D20-W20-L150-Z02 AEMRC-RD10T3-D25-C25-L150-Z02 AEMRC-RD10T3-D25-W25-L150-Z02 AEMRC-RD10T3-D32-W32-L150-Z03
		RD.. 12T3.. (Para ISO)	AEMRC-RD12T3-D25-W25-L150-Z02 AEMRC-RD12T3-D25-W25-L200-Z02 AEMRC-RD12T3-D25-C25-L250-Z02 AEMRC-RD12T3-D25-C25-L300-Z02 AEMRC-RD12T3-D32-W32-L150-Z03 AEMRC-RD12T3-D32-C32-L250-Z02 AEMRC-RD12T3-D40-W32-L150-Z04 AEMRC-RD12T3-D40-C32-L250-Z02
		RD.. 1204.. (Para ISO)	AEMRC-RD1204-D32-C32-L160-Z03 AEMRC-RD1204-D32-W32-L160-Z03 AEMRC-RD1204-D33-C32-L160-Z03
		RD.. 1604.. (Para ISO)	AEMRC-RD1604-D40-W32-L150-Z02

Portaherramientas Cabeza Roscada para RD...





-°	AEMR-RD..	Inserto	Código
		RD.. 0702 (Para ISO)	AEMR-RD0702-D15-M08-L23-Z02-H AEMR-RD0702-D16-M08-L23-Z02-H AEMR-RD0702-D20-M10-L30-Z04-H AEMR-RD0702-D25-M12-L35-Z05-H AEMR-RD0702-D30-M16-L42-Z05-H AEMR-RD0702-D32-M16-L43-Z05-H AEMR-RD0702-D35-M16-L42-Z06-H AEMR-RD0702-D42-M16-L43-Z05-H AEMR-RD0702-D42-M16-L43-Z07-H AEMR-RD08T2-D16-M08-L23-Z02-H
		RD.. 08T2 (Para ISO)	AEMR-RD08T2-D16-M10-L23-Z02-H AEMR-RD08T2-D20-M10-L30-Z03-H AEMR-RD08T2-D25-M12-L35-Z04-H
		RD.. 0803 (Para ISO)	AEMR-RD0803-D16-M08-L23-Z02-H AEMR-RD0803-D20-M10-L30-Z03-H AEMR-RD0803-D25-M12-L35-Z04-H
		RD.. 1003 (Para ISO)	AEMR-RD1003-D20-M10-L30-Z02-H AEMR-RD1003-D25-M12-L35-Z02-H AEMR-RD1003-D25-M12-L35-Z03-H AEMR-RD1003-D30-M16-L43-Z04-H AEMR-RD1003-D32-M16-L43-Z04-H AEMR-RD1003-D35-M16-L43-Z04-H AEMR-RD1003-D40-M16-L43-Z05-H AEMR-RD1003-D42-M16-L43-Z05-H
		RD.. 1004 (Para ISO)	AEMR-RD1004-D25-M12-L35-Z03-H AEMR-RD1004-D32-M16-L43-Z04-H
		RD.. 12T3 (Para ISO)	AEMR-RD12T3-D24-M12-L35-Z02-H AEMR-RD12T3-D25-M12-L35-Z02-H AEMR-RD12T3-D32-M16-L43-Z03-H AEMR-RD12T3-D35-M16-L43-Z03-H AEMR-RD12T3-D35-M16-L43-Z04-H AEMR-RD12T3-D40-M16-L43-Z04-H AEMR-RD12T3-D42-M16-L43-Z05-H
		RD.. 1204 (Para ISO)	AEMR-RD1204-D32-M16-L43-Z03-H AEMR-RD1204-D42-M16-L43-Z04-H
		RD.. 1604 (Para ISO)	AEMR-RD1604-D32-M16-L43-Z02-H AEMR-RD1604-D40-M16-L43-Z02-H AEMR-RD1604-D42-M16-L43-Z03-H

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Portaherramientas de Fresado

Plato de Fresado para RD...

-°	AFMRC-RD..	Inserto	Código
		RD..0702.. (Para ISO)	AFMR-RD0702-D050-A22-Z06-H
		RD..0803.. (Para ISO)	AFMR-RD0803-D050-A22-Z05-H
		RD..1003.. (Para ISO)	AFMRC-RD1003-D040-A16-Z04-H AFMRC-RD1003-D050-A22-Z05-H AFMRC-RD1003-D052-A22-Z05 AFMRC-RD1003-D063-A22-Z06-H AFMRC-RD1003-D080-A27-Z07-H AFMRC-RD1003-D100-A32-Z08-H
		RD..10T3.. (Para ISO)	AFMRC-RD10T3-D050-A22-Z05-H AFMRC-RD10T3-D063-A22-Z06-H
		RD..12T3.. (Para ISO)	AFMRC-RD12T3-D040-A16-Z04-H AFMRC-RD12T3-D050-A22-Z05-H AFMRC-RD12T3-D052-A22-Z05-H AFMRC-RD12T3-D063-A22-Z06-H AFMRC-RD12T3-D080-A27-Z07-H AFMRC-RD12T3-D100-A32-Z08-H AFMRC-RD12T3-D125-B40-Z09
		RD..1204.. (Para ISO)	AFMRC-RD1204-D040-A16-Z04-H AFMRC-RD1204-D050-A22-Z05-H AFMRC-RD1204-D052-A22-Z05-H AFMRC-RD1204-D063-A22-Z06-H AFMRC-RD1204-D080-A27-Z07-H AFMRC-RD1204-D100-A32-Z07-H AFMRC-RD1204-D100-A32-Z08-H
		RD..1604.. (Para ISO)	AFMRC-RD1604-D050-A22-Z04-H AFMRC-RD1604-D052-A22-Z04-H AFMRC-RD1604-D063-A22-Z05-H AFMRC-RD1604-D066-A22-Z05-H AFMRC-RD1604-D066-A27-Z05-H AFMRC-RD1604-D080-A27-Z06-H AFMRC-RD1604-D100-A32-Z07-H AFMRC-RD1604-D125-B40-Z07



Portaherramientas Cabeza Roscada para RPMT

-°	AEMR-RP..	Inserto	Código
		RPMT 08T2.. (Para MTSBSH)	AEMR-RP08T2M-D20-M10-L30-Z02-H
		RPMT 10T3.. (Para MTSBSH)	AEMR-RP10T3M-D25-M12-L35-Z02-H AEMR-RP10T3M-D32-M16-L43-Z03-H
		RPMT 1204 (Para MTSBSH)	AEMR-RP1204M-D32-M16-L43-Z03-H AEMR-RP1204M-D40-M16-L43-Z04-H



Portaherramientas de Fresado para RPMT

-°	AEMR-RP..	Inserto	Código
		RPMT 08T2.. (Para MTSBSH)	AEMR-RP08T2M-D20-W20-L150-Z02-H AEMR-RP08T2M-D25-W25-L200-Z03-H
		RPMT 10T3.. (Para MTSBSH)	AEMR-RP10T3M-D25-W25-L200-Z02-H AEMR-RP10T3M-D32-W32-L200-Z03-H
		RPMT 1204.. (Para MTSBSH)	AEMR-RP1204M-D32-W32-L150-Z03-H AEMR-RP1204M-D32-W32-L200-Z03-H
		RPMT 1606.. (Para MTSBSH)	AEMR-RP1606M-D40-W32-L150-Z02-H AEMR-RP1606M-D40-W32-L200-Z02-H



Plato de Fresado para RPMT1204

-°	AFMR-RP1204M	Inserto	Código
		RPMT 1204.. (Para MTSBSH)	AFMR-RP1204M-D050-A22-Z04-H AFMR-RP1204M-D052-A22-Z05-H AFMR-RP1204M-D063-A22-Z05-H AFMR-RP1204M-D080-A27-Z06-H



Portaherramientas de Fresado para RPNX10T3

-°	AEMR-RP10T3	Inserto	Código
		RPNX 10T3.. (Para CRTZT)	AEMR-RP10T3-D25-W25-L125-Z02 AEMR-RP10T3-D25-W25-L150-Z02 AEMR-RP10T3-D32-W32-L150-Z03



Portaherramientas Cabeza Roscada para RPNX10T3 - RPNX1204.

-°	AEMR-RP10T3	Inserto	Código
		RPNX 10T3.. (Para CRTZT)	AEMR-RP10T3-D25-M12-L35-Z02-H AEMR-RP10T3-D32-M16-L43-Z03-H
		RPNX 1204.. (Para CRTZT)	AEMR-RP1204-D32-M16-L43-Z03-H



Plato de Fresado para RPNX10T3 - RPNX1204

-°	AFMR-RP..	Inserto	Código
		RPNX 10T3.. (Para CRTZT)	AFMR-RP10T3-D063-A22-Z06-H AFMR-RP10T3-D080-A27-Z07-H
		RPNX 1204.. (Para CRTZT)	AFMR-RP1204-D040-A16-Z04-H AFMR-RP1204-D080-A27-Z07-H



Portaherramientas Cabeza Roscada para RYMX 1004 - RPMX1205

-°	AEMR-RY..	Inserto	Código
		RYMX 1004.. (Para TGTC)	AEMR-RY10-D32-M16-L43-Z04-H AEMR-RY10-D40-M16-L43-Z05-H
		RYMX 1205.. (Para TGTC)	AEMR-RY12-D32-M16-L43-Z03-H AEMR-RY12-D40-M16-L43-Z03-H



Portaherramientas de Fresado para RYMX

-°	AEMR-RY..	Inserto	Código
		RYMX 0803..	AEMR-RY08-D16-W16-L150-Z02
		RYMX 1004.. (Para TGTC)	AEMR-RY10-D20-W20-L150-Z02 AEMR-RY10-D20-C20-L200-Z02 AEMR-RY10-D21-W20-L200-Z02-H AEMR-RY10-D25-W25-L150-Z02 AEMR-RY10-D25-W25-L150-Z03 AEMR-RY10-D26-W25-L200-Z02-H AEMR-RY10-D32-W32-L160-Z04-H
		RYMX 1205..	AEMR-RY12-D32-C25-L160-Z03



Plato de Fresado para RYMX1004 - RPMX1205

-°	AFMR-RY..	Inserto	Código
		RYMX 1004.. (Para TGTC)	AFMR-RY10-D040-A16-Z04-H AFMR-RY10-D040-A16-Z05-H AFMR-RY10-D050-A22-Z05-H AFMR-RY10-D063-A22-Z06-H
		RYMX 1205.. (Para TGTC)	AFMR-RY12-D040-A16-Z04-H AFMR-RY12-D050-A22-Z05-H AFMR-RY12-D052-A22-Z05-H AFMR-RY12-D063-A22-Z06-H AFMR-RY12-D080-A27-Z06-H AFMR-RY12-D100-A32-Z07-H



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Portaherramientas de Fresado

