

BRIGHT-TOOLS

CATALOGO 2016





INDICE DE PRODUCTOS

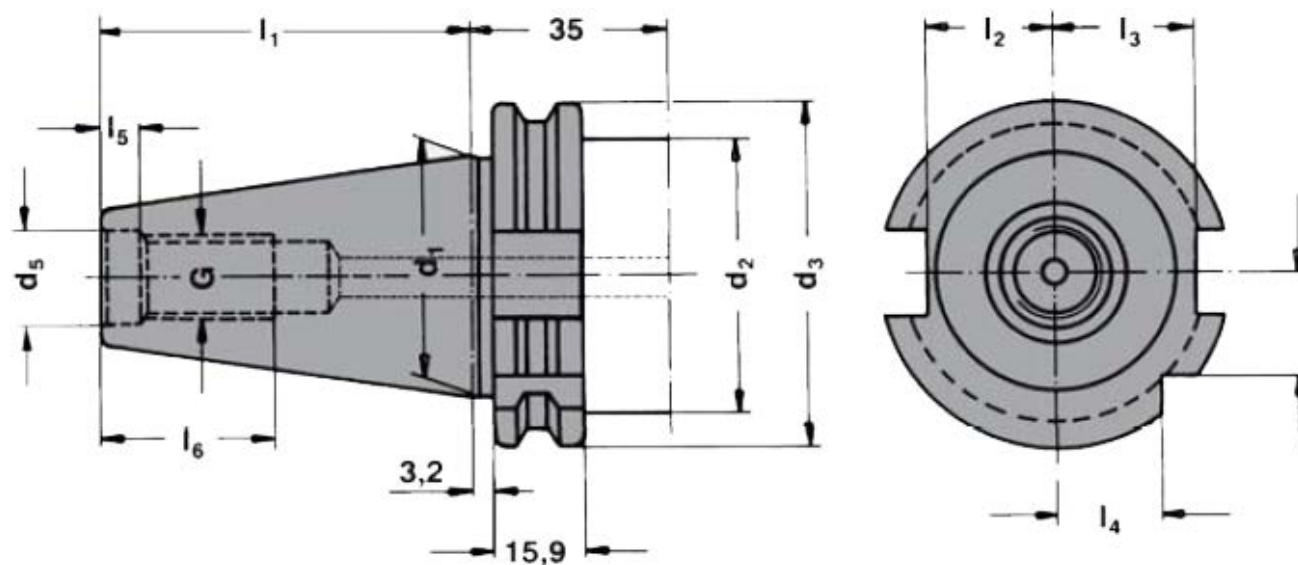


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DIN 69871



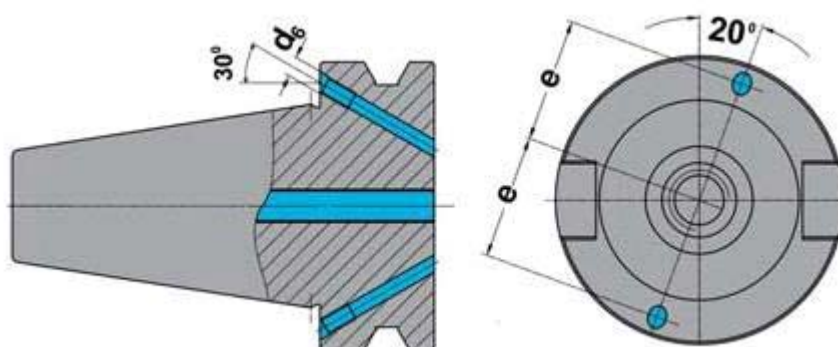
INFORMACION GENERAL DIN 69871 – AD/B



Dimensiones Generales de Amarre

SK	D1	G	D5	D2	A	L1	L2	L3	L5	L6	E	D6
30	31.75	M12	13	45	80.0	47.8	16.4	19.0	15.0	5.5	21	M4
40	44.45	M16	17	50	63.55	68.4	22.8	25.0	18.5	8.2	27	M4
50	69.85	M24	25	80	97.5	101.75	35.5	37.7	30.0	11.5	42	M6

Modelos con Refrigeración Interna AD/B



Modelos Disponibles con sistema AD/B, Excepto indicados en catalogo con (*)

Portapinzas Para Pinzas DIN 6388 – OZ

Referencia	SK	Capacidad	A	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

* DIN 69871 - AD



Portapinzas Para Pinzas DIN 6499 - ER

Referencia	SK	Capacidad	A	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
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
S02.503.10.1	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
S02.503.10.3	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
S02.503.16.4	SK 50	2-16 (ER 25)	250	42
S02.503.20.4	SK 50	2-20 (ER 32)	250	50

* DIN 69871 AD



NOTA: Consultenos fuera de Catalogo, Portapinzas para Pinzas ER8 – ER11 – ER20 – ER50



Portapinzas Gran Apriete HKS

Referencia	SK	Capacidad	A	D
S64.403.20	SK40	20 – HKS 20	90	53
S64.403.32	SK40	32 – HKS 32	105	68
S64.503.20	SK50	20 – HKS 20	90	53
S64.503.32	SK50	32 – HKS 32	90	68



Portafresas Weldon DIN 6359 – Para Fresas Din 1835-B

Referencia	SK	DH4	A	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
S04.403.16.0	SK 40	16	35	45
S04.403.20.0	SK 40	20	35	45
S04.403.25.0	SK 40	25	35	50
S04.403.32.0	SK 40	32	65	50
S04.403.06	SK 40	6	50	25
S04.403.08	SK 40	8	50	28
S04.403.10	SK 40	10	50	35
S04.403.12	SK 40	12	50	42
S04.403.14	SK 40	14	50	44
S04.403.16	SK 40	16	63	48
S04.403.18	SK 40	18	63	50
S04.403.20	SK 40	20	63	52
S04.403.25	SK 40	25	100	65
S04.403.32	SK 40	32	100	72
S04.403.40	SK 40	40	120	80
S04.503.06	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

* DIN 69871 AD



Portafresas Weldon Ejecución Larga SK40 (100MM)

Referencia	SK	DH4	A	D
S04.403.06.1	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



Portafresas Weldon Ejecución Larga SK40 (160-200MM)

Referencia	SK	DH4	A	D
S04.403.06.2	SK 40	6	160	25
S04.403.08.2	SK 40	8	160	28
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



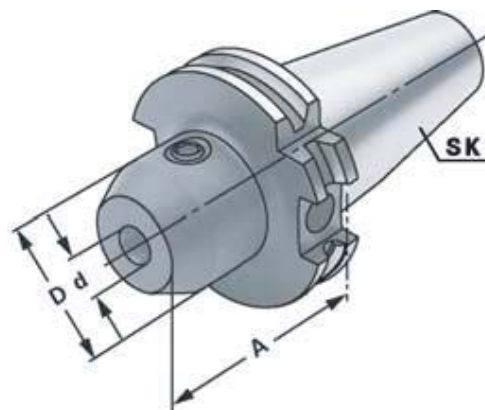
Portafresas Weldon Ejecución Larga SK50 (100-160-200-250MM)

Referencia	SK	DH4	A	D
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
S04.503.18.1	SK 50	18	100	50
S04.503.20.1	SK 50	20	100	52
S04.503.25.1	SK 50	25	120	65
S04.503.06.2	SK 50	6	160	25
S04.503.08.2	SK 50	8	160	28
S04.503.10.2	SK 50	10	160	35
S04.503.12.2	SK 50	12	160	42
S04.503.14.2	SK 50	14	160	44
S04.503.16.2	SK 50	16	160	48
S04.503.18.2	SK 50	18	160	50
S04.503.20.2	SK 50	20	160	52
S04.503.25.2	SK 50	25	160	65
S04.503.32.2	SK 50	32	160	72
S04.503.40.2	SK 50	40	160	80
S04.503.08.3	SK 50	8	200	28
S04.503.10.3	SK 50	10	200	35
S04.503.12.3	SK 50	12	200	42
S04.503.14.3	SK 50	14	200	44
S04.503.16.3	SK 50	16	200	48
S04.503.18.3	SK 50	18	200	50
S04.503.20.3	SK 50	20	200	52
S04.503.25.3	SK 50	25	200	65
S04.503.32.3	SK 50	32	200	72
S04.503.40.3	SK 50	40	200	80
S04.503.20.4	SK 50	20	250	52
S04.503.25.4	SK 50	25	250	65
S04.503.32.4	SK 50	32	250	72



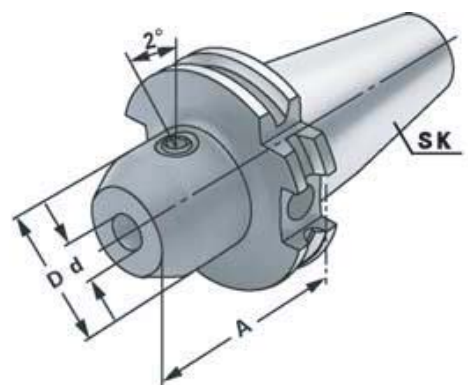
Portafresas Weldon DIN 6359 Refrigeración Interna

Referencia	SK	DH4	A	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



Portafresas Whistle Notch DIN 6359 Para Fresas Din 1835-E

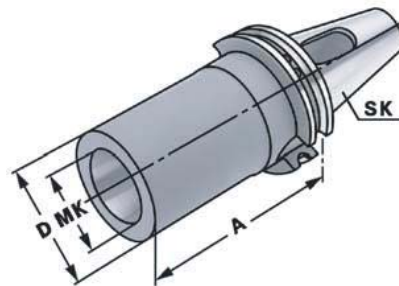
Referencia	SK	d. h4	A	D
S05.403.06	SK 40	6	50	25
S05.403.08	SK 40	8	50	28
S05.403.10	SK 40	10	50	35
S05.403.12	SK 40	12	50	42
S05.403.14	SK 40	14	50	44
S05.403.16	SK 40	16	63	48
S05.403.18	SK 40	18	63	50
S05.403.20	SK 40	20	63	52
S05.403.25	SK 40	25	10	65
S05.403.32	SK 40	32	10	72
S05.403.40	SK 40	40	120	80
S05.503.06	SK 50	6	63	25
S05.503.08	SK 50	8	63	28
S05.503.10	SK 50	10	63	35
S05.503.12	SK 50	12	63	42
S05.503.14	SK 50	14	63	44
S05.503.16	SK 50	16	63	48
S05.503.18	SK 50	18	63	50
S05.503.20	SK 50	20	63	52
S05.503.25	SK 50	25	80	65
S05.503.32	SK 50	32	100	72
S05.502.40	SK 50	40	100	80



Adaptador DIN 6383 - Cono Morse DIN 228-1 Forma B

Referencia	SK	MK	A	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

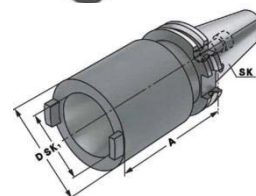
* DIN 69871 AD



Reductor DIN 69871 - ISO

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

* DIN 69871 A



Eje Portafresas Combi - Según DIN 6358 (SK30)

Referencia	SK	Dh6	A	I1
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



Eje Portafresas Combi - Según DIN 6358 (SK-40 – SK50)

Referencia	SK	Dh6	A	I1
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

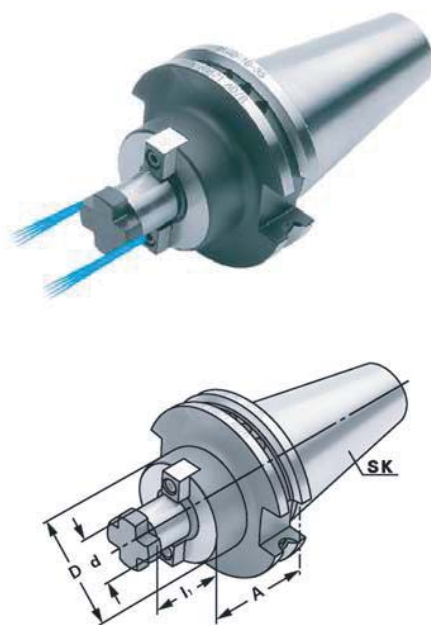
* DIN 69871 AD



Eje Portafresas - Según DIN 6357 – Serie Estándar

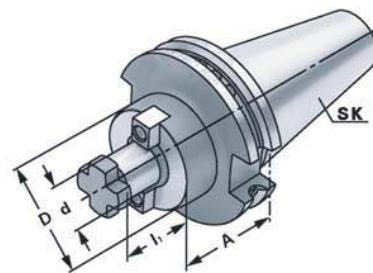
Referencia	SK	Dh6	A	I1
S11.302.16*	SK 30	16	40	17
S11.302.22*	SK 30	22	40	19
S11.302.27*	SK 30	27	50	21
S11.302.32*	SK 30	32	50	24
S11.403.16	SK 40	16	35	17
S11.403.22	SK 40	22	35	19
S11.403.27	SK 40	27	40	21
S11.403.32	SK 40	32	50	24
S11.403.40	SK 40	40	50	27
S11.503.22	SK 50	22	35	48
S11.503.27	SK 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

* DIN 69871 AD



Eje Portafresas - Según DIN 6357 – Serie Larga

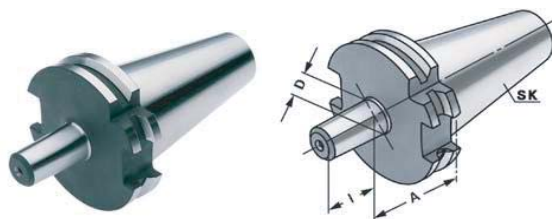
Referencia	SK	Dh6	A	I1
S11.403.16.1	SK 40	16	100	27
S11.403.22.1	SK 40	22	100	19
S11.403.27.1	SK 40	27	100	21
S11.403.32.1	SK 40	32	100	24
S11.403.40.1	SK 40	40	100	17
S11.403.16.2	SK 40	16	160	17
S11.403.22.2	SK 40	22	160	19
S11.403.27.2	SK 40	27	160	21
S11.403.32.2	SK 40	32	160	24
S11.403.40.2	SK 40	40	160	27
S11.403.16.3	SK 40	16	200	17
S11.403.22.3	SK 40	22	200	19
S11.403.27.3	SK 40	27	200	21
S11.403.32.3	SK 40	32	200	24
S11.403.40.3	SK 40	40	200	27
S11.503.16.1	SK 50	16	100	38
S11.503.22.1	SK 50	22	100	48
S11.503.27.1	SK 50	27	100	58
S11.503.32.1	SK 50	32	100	78
S11.503.40.1	SK 50	40	100	88
S11.503.16.2	SK 50	16	160	38
S11.503.22.2	SK 50	22	160	48
S11.503.27.2	SK 50	27	160	58
S11.503.32.2	SK 50	32	160	78
S11.503.40.2	SK 50	40	160	88
S11.503.16.3	SK 50	16	200	38
S11.503.22.3	SK 50	22	200	48
S11.503.27.3	SK 50	27	200	58
S11.503.32.3	SK 50	32	200	78
S11.503.40.3	SK 50	40	200	88
S11.503.16.4	SK 50	16	250	38
S11.503.22.4	SK 50	22	250	48
S11.503.27.4	SK 50	27	250	58
S11.503.32.4	SK 50	32	250	78
S11.503.16.5	SK 50	16	300	38
S11.503.22.5	SK 50	22	300	48
S11.503.27.5	SK 50	27	300	58
S11.503.32.5	SK 50	32	300	78
S11.503.16.6	SK 50	16	350	38
S11.503.22.6	SK 50	22	350	48
S11.503.27.6	SK 50	27	350	58
S11.503.32.6	SK 50	32	350	78
S11.503.22.7	SK 50	22	400	48
S11.503.27.7	SK 50	27	400	58



Eje Adaptador DIN 238

Forma A

Referencia	SK	D	A	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
S14.502.18	SK 50	B18	25	32



Eje Adaptador Portafresas Rosca Métrica

Referencia	SK	Rosca Métrica	L
S19.403.08	SK 40	M-8	50
S19.403.10	SK 40	M-10	50
S19.403.12	SK 40	M-12	50
S19.403.08.1	SK 40	M-8	100
S19.403.08.2	SK 40	M-10	150
S19.403.10.1	SK 40	M-12	100
S19.403.10.2	SK 40	M-8	150
S19.403.12.1	SK 40	M-10	100
S19.403.12.2	SK 40	M-12	150
S19.503.08	SK 50	M-8	50
S19.503.10	SK 50	M-10	50
S19.503.12	SK 50	M-12	50
S19.503.08.1	SK 50	M-8	100
S19.503.08.2	SK 50	M-10	150
S19.503.10.1	SK 50	M-12	100
S19.503.10.2	SK 50	M-8	150
S19.503.12.1	SK 50	M-10	100
S19.503.12.2	SK 50	M-12	150



Eje Adaptador Pinzas de Roscado

Eje Adaptador Pinzas de Roscado con Sistema de Embrage.