Portaherramientas de Fresado para BNM

-°	APMR-BNM..	Inserto	Código
		BNM-120-S	APMR-BNM12-D12-C12-L130
		BNM-160-S (Para DJT)	APMR-BNM16-D16-C16-L175

Portaherramientas Cabeza Roscada para XPHT

-°	APMR-XP..	Inserto	Código
		XPHT 16R0803 - (Para ZCC)	APMR-XP16-D16-M08-L25
		XPHT 20R10T3 - (Para ZCC)	APMR-XP20-D20-M10-L30
		XPHT 25R1204 - (Para ZCC)	APMR-XP25-D25-M12-L40

Portaherramientas de Fresado para Placa Copiado WLTR

-°	APMR-P32..	Inserto	Código
		P3208 - (Para WLTR))	APMR-P3208-D08-C10-L110
		P3210 - (Para WLTR)	APMR-P3210-D10-C10-L130
			APMR-P3210-D10-C12-L130
		P3212 - (Para WLTR)	APMR-P3212-D12-C12-L130
		P3216 - (Para WLTR)	APMR-P3216-D16-C16-L175
		P3220 - (Para WLTR)	APMR-P3220-D20-C20-L200
		P3225 - (Para WLTR)	APMR-P3225-D25-C25-L200
		P3232 - (Para WLTR)	APMR-P3232-D32-C32-L200

Portaherramientas de Fresado para BLMP0603 - BLMP0904

-°	AHFM-BL..	Inserto	Código
		BLMP 0603.. (Para TGTC)	AHFM-BL0603-D16-C15-L150-Z02
			AHFM-BL0603-D16-C16-L100-Z02-H
			AHFM-BL0603-D16-C16-L150-Z02
			AHFM-BL0603-D17-C16-L150-Z02
			AHFM-BL0603-D17-W16-L170-Z02
			AHFM-BL0603-D17-W16-L170-Z02-H
			AHFM-BL0603-D17-C16-L200-Z02
			AHFM-BL0603-D18-C16-L150-Z02
			AHFM-BL0603-D18-W16-L150-Z02-H
			AHFM-BL0603-D20-C20-L130-Z03
			AHFM-BL0603-D20-C20-L160-Z03
			AHFM-BL0603-D21-W20-L200-Z03
			AHFM-BL0603-D21-C20-L200-Z03
			AHFM-BL0603-D22-W20-150-Z03
			AHFM-BL0603-D25-C25-L250-Z04
			AHFM-BL0603-D26-W25-L200-Z04
			AHFM-BL0603-D26-C25-L200-Z04
			AHFM-BL0603-D26-C25-L250-Z04
			AHFM-BL0603-D32-C32-L150-Z05
			AHFM-BL0603-D32-C32-L200-Z05
			AHFM-BL0603-D33-C32-L200-Z05
			AHFM-BL0603-D33-C32-L250-Z05
		BLMP 0904..	AHFM-BL0904-D28-W25-L180-Z03

Portaherramientas Cabeza Roscada para Placa Copiado WLTR

-°	APMR-PR..	Inserto	Código
		P3216 - (Para WLTR)	APMR-P3216-D16-M08-L25
		P3220 - (Para WLTR)	APMR-P3220-D20-M10-L30
		P3225 - (Para WLTR)	APMR-P3225-D25-M12-L35
		P3232 - (Para WLTR)	APMR-P3232-D32-M16-L43

Portaherramientas de Fresado para ROHX

-°	APMR-RO..	Inserto	Código
		ROHX 1203 (Para ZCC)	APMR-R012-D12-C12-L120
			APMR-R012-D12-C16-L160
		ROHX 1604 (Para ZCC)	APMR-R016-D16-C16-L160
			APMR-R016-D16-C16-L200
			APMR-R016-D16-C20-L200
		ROHX 2005 (Para ZCC)	APMR-R020-D20-C20-L160
			APMR-R020-D20-C20-L200
			APMR-R020-D20-C25-L220

Portaherramientas Cabeza Roscada para BLMP0603 - BLMP0904

-°	AHFM-BL..	Inserto	Código
		BLMP 0603 (Para TGTC)	AHFM-BL0603-D20-M10-L30-Z03-H
			AHFM-BL0603-D32-M16-L40-Z05-H
		BLMP 0904 (Para TGTC)	AHFM-BL0904-D32-M16-L40-Z04-H
			AHFM-BL0904-D42-M16-L43-Z05-H

Portaherramientas Cabeza Roscada para SWB225 - SWB230 - SWB232

-°	APMR-SWB..	Inserto	Código
		SWB225HM-HS - (Para DJT)	APMR-SWB225-D25-M12-L35
		SWB230HM-HS - (Para DJT)	APMR-SWB230-D30-M16-L43
		SWB232HM-HS - (Para DJT)	APMR-SWB232-D32-M16-L43

Plato de Fresado para BLMP0603 - BLMP0904

-°	AHFM-BL..	Inserto	Código
		BLMP 0603.. (Para TGTC)	AHFM-BL0603-D040-A16-Z06-H
			AHFM-BL0603-D050-A22-Z07-H
		BLMP 0904.. (Para TGTC)	AHFM-BL0904-D040-A16-Z05-H
			AHFM-BL0904-D050-A22-Z06-H
			AHFM-BL0904-D063-A22-Z05-H
			AHFM-BL0904-D063-A22-Z07-H

Portaherramientas de Fresado para XPHT

-°	APMR-XP..	Inserto	Código
		XPHT 16R0803 - (Para ZCC)	APMR-XP16-D16-C16-L150
		XPHT 20R10T3 - (Para ZCC)	APMR-XP20-D20-C20-L150
		XPHT 25R1204 - (Para ZCC)	APMR-XP25-D25-C25-L150

Plato de Fresado para BLMP1205

-°	AHFM-BL1205	Inserto	Código
		BLMP 1205.. (Para TGTC)	AHFM-BL1205-D050-A22-Z03-H
			AHFM-BL1205-D063-A22-Z04-H
			AHFM-BL1205-D080-A27-Z05-H

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Portaherramientas de Fresado

Portaherramientas de Fresado para BNGX10T3

-°	AHFM-BN10T3	Inserto	Código
		BNGX 10T3.. (Para PRMT)	AHFM-BN10T3-D16-C16-L100-Z02-H AHFM-BN10T3-D16-C16-L150-Z02-H AHFM-BN10T3-D20-C20-L130-Z03-H AHFM-BN10T3-D20-C20-L130-Z04-H AHFM-BN10T3-D20-C20-L160-Z03-H AHFM-BN10T3-D25-C25-L140-Z04-H AHFM-BN10T3-D25-W25-L140-Z04-H AHFM-BN10T3-D25-C25-L140-Z05-H AHFM-BN10T3-D25-C25-L180-Z04-H AHFM-BN10T3-D32-C32-L150-Z05-H AHFM-BN10T3-D32-C32-L150-Z06-H AHFM-BN10T3-D35-C32-L200-Z06-H

Portaherramientas de Fresado para E0..060210 - ZOMT060210

-°	AHFM-E00602	Inserto	Código
		E0.. 060210 ZOMT 060210 (Para DJT)	AHFM-E00602-D10-C10-L080-Z02 AHFM-E00602-D10-C09-L120-Z02 AHFM-E00602-D10-C10-L120-Z02 AHFM-E00602-D12-C12-L080-Z02 AHFM-E00602-D12-C12-L080-Z03 AHFM-E00602-D12-C11-L120-Z02 AHFM-E00602-D12-C11-L120-Z03 AHFM-E00602-D12-C12-L120-Z02 AHFM-E00602-D12-C12-L120-Z03 AHFM-E00602-D16-C16-L150-Z04

Portaherramientas Cabeza Roscada para EDMT0702 - JDMT070204

-°	AHFM-ED0702	Inserto	Código
		EDMT 0702 - JDMT 070204 (Para HTCH)	AHFM-ED0702-D12-M06-L20-Z03 AHFM-ED0702-D16-M08-L25-Z04-H AHFM-ED0702-D20-M10-L30-Z05-H AHFM-ED0702-D25-M12-L30-Z06-H AHFM-ED0702-D32-M16-L30-Z08-H

Portaherramientas de Fresado para EP..1003 - ZPMT1003 - YPHW1003

-°	AHFM-EP1003	Inserto	Código
		EP.. 1003.. ZPMT 1003.. YPHW 1003.. (Para DJT)	AHFM-EP1003-D16-C16-L150-Z02-H AHFM-EP1003-D17-C16-L150-Z02-H AHFM-EP1003-D20-C20-L150-Z04-H AHFM-EP1003-D21-C20-L150-Z04-H

Portaherramientas Cabeza Roscada para ENMU1004

-°	AHFM-EN1004	Inserto	Código
		ENMU 1004.. (Para DJT)	AHFM-EN1004-D16-M08-L23-Z02-H AHFM-EN1004-D20-M10-L30-Z03-H AHFM-EN1004-D25-M12-L35-Z03-H AHFM-EN1004-D25-M12-L35-Z04-H AHFM-EN1004-D32-M16-L43-Z05-H AHFM-EN1004-D35-M16-L43-Z05-H AHFM-EN1004-D40-M16-L43-Z05-H AHFM-EN1004-D42-M16-L43-Z05-H

Portaherramientas Cabeza Roscada para EP..1003 - ZPMT1003 - YPHW1003

-°	AHFM-EP1003	Inserto	Código
		EP.. 1003.. ZPMT 1003.. YPHW 1003.. (Para DJT)	AHFM-EP1003-D16-M08-L23-Z02-H AHFM-EP1003-D20-M10-L30-Z04-H AHFM-EP1003-D25-M12-L35-Z04-H AHFM-EP1003-D32-M16-L43-Z05-H AHFM-EP1003-D35-M16-L43-Z05-H AHFM-EP1003-D42-M16-L43-Z06-H

Plato de Fresado para ENMU1004

-°	AHFM-EN1004	Inserto	Código
		ENMU 1004.. (Para DJT)	AHFM-EN1004-D050-A22-Z05-H AHFM-EN1004-D050-A22-Z06-H AHFM-EN1004-D052-A22-Z06-H AHFM-EN1004-D063-A22-Z06-H

Plato de Fresado para EP..1003 - ZPMT1003 - YPHW1003

-°	AHFM-EP1003	Inserto	Código
		EP.. 1003.. ZPMT 1003.. YPHW 1003.. (Para DJT)	AHFM-EP1003-D050-A22-Z08-H AHFM-EP1003-D063-A22-Z08-H

Portaherramientas de Fresado para ENMU1004

-°	AHFM-EN1004	Inserto	Código
		ENMU 1004.. (Para DJT)	AHFM-EN1004-D16-C15-L150-Z02 AHFM-EN1004-D16-C16-L150-Z02 AHFM-EN1004-D17-C16-L150-Z02-H AHFM-EN1004-D17-C16-L150-Z02 AHFM-EN1004-D17-C16-L200-Z02 AHFM-EN1004-D18-C16-L150-Z02 AHFM-EN1004-D20-C20-L150-Z03 AHFM-EN1004-D21-C20-L150-Z02 AHFM-EN1004-D21-C20-L150-Z03 AHFM-EN1004-D21-C20-L200-Z03 AHFM-EN1004-D22-C20-L150-Z03 AHFM-EN1004-D25-C25-L150-Z03 AHFM-EN1004-D25-C25-L150-Z04 AHFM-EN1004-D26-C25-L150-Z03 AHFM-EN1004-D26-C25-L150-Z04 AHFM-EN1004-D26-C25-L200-Z03 AHFM-EN1004-D26-C25-L200-Z03-H AHFM-EN1004-D26-C25-L250-Z03-H AHFM-EN1004-D28-C25-L200-Z04 AHFM-EN1004-D32-C32-L200-Z04 AHFM-EN1004-D33-C32-L200-Z04

Plato de Fresado para JDMW1204 - JDMW1405

-°	AHFMC-JD..	Inserto	Código
		JDMW 1204.. (Para MTSBSH)	AHFMC-JD1204-D052-A22-Z03-H AHFMC-JD1204-D052-A22-Z04-H AHFMC-JD1204-D063-A22-Z05-H AHFMC-JD1204-D080-A27-Z06-H AHFMC-JD1204-D100-A32-Z07-H
		JDMW 1405.. (Para MTSBSH)	AHFMC-JD1405-D052-A22-Z03-H AHFMC-JD1405-D063-A22-Z04-H

Portaherramientas de Fresado para JDMW1204

-°	AHFMC-JD1204	Inserto	Código
		JDMW 1204.. (Para MTSBSH)	AHFMC-JD1204-D32-C32-L150-Z02 AHFMC-JD1204-D32-C32-L200-Z02 AHFMC-JD1204-D35-C32-L200-Z02 AHFMC-JD1204-D35-C32-L250-Z02

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Portaherramientas de Fresado

Portaherramientas Cabeza Roscada para JDMW1204

-°	AHFMC-JD1204	Inserto	Código
		JDMW 1204.. (Para MTSBSH)	AHFMC-JD1204-D32-M16-L43-Z02-H AHFMC-JD1204-D42-M16-L43-Z03-H

Portaherramientas Cabeza Roscada para JDMT1003

-°	AHFM-JD1003	Inserto	Código
new		JDMT 1003.. (Para HTCH)	AHFM-JD1003-D16-M08-L30-Z02-H AHFM-JD1003-D20-M10-L30-Z03-H

Plato de Fresado para JDMT1003

-°	AHFM-JD1003	Inserto	Código
new		JDMT 1003.. (Para HTCH)	AHFM-JD1003-D040-A16-Z06-H AHFM-JD1003-D063-A22-Z08-H

Portaherramientas de Fresado para LNMX1235

-°	AHFM-LN120	Inserto	Código
		LNMX 1235.. (Para B.OKE)	AHFM-LN120-D16-C15-L150-Z02 AHFM-LN120-D21-C20-L150-Z03 AHFM-LN120-D26-C25-L150-Z04 AHFM-LN120-D33-C32-L200-Z05

Portaherramientas Cabeza Roscada para LNMX1235

-°	AHFM-LN120	Inserto	Código
		LNMX 1235.. (Para B.OKE)	AHFM-LN120-D25-M12-L35-Z04-H AHFM-LN120-D32-M16-L43-Z05-H AHFM-LN120-D42-M16-L43-Z06-H

Portaherramientas Cabeza Roscada para LOGU0303

-°	AHFM-L003	Inserto	Código
		LOGU 0303.. (Para KYCR)	AHFM-L003-D20-M10-L30-Z04-H-F AHFM-L003-D25-M12-L35-Z04-H-F AHFM-L003-D25-M12-L35-Z04-H AHFM-L003-D32-M16-L40-Z05-H-F AHFM-L003-D32-M16-L40-Z05-H AHFM-L003-D32-M16-L40-Z06-H-F AHFM-L003-D32-M16-L40-Z06-H AHFM-L003-D35-M16-L40-Z06-H AHFM-L003-D42-M16-L40-Z05-H AHFM-L003-D42-M16-L40-Z06-H

Portaherramientas Cabeza Roscada para SD..06T2 - SD..09T3 - SD..1204

-°	AHFM.-SD..	Inserto	Código
		SD.. 06T2.. (Para ZCC)	AHFM-SD06T2-D16-M08-L23-Z02-H AHFM-SD06T2-D20-M10-L30-Z03-H AHFM-SD06T2-D25-M12-L35-Z04-H
		SD.. 09T3.. (Para ZCC)	AHFMC-SD09T3-D25-M12-L30-Z02-H AHFMC-SD09T3-D32-M16-L43-Z03-H AHFMC-SD09T3-D35-M16-L43-Z03-H AHFMC-SD09T3-D40-M16-L43-Z04-H
		SD.. 1204.. (Para ZCC)	AHFMC-SD1204-D32-M16-L43-Z02-H AHFMC-SD1204-D40-M16-L43-Z03-H

Portaherramientas de Fresado para LOGU0303

-°	AHFM-L003	Inserto	Código
		LOGU 0303.. (Para KYCR)	AHFM-L003-D16-C15-L160-Z02 AHFM-L003-D16-C16-L100-Z02-F AHFM-L003-D16-C16-L100-Z02 AHFM-L003-D16-C16-L130-Z02-H AHFM-L003-D16-C16-L160-Z02 AHFM-L003-D16-C16-L160-Z02-H AHFM-L003-D17-C16-L180-Z02 AHFM-L003-D20-C20-L130-Z03 AHFM-L003-D20-C20-L130-Z03-H AHFM-L003-D20-C20-L160-Z03 AHFM-L003-D20-C20-L160-Z03-H AHFM-L003-D21-C20-L200-Z03 AHFM-L003-D25-C25-L140-Z04-F AHFM-L003-D25-C25-L140-Z04 AHFM-L003-D25-C25-L180-Z04 AHFM-L003-D26-C25-L250-Z04 AHFM-L003-D32-C32-L200-Z05 AHFM-L003-D33-C32-L250-Z05

Plato de Fresado para LOGU0303

-°	AHFM-L003	Inserto	Código
		LOGU 0303.. (Para KYCR)	AHFM-L003-D040-A16-Z06-H AHFM-L003-D050-A22-Z07-H AHFM-L003-D063-A22-Z09-H

Portaherramientas de Fresado para LPGT0102

-°	AHFM-LP0102	Inserto	Código
		LPGT 0102.. (Para KYCR)	AHFM-LP0102-D10-C09-L120-Z02 AHFM-LP0102-D10-C10-L120-Z02 AHFM-LP0102-D12-C11-L120-Z02 AHFM-LP0102-D12-C12-L120-Z02

Portaherramientas de Fresado para SD..06T2 - SD..09T3

-°	AHFM.-SD..	Inserto	Código
		SD.. 06T2.. (Para ZCC)	AHFM-SD06T2-D16-C16-L100-Z02-H AHFM-SD06T2-D16-C16-L150-Z02-H AHFM-SD06T2-D16-C16-L200-Z02 AHFM-SD06T2-D17-C16-L150-Z02-H AHFM-SD06T2-D20-C20-L150-Z03-H AHFM-SD06T2-D20-C20-L200-Z03 AHFM-SD06T2-D21-C20-L150-Z03-H AHFM-SD06T2-D25-C25-L150-Z04-H AHFM-SD06T2-D26-C25-L150-Z04-H
		SD.. 09T3.. (Para ZCC)	AHFMC-SD09T3-D22-W20-L150-Z02 AHFMC-SD09T3-D25-C25-L150-Z02 AHFMC-SD09T3-D25-W25-L150-Z02 AHFM-SD09T3-D25-C25-L150-Z03 AHFMC-SD09T3-D28-C25-L150-Z02 AHFMC-SD09T3-D32-C32-L150-Z03 AHFMC-SD09T3-D32-W32-L150-Z03 AHFM-SD09T3-D32-C32-L150-Z04

Plato de Fresado para SD..1204

-°	AHFMC-SD1204	Inserto	Código
		SD.. 1204.. (Para ZCC)	AHFMC-SD1204-D050-A22-Z04-H AHFMC-SD1204-D063-A22-Z05-H AHFMC-SD1204-D080-A27-Z06-H AHFMC-SD1204-D100-A32-Z08-H

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Portaherramientas de Fresado

Plato de Fresado para SD..1205

-°	AHFM-SD1205	Inserto	Código
		SD.. 1205.. (Para HTCH)	AHFM-SD1205-D052-A22-Z04-H AHFM-SD1205-D052-A22-Z05-H AHFM-SD1205-D066-A22-Z05-H AHFM-SD1205-D066-A22-Z06-H AHFM-SD1205-D080-A27-Z06-H

Portaherramientas Cabeza Roscada para SOMMW083

-°	AHFM-S00803	Inserto	Código
		SOMW 0803.. (Para KPTK)	AHFM-S00803-D20-M10-L30-Z02-H AHFM-S00803-D25-M12-L35-Z03-H AHFM-S00803-D32-M16-L43-Z03-H AHFM-S00803-D32-M16-L43-Z04-H AHFM-S00803-D40-M16-L43-Z04-H

Portaherramientas de Fresado para SOMW0803

-°	AHFM-S00803	Inserto	Código
		SOMW 0803.. (Para KPTK)	AHFM-S00803-D20-W20-L150-Z02 AHFM-S00803-D25-W25-L150-Z03 AHFM-S00803-D32-W32-L150-Z04

Portaherramientas de Fresado para SPNW1004

-°	AHFM-SP1004	Inserto	Código
		SPNW 1004.. (Para DJT)	AHFM-SP1004-D25-C25-L150-Z02 AHFM-SP1004-D32-C32-L150-Z03

Portaherramientas Cabeza Roscada para SPNW1004

-°	AHFM-SP1004	Inserto	Código
		SPNW 1004.. (Para DJT)	AHFM-SP1004-D32-M16-L43-Z03-H AHFM-SP1004-D35-M16-L43-Z03-H AHFM-SP1004-D42-M16-L43-Z04-H

Plato de Fresado para SPNW1004

-°	AHFM-SP1004	Inserto	Código
		SPNW 1004.. (Para DJT)	AHFM-SP1004-D050-A22-Z05-H AHFM-SP1004-D052-A22-Z05-H AHFM-SP1004-D063-A22-Z06-H

Portaherramientas de Fresado para WD.T0503 - WD.W06T3

-°	AHFM-WD..	Inserto	Código
		WD.T 0503.. (Para DJT)	AHFM-WD0503D-D20-C20-L150-Z02 AHFM-WD0503D-D21-C20-L150-Z02
		WD.W 06T3.. (Para DJT)	AHFM-WD06T3D-D26-C25-L200-Z02 AHFM-WD06T3D-D33-C32-L200-Z03