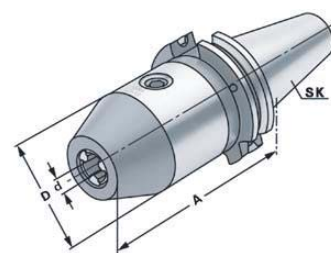
Disponible para la Serie 1 (19 mm), Serie 2 (31 mm) y Serie 3 (48 mm)
Forma A



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 - AD

Referencia	SK	D - 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	SK 40	0-8	70	36
S15.402.13	SK 40	1,0-13	90	50
S15.402.16	SK 40	2,5-16	95	50
S15.502.13	SK 50	1,0-13	90	50
S15.502.16	SK 50	2,5-16	95	50

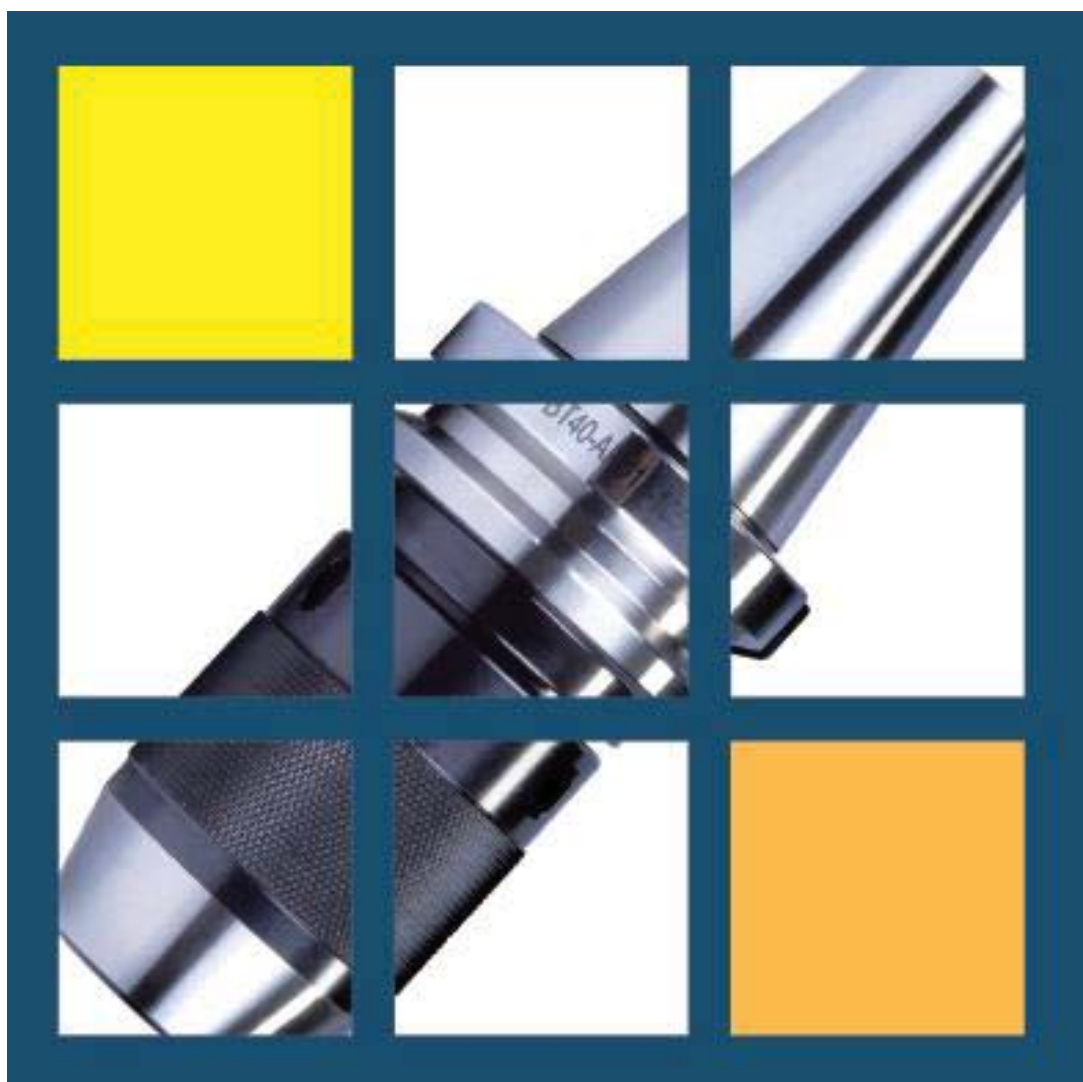


Portabrocas AD/B - Refrigerado

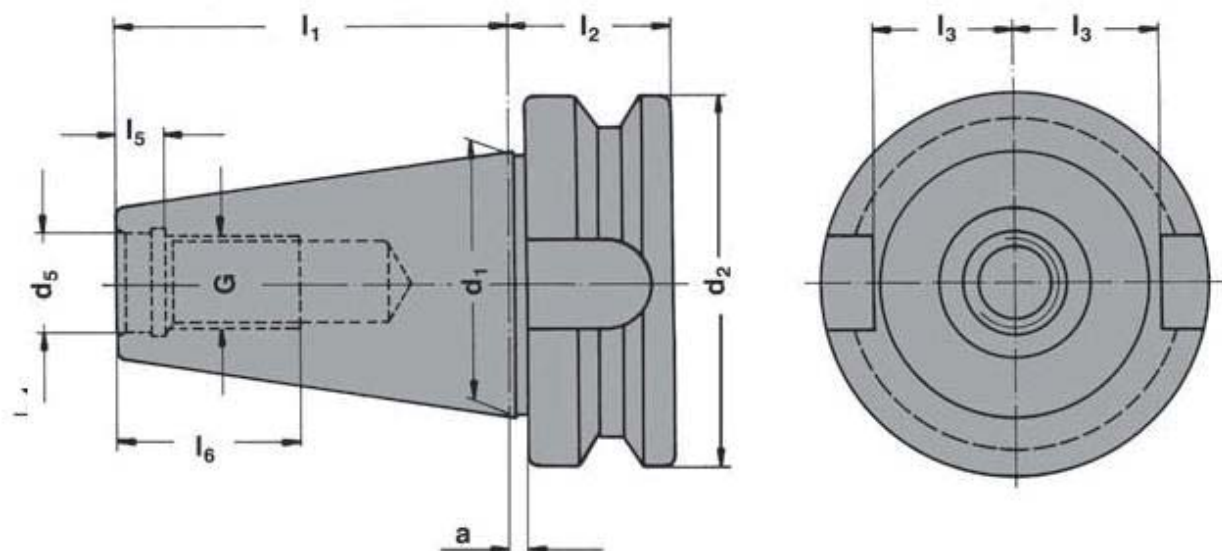
Referencia	SK	D - Capacidad	A	D
S15.403.08	SK 40	0-8	70	36
S15.403.13	SK 40	1,0-13	90	50
S15.403.16	SK 40	2,5-16	95	50
S15.503.13	SK 50	1,0-13	90	50
S15.503.16	SK 50	2,5-16	95	50



MAS 403 BT



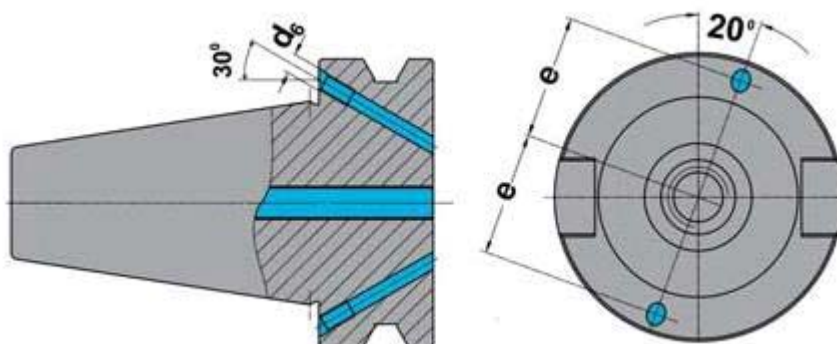
INFORMACION GENERAL MAS 403 BT



Dimensiones Generales de Amarre

SK	D1	G	D5	D2	A	L1	L2	L3	L5	L6	E	D6
30	31.75	M12	12.5	46	2	48.4	22	16.3	7.0	24	-	-
40	44.45	M16	17.0	63	2	65.4	27	22.5	8.2	32	27	M4
50	69.85	M24	25.0	100	3	101.8	38	35.3	11.0	47	42	M6

Modelos con Refrigeración Interna



Modelos Disponibles con sistema AD/B, Excepto indicados en catalogo con (*)

Portapinzas Para Pinzas DIN 6388 – OZ

Referencia	BT	Capacidad	A	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

* JIS B 6339 forma AD



Portapinzas Para Pinzas DIN 6499 – ER

Referencia	BT	Capacidad	A	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)	60	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
S02.506.34.1	BT 50	6-34 (ER 50)	120	78
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
S02.506.20.4	BT 50	2-20 (ER 32)	250	50
S02.506.26.4	BT 50	3- 26 (ER 40)	300	63

* JIS B 6339 forma AD



Portapinzas Gran Apriete HKS

Referencia	BT	Capacidad	A	D
S64.406.20	BT 40	20 – HKS 20	90	53
S64.406.32	BT 40	32 – HKS 32	90	68
S64.506.20	BT 50	20 – HKS 20	90	53
S64.506.32	BT 50	32 – HKS 32	90	68



Porta Reductor Cono Morse DIN228-1 Forma B

Referencia	BT	MK	A	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



* JIS B 6339 forma AD

Porta Reductor BT

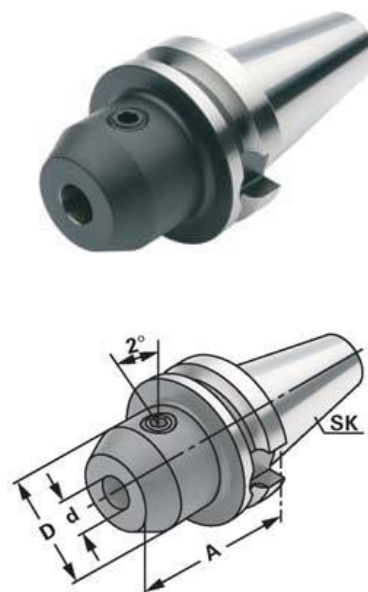
Referencia	BT	SK1	A	D
S09.405.30	BT 40	SK 30	60	63
S09.405.40	BT 40	SK 40	100	63
S09.505.40	BT 50	SK 40	70	70
S09.505.50	BT 50	SK 50	120	97



Aplicable para DIN 69871 / MAS403BT / DIN 2080

Porta Fresas Whistle Notch DIN1835 Forma E

Referencia	BT	DH4	A	D
S05.406.06	BT 40	6	50	25
S05.406.08	BT 40	8	50	28
S05.406.10	BT 40	10	63	35
S05.406.12	BT 40	12	63	42
S05.406.14	BT 40	14	63	44
S05.406.16	BT 40	16	63	48
S05.406.18	BT 40	18	63	50
S05.406.20	BT 40	20	63	52
S05.406.25	BT 40	25	90	65
S05.406.32	BT 40	32	100	72
S05.406.40	BT 40	40	120	80
S05.506.06	BT 50	6	63	25
S05.506.08	BT 50	8	63	28
S05.506.10	BT 50	10	63	35
S05.506.12	BT 50	12	80	42
S05.506.14	BT 50	14	80	44
S05.506.16	BT 50	16	80	48
S05.506.18	BT 50	18	80	50
S05.506.20	BT 50	20	80	52
S05.506.25	BT 50	25	100	65
S05.506.32	BT 50	32	105	72
S05.506.40	BT 50	40	110	80

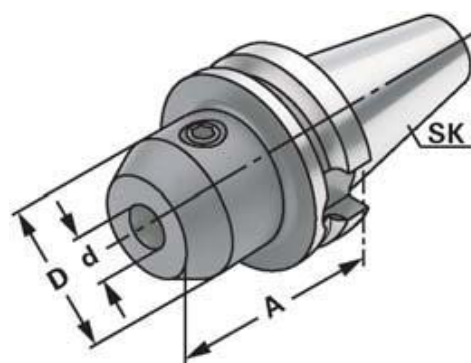


* JIS B 6339 forma AD



Porta Fresas Weldon Para DIN 1835-B

Referencia	BT	Dh4	A	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
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
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
S04.506.06.2	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
S04.506.32.2	BT 50	32	160	72



* JIS B 6339 forma AD

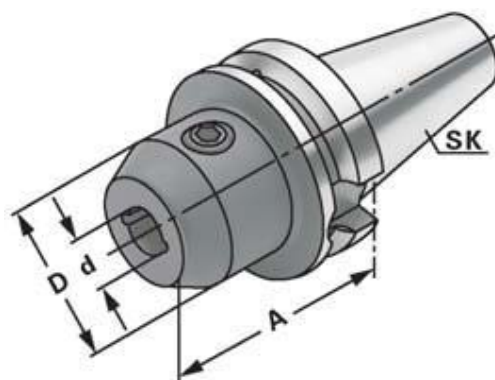
Porta Fresas Weldon Para DIN 1835-B – Continuación

Referencia	BT	Dh4	A	D
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



Porta Fresas Weldon según DIN 1835 Forma B Refrigerado

Referencia	BT	DH4	A	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
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

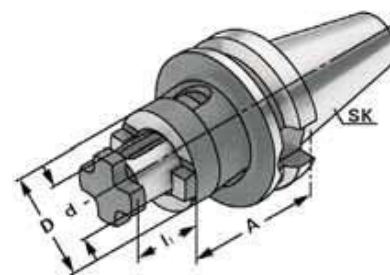


* JIS B 6339 forma AD

Eje Portafresas Combi DIN 6358

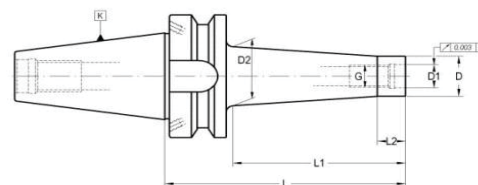
Referencia	BT	d h6	A	l1	D
S10.305.16 *	BT 30	16	45	17	32
S10.305.22 *	BT 30	22	47	19	40
S10.305.27 *	BT 30	27	49	21	48
S10.406.16	BT 40	16	55	17	32
S10.406.22	BT 40	22	55	19	40
S10.406.27	BT 40	27	55	21	48
S10.406.32	BT 40	32	60	24	58
S10.406.40	BT 40	40	60	27	70
S10.406.16.1	BT 40	16	100	17	32
S10.406.22.1	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.	BT 50	40	200	27	70

* JIS B 6339 forma AD



Eje Adaptador Portafresas Rosca Métrica – BT40

Referencia	BT	Rosca	D	D1	L	L2
S19.406.06	BT 40	M-6	9.8	6.5	50	10
S19.406.06.1	BT 40	M-6	9.8	6.5	100	10
S19.406.06.2	BT 40	M-6	9.8	6.5	150	10
S19.406.08	BT 40	M-8	12.8	8.5	50	10
S19.406.08.1	BT 40	M-8	12.8	8.5	100	10
S19.406.08.2	BT 40	M-8	12.8	8.5	150	10
S19.406.10	BT 40	M-10	17.8	10.5	50	10
S19.406.10.1	BT 40	M-10	17.8	10.5	100	10
S19.406.10.2	BT 40	M-10	17.8	10.5	150	10
S19.406.12	BT 40	M-12	20.8	12.5	50	10
S19.406.12.1	BT 40	M-12	20.8	12.5	100	10
S19.406.12.2	BT 40	M-12	20.8	12.5	150	10
S19.406.16	BT 40	M-16	28.8	17	50	10
S19.406.16.1	BT 40	M-16	28.8	17	100	10
S19.406.16.2	BT 40	M-16	28.8	17	150	10



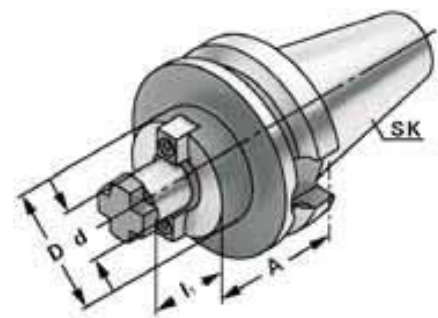
Eje Adaptador Portafresas Rosca Métrica –BT50

Referencia	BT	Rosca	D	D1	L	L2
S19.406.06	BT 40	M-6	9.8	6.5	50	10
S19.506.08	BT 50	M-8	12.8	8.5	100	10
S19.506.08.2	BT 50	M-8	12.8	8.5	150	10
S19.506.10	BT 50	M-10	17.8	10.5	100	10
S19.506.10.2	BT 50	M-10	17.8	10.5	150	10
S19.506.12	BT 50	M-12	20.8	12.5	100	10
S19.506.12.2	BT 50	M-12	20.8	12.5	150	10
S19.506.16	BT 50	M-16	28.8	17	100	10
S19.506.16.2	BT 50	M-16	28.8	17	150	10



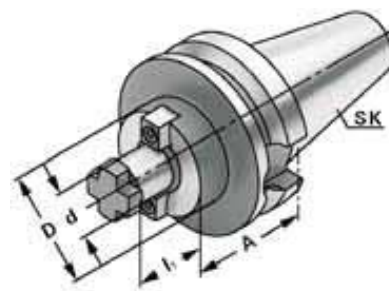
Eje Portafresas DIN 6357

Referencia	BT	d h6	A	l1	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
* JIS B 6339 forma AD					
S11.406.16	BT 40	16	40	17	38
S11.406.22	BT 40	22	40	19	48
S11.406.27	BT 40	27	40	21	58
S11.406.32	BT 40	32	50	24	78
S11.406.40	BT 40	40	50	27	88
S11.406.16.1	BT 40	16	100	17	38
S11.406.22.1	BT 40	22	100	19	48
S11.406.27.1	BT 40	27	100	21	58
S11.406.32.1	BT 40	32	100	24	78
S11.406.40.1	BT 40	40	100	27	88
S11.406.16.2	BT 40	16	160	17	38
S11.406.22.2	BT 40	22	160	19	48
S11.406.27.2	BT 40	27	160	21	58
S11.406.32.2	BT 40	32	160	24	78
S11.406.40.2	BT 40	40	160	27	88
S11.406.16.3	BT 40	16	200	17	38
S11.406.22.3	BT 40	22	200	19	48
S11.406.27.3	BT 40	27	200	21	58
S11.406.32.3	BT 40	32	200	24	78
S11.406.40.3	BT 40	40	200	27	88
S11.506.16	BT 50	16	38	17	48
S11.506.22	BT 50	22	40	19	48
S11.506.27	BT 50	27	40	21	58
S11.506.32	BT 50	32	40	24	78
S11.506.40	BT 50	40	50	27	88
S11.506.60	BT 50	60	80	40	129
S11.506.16.1	BT 50	16	100	16	38
S11.506.22.1	BT 50	22	100	19	48
S11.506.27.1	BT 50	27	100	21	58
S11.506.32.1	BT 50	32	100	24	78
S11.506.40.1	BT 50	40	100	27	88
S11.506.16.2	BT 50	16	160	17	48
S11.506.22.2	BT 50	22	160	19	48
S11.506.27.2	BT 50	27	160	21	58
S11.506.32.2	BT 50	32	160	24	78
S11.506.40.2	BT 50	40	160	27	88
S11.506.16.3	BT 50	16	200	17	48
S11.506.22.3	BT 50	22	200	19	48
S11.506.27.3	BT 50	27	200	21	58
S11.506.32.3	BT 50	32	200	24	78
S11.506.40.3	BT 50	40	200	27	88
S11.506.16.4	BT 50	16	250	17	48
S11.506.22.4	BT 50	22	250	19	48
S11.506.27.4	BT 50	27	250	21	58
S11.506.32.4	BT 50	32	250	24	78



Eje Portafresas DIN 6357 – Continuación

Referencia	BT	d h6	A	l1	D
S11.506.22.5	BT 50	22	300	19	48
S11.506.27.5	BT 50	27	300	21	58
S11.506.32.5	BT 50	32	300	24	78
S11.506.22.6	BT 50	22	350	19	48
S11.506.27.6	BT 50	27	350	21	58
S11.506.32.6	BT 50	32	350	24	78



Eje Adaptador DIN 238

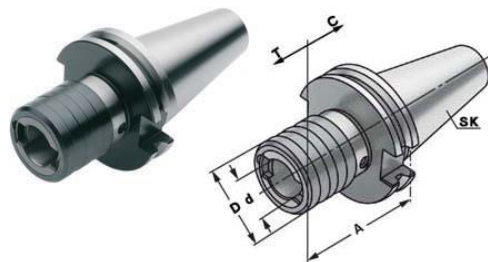
Forma A

Referencia	BT	D	A	L
S14.305.12	BT 30	B12	25	18.5
S14.305.16	BT 30	B16	25	24
S14.405.12	BT 40	B12	25	18.5
S14.405.16	BT 40	B16	25	24
S14.405.18	BT 40	B18	35	32
S14.505.16	BT 50	B16	25	24
S14.505.18	BT 50	B18	25	32



Eje Adaptador Pinzas de Roscado

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)
Forma A



Referencia	BT	Capacidad	Serie	A	D	D	C	T
S16.305.12	BT 30	M3-M14	1	62	38	19	7	7
S16.305.20	BT 30	M5-M22	2	95	54	31	12	12
S16.405.12	BT 40	M3-M14	1	65	38	19	7	7
S16.405.20	BT 40	M5-M22	2	93	54	31	12	12
S16.405.36	BT 40	M14-M36	3	166	78	48	17.5	17.58
S16.505.12	BT 50	M3-M14	1	100	38	19	7	7
S16.505.20	BT 50	M5-M22	2	100	54	31	12	12
S16.505.36	BT 50	M14-M36	3	142	78	48	17.5	17.5

Portabrocas CNC - AD

Referencia	BT	D - Capacidad	A	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	BT 40	0-8	70	36
S15.405.13	BT 40	1,0-13	90	50
S15.405.16	BT 40	2,5-16	95	50
S15.505.13	BT 50	1,0-13	90	50
S15.505.16	BT 50	2,5-16	95	50



Portabrocas CNC - AD/B

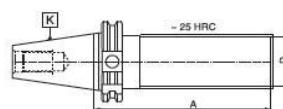
Referencia	BT	D - Capacidad	A	D
S15.406.08	BT 40	0-8	70	36
S15.406.13	BT 40	1,0-13	90	50
S15.406.16	BT 40	2,5-16	95	50
S15.506.13	BT 50	1,0-13	90	50
S15.506.16	BT 50	2,5-16	95	50



Porta Para Mandrinado

Porta para mandrinado especial, con Dureza +/- 25 HRC

Referencia	K	D	L
S2192.1	BT-40	40	280
S2192.2	BT-40	63	280
S2192.3	BT-50	50	330
S2192.4	BT-50	80	330



Porta Para Verificación

Porta para mandrinado especial, con Dureza +/- 25 HRC

Referencia	K	D	L
S2854.0	BT-30	32	200
S2854.1	BT-40	40	300
S2854.2	BT-50	50	300



ACCESORIOS:

Set de Pinzas ER / OZ

ER-8 Hasta ER-50
OZ-16 a OZ-32



Tuercas Para Portapinzas

ER8 Hasta ER50
OZ16 a OZ-32

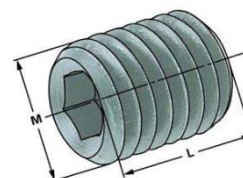


* También Disponemos de Pinzas Individuales Desde ER-8 Hasta ER-50 y OZ16 a OZ32

Llaves para Portapinzas



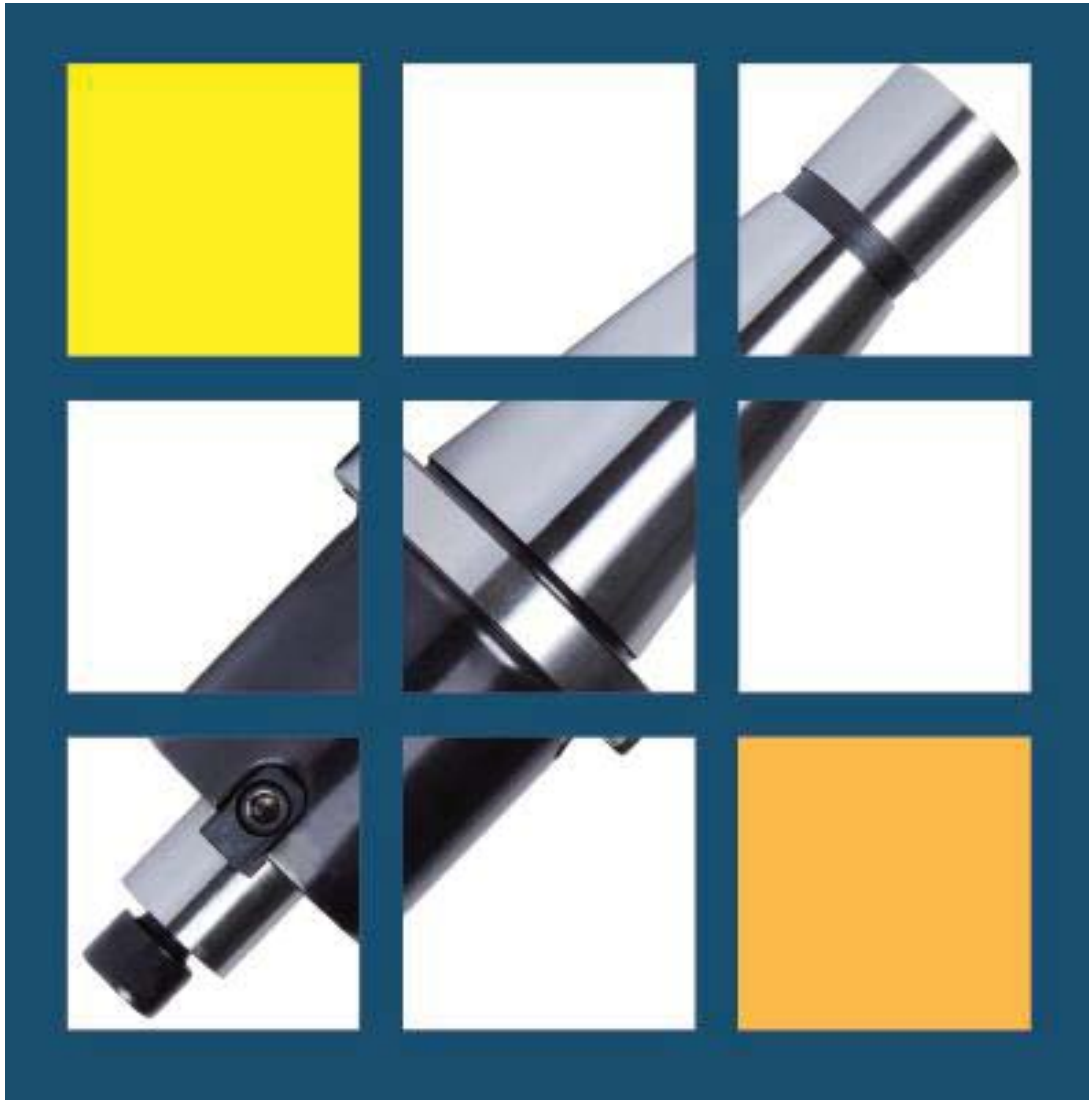
Tornillos para Portas Weldon



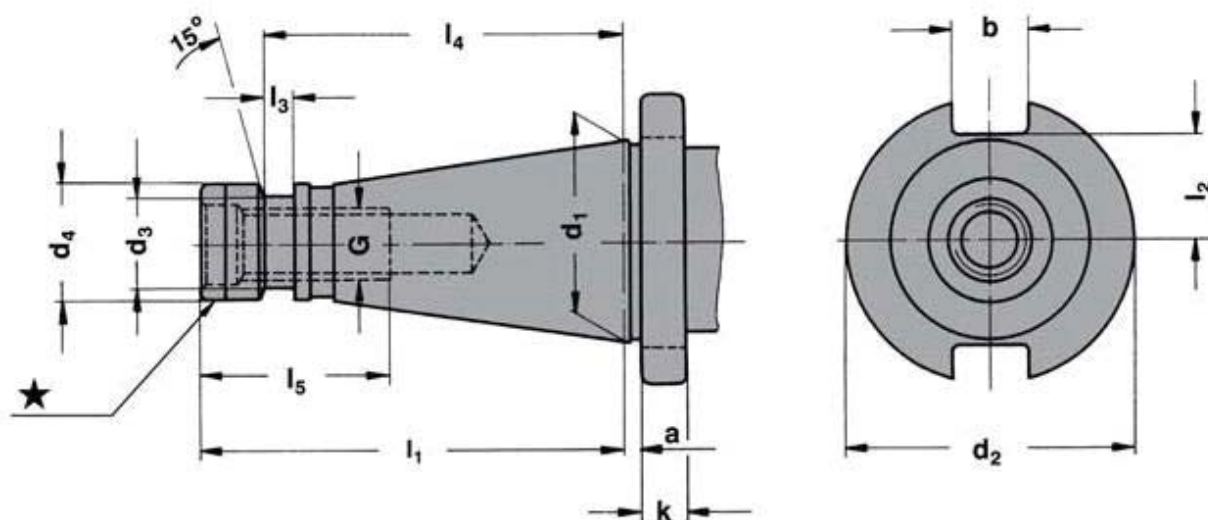
Mas Accesorios Disponibles en la página de Pinzas y Accesorios.



DIN 2080



INFORMACION GENERAL DIN 2080



Dimensiones Generales de Amarre

SK	D1	A	B	K	G	D2	D3	D4	L1	L2	L3	L4	L5
30	31.75	1.6	16.1	8	M12	50.0	-	17.2	68.4	16.2	-	-	24.0
40 *	44.45	1.6	16.1	10	M16	63.0	21.1	25.0	93.4	22.5	7.0	82.0	32.0
50 *	69.85	3.2	25.7	12	M24	97.5	32.0	39.2	126.8	35.3	13.0	115.0	47.0

* Con Proteccion de Plastico

Portapinzas DIN 6388 – Pinzas OZ

Referencia	ISO	Capacidad	A	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 DIN 6388 – Pinzas ER

Referencia	ISO	Capacidad	A	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
S02.404.26	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



Portas Mango Weldon DIN 1835-B

Referencia	ISO	dH4	A	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 40	25	80	65
S04.401.32	ISO 40	32	80	72
S04.401.40	ISO 40	40	90	80



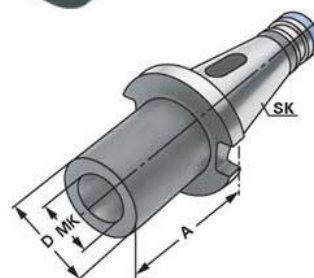
Portas Mango Weldon DIN1835-B - Continuación

Referencia	ISO	Capacidad	A	D
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



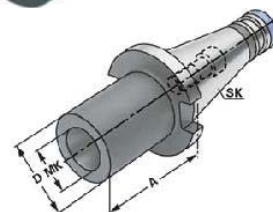
Portas Reducción a Cono Morse DIN 228-1 Forma B

Referencia	ISO	CM / MT	A	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



Portas Reducción a Cono Morse DIN 228-1 Forma A

Referencia	ISO	CM / MT	Metrica	A	D
S08.401.01	ISO 40	1	M6	50	25
S08.401.02	ISO 40	2	M10	50	32
S08.401.03	ISO 40	3	M12	65	40
S08.401.04	ISO 40	4	M16	95	48
S08.501.02	ISO 50	2	M10	60	32
S08.501.03	ISO 50	3	M12	65	48
S08.501.04	ISO 50	4	M16	80	63
S08.501.05	ISO 50	5	M20	120	63



Eje Portafresas Doble DIN 6358

Referencia	ISO	dH6	A	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	70



Eje Portafresas DIN 6357

Referencia	ISO	dH6	A	L1	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 238

Referencia	ISO	D	A	L
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 CNC

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 30	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 40	2.5-16	88	50
S15.501.13	ISO 50	1-13	85	50
S15.501.16	ISO 50	2.5-16	90	50



Porta Reductor SK

Referencia	ISO	Reductor	A	D
S09.401.30	ISO 40	30	50	50
S09.401.40	ISO 40	40	100	63
S09.501.40	ISO 50	40	50	70
S09.501.50	ISO 50	50	125	97



Eje Adaptador Pinzas de Roscado

Eje Adaptador Pinzas de Roscado con Sistema de Embrage.

Disponible para la Serie 1 (19 mm), Serie 2 (...) y Serie 3 (...)

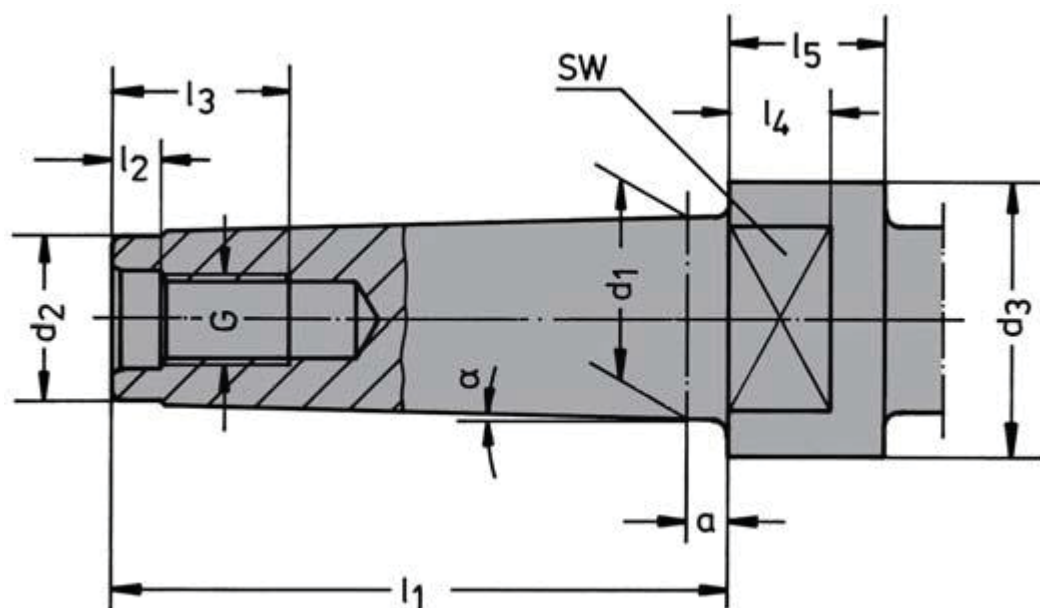


Referencia	ISO	Capacidad	Serie	A	D	D	C	T
S16.301.12	ISO 30	M3-M14	1	55	38	19	7	7
S16.301.20	ISO 30	M5-M22	2	86	54	31	12	12
S16.401.12	ISO 40	M3-M14	1	55	38	19	7	7
S16.401.20	ISO 40	M5-M22	2	86	54	31	12	12
S16.401.36	ISO 40	M14-M36	3	132	78	48	17.5	17.58
S16.501.12	ISO 50	M3-M14	1	62	38	19	7	7
S16.501.20	ISO 50	M5-M22	2	90	54	31	12	12
S16.501.36	ISO 50	M14-M36	3	117	78	48	17.5	17.5

DIN 228



INFORMACION GENERAL DIN 228-1 A/B



Dimensiones Generales de Amarre

MK	Grados	G	A	D1	D2 Max	D3	Entre D9	L1	L2	L3	L4	L5
1	1°25'43"	M-6	3.5	12.065	9	-	-	-	4	16	-	-
2	1°25'50"	M-10	5	17.780	14	-	-	-	5	24	-	-
3	1°26'16"	M-12	5	23.825	19	36	24	86	5.5	24	12	18
4	1°29'15"	M-16	6.5	31.267	25	43	32	109	8.2	32	15	23
5	1°30'26"	M-20	6.5	44.399	35.7	60	45	136	10	40	18	28
6	1°29'36"	M-24	8	63.348	51	84	65	190	11.5	47	25	39

Portapinzas para Pinzas ER

Referencia	CM	Capacidad	A	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

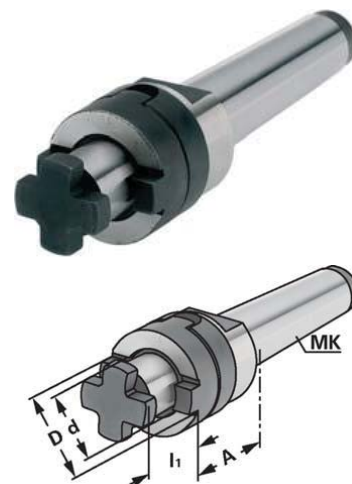
CM = MT = MK



Eje Portafresas DIN 6358

Referencia	CM	D	A	L1	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

CM = MT = MK



Eje de Amarre DIN 238

Referencia	CM	Capacidad	A	D
S14.106.01	1	B.12	102	29
S14.106.02	2	B.12	102	29
S14.107.02	2	B.16	112	29
S14.107.03	3	B.16	134	29
S14.107.04	4	B.16	158	29