Portaherramientas Cabeza Roscada para WD.T0503 - WD.W06T3 - WD.W0805

-°	AHFM-WD..	Inserto	Código
		WD.T 0503.. (Para DJT)	AHFM-WD0503D-D20-M10-L30-Z02-H AHFM-WD0503D-D25-M12-L35-Z03-H AHFM-WD0503D-D32-M16-L43-Z04-H AHFM-WD0503D-D40-M16-L43-Z05-H
		WD.W 06T3.. (Para DJT)	AHFMC-WD06T3D-D35-M16-L43-Z03-H
		WD.W 0805.. (Para DJT)	AHFMC-WD0805D-D32-M16-L43-Z02-H

Plato de Fresado para WD.W06T3 - WD.W0805 - WD.W10X6

-°	AHFMC-WD..	Inserto	Código
		WD.W 06T3.. (Para DJT)	AHFMC-WD06T3D-D042-A16-Z04-H AHFMC-WD06T3D-D050-A22-Z05-H AHFMC-WD06T3D-D052-A22-Z05-H
		WD.W 0805.. (Para DJT)	AHFMC-WD0805D-D052-A22-Z04-H AHFMC-WD0805D-D063-A22-Z05-H AHFMC-WD0805D-D063-A27-Z05-H AHFMC-WD0805D-D066-A27-Z05-H AHFMC-WD0805D-D080-A27-Z05 AHFMC-WD0805D-D100-A32-Z06
		WD.W 10X6.. (Para DJT)	AHFMC-WD10X6D-D125-B40-Z06 AHFMC-WD10X6D-D160-C40-Z07

Portaherramientas Cabeza Roscada para SOMT1004

-°	AHFM-S01004	Inserto	Código
		SOMT 1004.. (Para KYCR)	AHFM-S01004-D32-M16-L40-Z03-H AHFM-S01004-D40-M16-L40-Z04-H AHFM-S01004-D42-M16-L40-Z04-H

Plato de Fresado para SOMT1004

-°	AHFM-S01004	*Inserto*	*Código*
		SOMT 1004.. (Para KYCR)	AHFM-S01004-D050-A22-Z05-H AHFM-S01004-D063-A22-Z06-H AHFM-S01004-D080-A27-Z07-H

Portaherramientas de Fresado para WDMT0603 - WDMT0804 -WDMT1205

-°	AHFMC-WD..	Inserto	Código
		WDMT 0603.. (Para SMTM)	AHFM-WD0603-D16-C16-L150-Z02 AHFM-WD0603-D20-C20-L150-Z03
		WDMT 0804.. (Para SMTM)	AHFMC-WD0804-D25-C25-L150-Z02 AHFMC-WD0804-D32-C32-L150-Z03
		WDMT 1205 (Para SMTM)	AHFMC-WD1205-D32-C32-L150-Z02

Portaherramientas Cabeza Roscada para WDMT0804

-°	AHFMC-WD0804	Inserto	Código
		WDMT 0804.. (Para SMTM)	AHFMC-WD0804-D25-M12-L35-Z02-H AHFMC-WD0804-D32-M16-L35-Z03-H

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Portaherramientas de Fresado

Plato de Fresado para WDMT0804 - WDMT1205

-°	AHFMC-WD..	Inserto	Código
		WDMT 0804.. (Para SMTM)	AHFMC-WD0804-D040-A16-Z04-H AHFMC-WD0804-D050-A22-Z04-H
		WDMT 1205.. (Para SMTM)	AHFMC-WD1205-D050-A22-Z04-H AHFMC-WD1205-D052-A22-Z04-H AHFMC-WD1205-D063-A22-Z05-H AHFMC-WD1205-D080-A27-Z06-H

Portaherramientas de Fresado para WOMW04T2

-°	AHFM-W004T2	Inserto	Código
		WOMW 04T2.. (Para DJT)	AHFM-W004T2D-D16-C16-L150-Z02 AHFM-W004T2D-D17-C16-L150-Z02

Portaherramientas Cabeza Roscada para WNMX09T3

-°	AHFM-WN09T3	Inserto	Código
		WNMX 09T3.. (Para KRLY)	AHFM-WN09T3-D32-M16-L40-Z03-H AHFM-WN09T3-D40-M16-L40-Z04-H

Portaherramientas de Fresado para YOHW0602

-°	AHFM-Y00602	Inserto	Código
		YOHW 0602.. (Para DJT)	AHFM-Y00602-D10-C09-L120-Z02-F AHFM-Y00602-D10-C10-L080-Z02-F AHFM-Y00602-D10-C10-L120-Z02-F AHFM-Y00602-D10-C10-L120-Z02-H-F AHFM-Y00602-D10-C10-L120-Z02-H AHFM-Y00602-D12-C11-L120-Z02-F AHFM-Y00602-D12-C11-L120-Z02-H-F AHFM-Y00602-D12-C11-L120-Z02-H AHFM-Y00602-D12-C11-L120-Z03-F AHFM-Y00602-D12-C12-L080-Z02-F AHFM-Y00602-D12-C12-L080-Z03-F AHFM-Y00602-D12-C12-L120-Z02-F AHFM-Y00602-D12-C12-L120-Z03-F

Portaherramientas de Fresado para WNMX0603 - WNMX09T3 - WNMX1305

-°	AHFM-WN..	Inserto	Código
		WNMX 0603.. (Para KRLY)	AHFM-WN0603-D16-C16-L110-Z02-H AHFM-WN0603-D16-C16-L150-Z02-H AHFM-WN0603-D17-C16-L150-Z02-H AHFM-WN0603-D20-C20-L150-Z02-H AHFM-WN0603-D20-C20-L200-Z02-H AHFM-WN0603-D21-C20-L150-Z02-H
		WNMX 09T3.. (Para KRLY)	AHFM-WN09T3-D25-W25-L120-Z02-H AHFML-WN09T3-D25-W25-L120-Z02-H AHFM-WN09T3-D25-C25-L200-Z02 AHFM-WN09T3-D32-W32-L120-Z03-H AHFM-WN09T3-D32-W32-L200-Z03-H AHFM-WN09T3-D35-W32-L200-Z04-H AHFM-WN09T3-D40-W32-L120-Z04-H AHFM-WN09T3-D40-C32-L200-Z04
		WNMX 1305.. (Para KRLY)	AHFM-WN1305-D32-C32-L150-Z02-H AHFM-WN1305-D32-C32-L200-Z02-H AHFM-WN1305-D40-C32-L200-Z03-H

Portaherramientas de Fresado para YPHW1003 - EP..1003 - ZPMT1003

-°	AHFM-YP1003	Inserto	Código
		YPHW 1003.. EP.. 1003.. ZPMT 1003.. (Para DJT)	AHFM-YP1003-D16-C15-L150-Z02-F AHFM-YP1003-D16-C15-L200-Z02-F AHFM-YP1003-D16-C16-L150-Z02-F AHFM-YP1003-D17-C16-L150-Z02-F AHFM-YP1003-D17-C16-L200-Z02-F AHFM-YP1003-D20-C18-L150-Z03-F AHFM-YP1003-D20-C18-L200-Z03-F AHFM-YP1003-D20-C20-L150-Z03-F AHFM-YP1003-D21-C20-L150-Z03-F AHFM-YP1003-D21-C20-L150-Z03-H AHFM-YP1003-D21-C20-L150-Z04-F AHFM-YP1003-D21-C20-L200-Z03-F AHFM-YP1003-D21-C20-L200-Z03 AHFM-YP1003-D25-C20-L150-Z04-F AHFM-YP1003-D25-C20-L200-Z04-F AHFM-YP1003-D25-C25-L150-Z04-F AHFM-YP1003-D26-C25-L150-Z04-F AHFM-YP1003-D26-C25-L150-Z04 AHFM-YP1003-D26-C25-L200-Z03-F AHFM-YP1003-D26-C25-L200-Z04-F

Plato de Fresado para WNMX09T3

-°	AHFM-WN09T3	Inserto	Código
		WNMX 09T3.. (Para KRLY)	AHFM-WN09T3-D040-A16-Z04-H AHFML-WN09T3-D040-A16-Z04-H AHFM-WN09T3-D050-A22-Z05-H AHFML-WN09T3-D050-A22-Z05-H AHFM-WN09T3-D063-A22-Z06

Portaherramientas Cabeza Roscada para YPHW1003 - EP..1003 - ZPMT1003

-°	AHFM-YP1003	Inserto	Código
		YPHW 1003.. EP.. 1003.. ZPMT 1003.. (Para DJT)	AHFM-YP1003-D16-M08-L23-Z02-F AHFM-YP1003-D16-M08-L23-Z02-H-F AHFM-YP1003-D17-M08-L23-Z02-H-F AHFM-YP1003-D17-M08-L23-Z02-H AHFM-YP1003-D20-M10-L30-Z03-H-F AHFM-YP1003-D20-M10-L30-Z03-H AHFM-YP1003-D20-M10-L30-Z04-H AHFM-YP1003-D20-M10-L30-Z04-F AHFM-YP1003-D21-M10-L30-Z03-H-F AHFM-YP1003-D21-M10-L30-Z03-H AHFM-YP1003-D25-M12-L35-Z04-F AHFM-YP1003-D25-M12-L35-Z04-H AHFM-YP1003-D25-M12-L35-Z04-H-F AHFM-YP1003-D26-M12-L35-Z04-H-F AHFM-YP1003-D32-M16-L30-Z05-F AHFM-YP1003-D32-M16-L43-Z05-H-F AHFM-YP1003-D40-M16-L43-Z06-H-F AHFM-YP1003-D42-M16-L43-Z06-H-F

Plato de Fresado para WNMU0907

-°	AHFM-WN0907	Inserto	Código
		WNMU 0907.. (Para DJT)	AHFM-WN0907-D050-A22-Z04-H AHFM-WN0907-D052-A22-Z04-H AHFM-WN0907-D063-A22-Z05-H AHFM-WN0907-D066-A27-Z05-H AHFM-WN0907-D080-A27-Z06-H AHFM-WN0907-D100-A32-Z07-H

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Discos de Fresado

Fresa en T para Placa CC..0602 - CC..09T3 - CC..1204

90°	ATSM90-CC..	Inserto	Código
		CC.. 0602..	ATSM90-CC06-D17X8-W16-L85-Z02
		CC.. 0602..	ATSM90-CC06-D28X8-W20-L66-Z04
		CC.. 0602..	ATSM90-CC06-D32X8-W25-L100-Z04
		CC.. 0602..	ATSM90-CC06-D45.5X8-W25-L100-Z06
		CC.. 0602..	ATSM90-CC06-D63X8-W32-L125-Z08
		CC.. 0602..	ATSM90-CC06-D18X9-W16-L90-Z02
		CC.. 0602..	ATSM90-CC06-D20X9-W16-L85-Z04
		CC.. 0602..	ATSM90-CC06-D23X10-W20-L90-Z04
		CC.. 0602..	ATSM90-CC06-D32X10-W25-L100-Z04
		CC.. 0602..	ATSM90-CC06-D45X10-W32-L120-Z06
		(For ISO)	ATSM90-CC06-D25X11-W25-L100-Z04
		CC.. 09T3..	ATSM90-CC09-D30X12-W25-L100-Z04
		CC.. 09T3..	ATSM90-CC09-D32X12-W25-L100-Z02
		CC.. 09T3..	ATSM90-CC09-D32X12-W25-L100-Z04
		CC.. 09T3..	ATSM90-CC09-D32X14-W25-L100-Z04
		CC.. 09T3..	ATSM90-CC09-D37X16-W32-L120-Z04
		CC.. 09T3..	ATSM90-CC09-D42X17-W32-L120-Z04
		(For ISO)	ATSM90-CC09-D40X17-W32-L120-Z04
		CC.. 1204..	ATSM90-CC12-D47X20-W32-L120-Z04
		CC.. 1204..	ATSM90-CC12-D52X21-W32-L120-Z04
		CC.. 1204..	ATSM90-CC12-D50X22-W32-L120-Z04
		(For ISO)	ATSM90-CC12-D55X22-W32-L120-Z04

Fresa en T - Para Placa SPMG - SPGT - RD...