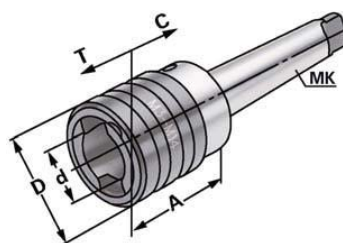
CM = MT = MK



Eje Adaptador Pinza de Roscado

Referencia	CM	Capacidad	Serie	A	D	D	T	c
S16.107.212	2	M3 – M14	1	46	36	19	7	7
S16.107.320	3	M5 – M22	2	70	53	31	12	12
S16.107.410	4	M3 – M14	1	85	42	19		
S16.107.420	4	M5 – M22	2	85	53	31	12	12
S16.107.430	4	M14 – M36	3	85	75	48		

CM = MT = MK



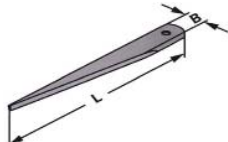
Casquillo Reductor DIN 2185

Referencia	CM Exterior	CM Interior	L
S07.107.21	2	1	92
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

CM = MT = MK



Llave Extractora DIN 228B



Referencia	CM	L	B
S03.107.01	1 y 2	140	20
S03.107.03	3	190	25
S03.107.04	4	225	30

Tornillo para DIN 228



Referencia	CM	Métrica
S20.107.06	1	M6
S20.107.10	2	M10
S20.107.12	3	M12
S20.107.16	4	M16
S20.107.20	5	M20

Casquillo Reductor Cono Morse

Totalmente Rectificado Interior/Exterior. Según Din 218



Referencia	CM Ext	CM Int	L	A
S1762.1.1	1	1	145	83
S1762.1.2	1	2	160	98
S1762.1.3	1	3	183	121
S1762.2.1	2	1	160	85
S1762.2.2	2	2	175	100
S1762.2.3	2	3	196	121
S1762.2.4	2	4	221	146
S1762.3.1	3	1	175	81
S1762.3.2	3	2	194	100
S1762.3.3	3	3	215	121
S1762.3.4	3	4	240	146
S1762.3.5	3	5	275	181
S1762.4.1	4	1	200	82.5
S1762.4.2	4	2	215	97.5
S1762.4.3	4	3	240	122.5
S1762.4.4	4	4	265	147.5
S1762.4.5	4	5	300	182.5
S1762.4.6	4	6	361	243.5
S1762.5.1	5	1	232	82.5
S1762.5.2	5	2	247	97.5
S1762.5.3	5	3	268	118.5
S1762.5.4	5	4	300	150.5
S1762.5.5	5	5	335	185.5
S1762.5.6	5	6	396	246.5
S1762.6.1	6	1	294	84
S1762.6.2	6	2	309	99
S1762.6.3	6	3	330	120
S1762.6.4	6	4	355	145
S1762.6.5	6	5	390	180
S1762.6.6	6	6	451	241

Casquillo Alargador Cono Morse

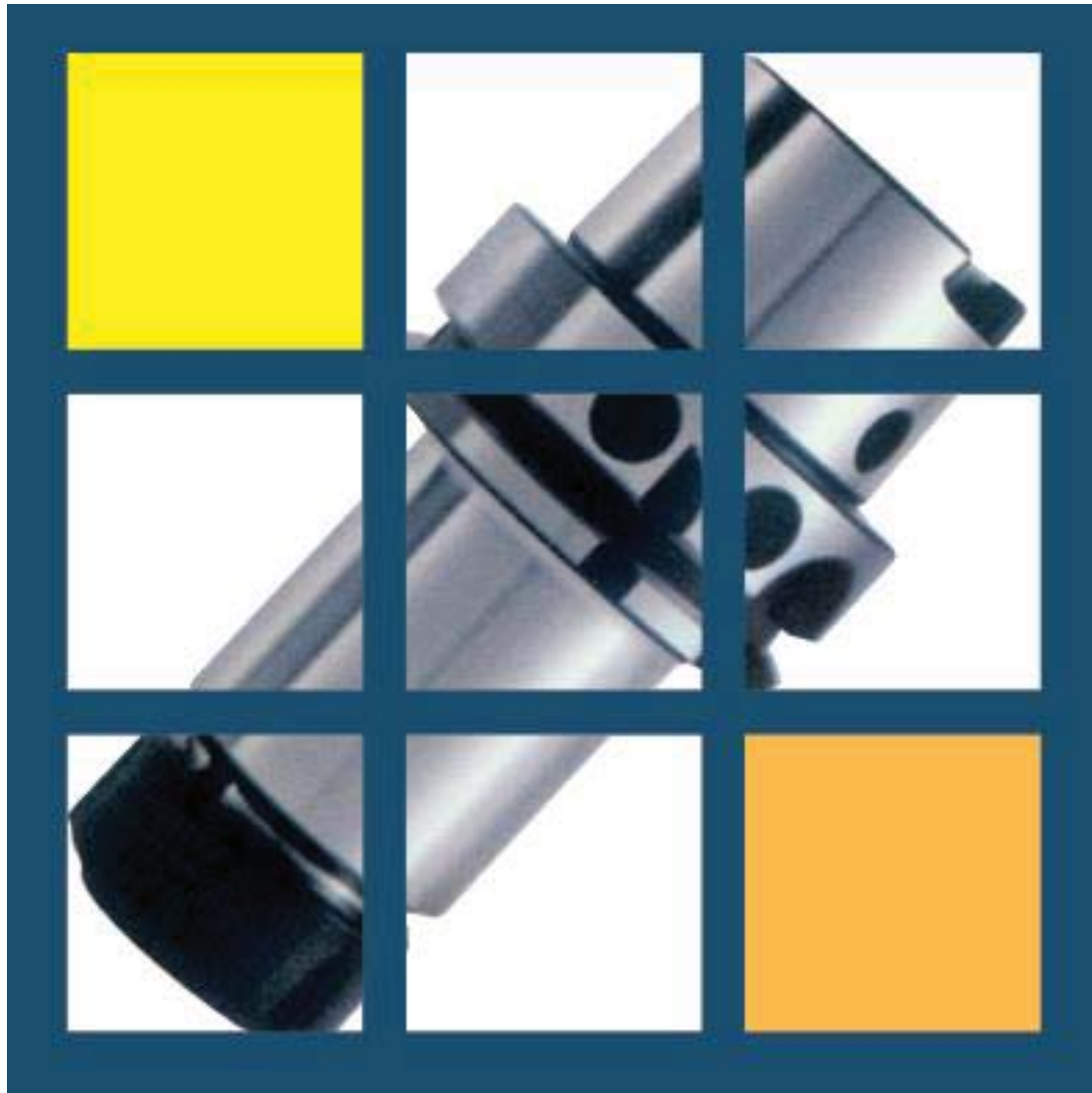
Totalmente Rectificado Interior/Exterior. Según Din 2187



Referencia	CM Ext	CM Int	L	A	D
S1765.1.1	1	1	200	138	20
S1765.1.2	1	1	250	188	20
S1765.1.3	1	1	300	238	20
S1765.1.4	1	1	350	288	20
S1765.1.5	1	1	400	338	20
S1765.1.6	1	1	450	388	20
S1765.1.7	1	1	500	438	20
S1765.2.1	2	2	200	125	25
S1765.2.2	2	2	250	175	25
S1765.2.3	2	2	300	225	25
S1765.2.4	2	2	350	275	25
S1765.2.5	2	2	400	325	25
S1765.2.6	2	2	450	375	25
S1765.2.7	2	2	500	425	25
S1765.2.8	2	2	600	600	25
S1765.3.1	3	3	250	156	32
S1765.3.2	3	3	300	206	32
S1765.3.3	3	3	350	256	32
S1765.3.4	3	3	400	306	32
S1765.3.5	3	3	450	356	32
S1765.3.6	3	3	500	406	32
S1765.3.7	3	3	600	506	32
S1765.4.1	4	4	300	182.5	40
S1765.4.2	4	4	350	235.5	40
S1765.4.3	4	4	400	285.5	40
S1765.4.4	4	4	450	332.5	40
S1765.4.5	4	4	500	385.5	40
S1765.4.6	4	4	600	482.5	40



DIN 69893 - HSK



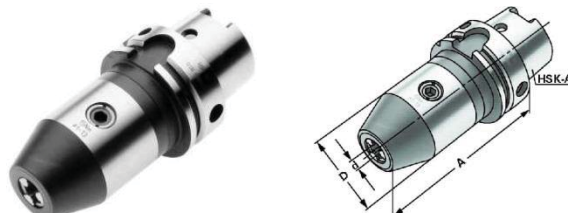
HSK-FORMA A - Porta-Pinzas Gran Apriete HKS

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

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



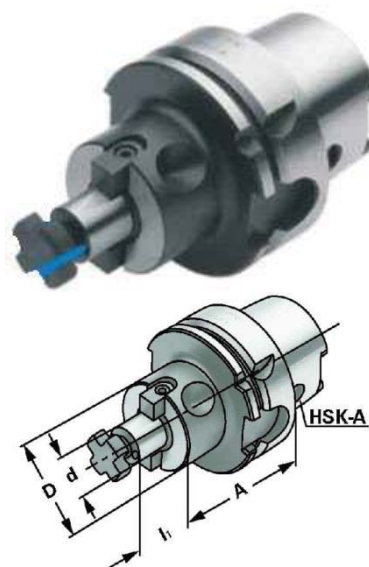
HSK-FORMA A - Eje Adaptador Pinza de Roscado Con Embrague

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



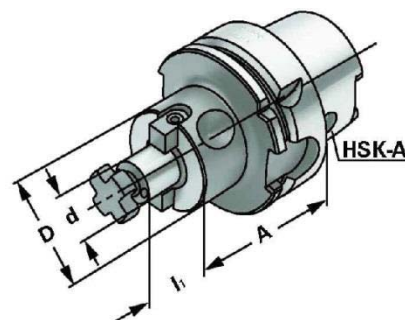
HSK-FORMA A - Eje Portafresas Din 6357

Referencia	HSK	d	A	L1	D
S11.A63.16	A-63	16	50	17	38
S11.A63.22	A-63	22	50	19	48
S11.A63.27	A-63	27	60	21	58
S11.A63.32	A-63	32	60	24	78
S11.A63.40	A-63	40	100	27	88
S11.A63.16.1	A-63	16	100	17	38
S11.A63.22.1	A-63	22	100	19	48
S11.A63.27.1	A-63	27	100	21	58
S11.A63.32.1	A-63	32	100	24	78
S11.A63.40.1	A-63	40	100	27	88
S11.A63.16.2	A-63	16	160	17	38
S11.A63.22.2	A-63	22	160	19	48
S11.A63.27.2	A-63	27	160	21	58
S11.A63.32.2	A-63	32	160	24	78
S11.A63.40.2	A-63	40	160	27	88



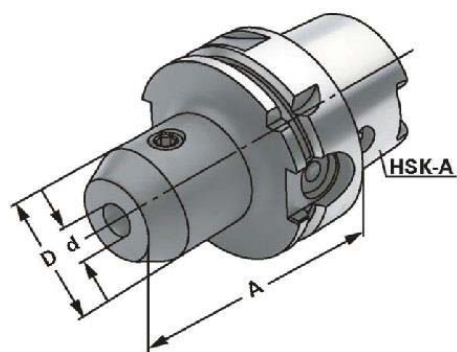
HSK-FORMA A - Eje Portafresas Din 6357 – Continuación

Referencia	HSK	d	A	L1	D
S11.A100.22	A-100	22	50	19	48
S11.A100.27	A-100	27	50	21	58
S11.A100.32	A-100	32	60	24	78
S11.A100.40	A-100	40	70	27	88
S11.A100.60	A-100	60	70	40	130
S11.A100.22.1	A-100	22	100	19	48
S11.A100.27.1	A-100	27	100	21	58
S11.A100.32.1	A-100	32	100	24	78
S11.A100.40.1	A-100	40	100	27	88



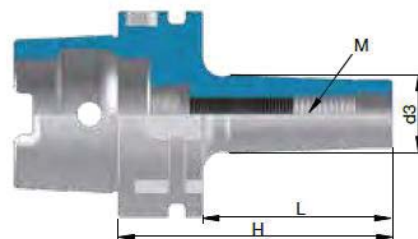
HSK-FORMA A - Portas Mango Weldon DIN1835-B

Referencia	HSK	Capacidad	A	D
S04.A63.04.06	A-63	6	65	28
S04.A63.04.08	A-63	8	65	28
S04.A63.04.10	A-63	10	65	35
S04.A63.04.12	A-63	12	80	42
S04.A63.04.14	A-63	14	80	44
S04.A63.04.16	A-63	16	80	48
S04.A63.04.18	A-63	18	80	50
S04.A63.04.20	A-63	20	80	52
S04.A63.04.25	A-63	25	110	65
S04.A63.04.32	A-63	32	110	72
S04.A63.04.40	A-63	40	125	80
S04.A63.04.06.1	A-63	6	100	25
S04.A63.04.08.1	A-63	8	100	38
S04.A63.04.10.1	A-63	10	100	35
S04.A63.04.12.1	A-63	12	100	35
S04.A63.04.14.1	A-63	14	100	44
S04.A63.04.16.1	A-63	16	100	48
S04.A63.04.18.1	A-63	18	100	50
S04.A63.04.20.1	A-63	20	100	52
S04.A63.04.06.2	A-63	6	160	25
S04.A63.04.08.2	A-63	8	160	28
S04.A63.04.10.2	A-63	10	160	35
S04.A63.04.12.2	A-63	12	160	35
S04.A63.04.14.2	A-63	14	160	44
S04.A63.04.16.2	A-63	16	160	48
S04.A63.04.18.2	A-63	18	160	50
S04.A63.04.20.2	A-63	20	160	52
S04.A100.06	A-100	6	80	25
S04.A100.08	A-100	8	80	28
S04.A100.10	A-100	10	80	35
S04.A100.12	A-100	12	80	42
S04.A100.14	A-100	14	80	44
S04.A100.16	A-100	16	100	48
S04.A100.18	A-100	18	100	50
S04.A100.20	A-100	20	100	52
S04.A100.25	A-100	25	100	65
S04.A100.32	A-100	32	100	72
S04.A100.40	A-100	40	105	80



HSK-FORMA A - Eje Portafresas Roscado – HSK-A63

Referencia	HSK	H	Métrica	d1	D2	d3	L
S19.A63.M8	A-63	59	M8	8,5	13	15	33
S19.A63.M8.1	A-63	84	M8	8,5	13	23	58
S19.A63.M8.2	A-63	109	M8	8,5	13	23	83
S19.A63.M8.3	A-63	134	M8	8,5	13	25	108
S19.A63.M10	A-63	59	M10	10,5	18	19,5	33
S19.A63.M10.1	A-63	84	M10	10,5	18	25	58
S19.A63.M10.2	A-63	109	M10	10,5	18	28	83
S19.A63.M10.3	A-63	134	M10	10,5	18	28	108
S19.A63.M10.4	A-63	159	M10	10,5	18	34	133
S19.A63.M10.5	A-63	176	M10	10,5	18	36,5	150
S19.A63.M12	A-63	59	M12	12,5	21	24	33
S19.A63.M12.1	A-63	84	M12	12,5	21	24	58
S19.A63.M12.2	A-63	109	M12	12,5	21	31	83
S19.A63.M12.3	A-63	134	M12	12,5	21	31	108
S19.A63.M12.4	A-63	159	M12	12,5	21	31	133
S19.A63.M12.5	A-63	176	M12	12,5	21	40	150
S19.A63.M16	A-63	59	M16	17	29	34	33
S19.A63.M16.1	A-63	84	M16	17	29	34	58
S19.A63.M16.2	A-63	109	M16	17	29	34	83
S19.A63.M16.3	A-63	134	M16	17	29	39	108
S19.A63.M16.4	A-63	159	M16	17	29	39	133
S19.A63.M16.5	A-63	176	M16	17	29	42,5	150



Eje Portafresas Roscado – HSK-A100

Referencia	HSK	H	Métric	d1	D2	d3	L
S19.A100.M8	A-100	79	M8	8,5	13	23	50
S19.A100.M10	A-100	79	M10	10,5	18	23	50
S19.A100.M10.1	A-100	129	M10	10,5	18	32	100
S19.A100.M10.2	A-100	179	M10	10,5	18	36,5	150
S19.A100.M12	A-100	79	M12	12,5	21	24	50
S19.A100.M12.1	A-100	87	M12	12,5	21	24	58
S19.A100.M12.2	A-100	129	M12	12,5	21	33	100
S19.A100.M12.3	A-100	137	M12	12,5	21	47	108
S19.A100.M12.4	A-100	179	M12	12,5	21	40	150
S19.A100.M12.5	A-100	187	M12	12,5	21	55	158
S19.A100.M16	A-100	79	M16	17	29	34	50
S19.A100.M16.1	A-100	87	M16	17	29	31,5	58
S19.A100.M16.2	A-100	129	M16	17	29	36	100
S19.A100.M16.3	A-100	137	M16	17	29	47	108
S19.A100.M16.4	A-100	179	M16	17	29	42,5	150
S19.A100.M16.5	A-100	187	M16	17	29	55	158
S19.A100.M16.6	A-100	208	M16	17	29	55	179

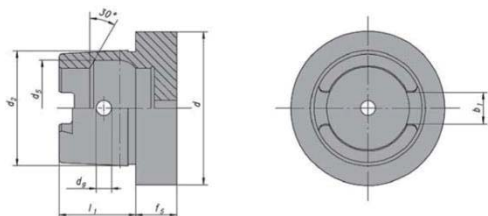


HSK-FORMA A - Eje Reductor Cono Morse DIN 6383

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

Disponemos de Otros Modelos y Medidas de HSK Fuera de Catálogo, Consultenos

Modelos Disponibles: FORMA C – HSK-C32 – HSK-C40 – HSK-C50 – HSK-C63

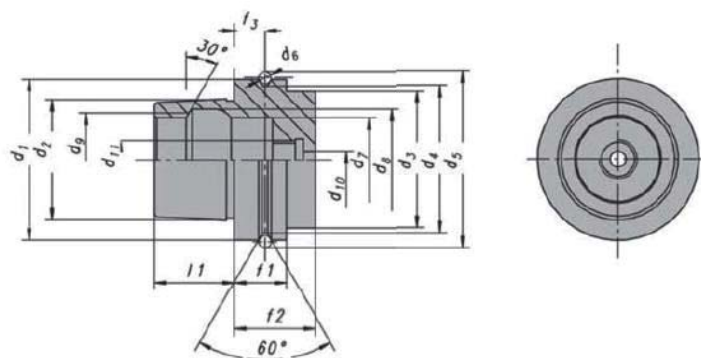


Dimensiones Generales de Amarre – FORMA C

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



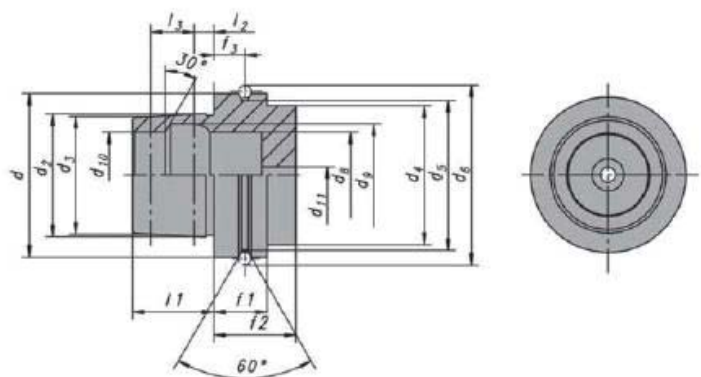
Modelos Disponibles: FORMA E – HSK-C32 – HSK-C40 – HSK-C50 – HSK-C63



Dimensiones Generales de Amarre – FORMA E

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

Modelos Disponibles: FORMA F – HSK-F50 – HSK-F63

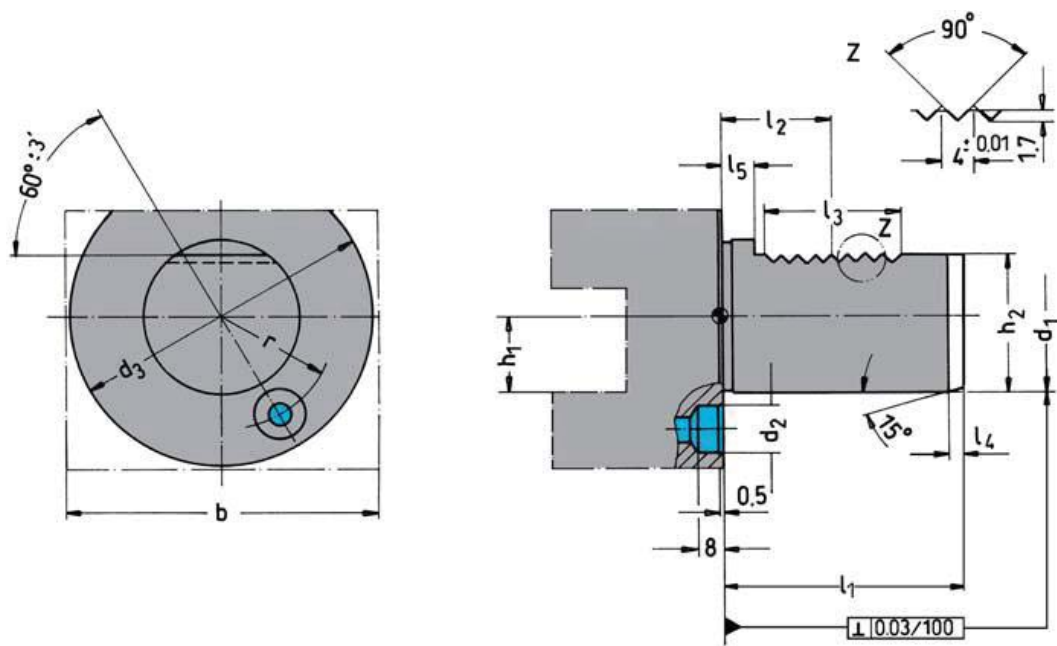


Dimensiones Generales de Amarre – FORMA F

D1	D2	D3	D4	D5	D6	D8	D9	D10	F1	F2	F3	L1	L2	L3
50	30	29.05	42	43	59.3	21	25.5	23	26	42	18	20	4	9.5
65	38	36.90	53	55	72.3	26	32	29	26	42	18	25	5	11

VDI DIN 69880

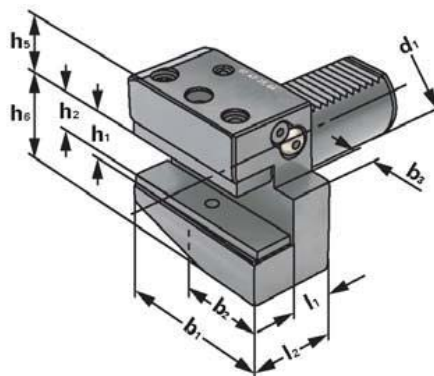




Dimensiones Generales de Amarre

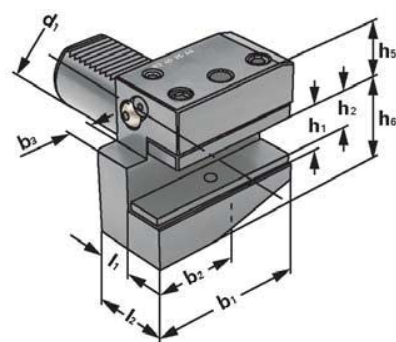
D1/h6	B	H1	D2	D3	H2	R	H	L2	L3	L4	L5
16	42	12	8	40	15.0	14.5	32	12.7	16	2	3.8
20	52	16	10	50	18.0	18.0	40	21.7	24	2	7.0
25	60	16	10	58	23.5	21.0	48	21.7	24	2	7.0
30	70	20	14	68	27.0	25.0	55	29.7	40	2	7.0
40	85	25	14	83	36.0	32.0	63	29.7	40	3	7.0
50	100	32	16	98	45.0	37.0	78	35.7	48	3	8.0

Portaherramientas VDI - B1



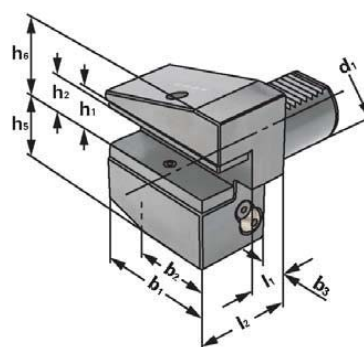
Referencia	Dimensiones	D1	H1	H2	L2	L1	B1	B2	B3	H5	H6
S31.169.12	Ø 16 – 16x12x24	16	12	-	24	13	42	23	5	20	22
S31.209.16	Ø 20 – 20x16x30	20	16	12	30	16	55	30	7	25	30
S31.309.20	Ø 30 – 30x20x40	30	20	16	40	22	70	35	10	28	38
S31.409.25	Ø 40 – 40x25x44	40	25	20	44	22	85	42.5	12.5	32.5	48
S31.509.32	Ø 50 –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

Portaherramientas VDI – B2 Izquierda



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

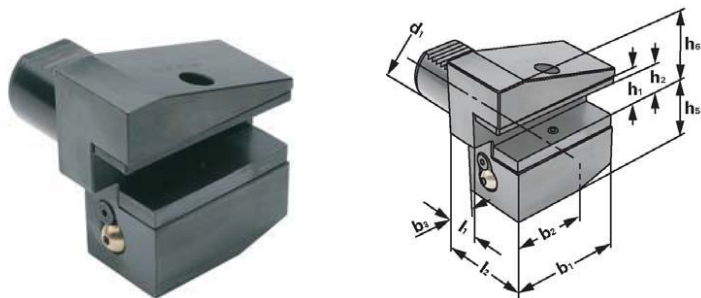
Portaherramientas VDI – B3 Derecha



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

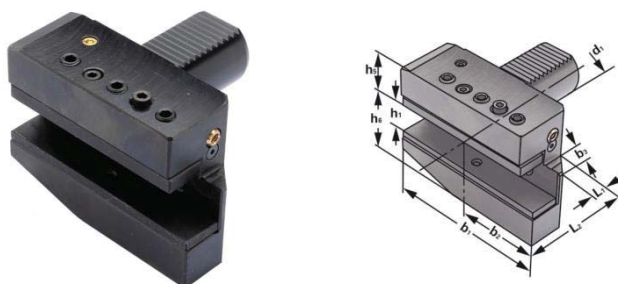


Portaherramientas VDI – B4 Izquierda



Referencia	Dimensiones	D1	H1	H2	L2	L1	B1	B2	B3	H5	H6
S34.169.12	Ø 16 – 16x12x24	16	12	-	24	13	42	23	5	20	22
S34.169.16	Ø 20 – 20x16x30	20	16	12	30	16	55	30	7	25	30
S34.169.20	Ø 30 – 30x20x40	30	20	16	40	22	70	35	10	28	38
S34.169.25	Ø 40 – 40x25x44	40	25	20	44	22	85	42.5	12.5	32.5	48
S34.169.32	Ø 50 – 50x32x55	50	32	25	55	30	100	50	16	35	60

Portaherramientas VDI – B5 Derecha



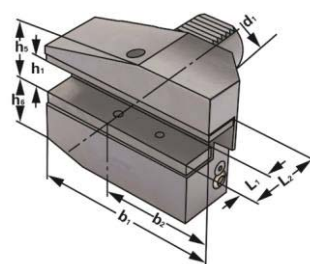
Referencia	Dimensiones	d1	b1	b2	b3	L1	L2	h1	h5	h6
S35.169.12	Ø16 – 16x12x24	16	58	39	5	13	24	12	22	20
S35.169.16	Ø20 – 20x16x30	20	75	50	7	16	30	16	25	30
S35.309.20	Ø30 – 30x20x40	30	100	65	10	22	40	20	28	38
S35.409.25	Ø40 – 40x25x44	40	118	75.5	12.5	22	44	25	32.5	48
S35.509.32	Ø50 – 50x32x55	50	130	80	16	30	55	32	35	60

Portaherramientas VDI – B6 Izquierda



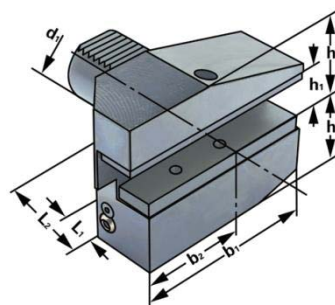
Referencia	Dimensiones	d1	b1	b2	b3	L1	L2	h1	h5	h6
S36.169.12	Ø16 – 16x12x24	16	58	39	5	13	24	12	22	20
S36.169.16	Ø20 – 20x16x30	20	75	50	7	16	30	16	25	30
S36.309.20	Ø30 – 30x20x40	30	100	65	10	22	40	20	28	38
S36.409.25	Ø40 – 40x25x44	40	118	75.5	12.5	22	44	25	32.5	48
S36.509.32	Ø50 – 50x32x55	50	130	80	16	30	55	32	35	60

Portaherramientas VDI – B7 Derecha



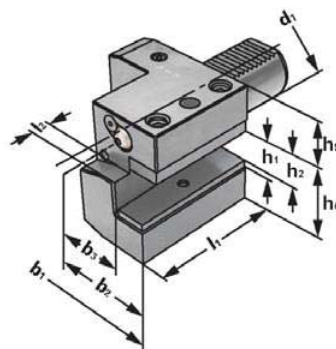
Referencia	Dimensiones	d1	b1	b2	b3	L1	L2	h1	h5	h6
S37.169.12	Ø16 – 16x12x24	16	58	39	5	13	24	12	20	22
S37.169.16	Ø20 – 20x16x30	20	75	50	7	16	30	16	30	25
S37.309.20	Ø30 – 30x20x40	30	100	65	10	22	40	20	38	35
S37.409.25	Ø40 – 40x25x44	40	118	75.5	12.5	22	44	25	48	42.5
S37.509.32	Ø50 – 50x32x55	50	130	80	16	30	55	32	60	50

Portaherramientas VDI – B8 Izquierda



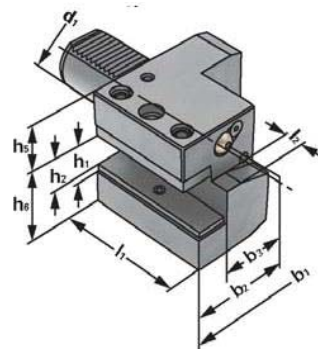
Referencia	Dimensiones	d1	b1	b2	b3	L1	L2	h1	h5	h6
S38.169.12	Ø16 – 16x12x24	16	58	39	5	13	24	12	20	22
S38.169.16	Ø20 – 20x16x30	20	75	50	7	16	30	16	30	25
S38.309.20	Ø30 – 30x20x40	30	100	65	10	22	40	20	38	35
S38.409.25	Ø40 – 40x25x44	40	118	75.5	12.5	22	44	25	48	42.5
S38.509.32	Ø50 – 50x32x55	50	130	80	16	30	55	32	60	50

Portaherramientas VDI – C1 Derecha



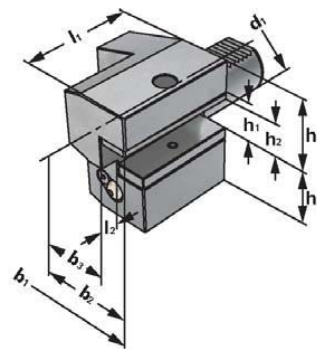
Referencia	Dimensiones	D1	H1	H2	L2	L1	B1	B2	B3	H5	H6
S41.169.12	Ø 16 – 16x12x24	16	12	-	24	13	42	23	5	20	22
S41.209.16	Ø 20 – 20x16x30	20	16	12	30	16	55	30	7	25	30
S41.309.20	Ø 30 – 30x20x40	30	20	16	40	22	70	35	10	28	38
S41.409.25	Ø 40 – 40x25x44	40	25	20	44	22	85	42.5	12.5	32.5	48
S41.509.32	Ø 50 –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

Portaherramientas VDI – C2 Izquierda



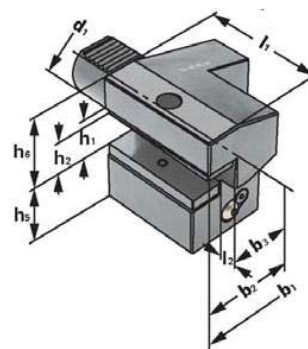
Referencia	Dimensiones	D1	H1	H2	L2	L1	B1	B2	B3	H5	H6
S42.169.12	Ø 16 – 16x12x24	16	12	-	24	13	42	23	5	20	22
S42.209.16	Ø 20 – 20x16x30	20	16	12	30	16	55	30	7	25	30
S42.309.20	Ø 30 – 30x20x40	30	20	16	40	22	70	35	10	28	38
S42.409.25	Ø 40 – 40x25x44	40	25	20	44	22	85	42.5	12.5	32.5	48
S42.509.32	Ø 50 –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

Portaherramientas VDI – C3 Derecha



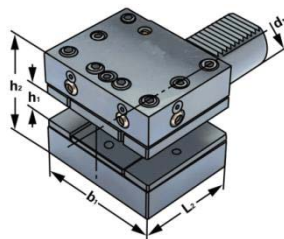
Referencia	Dimensiones	D1	H1	H2	L2	L1	B1	B2	B3	H5	H6
S43.169.12	Ø 16 – 16x12x24	16	12	-	24	13	42	23	5	20	22
S43.209.16	Ø 20 – 20x16x30	20	16	12	30	16	55	30	7	25	30
S43.309.20	Ø 30 – 30x20x40	30	20	16	40	22	70	35	10	28	38
S43.409.25	Ø 40 – 40x25x44	40	25	20	44	22	85	42.5	12.5	32.5	48
S43.509.32	Ø 50 –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

Portaherramientas VDI – C4 Izquierda



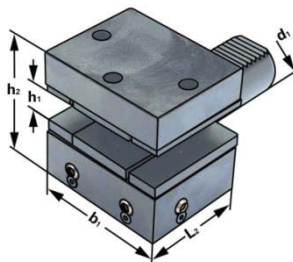
Referencia	Dimensiones	D1	H1	H2	L2	L1	B1	B2	B3	H5	H6
S44.169.12	Ø 16 – 16x12x24	16	12	-	24	13	42	23	5	20	22
S44.209.16	Ø 20 – 20x16x30	20	16	12	30	16	55	30	7	25	30
S44.309.20	Ø 30 – 30x20x40	30	20	16	40	22	70	35	10	28	38
S44.409.25	Ø 40 – 40x25x44	40	25	20	44	22	85	42.5	12.5	32.5	48
S44.509.32	Ø 50 –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

Portaherramientas VDI – D1



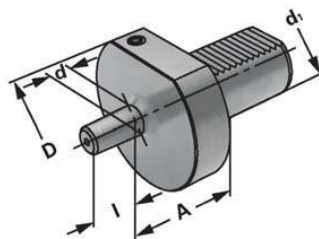
Referencia	Dimensiones	d1	b1	L2	h1	h2
S89.309.12	Ø30 - 30x20x76	30	76	60	20	66
S89.409.16	Ø40 - 40x25x90	40	90	72	25	80.5
S89.509.20	Ø50 - 50x32x105	50	105	85	32	95

Portaherramientas VDI – D2



Referencia	Dimensiones	d1	b1	L2	h1	h2
S90.309.12	Ø30 - 30x20x76	30	76	60	20	73
S90.409.16	Ø40 - 40x25x90	40	90	72	25	90.5
S90.509.20	Ø50 - 50x32x105	50	105	85	32	110

Portaherramientas VDI – DIN 238

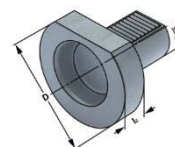


Referencia	Dimensiones	D1	D	D	A	L
S14.309.16	30 – B16	30	B16	68	27	24
S14.409.16	40 – B16	40	B16	83	27	24
S14.509.16	50 – B16	50	B16	98	35	24

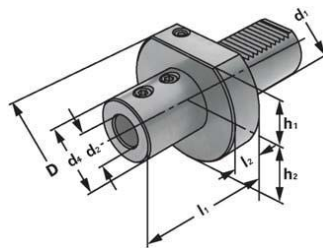
Tapa Protección VDI – Z2

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

Referencia	Dimensiones	D1	D	I2
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