90°	ATSM90-SP..	Inserto	Código
		SPMG 050204 (Para TGTC)	ATSM90-SP.05-D22.5X5-W25-L100-Z04
			ATSM90-SP.05-D30X5-W25-L100-Z04
		SPGT 050204	ATSM90-SPGT0502-D63X6-W32-L125-Z10
		SPGT 090408 (Para ZCC)	ATSM90-SPGT0904-D32X14-W32-L120-Z04-H
			ATSM90-SPGT0904-D37X16-W32-L120-Z04-H
			ATSM90-SPGT0904-D42X17-W32-L120-Z04-H
		SPGT 110408	ATSM90-SPGT1104-D47X20-W32-L120-Z04-H
		SPMG 060204 (Para TGTC)	ATSM90-SP.06-D80X7-W32-L120-Z10

-°	ATSMR-RD..	Inserto	Código
		RD.. 0702.. (Para ISO)	ATSMR-RD0702-D17-W16-L90-Z02
			ATSMR-RD0702-D25-W16-L90-Z03
			ATSMR-RD0702-D35-W25-L100-Z05
		RD.. 1003.. (Para ISO)	ATSMR-RD1003-D21-W25-L100-Z02
			ATSMR-RD1003-D80-W32-L165-Z06-H
		RD.. 12T3.. (Para ISO)	ATSMR-RD12T3-D25-W25-L100-Z02
			ATSMR-RD12T3-D80-W32-L165-Z06-H
		RD.. 1604.. (Para ISO)	ATSMR-RD1604-D34-W32-L110-Z02

Fresa de Disco Para Placa SPGT - CC..0602 - CC..09T3 - CC..1204

90°	ASDM-SPGT	Inserto	Código
		SPGT 0502.. (Para ZCC)	ASDM-SPGT05-D80x6-d27-Z10
			ASDM-SPGT05-D100x6-d32-Z12
			ASDM-SPGT05-D125x6-d40-Z14
			ASDM-SPGT05-D160x6-d40-Z18
		SPGT 0602.. (Para ZCC)	ASDM-SPGT06-D80x7-d27-Z10
			ASDM-SPGT06-D100x7-d32-Z12
			ASDM-SPGT06-D125x7-d40-Z14
			ASDM-SPGT06-D160x7-d40-Z16
			ASDM-SPGT06-D200x7-d40-Z18
		SPGT 0702.. (Para ZCC)	ASDM-SPGT07-D100x10-d32-Z12

90°	ASDM-CC..	Inserto	Código
		CC.. 0602.. (Para ISO)	ASDM-CC06-D80x8-d27-Z10
			ASDM-CC06-D100x8-d32-Z12
			ASDM-CC06-D125x8-d40-Z14
			ASDM-CC06-D160x8-d40-Z16
			ASDM-CC06-D200x8-d40-Z18
			ASDM-CC06-D80x10-d27-Z10
			ASDM-CC06-D100x10-d32-Z12
			ASDM-CC06-D125x10-d40-Z14
			ASDM-CC06-D160x10-d40-Z16
			ASDM-CC06-D200x10-d40-Z18
		CC.. 09T3.. (Para ISO)	ASDM-CC09-D80x12-d27-Z08
			ASDM-CC09-D100x12-d32-Z10
			ASDM-CC09-D125x12-d40-Z12
			ASDM-CC09-D160x12-d40-Z14
			ASDM-CC09-D200x12-d40-Z16
			ASDM-CC09-D80x14-d27-Z08
			ASDM-CC09-D100x14-d32-Z10
			ASDM-CC09-D125x14-d40-Z12
			ASDM-CC09-D160x14-d40-Z14
			ASDM-CC09-D200x14-d40-Z16
		CC.. 1204.. (Para ISO)	ASDM-CC12-D80x16-d27-Z06
			ASDM-CC12-D100x16-d32-Z08
			ASDM-CC12-D125x16-d40-Z10
			ASDM-CC12-D160x16-d40-Z12
			ASDM-CC12-D200x16-d40-Z14
			ASDM-CC12-D80x18-d27-Z06
			ASDM-CC12-D100x18-d32-Z08
			ASDM-CC12-D125x18-d40-Z10
			ASDM-CC12-D160x18-d40-Z12
			ASDM-CC12-D200x18-d40-Z14
			ASDM-CC12-D250x18-d40-Z16
			ASDM-CC12-D80x20-d27-Z06
			ASDM-CC12-D100x20-d32-Z08
			ASDM-CC12-D125x20-d40-Z10
			ASDM-CC12-D160x20-d40-Z12
			ASDM-CC12-D200x20-d40-Z14
			ASDM-CC12-D250x20-d40-Z16

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Tipo de Calidades y Rompevirutas

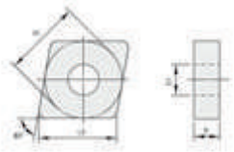
Calidad	Dureza	Recubrimiento	Color	Tipo	Información
OC2015	1530	CVD	DORADO	●	Anti-deformación y alta resistencia a temperatura. Adecuada para el semiacabado - Acabado en aceros
OC2025	1480	CVD	DORADO	●	"Anti-deformación y alta tenacidad Adecuada para el semiacabado - Acabado en aceros"
OC2115	1530	CVD	NEGRO	●	"Alta resistencia al desgaste Adecuada para el semiacabado - Acabado en aceros"
OC2125	1480	CVD	NEGRO	●	"Alta resistencia al desgaste Adecuada para el semiacabado - Acabado en aceros"
OC3105	1700	CVD	NEGRO	●	"Alta resistencia al desgaste estable Adecuada para el semiacabado - Acabado en Fundición"
OC3115D	1580	CVD	NEGRO	●	"Alta resistencia al desgaste, interrumpido Adecuada para el semiacabado - Acabado en Fundición"
OC3215	1580	CVD	NEGRO	●	"Alta resistencia al desgaste, Alta velocidad Adecuada para el semiacabado - Acabado en Fundición"
OC4025	1330	CVD	DORADO	●	"Alta resistencia al corte interrumpido Desbaste - Adecuado para Aceros"
OC4035	1300	CVD	DORADO	●	"Alta resistencia malas condiciones Desbaste - Adecuado para Aceros"
OC4315	1480	CVD	DORADO	●	"Alta resistencia Adecuado para Inoxidables"
OP2202	1650	PVD	GRIS	● ●	Adecuado para Aceros - Fundición
OP1030	1500	PVD	GRIS	● ●	Adecuado para Aceros - Inoxidables
OP1205	1650	PVD	MORADO OSCURO	● ●	Adecuado para Aceros - Inoxidables
OP1215	1560	PVD	MORADO OSCURO	● ●	"Semi-Acabado Torneado / Ranurado / Taladrado Adecuado para Aceros - Inoxidables"
OP1315	1560	PVD	GRIS	● ●	"Semi Acabado Torneado / Ranurado / Taladrado Adecuado para Aceros - Inoxidables"
OP1105	-	PVD	DORADO	●	Adecuado para Materiales Especiales

Rompevirutas	Uso	Para Materiales	Color
OPF	Placa de Acabado	P – Aceros	●
OTF	Placa de Acabado	Aceros - Inoxidables	● ●
OMF	Placa de Acabado	Inoxidables	●
MSF	Placa de Acabado	Inoxidables – Materiales Especiales	● ●
OSF	Placa de Acabado	Materiales Especiales	●
OPM	Placa de Semi-Acabado	Aceros	●
OTM	Placa de Semi-Acabado	Aceros – Inoxidables	● ●
GM	Placa de Semi-Acabado	Aceros – Inoxidables	● ●
MF	Placa de Semi-Acabado	Inoxidables	●
OMM	Placa de Semi-Acabado	Inoxidables	●
Neutro	Placa de Semi-Acabado	Fundición	●
NL	Placa de Semi-Acabado	Aluminios-Plásticos	●
OSM	Placa de Semi-Acabado	Materiales Especiales	●
OPR	Desbaste	Aceros	●
OTR	Desbaste	Inoxidables	●
Neutro	Desbaste	Fundición	●

Nota: ▲ (Recomendado) - ● (Opcional)

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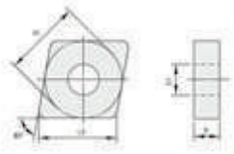
Placas Torneado – CN...



Modelo		Dimensiones					P	P	P	P	M	M	M	M	K	K	K	S	Rompevirutas
		LE	IC	S	D1	RE	OC2015	OC2025	OC2115	OC2125	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105	
	CNMG120404-OPF	12,9	12,7	4,76	5,16	0,4			▲	•									OPF – OMF – MSF ACABADO
	CNMG120408-OPF	12,9	12,7	4,76	5,16	0,8			▲	•									
	CNMG120404-OMF	12,9	12,7	4,76	5,16	0,4					•	•	▲	•					
	CNMG120408-OMF	12,9	12,7	4,76	5,16	0,8					•	•	▲	•					
	CNMG090304-MSF	9,7	9,525	3,18	3,81	0,4					•	•	▲	•					
	CNMG120404-MSF	12,9	12,7	4,76	5,16	0,4					•	•	▲	•					
	CNMG120404-OPM	12,9	12,7	4,76	5,16	0,4			•	▲									OPM – OMM – MF OSM SEMI-ACABADO
	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	15,87	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			•	▲									
	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				•	•	•	▲	•					
	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													
	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												•	
	CNMG120408-OPR	12,9	12,7	4,76	5,16	0,8		•	•	▲							•		OPR DESBASTE
	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		•	•	▲							•		
	CNMG190616-PR	19,3	19,05	6,35	7,94	1,6		•	•	▲							•		PR GRAN DESBASTE

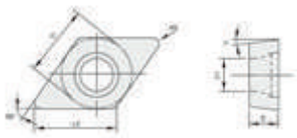
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Placas Torneado – CN...