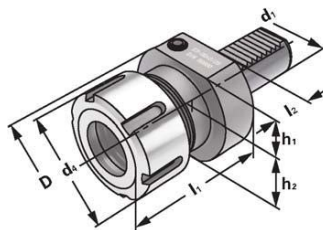


Portaherramientas VDI – E1



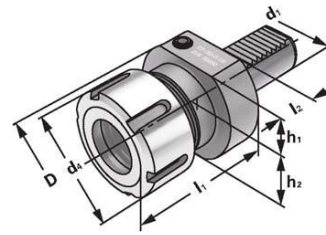
Referencia	Dimensiones	D1	D2	D4	D	H1	H2	L1	L2
S51.209.16	E1 – 20 X 16	20	16	40	50	22	22	67	18
S51.209.20	E1 – 20 X 20	20	20	40	50	22	22	67	18
S51.209.25	E1 – 20 X 25	20	25	45	50	22	22	71	18
S51.309.16	E1 – 30 X 16	30	16	36	68	28	30	64	22
S51.309.20	E1 – 30 X 20	30	20	40	68	28	30	67	22
S51.309.25	E1 – 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



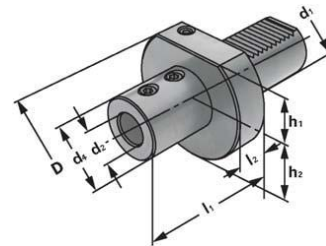
Referencia	Dimensiones	D1	Capacidad	D	D4	H1	H2	L1	L2
S01.169.16	E3 – 16 x 2 – 16	16	OZ16 – 2.16	40	43	18	18	45.5	13
S01.209.16	E3 – 20 x 2 – 16	20	OZ16 – 2.16	50	43	23	23	57	18
S01.309.16	E3 – 30 x 2 – 16	30	OZ16 – 2.16	68	43	28	30	57	22
S01.309.25	E3 – 30 x 2 – 25	30	OZ25 – 2.25	68	60	28	30	75	22
S01.409.25	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

Portaherramientas VDI – E3 Pinzas ER



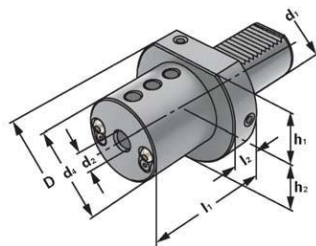
Referencia	Dimensiones	D1	Capacidad	D	D4	H1	H2	L1	L2
S02.169.10	E4 – 16 X 1 – 10	16	ER16 – 1.10	40	32	18	18	50	13
S02.209.10	E4 – 20 X 1 – 10	20	ER16 – 1.10	50	32	22	22	55	18
S02.209.16	E4 – 20 X 2 – 16	20	ER25 – 2.16	50	42	22	22	57	18
S02.309.16	E4 – 30 X 2 – 16	30	ER25 – 2.16	68	42	28	30	57	22
S02.309.20	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



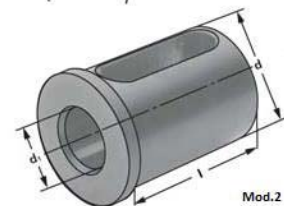
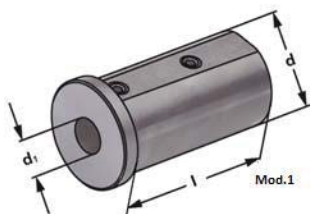
Referencia	Dimensiones	D1	MK/CM	D4	D	L1	L2	H1	H2
S07.169.01	F1 – 16 X MK1	16	1	32	40	32	13	18	18
S07.209.01	F1 – 20 X MK1	20	1	-	50	23	-	22	23
S07.209.02	F1 – 20 X MK2	20	2	40	50	90	30	22	23
S07.309.01	F1 – 30 X MK1	30	1	-	68	27	-	28	30
S07.309.02	F1 – 30 X MK2	30	2	-	68	24	-	28	30
S07.309.03	F1 – 30 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	-

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

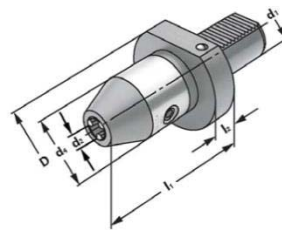
Portaherramientas VDI – E2 – Casquillo



Referencia	Modelo	D	D1 – ø	L
S25.709.1	1	25	6 - 8 - 10 - 12	46
S25.709.2	2	25	16 - 20	46
S32.709.1	1	32	6 - 8 - 10 - 12	56
S32.709.2	2	32	16 - 20 - 25	56
S40.709.1	1	40	6 - 8 - 10 - 12	71
S40.709.2	2	40	16 - 20 - 25 - 32	71

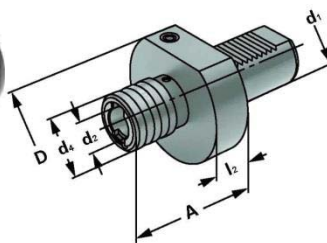


Portaherramientas VDI – Portabrocas CNC



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

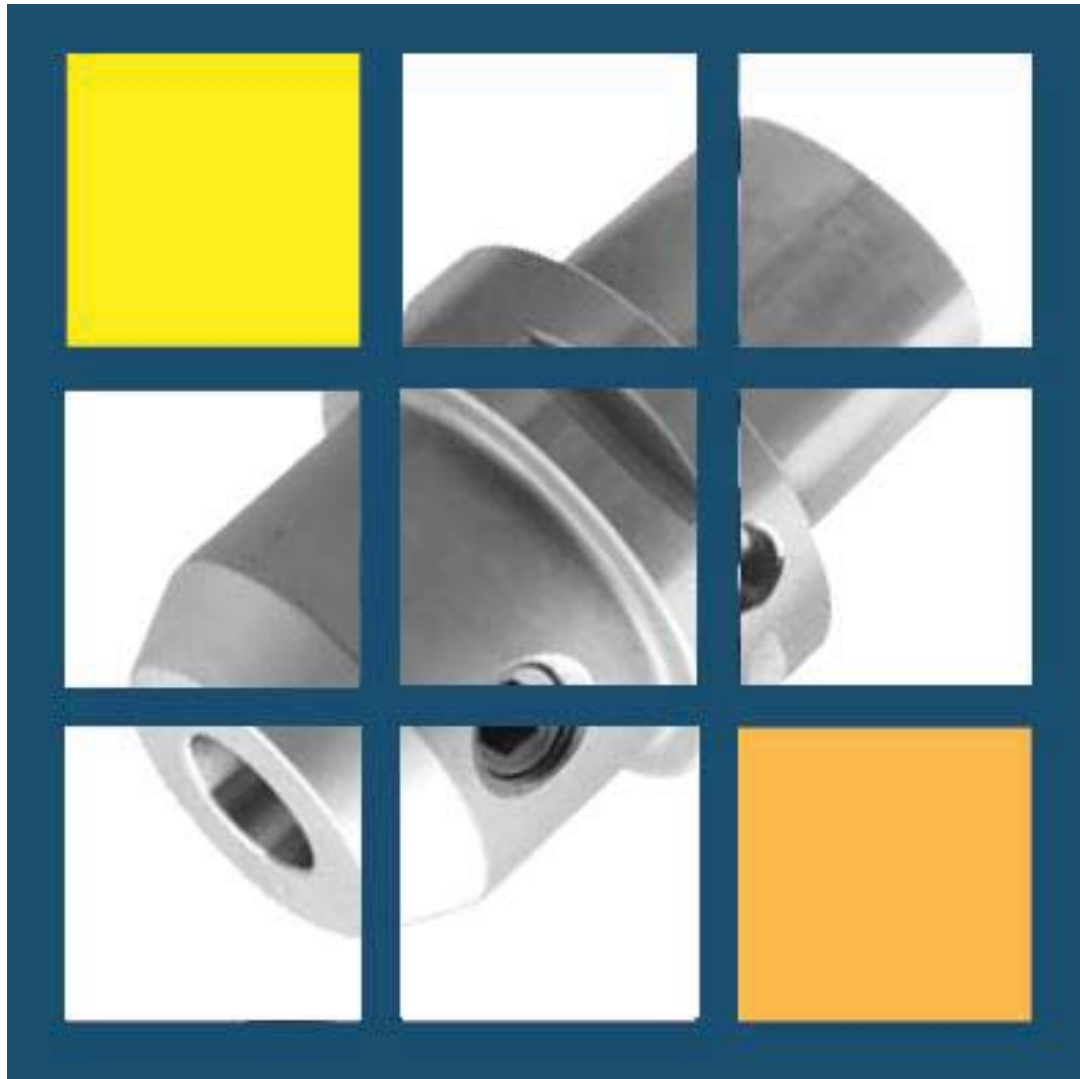
Portaherramientas VDI – Porta Roscado CNC



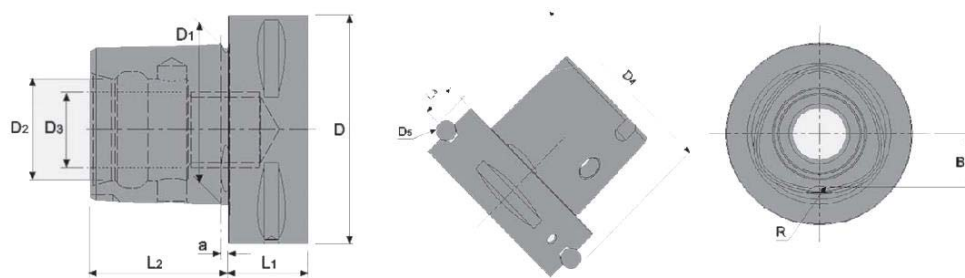
Con Sistema de Embrague

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

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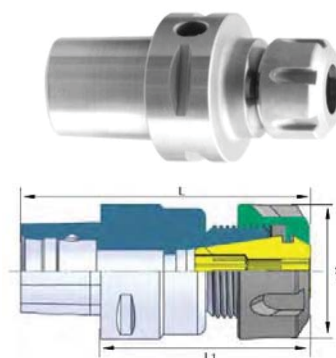
Dimensiones Generales de Amarre



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

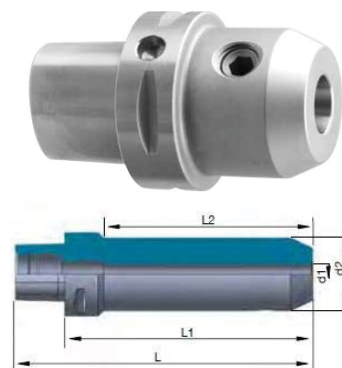
Portapinzas DIN 6499 – Pinzas ER

Referencia	Capacidad	L	I1	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



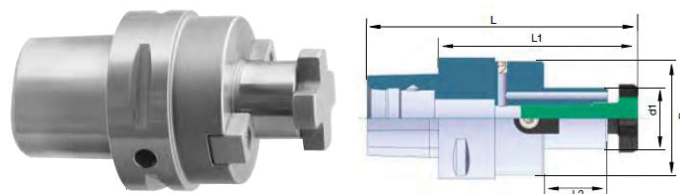
Portas Weldon

Referencia	d1	L	I1	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-WE40	40	138	100	77	90	M-20



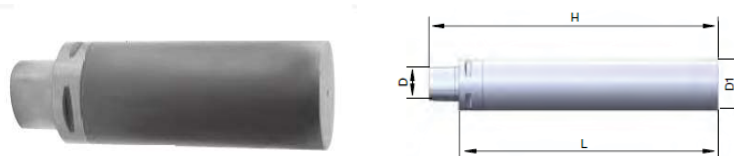
Eje Portafresas

Referencia	d1	L	I1	I2	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

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

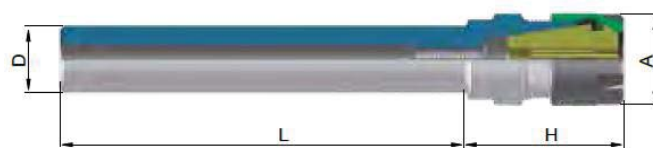


MANGO CILINDRICO SISTEMAS MADERA/ALUMINIO



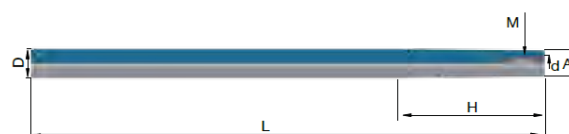
Portapinzas Mango Cilíndrico

Referencia	Capacidad	H	A	D	L
S02.120.06	1-5 – ER8	19	12	12	100
S02.120.06.1	1-5 – ER8	19	12	12	150
S02.120.07	1-7 - ER11	26	16	12	100
S02.120.07.1	1-7 - ER11	26	16	160	150
S02.120.07.2	1-7 - ER11	19	16	16	200
S02.120.07.3	1-7 - ER11	19	16	16	250
S02.120.07.4	1-7 - ER11	19	16	16	300
S02.120.10	1-10 – ER16	31	22	20	100
S02.120.10.1	1-10 – ER16	31	22	20	150
S02.120.10.2	1-10 – ER16	31	22	20	200
S02.120.10.3	1-10 – ER16	31	22	20	300
S02.120.16	1-16 - ER25	40	35	25	100
S02.120.16.1	1-16 - ER25	40	35	25	150
S02.120.16.2	1-16 - ER25	40	35	25	260
S02.120.20	3-20 – ER32	53	50	25	100
S02.120.20.1	3-20 – ER32	53	50	25	150
S02.120.20.2	3-20 – ER32	48	50	32	100
S02.120.20.3	3-20 – ER32	48	50	32	150
S02.120.26	4-30 – ER40	60	63	25	100
S02.120.26.1	4-30 – ER40	60	63	32	100
S02.120.26.2	4-30 – ER40	60	63	40	160



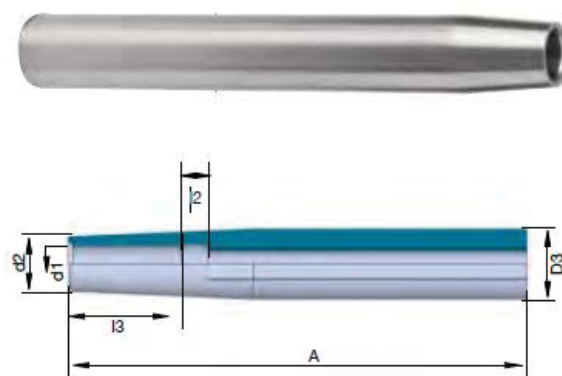
Extension Cilíndrica – Para Portas Roscados

Referencia	H	M	d	A	D	L
S03.120.M5	20	M5	5.5	10	12	65
S03.120.M6	25	M6	6.5	10	20	75
S03.120.M6.1	50	M6	6.5	10	20	100
S03.120.M6.2	75	M6	6.5	10	20	125
S03.120.M8	40	M8	8.5	12.8	16	88
S03.120.M8.1	25	M8	8.5	12.8	20	75
S03.120.M8.2	50	M8	8.5	12.8	20	100
S03.120.M8.3	75	M8	8.5	12.8	20	125
S03.120.M8.4	100	M8	8.5	12.8	20	150
S03.120.M10	25	M10	10.5	17.8	20	75
S03.120.M10.1	25	M10	10.5	17.8	20	80
S03.120.M10.2	50	M10	10.5	17.8	20	100
S03.120.M10.3	75	M10	10.5	17.8	20	125
S03.120.M10.4	100	M10	10.5	17.8	20	150
S03.120.M12	25	M12	12.5	20.8	25	81
S03.120.M12.1	50	M12	12.5	20.8	25	101
S03.120.M12.2	75	M12	12.5	20.8	25	131
S03.120.M12.3	100	M12	12.5	20.8	25	170
S03.120.M12.4	125	M12	12.5	20.8	25	181
S03.120.M12.5	100	M12	17	28.8	32	170
S03.120.M16	25	M16	17	28.8	32	85
S03.120.M16.1	50	M16	17	28.8	32	105
S03.120.M16.2	75	M16	17	28.8	32	135
S03.120.M16.3	125	M16	17	28.8	32	185



Extension Cilindrica – Amarre Termico

Referencia	d1	d2	d3	A	L2	L3
S04.120.3	3	8	12	150	-	12
S04.120.3.1	3	10	16	150	-	12
S04.120.3.2	3	10	20	150	-	12
S04.120.4	4	8	12	150	-	16
S04.120.4.1	4	10	16	150	-	16
S04.120.4.2	4	10	20	150	-	16
S04.120.5	5	10	16	150	-	20
S04.120.5.1	5	10	20	150	-	20
S04.120.6	6	10	16	150	10	26
S04.120.6.1	6	10	20	150	10	26
S04.120.8	8	12	20	150	10	26
S04.120.08.1	8	20	25	150	10	26
S04.120.10	10	14	20	150	10	32
S04.120.10.1	10	20	25	150	10	32
S04.120.10.2	10	24	32	150	10	32
S04.120.12	12	16	20	150	10	37
S04.120.12.1	12	20	25	150	10	37
S04.120.12.2	12	24	32	150	10	37
S04.120.14	14	20	25	150	10	37
S04.120.14.1	14	27	32	150	10	37
S04.120.16	16	22	25	150	10	40
S04.120.16.1	16	27	32	150	10	40
S04.120.18	18	27	32	150	10	40
S04.120.20	20	27	32	150	10	42

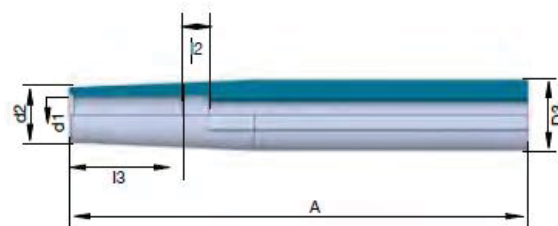


Porta-Escariador Flotante – Mango Cilindrico

Probado con máquinas de alta precisión y equipos de inspección.

El error máximo de concentricidad entre el cono y la asiento de herramienta es 0.003 mm y la oscilación Radial max 3 mm

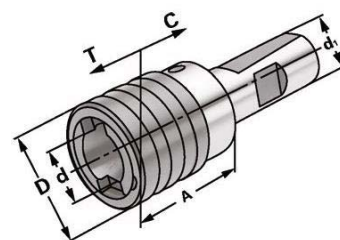
Referencia	d1	d2	d3	A	L2	L3
S04.120.3	3	8	12	150	-	12
S04.120.3.1	3	10	16	150	-	12
S04.120.3.2	3	10	20	150	-	12
S04.120.4	4	8	12	150	-	16
S04.120.4.1	4	10	16	150	-	16
S04.120.4.2	4	10	20	150	-	16
S04.120.5	5	10	16	150	-	20
S04.120.5.1	5	10	20	150	-	20
S04.120.6	6	10	16	150	10	26
S04.120.6.1	6	10	20	150	10	26
S04.120.8	8	12	20	150	10	26
S04.120.08.1	8	20	25	150	10	26
S04.120.10	10	14	20	150	10	32
S04.120.10.1	10	20	25	150	10	32
S04.120.10.2	10	24	32	150	10	32
S04.120.12	12	16	20	150	10	37
S04.120.12.1	12	20	25	150	10	37
S04.120.12.2	12	24	32	150	10	37
S04.120.14	14	20	25	150	10	37
S04.120.14.1	14	27	32	150	10	37
S04.120.16	16	22	25	150	10	40
S04.120.16.1	16	27	32	150	10	40
S04.120.18	18	27	32	150	10	40
S04.120.20	20	27	32	150	10	42



Portapinzas Roscado Con Embrague – Mango Cilindrico

Porta Mango Cilindrico para pinzas de roscado con embrague serie 1 y serie 2.

Referencia	Capacidad	A	D	d	T	T
S05.120.S1	M3-M14	44	36	19	7	7
S05.120.s2	M5-M22	73	53	31	12	12



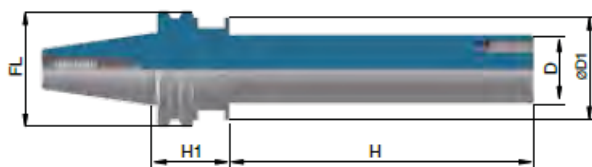
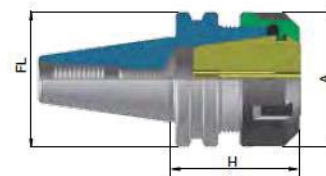
Portapinzas TCL30 – FL50 – FL58 – FL46 - Madera/Aluminio

Referencia	Capacidad	FL	H	A	D
S03.TCL.FL50.ER16	ER-16	50	50	50	32
S03.TCL.FL50.ER32	ER-32	50	50	50	50
S03.TCL.FL50.ER32.2	ER-32	50	67	50	50
S03.TCL.FL50.ER40	ER-40	50	57	50	63
S03.TCL.FL50.ER40.2	ER-40	50	65	50	63
S03.TCL.FL50.OZ25	OZ-25	50	70	50	60
S03.TCL.FL50.OZ25.2	OZ-25	50	80	50	60
S03.TCL.FL58.ER32	ER-32	58	50	58	50
S03.TCL.FL58.ER40	ER-40	58	57	58	63
S03.TCL.FL46.ER32	ER-32	46	60	46	50
S03.TCL.FL46.ER40	ER-40	46	65	46	63
S03.TCL.FL46.OZ25	OZ-25	46	80	46	60

(*)Consultar Modelos De Izquierda

Eje Portafresas TCL30 – FL50 – FL58 – FL46 - Madera/Aluminio

Referencia	FL	H1	D	H	D1
S11.TCL30.FL50.80	50	35	30	80	45
S11.TCL30.FL50.100	50	35	30	100	45
S11.TCL30.FL50.150	50	35	30	150	45
S11.TCL30.FL50.200	50	35	30	200	45
S11.TCL35.FL50.80	50	35	35	80	48
S11.TCL35.FL50.100	50	35	35	100	48
S11.TCL35.FL50.150	50	35	35	150	48
S11.TCL35.FL50.200	50	35	35	200	48
S11.TCL30.FL46.80	46	35	30	80	45
S11.TCL30.FL46.100	46	35	30	100	45
S11.TCL30.FL46.150	46	35	30	150	45
S11.TCL30.FL46.200	46	35	30	200	45
S11.TCL35.FL46.80	46	35	35	80	48
S11.TCL35.FL46.100	46	35	35	100	48
S11.TCL35.FL46.150	46	35	35	150	48
S11.TCL35.FL46.200	46	35	35	200	48
S11.TCL30.FL58.80	58	35	30	80	45
S11.TCL30.FL58.100	58	35	30	100	45
S11.TCL30.FL58.150	58	35	30	150	45
S11.TCL30.FL58.200	58	35	30	200	45
S11.TCL35.FL58.80	58	35	35	80	48
S11.TCL35.FL58.100	58	35	35	100	48
S11.TCL35.FL58.150	58	35	35	150	48
S11.TCL35.FL58.200	58	35	35	200	48

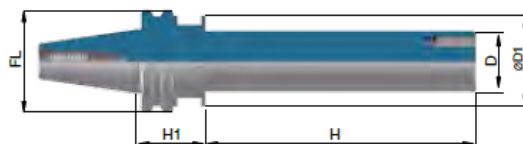
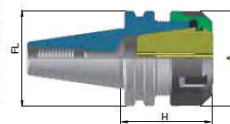


Portas Dentado SCM – Madera/Aluminio

Referencia	Capacidad	H	FL	A
S03.SCM.ER32	ER-32	55	49	50
S03.SCM.ER40	ER-40	74	49	63
S03.SCM.OZ25	OZ-25	70	49	60

(*)Consultar Modelos De Izquierda

Referencia	FL	H1	D	H	D1
S11.SCM30.1	49	41	30	80	45
S11.SCM30.2	49	41	30	100	45
S11.SCM30.3	49	41	30	150	45
S11.SCM30.4	49	41	30	200	45
S11.SCM35.1	49	41	35	80	50
S11.SCM35.2	49	41	35	100	50
S11.SCM35.3	49	41	35	150	50
S11.SCM35.4	49	41	35	200	50
S11.SCM40.1	49	41	40	80	53
S11.SCM40.2	49	41	40	100	53
S11.SCM40.3	49	41	40	150	53
S11.SCM40.4	49	41	40	200	53



PINZAS Y ACCESORIOS

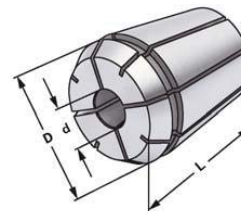


PINZAS OZ – 0.015 – DIN 6388B

Referencia OZ-16	Medida	Referencia OZ-25	Medida	Referencia OZ-32	Medida
415E.02	Ø2	462E.02	Ø2	467E.03	Ø3
415E.03	Ø3	462E.03	Ø3	467E.04	Ø4
415E.04	Ø4	462E.04	Ø4	467E.05	Ø5
415E.05	Ø5	462E.05	Ø5	467E.06	Ø6
415E.06	Ø6	462E.06	Ø6	467E.07	Ø7
415E.07	Ø7	462E.07	Ø7	467E.08	Ø8
415E.08	Ø8	462E.08	Ø8	467E.09	Ø9
415E.09	Ø9	462E.09	Ø9	467E.10	Ø10
415E.10	Ø10	462E.10	Ø10	467E.11	Ø11
415E.11	Ø11	462E.11	Ø11	467E.12	Ø12
415E.12	Ø12	462E.12	Ø12	467E.13	Ø13
415E.13	Ø13	462E.13	Ø13	467E.14	Ø14
415E.14	Ø14	462E.14	Ø14	467E.15	Ø15
415E.15	Ø15	462E.15	Ø15	467E.16	Ø16
415E.16	Ø16	462E.16	Ø16	467E.17	Ø17
		462E.17	Ø17	467E.18	Ø18
		462E.18	Ø18	467E.19	Ø19
		462E.19	Ø19	467E.20	Ø20
		462E.20	Ø20	467E.21	Ø21
		462E.21	Ø21	467E.22	Ø22
		462E.22	Ø22	467E.23	Ø23
		462E.23	Ø23	467E.24	Ø24
		462E.24	Ø24	467E.25	Ø25
		462E.25	Ø25	467E.26	Ø26
				467E.27	Ø27
				467E.28	Ø28
				467E.29	Ø29
				467E.30	Ø30
				467E.31	Ø31
				467E.32	Ø32

Datos Técnicos Pinzas OZ

Modelo	OZ	d1 min/max	Campo Apriete	D	L
415E	OZ.16	2.16	0.5 mm	25.5	40
462E	OZ.25	2.25	0.5 mm	35.05	52
467E	OZ.32	4.32	0.5 mm	43.7	60



Set de Pinzas OZ

Referencia	Pinza	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	5.6.7.8.10.11.12.14.16.18.20.22.24.25.28.30.32



PINZAS ER – 0.015 – DIN 6499B

Referencia ER-8	Medida	Referencia ER-11	Medida	Referencia ER-16	Medida
4004E.01	Ø1	4008E.01	Ø1	426E.01	Ø1
4004E.015	Ø1.5	4008E.015	Ø1.5	426E.02	Ø2
4004E.02	Ø2	4008E.02	Ø2	426E.03	Ø3
4004E.025	Ø2.5	4008E.025	Ø2.5	426E.04	Ø4
4004E.03	Ø3	4008E.03	Ø3	426E.05	Ø5
4004E.035	Ø3.5	4008E.035	Ø3.5	426E.06	Ø6
4004E.04	Ø4	4008E.04	Ø4	426E.07	Ø7
4004E.045	Ø4.5	4008E.045	Ø4.5	426E.08	Ø8
4004E.05	Ø5	4008E.05	Ø5	426E.09	Ø9
		4008E.055	Ø5.5	426E.10	Ø10
		4008E.06	Ø6		
		4008E.065	Ø6.5		
		4008E.07	Ø7		

Referencia ER-20	Medida	Referencia ER-25	Medida	Referencia ER32	Medida
428E.02	Ø2	430E.02	Ø2	470E.02	Ø2
428E.03	Ø3	430E.03	Ø3	470E.03	Ø3
428E.04	Ø4	430E.04	Ø4	470E.04	Ø4
428E.05	Ø5	430E.05	Ø5	470E.05	Ø5
428E.06	Ø6	430E.06	Ø6	470E.06	Ø6
428E.07	Ø7	430E.07	Ø7	470E.07	Ø7
428E.08	Ø8	430E.08	Ø8	470E.08	Ø8
428E.09	Ø9	430E.09	Ø9	470E.09	Ø9
428E.10	Ø10	430E.10	Ø10	470E.10	Ø10
428E.11	Ø11	430E.11	Ø11	470E.11	Ø11
428E.12	Ø12	430E.12	Ø12	470E.12	Ø12
428E.13	Ø13	430E.13	Ø13	470E.13	Ø13
		430E.14	Ø14	470E.14	Ø14
		430E.15	Ø15	470E.15	Ø15
		430E.16	Ø16	470E.16	Ø16
				470E.17	Ø17
				470E.18	Ø18
				470E.19	Ø19
				470E.20	Ø20

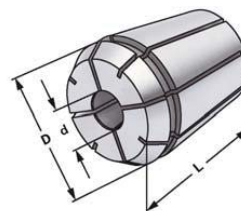
Referencia ER-40	Medida	Referencia ER-50	Medida	Referencia ER-50	Medida
472E.02	Ø2	477E.06	Ø6	477E.30	Ø30
472E.03	Ø3	477E.07	Ø7	477E.31	Ø31
472E.04	Ø4	477E.08	Ø8	477E.32	Ø32
472E.05	Ø5	477E.09	Ø9	477E.33	Ø33
472E.06	Ø6	477E.10	Ø10	477E.34	Ø34
472E.07	Ø7	477E.11	Ø11		
472E.08	Ø8	477E.12	Ø12		
472E.09	Ø9	477E.13	Ø13		
472E.10	Ø10	477E.14	Ø14		
472E.11	Ø11	477E.15	Ø15		
472E.12	Ø12	477E.16	Ø16		
472E.13	Ø13	477E.17	Ø17		
472E.14	Ø14	477E.18	Ø18		
472E.15	Ø15	477E.19	Ø19		
472E.16	Ø16	477E.20	Ø20		
472E.17	Ø17	477E.21	Ø21		
472E.18	Ø18	477E.22	Ø22		
472E.19	Ø19	477E.23	Ø23		
472E.20	Ø20	477E.24	Ø24		
472E.21	Ø21	477E.25	Ø25		
472E.22	Ø22	477E.26	Ø26		
472E.23	Ø23	477E.27	Ø27		
472E.24	Ø24	477E.28	Ø28		
472E.25	Ø25	477E.29	Ø29		

Bajo Petición: Disponemos de Pinzas de Ultra Precisión con 0.005 y 0.002. Las Estándar son de 0.015



Datos Técnicos Pinzas ER

Modelo	ER	d1 min/max	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



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	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 Precision con 0.005 y 0.002. Las Estándar son de 0.015

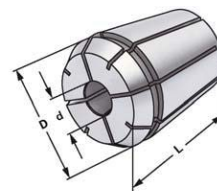
Pinzas Cilíndricas - Gran Apriete

Referencia ø32	Medida	Referencia ø25	Medida	Referencia ø20	Medida
HKS32-03	Ø3	HKS25-03	Ø3	HKS20-03	Ø3
HKS32-04	Ø4	HKS25-04	Ø4	HKS20-04	Ø4
HKS32-05	Ø5	HKS25-05	Ø5	HKS20-05	Ø5
HKS32-06	Ø6	HKS25-06	Ø6	HKS20-06	Ø6
HKS32-07	Ø7	HKS25-07	Ø7	HKS20-07	Ø7
HKS32-08	Ø8	HKS25-08	Ø8	HKS20-08	Ø8
HKS32-09	Ø9	HKS25-09	Ø9	HKS20-09	Ø9
HKS32-10	Ø10	HKS25-10	Ø10	HKS20-10	Ø10
HKS32-11	Ø11	HKS25-11	Ø11	HKS20-11	Ø11
HKS32-12	Ø12	HKS25-12	Ø12	HKS20-12	Ø12
HKS32-13	Ø13	HKS25-13	Ø13	HKS20-13	Ø13
HKS32-14	Ø14	HKS25-14	Ø14	HKS20-14	Ø14
HKS32-15	Ø15	HKS25-15	Ø15	HKS20-15	Ø15
HKS32-16	Ø16	HKS25-16	Ø16	HKS20-16	Ø16
HKS32-17	Ø17	HKS25-17	Ø17		
HKS32-18	Ø18	HKS25-18	Ø18		
HKS32-19	Ø19	HKS25-19	Ø19		
HKS32-20	Ø20	HKS25-20	Ø20		
HKS32-21	Ø21				
HKS32-22	Ø22				
HKS32-23	Ø23				
HKS32-24	Ø24				
HKS32-25	Ø25				

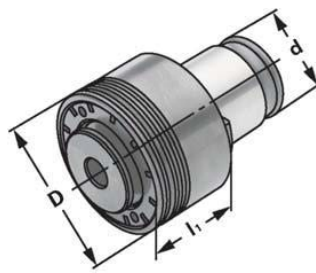


PINZA DIN 6499.A – Machos de Roscado

Referencia	Para Pinza	Cuadradillo	Métrica	D	L
426G.3527	ER.16	3.5 x 2.7	M.3	17	27.5
426G.43	ER.16	4 x 3	M.3.5	17	27.5
426G.4534	ER.16	4.5 x 3.4	M.4	17	27.5
426G.649	ER.16	6 x 4.9	M.5.6.8	17	27.5
426G.755	ER.16	7 x 5.5	M7.10	17	27.5
426G.862	ER.16	8 x 6.2	M.8	17	27.5
428G.3527	ER.20	3.5 x 2.7	M.3	21	34
428G.43	ER.20	4 x 3	M.3.5	21	34
428G.4534	ER.20	4.5 x 3.4	M.4	21	34
428G.649	ER.20	6 x 4.9	M.5.6.8	21	34
428G.755	ER.20	7 x 5.5	M7.10	21	34
428G.862	ER.20	8 x 6.2	M.8	21	34
428G.97	ER.20	9 x 7	M.9.12	21	34
428G.108	ER.20	10 x 8	M.10	21	34
430G.43	ER.25	4 x 3	M.3.5	26	34
430G.4534	ER.25	4.5 x 3.4	M.4	26	34
430G.649	ER.25	6 x 4.9	M.5.6.8	26	34
430G.755	ER.25	7 x 5.5	M7.10	26	34
430G.862	ER.25	8 x 6.2	M.8	26	34
430G.97	ER.25	9 x 7	M9.12	26	34
430G.108	ER.25	10 x 8	M.10	26	34
430G.119	ER.25	11 x 9	M.14	26	34
430G.129	ER.25	12 x 9	M.16	26	34
470G.4534	ER.32	4.5 X 3.4	M.4	33	40
470G.649	ER.32	6 X 4.9	M.5.6.8	33	40
470G.755	ER.32	7 X 5.5	M.7.10	33	40
470G.862	ER.32	8 X 6.2	M.8	33	40
470G.97	ER.32	9 X 7	M.9.12	33	40
470G.108	ER.32	10 X 8	M.10	33	40
470G.119	ER.32	11 X 9	M.14	33	40
470G.129	ER.32	12 X 9	M.16	33	40
470G.1411	ER.32	14 X 11	M.18	33	40
470G.1612	ER.32	16 X 12	M.20	33	40
472G.649	ER.40	6 X 4.9	M.5.6.8	41	46
472G.755	ER.40	7 X 5.5	M.7.10	41	46
472G.862	ER.40	8 X 6.2	M.8	41	46
472G.97	ER.40	9 X 7	M.9.12	41	46
472G.108	ER.40	10 X 8	M.10	41	46
472G.119	ER.40	11 X 9	M.14	41	46
472G.129	ER.40	12 X 9	M.16	41	46
472G.1411	ER.40	14 X 11	M.18	41	46
472G.1612	ER.40	16 X 12	M.20	41	46
472G.18145	ER.40	18 X 14.5	M.24	41	46
472G.2016	ER.40	20 X 16	M.27	41	46
477G.862	ER.50	8 X 6.2	M.8	52	60
477G.97	ER.50	9 X 7	M.9.12	52	60
477G.108	ER.50	10 X 8	M.10	52	60
477G.119	ER.50	11 X 9	M.14	52	60
477G.129	ER.50	12 X 9	M.16	52	60
477G.1411	ER.50	14 X 11	M.18	52	60
477G.1612	ER.50	16 X 12	M.20	52	60
477G.18415	ER.50	18 X 14.5	M.24	52	60
477G.2016	ER.50	20 X 16	M.27	52	60
477G.2218	ER.50	22 X 18	M30	52	60
477G.520	ER.50	25 X 20	M.33	52	60
477G.3224	ER.50	32 X 24	M.39.42	52	60