Modelo		Dimensiones					P	P	P	P	M	M	M	M	K	K	K	S	Rompevirutas
		LE	IC	S	D1	RE	OC2015	OC2025	OC2115	OC2125	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105	
	CNMG120404	12.9	12.7	4.76	5.16	0.4		•	•	•					•	▲	•		NEUTRO SEMI-ACABADO
	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		•	•	•					•	▲	•		
	CNMA120404	12.9	12.7	4.76	5.16	0.4									•	▲	•		
	CNMA120408	12.9	12.7	4.76	5.16	0.8									•	▲	•		NEUTRO DESBASTE
	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									•	▲	•		

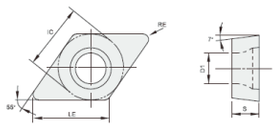
Placas Torneado – DN...



Modelo		Dimensiones					P	P	P	P	M	M	M	M	K	K	K	S	Rompevirutas
		LE	IC	S	D1	RE	OC2015	OC2025	OC2115	OC2125	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105	
	DNMG110404-OPF	11.6	9.525	4.76	3.81	0.4		▲	•										OPF – MSF – OMF ACABADO
	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		▲	•										
	DNMG110404-MSF	11.6	9.525	4.76	3.81	0.4				•	•	▲	•						
	DNMG150404-MSF	15.5	12.7	4.76	5.16	0.4				•	•	▲	•						
	DNMG150604-OMF	15.5	12.7	6.35	5.16	0.4				•	•	▲	•						
	DNMG150608-OMF	15.5	12.7	6.35	5.16	0.8				•	•	▲	•						

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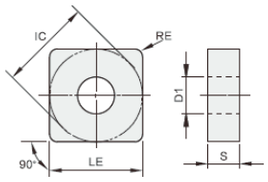
Placas Torneado – DN...



Modelo		Dimensiones					P	P	P	P	M	M	M	M	K	K	K	S	Rompevirutas
		LE	IC	S	D1	RE	OC2015	OC2025	OC2115	OC2125	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105	
	DNMG110404-OPM	11.6	9.525	4.76	3.81	0.4		•	▲										OPM – OMM – MF SEMI-ACABADO
	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		•	▲							•			
	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			•	•	•	▲	•						
	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					•	▲	•						
	DNMG150408-OPR	15.5	12.7	4.76	5.16	0.8		•	•	▲						•			OPR DESBASTE
	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		•	•	▲						•			
															•	▲	•		
	DNMG150604	15.5	12.7	6.35	5.16	0.4			•	•					•	▲	•		NEUTRO SEMI-ACABADO
	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			•	•					•	▲	•		
	DNMA110416	11.6	9.525	4.76	3.81	1.6									•	▲	•		NEUTRO DESBASTE
	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									•	▲	•		

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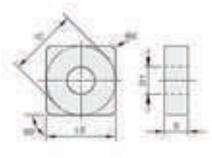
Placas Torneado – SN...



Modelo		Dimensiones					P	P	P	P	M	M	M	M	K	K	K	S	Rompevirutas
		LE	IC	S	D1	RE	OC2015	OC2025	OC2115	OC2125	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105	
	SNMG120404-OPF	12.7	12.7	4.76	5.16	0.4			▲	•									OPF – OMF ACABADO
	SNMG120408-OPF	12.7	12.7	4.76	5.16	0.8			▲	•									
	SNMG120408-OMF	12.7	12.7	4.76	5.16	0.8					•	•	▲	▲					
	SNMG120404-OPM	12.7	12.7	4.76	5.16	0.4			•	▲						•			OPM – OMM MF – OSM SEMI-ACABADO
	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			•	▲						•			
	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				•	•	•	▲	•					
	SNMG120408-MF	12.7	12.7	4.76	5.16	0.8					•	•	▲	•					
	SNMG120408-OSM	12.7	12.7	4.76	5.16	0.8												•	
	SNMG120408-OPR	12.7	12.7	4.76	5.16	0.8		•	•	▲									OPR – PR DESBASTE
	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		•	•	▲									
	SNMM190624-PR	19.05	19.05	6.35	7.94	2.4		•	•	▲									
	SNMM250924-PR	25.4	25.4	9.52	9.13	2.4		•	•	▲									
	SNMG090304	9.525	9.525	3.18	3.81	0.4				•					•	▲	•		NEUTRO SEM-ACABADO
	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		•	•	▲						•			

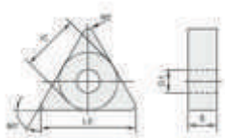
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Placas Torneado – SN...



Modelo		Dimensiones					P	P	P	P	M	M	M	M	K	K	K	S	Rompevirutas
		LE	IC	S	D1	RE	OC2015	OC2025	OC2115	OC2125	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105	
	SNMA120408	12.7	12.7	4.76	5.16	0.8									•	▲	•		NEUTRO DESBASTE
	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										•	•		

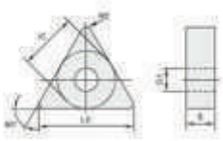
Placas Torneado – TN...



Modelo		Dimensiones					P	P	P	P	M	M	M	M	K	K	K	S	Rompevirutas
		LE	IC	S	D1	RE	OC2015	OC2025	OC2115	OC2125	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105	
	TNMG160404-OPF	16.5	9.525	4.76	3.81	0.4			▲	•									OPF – OMF – MSF ACABADO
	TNMG160408-OPF	16.5	9.525	4.76	3.81	0.8			▲	•									
	TNMG160404-OMF	16.5	9.525	4.76	3.81	0.4					•	•	▲	•					
	TNMG160408-OMF	16.5	9.525	4.76	3.81	0.8					•	•	▲	•					
	TNMG160404-MSF	16.5	9.525	4.76	3.81	0.4					•	•	▲	•					
	TNMG160404-OPM	16.5	9.525	4.76	3.81	0.4			•	▲						•			OPM – OMM – MF SEMI-ACABADO
	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			•	▲						•			
	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				•	•	•	▲	•					
	TNMG220408-OMM	22	12.7	4.76	5.16	0.8				•	•	•	▲	•					
	TNMG220412-OMM	22	12.7	4.76	5.16	1.2				•	•	•	▲	•					
	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					•	•	▲	•					

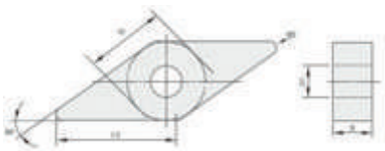
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Placas Torneado – TN...



Modelo		Dimensiones					P	P	P	P	M	M	M	M	K	K	K	S	Rompevirutas
		LE	IC	S	D1	RE	OC2015	OC2025	OC2115	OC2125	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105	
	TNMG160404-OPR	16.5	9.525	4.76	3.81	0.4		•	•	▲						•			OPR DESBASTE
	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		•	•	▲						•			
	TNMG160408	16.5	9.525	4.76	3.81	0.8		•	•	•					•	▲	•		NEUTRO DESBASTE
	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		•	•	•					•	▲	•		
	TNMA160404	16.5	9.525	4.76	3.81	0.4									•	▲	•		NEUTRO DESBASTE
	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									•	▲	•		
	TNMA270616	27.5	15.9	6.35	6.35	1.6									•	▲	•		

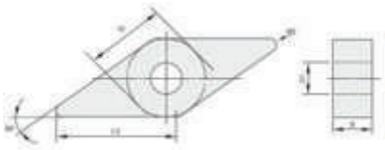
Placas Torneado – VN...



Modelo		Dimensiones					P	P	P	P	M	M	M	M	K	K	K	S	Rompevirutas
		LE	IC	S	D1	RE	OC2015	OC2025	OC2115	OC2125	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105	
	VNMG160404-OPF	16.6	9.525	4.76	3.81	0.4			▲	•									OPF – MSF ACABADO
	VNMG160408-OPF	16.6	9.525	4.76	3.81	0.8			▲	•									
	VNMG160404-MSF	16.6	9.525	4.76	3.81	0.4					•	•	▲	•					
	VNMG160404-OPM	16.6	9.525	4.76	3.81	0.4			•	▲					•				OPM SEMI-ACABADO
	VNMG160408-OPM	16.6	9.525	4.76	3.81	0.8			•	▲					•				
	VNMG160412-OPM	16.6	9.525	4.76	3.81	1.2			•	▲					•				

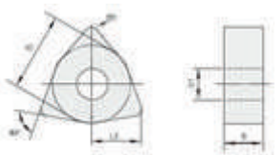
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Placas Torneado – VN...



Modelo		Dimensiones					P	P	P	P	M	M	M	M	K	K	K	S	Rompevirutas
		LE	IC	S	D1	RE	OC2015	OC2025	OC2115	OC2125	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105	
	VNMG160404-OMM	16.6	9.525	4.76	3.81	0.4				•	•	•	▲	•					OMM – MF SEMI-ACABADO
	VNMG160408-OMM	16.6	9.525	4.76	3.81	0.8				•	•	•	▲	•					
	VNMG160408-MF	16.6	9.525	4.76	3.81	0.8					•	•	▲	•					
	VNMG160408-OPR	16.6	9.525	4.76	3.81	0.4		•	•	▲						•			OPR DESBASTE
	VNMG160412-OPR	16.6	9.525	4.76	3.81	0.8		•	•	▲						•			
	VNMG160404	16.6	9.525	4.76	3.81	0.4		•	•						•	▲	•		NEUTRO SEMI-ACABADO
	VNMG160408	16.6	9.525	4.76	3.81	0.8		•	•						•	▲	•		
	VNMA160404	16.6	9.525	4.76	3.81	0.4									•	▲	•		NEUTRO DESBASTE
	VNMA160408	16.6	9.525	4.76	3.81	0.4									•	▲	•		

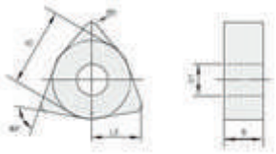
Placas Torneado – WN...



Modelo		Dimensiones					P	P	P	P	M	M	M	M	K	K	K	S	Rompevirutas
		LE	IC	S	D1	RE	OC2015	OC2025	OC2115	OC2125	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105	
	WNMG060404-OPF	6.5	9.525	3.97	3.81	0.4			▲	•									OPF – OMF – MSF ACABADO
	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			▲	•									
	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					•	•	▲	•					
	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					•	•	▲	•					
	WNMG060408-OPM	6.5	9.525	4.76	3.81	0.4			•	▲						•			OPM SEMI-ACABADO
	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			•	▲						•			

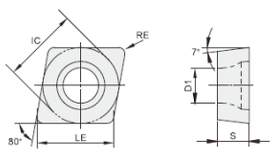
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Placas Torneado – WN...



Modelo		Dimensiones					P	P	P	P	M	M	M	M	K	K	K	S	Rompevirutas
		LE	IC	S	D1	RE	OC2015	OC2025	OC2115	OC2125	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105	
	WNMG060408-OMM	6.5	9.525	4.76	3.81	0.8				•	•	•	▲	•					OMM – MF SEMI-ACABADO
	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				•	•	•	▲	•					
	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					•	•	▲	•					
	WNMG080408-OPR	8.7	12.7	4.76	5.16	0.8		•	•	▲						•			OPR DESBASTE
	WNMG080412-OPR	8.7	12.7	4.76	5.16	1.2		•	•	▲						•			
	WNMG080404	8.7	12.7	4.76	5.16	0.4		•	•	•					•	▲	•		NEUTRO SEMI-ACABADO
	WNMG080408	8.7	12.7	4.76	5.16	0.8		•	•	•					•	▲	•		
	WNMG080412	8.7	12.7	4.76	5.16	1.2		•	•	•					•	▲	•		
	WNMA060404	6.5	9.525	4.76	3.81	0.4									•	▲	•		NEUTRO DESBASTE
	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									•	▲	•		

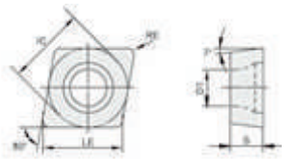
Placas Torneado – CC...



Modelo		Dimensiones					P	P	P	P	M	M	M	M	K	K	K	S	Rompevirutas
		LE	IC	S	D1	RE	OC2015	OC2025	OC2115	OC2125	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105	
	CCMT060202-OTF	6.4	6.35	2.38	2.8	0.2			▲	•			▲	•					OTF ACABADO
	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			▲	•			▲	•					

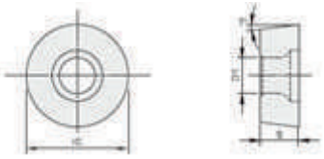
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Placas Torneado – CC...



Modelo		Dimensiones					P	P	P	P	M	M	M	M	K	K	K	S	Rompevirutas
		LE	IC	S	D1	RE	OC2015	OC2025	OC2115	OC2125	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105	
	CCMT060204-OTM	6.4	6.35	2.38	2.8	0.4			•	▲			•	•					OTM SEMI-ACABADO
	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			•	▲			•	•					
	CCMT060202-MSF	6.4	6.35	2.38	2.8	0.4						•	▲	•					MSF ACABADO
	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						•	▲	•					
	CCMT060204-GM	6.4	6.35	2.38	2.8	0.4			•	▲			▲	•					GM SEMI-ACABADO
	CCMT060208-GM	6.4	6.35	2.38	2.8	0.8			•	▲			▲	•					
	CCMT09T304-GM	9.7	9.525	3.97	4.4	0.4			•	▲			▲	•					
	CCMT09T308-GM	9.7	9.525	3.97	4.4	0.8			•	▲			▲	•					
	CCMT120404-GM	12.9	12.7	4.76	5.56	0.4			•	▲			▲	•					
	CCMT120408-GM	12.9	12.7	4.76	5.56	0.8			•	▲			▲	•					
	CCMT120412-GM	12.9	12.7	4.76	5.56	1.2													
	CCMT060204-OTR	6.4	6.35	2.38	2.8	0.4			•	▲						▲	•		OTR DESBASTE
	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			•	▲						▲	•		

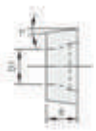
Placas Torneado – RC...



Modelo		Dimensiones					P	P	P	P	M	M	M	M	K	K	K	S	Rompevirutas
		LE	IC	S	D1	RE	OC2015	OC2025	OC2115	OC2125	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105	
	RCMT0803MO	8.0	8.0	3.18	3.36			•		▲	▲								SEMI-ACABADO
	RCMT1606MO	16	16	6.35	5.5			•		▲	▲								
	RCMX0803MO	8.0	8.0	3.2	3.36			•		▲	▲	•				•			ACABADO DESBASTE
	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			•		▲	▲	•				•			

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Placas Torneado – DC...

Modelo		Dimensiones					P	P	P	P	M	M	M	M	K	K	K	S	Rompevirutas
		LE	IC	S	D1	RE	OC2015	OC2025	OC2115	OC2125	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105	
	DCMT070202-OTF	7.8	6.35	2.38	2.8	0.2			▲	•			▲	•					OTF ACABADO
	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			▲	•			▲	•					
	DCMT070204-OTM	7.8	6.35	2.38	2.8	0.4			•	▲			•	•		•			OTM – GM SEMI-ACABADO
	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			•	▲			•	•		•			
	DCMT070204-GM	7.8	6.35	2.38	2.8	0.4			•	▲			▲	•					
	DCMT070208-GM	7.8	6.35	2.38	2.8	0.8			•	▲			▲	•					
	DCMT11T304-GM	11.6	9.525	3.97	4.4	0.4			•	▲			▲	•					
	DCMT11T308-GM	11.6	9.525	3.97	4.4	0.8			•	▲			▲	•					
	DCMT11T304-OTR	11.6	9.525	3.97	4.4	0.4			•	▲						▲	•		OTR DESBASTE
	DCMT11T308-OTR	11.6	9.525	3.97	4.4	0.8			•	▲						▲	•		
	DCMT11T312-OTR	11.6	9.525	3.97	4.4	1.2			•	▲						▲	•		

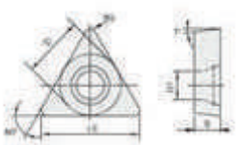
Placas Torneado – SC...




Modelo		Dimensiones					P	P	P	P	M	M	M	M	K	K	K	S	Rompevirutas
		LE	IC	S	D1	RE	OC2015	OC2025	OC2115	OC2125	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105	
	SCMT09T302-OTF	9.525	9.525	3.97	4.4	0.2			▲	•		•	▲						OTF ACABADO
	SCMT09T304-OTF	9.525	9.525	3.97	4.4	0.4			▲	•		•	▲						
	SCMT09T308-OTF	9.525	9.525	3.97	4.4	0.8			▲	•		•	▲						
	SCMT09T304-OTM	9.525	9.525	3.97	4.4	0.4			•	▲		•	•			•			OTM – GM SEMI-ACABADO
	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			•	▲		•	•			•			
	SCMT09T304-GM	9.525	9.525	3.97	4.4	0.4			•	▲		▲	•						
	SCMT09T308-GM	9.525	9.525	3.97	4.4	0.8			•	▲		▲	•						
	SCMT09T304-OTR	9.525	9.525	3.97	4.4	0.4										▲			OTR DESBASTE
	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										▲			

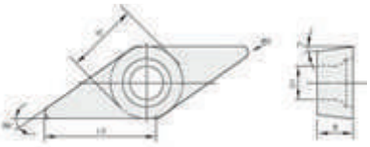
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Placas Torneado – TC...



Modelo		Dimensiones					P	P	P	P	M	M	M	M	K	K	K	S	Rompevirutas
		LE	IC	S	D1	RE	OC2015	OC2025	OC2115	OC2125	OC4315	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105	
	TCMT110202-OTF	11	6.35	2.38	2.8	0.2			▲	•			▲	•					OTF ACABADO
	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			▲				▲	•					
	TCMT090204-OTM	9.6	5.56	2.38	2.5	0.4			•	▲			•	•		•			OTM – GM SEMI-ACABADO
	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			•	▲			•	•		•			
	TCMT110204-GM	11	6.35	2.38	2.8	0.4			•	▲			▲	•					
	TCMT110208-GM	11	6.35	2.38	2.8	0.8			•	▲			▲	•					
	TCMT16T304-GM	16.5	9.525	3.97	4.4	0.4			•	▲			▲	•					
	TCMT16T308-GM	16.5	9.525	3.97	4.4	0.8			•	▲			▲	•					
	TCMT16T304-OTR	16.5	9.525	3.97	4.4	0.4			•	▲						▲	•		OTR DESBASTE
	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			•	▲						▲	•		

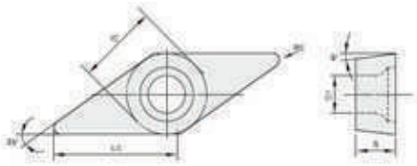
Placas Torneado – VC...



Modelo		Dimensiones					P	P	P	P	M	M	M	M	K	K	K	S	Rompevirutas
		LE	IC	S	D1	RE	OC2025	OC2115	OC2125	OK6110	OC4225	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105	
	VCMT110302-OTF	11	6.35	3.18	2.8	0.2		▲	•				▲	•					OTF – OSF ACABADO
	VCMT110304-OTF	11	6.35	3.18	2.8	0.4		▲	•				▲	•					
	VCMT160404-OTF	16.5	9.525	4.76	4.4	0.4		▲	•				▲	•					
																			
	VCGT160408-OSF	16.5	9.525	4.76	4.4	0.8												•	
	VCMT160404-OTM	16.5	9.525	4.76	3.81	0.4		▲	•				▲	•					OTM – OSM SEMI-ACABADO
	VCMT160408-OTM	16.5	9.525	4.76	3.81	0.8		▲	•				▲	•					
													▲	•					
	VCMT160408-OSM	16.5	9.525	4.76	4.4	0.8												•	

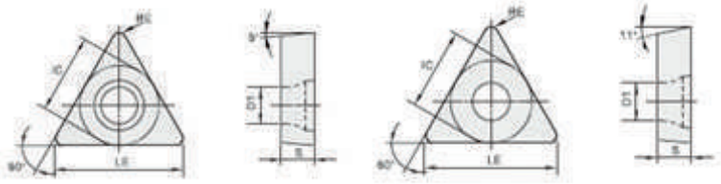
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Placas Torneado – VB...



Modelo		Dimensiones					P	P	P	P	M	M	M	M	K	K	K	S	Rompevirutas
		LE	IC	S	D1	RE	OC2025	OC2115	OC2125	OK6110	OC4225	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105	
	VBMT160404-OTF	16.5	9.525	4.76	4.4	0.4		▲	•				▲	•					OTF ACABADO
	VBMT160408-OTF	16.5	9.525	4.76	4.4	0.8		▲	•				▲	•					
	VBMT110304-OTM	11	6.35	3.18	2.8	0.4		•	▲				•	•		•			OTM – OSF – GM SEMI-ACABADO
	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		•	▲				•	•		•			
	VBMT160404-OSF	16.5	9.525	4.76	4.4	0.4		•	▲				•	•		•			
	VBMT160408-OSF	16.5	9.525	4.76	4.4	0.8		•	▲				•	•		•			
	VBMT160404-GM	16.5	9.525	4.76	4.4	0.4		•	▲				▲	•				•	
	VBMT160408-GM	16.5	9.525	4.76	4.4	0.8		•	▲				▲	•				•	
	VBMT160404-OTR	16.5	9.525	4.76	4.4	0.4			•	▲						▲	•		OTR DESBASTE
	VBMT160408-OTR	16.5	9.525	4.76	4.4	0.8			•	▲						▲	•		
	VBMT160412-OTR	16.5	9.525	4.76	4.4	1.2			•	▲						▲	•		

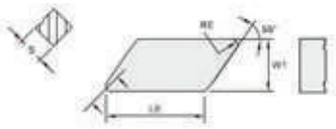
Placas Torneado – TB... / TP...



Modelo		Dimensiones					P	P	P	P	M	M	M	M	K	K	K	S	Rompevirutas
		LE	IC	S	D1	RE	OC2025	OC2115	OC2125	OK6110	OC4225	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105	
	TBGH060102L	6.4	3.97	1.59	2.2	0.2				▲		•							ACABADO
	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				▲		•							
	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				▲		•							
	TPGH11T304R	11	6.35	3.97	3.18	0.4				▲		•							

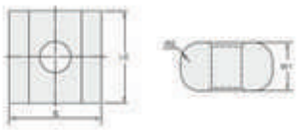
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Placas Torneado – KN...



Modelo		Dimensiones					P	P	P	P	M	M	M	M	K	K	K	S	Rompevirutas
		LE	W1	S	D1	RE	OC2015	OC2025	OC2115	OC2125	OC4225	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105	
	KNUX160405L11	16.2	9.525	4.76	2.2	0.5		•		•		•				•			SEMI-ACABADO
	KNUX160405R11	16.2	9.525	4.76	2.2	0.5		•		•		•				•			

Placas Torneado – 175...



Modelo		Dimensiones					P	P	P	P	M	M	M	M	K	K	K	S	Rompevirutas
		LE	W1	S	D1	RE	OC2015	OC2025	OC2115	OC2125	OC4225	OP1205	OP1215	OP1315	OC3105	OC3215	OC3115D	OP1105	
	175.32-191940-22	19.1	10	19.1	6.35	4	•	•		•									GRAN DESBASTE
	175.32-191940-24	19.1	10	19.1	6.35	4	•	•		•									
	175.32-191940-28	19.1	10	19.1	6.35	4	•	•		•									

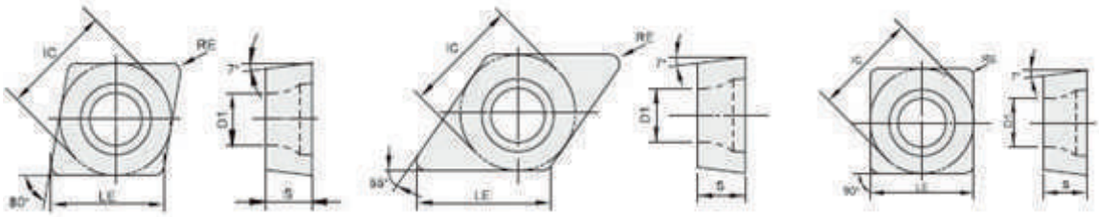
Placas Ranurado



Modelo		Dimensiones			P	P	P	M	M	M	K	K	Rompevirutas
		S0 +0.1	R±0.1	La MAX	OP2202	OP2302	OC2025	OP1302	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			•			•			

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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		
	SEKT1204-NL	13.4	13.4	3.97	4.1	2.55	OK434	NL Adecuado materiales de aluminio y aleaciones
	APKT1035-NL	9.52	6.35	3.22	2.5	0.4	OK434	NL Adecuado materiales de aluminio y aleaciones
	APGT1135PDER-NL	11.39	6.2	3.5	2.8	0.4	OK434	NL Adecuado materiales de aluminio y aleaciones
	ADKT150508-NL	14.20	9.65	5.65	4.45	0.8	OK434	NL Adecuado materiales de aluminio y aleaciones
	APKT160402-NL	17.2	9.2	4.76	4.4	0.2	OK434	NL Adecuado materiales de aluminio y aleaciones
	RCGT1204MO	-	12	4.76	4.4	0.4	OK434	NL Adecuado materiales de aluminio y aleaciones

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Roscado General 60º Perfil Parcial

Rosca Exterior			
Referencia Derecha	**Referencia Izquierda**	**Paso mm**	**Paso TPI**
RT1601G-A60M	LT1601G-A60M	0.5-1.5	48-16
RT1601G-AG60M	LT1601G-AG60M	0.5-1.5	26-8
RT1601G-G60M	LT1601G-G60M	0.5-3.0	14-8
RT2201G-N60M	LT2201G-N60M	3.5-5.0	7-5

Rosca Interior			
Referencia Derecha	**Referencia Izquierda**	**Paso mm**	**Paso TPI**
RT1601L-A60M	LT1601L-A60M	0.5-1.5	48-16
RT1101L-AG60M	LT1101L-AG60M	1.0-3.0	26-8
RT1601L-G60M	LT1601L-G60M	1.75-3.0	14-8
RT2201L-N60M	LT2201L-N60M	3.5-5.0	7-5

Roscado General 60º Perfil Completo

Rosca Exterior			
Referencia Derecha	Referencia 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

Rosca Interior			
Referencia Derecha	Referencia 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

Roscado General 55º Perfil Parcial

Rosca Exterior			
Referencia Derecha	Referencia Izquierda	Paso mm	Paso TPI
RT1601G-A55M	LT1601G-A55M	0.5-1.5	48-16
RT1601G-AG55M	LT1601G-AG55M	1.0-3.0	36-8
RT1601G-G55M	LT1601H-H55M	1.75-3.0	14-8
RT2201G-N55M	LT2201G-N55M	3.5-5.0	7-5

Rosca Interior			
Referencia Derecha	Referencia Izquierda	Paso mm	Paso TPI
RT1601L-A55M	LT1601L-A55M	0.5-1.5	48-16
RT1601L-AG55M	LT1601L-AG55M	1.0-3.0	36-8
RT1601L-G55M	LT1601L-G55M	1.75-3.0	14-8
RT2201L-N55M	LT2201L-N55M	3.5-5.0	7-5

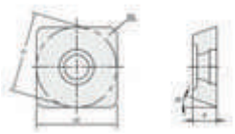
Roscado General 55º Perfil Completo

Rosca Exterior			
Referencia Derecha	Referencia 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

Rosca Interior			
Referencia Derecha	Referencia 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

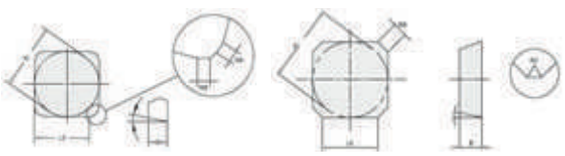
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Placas de Fresado SEET... | SEET12T3...



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	▲	•	•	•	•	•
	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	▲	•	•	•	•	•

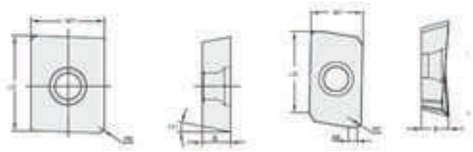
Placas de Fresado SPKN... | SPKR...



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	▲	•	•	•	•	•
	SPKR1504EDL-YR	15.875	15.875	4.51		1.4	▲	•	•	•	•	•
	SPKR1504EDR-YR	15.875	15.875	4.51		1.4	▲	•	•	•	•	•

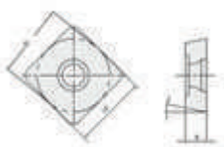
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Placas de Fresado APKT... | APMT... | ADKT...



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	▲	•	•	•	•	•
	ADKT1505PDR	9.65	14.20	5.65	4.45	0.8		▲				
	APKT170408PDR	10.70	18.50	5.70	0.80	4.70		▲				

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-MM	12.7	12.7	4.76	5.5	0.8	▲	•	•	•	•	•
	SPMT120408-HT-1	12.7	12.7	4.76	5.5	0.8	▲	•	•	•	•	•

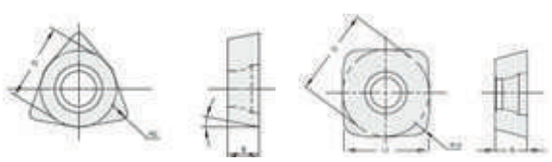
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Placas de Fresado RCKT... | RCKW... | RCKX... | RPEW...



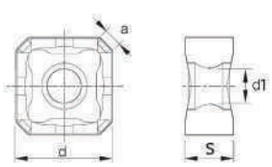
Modelo		Dimensiones					Calidades					
		IC	S	D1			OP1315	OP1215	OP2202	OP1030	OC4025	OC4035
	RCKT1204MO-OPR	12	4.76	4.4			▲	•	•	•	•	•
	RCKT1606MO-OPR	16	6.35	5.56			▲	•	•	•	•	•
	RCKT1606MO-OPM	16	6.35	5.56			▲	•	•	•	•	•
	RDKW0803MO-BG	8	3.18	3.4			▲	•	•	•	•	•
	RDKW10T3MO-BG	10	3.97	4.4			▲	•	•	•	•	•
	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 WP... | SD...



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°	-	▲	•	•	•	•	•
	WPGT080615ZSR	12.85	1.5	6.35	5.5	11°	-						
	WPGT090725ZSR	15	2.5	7	5.5	11°	-						
	SDMT09T312-OPM	9.52	9.52	-	3.97	1.4	15°	▲					
	SDMT120412-OPM	12.7	12.7	-	4.76	2	15°	▲	•	•	•	•	•

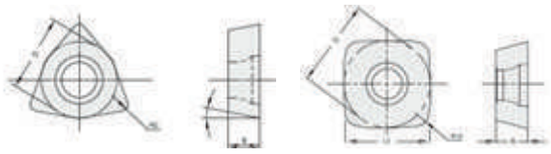
Placas de Fresado SNBX...



	Modelo	Dimensiones					Calidades					
		d	I	s	r	d1	OP1315	OP1215	OP2202	OP1030	OC4025	OC4035
	SNBX1206-A1	12.70	12.70	6.35	0.80	4.40		▲				

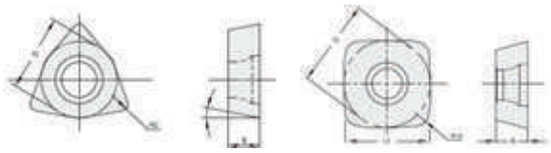
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Placas de Fresado-Copiado ROHX... | KFB...



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	-	▲	●	●	●	●	●
	KFB120CF	12	-	2.5	5	6		▲				
	KFB160CF	16	-	3	5	8		▲				
	KFB200CF	20	-	3	5	10		▲				
	KFB250CF	25	-	4	6	12.5		▲				

Placas de Taladrado SPGT... | WCMX... | SPMT...



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	▲	●
	SPMG050204	5	5	2.38	0.4	2.2	▲	
	SPMG060204	6	6	2.38	0.4	2.7	▲	
	SPMG07T308	8	7	3.97	0.8	2.8	▲	
	SPMT090408	9.8	9.8	4.30	0.8	3.7	▲	
	SPMT110408	11.5	11.5	4.98	0.8	4.2	▲	

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