Modelos de Pinzas de Roscado Con Embrague Incorporado



Pinzas de Roscado con Embrage – Serie 1

Referencia	D	d	L1	M	DIN	Diámetro	Cuadrado
S11.16.1.M3	32	19	25	M.3	371	3.5	2.7
S11.16.1.M3.5	32	19	25	M.3.5	371	4.0	3.0
S11.16.1.M4	32	19	25	M.4	371	4.5	3.4
S11.16.1.M5	32	19	25	M.5	371	6.0	4.9
S11.16.1.M6	32	19	25	M.6	371	6.0	4.9
S11.16.1.M8	32	19	25	M.8	371	8.0	6.2
S11.16.1.M10.2	32	19	25	M.10	376	7.0	5.5
S11.16.1.M10	32	19	25	M.10	371	10.0	8.0
S11.16.1.M12	32	19	25	M.12	376	9.0	7.0
S11.16.1.M14	32	19	25	M.14	376	11.0	9.0

Pinzas de Roscado con Embrage – Serie 2

Referencia	D	d	L1	M	DIN	Diámetro	Cuadrado
S12.16.2.M5	50	31	31	M.5	371	6	4.9
S12.16.2.M6	50	31	31	M.6	371	6	4.9
S12.16.2.M8	50	31	31	M.8	371	8	6.2
S12.16.2.M10	50	31	31	M.10	376	7	5.5
S12.16.2.M10.2	50	31	31	M.10	371	10	8.0
S12.16.2.M12	50	31	31	M.12	376	9	7.0
S12.16.2.M14	50	31	31	M.14	376	11	9.0
S12.16.2.M16	50	31	31	M.16	376	12	9.0
S12.16.2.M18	50	31	31	M.18	376	14	11.0
S12.16.2.M20	50	31	31	M.20	376	16	12.0
S12.16.2.M22	50	31	31	M22	376	18	14.5

Pinzas de Roscado con Embrage – Serie 3

Referencia	D	d	L1	M	DIN	Diámetro	Cuadrado
S13.16.3.M14	72	48	41	M.14	376	11	9.0
S13.16.3.M16	72	48	41	M.16	376	12	9.0
S13.16.3.M18	72	48	41	M.18	376	14	11.0
S13.16.3.M20	72	48	41	M.20	376	16	12.0
S13.16.3.M22	72	48	41	M.22	376	18	14.5
S13.16.3.M24	72	48	41	M.24	376	18	14.5
S13.16.3.M27	72	48	41	M.27	376	20	16.0
S13.16.3.M30	72	48	41	M.30	376	22	18.0
S13.16.3.M33	72	48	41	M.33	376	25	20.0
S13.16.3.M36	72	48	41	M.36	376	28	22.0

Reductor Cabecillas de Roscado

Referencia	Amarre	Salida	D	d	L
S13.00.21	Serie 2	Serie 1	48	31	40.4
S13.00.32	Serie 3	Serie 2	59	48	62.6



SERIE 3010-173E – BISON

FORMA AGUJERO

R= FORMA REDONDA

C= FORMA CUADRADA

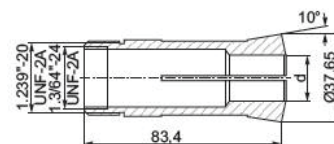
H= FORMA HEXAGONAL



Referencia	D1	D2	L	d		Referencia	D1	D2	L	d	
S3010-173E-4EG	48	60	94	4	R	S3010-173E-4K	48	60	94	4	C
S3010-173E-5EG	48	60	94	5	R	S3010-173E-5K	48	60	94	5	C
S3010-173E-6EG	48	60	94	6	R	S3010-173E-6K	48	60	94	6	C
S3010-173E-7EG	48	60	94	7	R	S3010-173E-7K	48	60	94	7	C
S3010-173E-8EG	48	60	94	8	R	S3010-173E-8K	48	60	94	8	C
S3010-173E-9EG	48	60	94	9	R	S3010-173E-9K	48	60	94	9	C
S3010-173E-9EO	48	60	94	9	R	S3010-173E-10K	48	60	94	10	C
S3010-173E-10EO	48	60	94	10	R	S3010-173E-11K	48	60	94	11	C
S3010-173E-11EO	48	60	94	11	R	S3010-173E-12K	48	60	94	12	C
S3010-173E-12EO	48	60	94	12	R	S3010-173E-13K	48	60	94	13	C
S3010-173E-13EO	48	60	94	13	R	S3010-173E-14K	48	60	94	14	C
S3010-173E-14EO	48	60	94	14	R	S3010-173E-16K	48	60	94	16	C
S3010-173E-15EO	48	60	94	15	R	S3010-173E-18K	48	60	94	18	C
S3010-173E-16EO	48	60	94	16	R	S3010-173E-20K	48	60	94	20	C
S3010-173E-17EO	48	60	94	17	R	S3010-173E-22K	48	60	94	22	C
S3010-173E-18EO	48	60	94	18	R	S3010-173E-24K	48	60	94	24	C
S3010-173E-19EO	48	60	94	19	R	S3010-173E-25K	48	60	94	25	C
S3010-173E-20EO	48	60	94	20	R	S3010-173E-28K	48	60	94	28	C
S3010-173E-21EO	48	60	94	21	R	S3010-173E-30K	48	60	94	30	C
S3010-173E-22EO	48	60	94	22	R	S3010-173E-4S	48	60	94	4	H
S3010-173E-23EO	48	60	94	23	R	S3010-173E-5S	48	60	94	5	H
S3010-173E-24EO	48	60	94	24	R	S3010-173E-6S	48	60	94	6	H
S3010-173E-25EO	48	60	94	25	R	S3010-173E-7S	48	60	94	7	H
S3010-173E-26EO	48	60	94	26	R	S3010-173E-8S	48	60	94	8	H
S3010-173E-27EO	48	60	94	27	R	S3010-173E-9S	48	60	94	9	H
S3010-173E-28EO	48	60	94	28	R	S3010-173E-10S	48	60	94	10	H
S3010-173E-29EO	48	60	94	29	R	S3010-173E-11S	48	60	94	11	H
S3010-173E-30EO	48	60	94	30	R	S3010-173E-12S	48	60	94	12	H
S3010-173E-31EO	48	60	94	31	R	S3010-173E-13S	48	60	94	13	H
S3010-173E-32EO	48	60	94	32	R	S3010-173E-14S	48	60	94	14	H
S3010-173E-33EO	48	60	94	33	R	S3010-173E-15S	48	60	94	15	H
S3010-173E-34EO	48	60	94	34	R	S3010-173E-16S	48	60	94	16	H
S3010-173E-35EO	48	60	94	35	R	S3010-173E-17S	48	60	94	17	H
S3010-173E-36EO	48	60	94	36	R	S3010-173E-19S	48	60	94	19	H
S3010-173E-37EO	48	60	94	37	R	S3010-173E-22S	48	60	94	22	H
S3010-173E-38EO	48	60	94	38	R	S3010-173E-24S	48	60	94	24	H
S3010-173E-39EO	48	60	94	39	R	S3010-173E-27S	48	60	94	27	H
S3010-173E-40EO	48	60	94	40	R	S3010-173E-30S	48	60	94	30	H
S3010-173E-41EO	48	60	94	41	R	S3010-173E-32S	48	60	94	32	H
S3010-173E-42EO	48	60	94	42	R	S3010-173E-36S	48	60	94	36	H

Pinzas 5C – Bison – Serie 3000

Referencia	Dim.	d	Referencia	Dim.	d
S3000-1	5C-3	3	S3000-25	5C-15	15
S3000-2	5C-3.5	3.5	S3000-26	5C-15.5	15.5
S3000-3	5C-4	4	S3000-27	5C-16	16
S3000-4	5C-4.5	4.5	S3000-28	5C-16.5	16.5
S3000-5	5C-5	5	S3000-29	5C-17	17
S3000-6	5C-5.5	5.5	S3000-30	5C-17.5	17.5
S3000-7	5C-6	6	S3000-31	5C-18	18
S3000-8	5C-6.5	6.5	S3000-32	5C-18.5	18.5
S3000-9	5C-7	7	S3000-33	5C-19	19
S3000-10	5C-7.5	7.5	S3000-34	5C-19.5	19.5
S3000-11	5C-8	8	S3000-35	5C-20	20
S3000-12	5C-8.5	8.5	S3000-36	5C-20.5	20.5
S3000-13	5C-9	9	S3000-37	5C-21	21
S3000-14	5C-9.5	9.5	S3000-38	5C-21.5	21.5
S3000-15	5C-10	10	S3000-39	5C-22	22
S3000-16	5C-10.5	10.5	S3000-40	5C-22.5	22.5
S3000-17	5C-11	11	S3000-41	5C-23	23
S3000-18	5C-11.5	11.5	S3000-42	5C-23.5	23.5
S3000-19	5C-12	12	S3000-43	5C-24	24
S3000-20	5C-12.5	12.5	S3000-44	5C-24.5	24.5
S3000-21	5C-13	13	S3000-45	5C-25	25
S3000-22	5C-13.5	13.5	S3000-46	5C-25.5	25.5
S3000-23	5C-14	14	S3000-47	5C-26	26
S3000-24	5C-14.5	14.5			





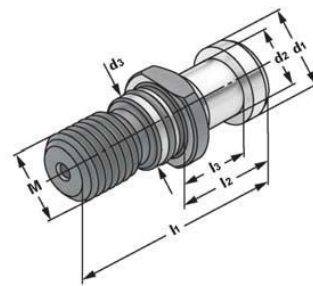
FORMA AGUJERO
R= FORMA REDONDA
C= FORMA CUADRADA
H= FORMA HEXAGONAL

Referencia	D1	D2	L	d		Referencia	D1	D2	L	d	
S3010-185E-4EG	66	84	110	4	R	S3010-185E-4K	66	84	110	4	C
S3010-185E-5EG	66	84	110	5	R	S3010-185E-5K	66	84	110	5	C
S3010-185E-6EG	66	84	110	6	R	S3010-185E-6K	66	84	110	6	C
S3010-185E-7EG	66	84	110	7	R	S3010-185E-7K	66	84	110	7	C
S3010-185E-8EG	66	84	110	8	R	S3010-185E-8K	66	84	110	8	C
S3010-185E-9EG	66	84	110	9	R	S3010-185E-9K	66	84	110	9	C
S3010-185E-9EO	66	84	110	9	R	S3010-185E-10K	66	84	110	10	C
S3010-185E-10EO	66	84	110	10	R	S3010-185E-11K	66	84	110	11	C
S3010-185E-11EO	66	84	110	11	R	S3010-185E-12K	66	84	110	12	C
S3010-185E-12EO	66	84	110	12	R	S3010-185E-13K	66	84	110	13	C
S3010-185E-13EO	66	84	110	13	R	S3010-185E-14K	66	84	110	14	C
S3010-185E-14EO	66	84	110	14	R	S3010-185E-16K	66	84	110	16	C
S3010-185E-15EO	66	84	110	15	R	S3010-185E-18K	66	84	110	18	C
S3010-185E-16EO	66	84	110	16	R	S3010-185E-20K	66	84	110	20	C
S3010-185E-17EO	66	84	110	17	R	S3010-185E-22K	66	84	110	22	C
S3010-185E-18EO	66	84	110	18	R	S3010-185E-24K	66	84	110	24	C
S3010-185E-19EO	66	84	110	19	R	S3010-185E-25K	66	84	110	25	C
S3010-185E-20EO	66	84	110	20	R	S3010-185E-28K	66	84	110	28	C
S3010-185E-21EO	66	84	110	21	R	S3010-185E-30K	66	84	110	30	C
S3010-185E-22EO	66	84	110	22	R	S3010-185E-32K	66	84	110	32	C
S3010-185E-23EO	66	84	110	23	R	S3010-185E-36K	66	84	110	36	C
S3010-185E-24EO	66	84	110	24	R	S3010-185E-40K	66	84	110	40	C
S3010-185E-25EO	66	84	110	25	R	S3010-185E-4S	66	84	110	4	H
S3010-185E-26EO	66	84	110	26	R	S3010-185E-5S	66	84	110	5	H
S3010-185E-27EO	66	84	110	27	R	S3010-185E-6S	66	84	110	6	H
S3010-185E-28EO	66	84	110	28	R	S3010-185E-7S	66	84	110	7	H
S3010-185E-29EO	66	84	110	29	R	S3010-185E-8S	66	84	110	8	H
S3010-185E-30EO	66	84	110	30	R	S3010-185E-9S	66	84	110	9	H
S3010-185E-31EO	66	84	110	31	R	S3010-185E-10S	66	84	110	10	H
S3010-185E-32EO	66	84	110	32	R	S3010-185E-11S	66	84	110	11	H
S3010-185E-33EO	66	84	110	33	R	S3010-185E-12S	66	84	110	12	H
S3010-185E-34EO	66	84	110	34	R	S3010-185E-13S	66	84	110	13	H
S3010-185E-35EO	66	84	110	35	R	S3010-185E-14S	66	84	110	14	H
S3010-185E-36EO	66	84	110	36	R	S3010-185E-15S	66	84	110	15	H
S3010-185E-37EO	66	84	110	37	R	S3010-185E-16S	66	84	110	16	H
S3010-185E-38EO	66	84	110	38	R	S3010-185E-17S	66	84	110	17	H
S3010-185E-39EO	66	84	110	39	R	S3010-185E-19S	66	84	110	19	H
S3010-185E-40EO	66	84	110	40	R	S3010-185E-22S	66	84	110	22	H
S3010-185E-41EO	66	84	110	41	R	S3010-185E-24S	66	84	110	24	H
S3010-185E-42EO	66	84	110	42	R	S3010-185E-27S	66	84	110	27	H
S3010-185E-43EO	66	84	110	43	R	S3010-185E-30S	66	84	110	30	H
S3010-185E-44EO	66	84	110	44	R	S3010-185E-32S	66	84	110	32	H
S3010-185E-45EO	66	84	110	45	R	S3010-185E-36S	66	84	110	36	H
S3010-185E-46EO	66	84	110	46	R	S3010-185E-38S	66	84	110	38	H
S3010-185E-47EO	66	84	110	47	R	S3010-185E-41S	66	84	110	41	H
S3010-185E-48EO	66	84	110	48	R	S3010-185E-46S	66	84	110	46	H
S3010-185E-49EO	66	84	110	49	R	S3010-185E-50S	66	84	110	50	H
S3010-185E-50EO	66	84	110	50	R						
S3010-185E-51EO	66	84	110	51	R						
S3010-185E-52EO	66	84	110	52	R						
S3010-185E-53EO	66	84	110	53	R						
S3010-185E-54EO	66	84	110	54	R						
S3010-185E-55EO	66	84	110	55	R						
S3010-185E-56EO	66	84	110	56	R						
S3010-185E-57EO	66	84	110	57	R						
S3010-185E-58EO	66	84	110	58	R						
S3010-185E-59EO	66	84	110	59	R						
S3010-185E-60EO	66	84	110	60	R						

Tirantes DIN 69872

Referencia	Metrica	L1	L2	L3	D1	D2	D3	D4
S20.302.12	M-12	44	24	19	13	9	13	3.0
S20.402.16	M-16	54	26	20	19	14	17	7.0
S20.502.24	M-24	74	34	25	28	21	25	11.5
↑ Con Agujero Y Sin Junta								
S20.402.16.B	M-16	54	26	20	19	14	17	7.0
S20.402.24.B	M-24	74	34	25	28	21	25	11.5
↑ Con Agujero Y Con Junta								
S20.403.16	M-16	54	26	20	19	14	17	-
S20.403.24	M-24	74	34	25	28	21	25	-

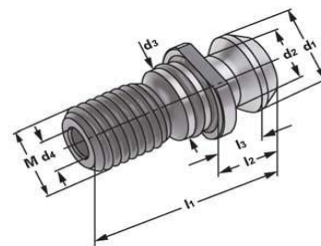
↑ Sin Agujero Y Con Junta



Tirantes DIN ISO 7388

Referencia	Metrica	L1	L2	L3	D1	D2	D3	D4
S20.404.16	M-16	44.5	16.4	11.15	18.95	12.95	17	7.0
S20.504.24	M-24	65.5	25.55	17.95	29.10	19.60	25	11.5
↑ Con Agujero Y Sin Junta								
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	65.5	25.55	17.95	29.10	19.60	25	11.5

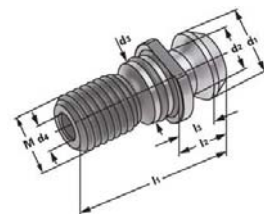
↑ Con Agujero Y Con Junta



Tirantes DIN ISO CAT Métrica

Referencia	Metrica	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

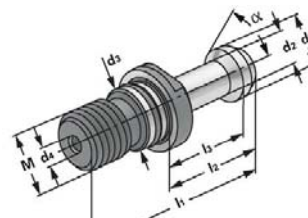
↑ Con Agujero Y Con Junta



Tirantes MAS 403 BT (Jis B6339) Ejecución Corta

Referencia	Metrica	L1	L2	L3	d1	d2	d3	d4
S20.405.45.21	M-16	57	32	25	15	10	17	4.0
S20.405.60.21	M-16	57	32	25	15	10	17	4.0
S20.405.90.21	M-16	57	32	25	15	10	17	4.0

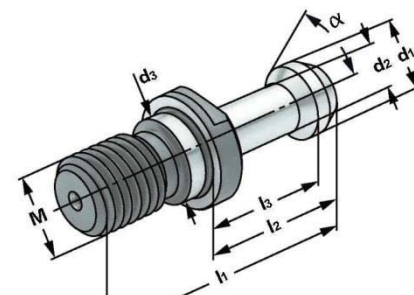
↑ Con Agujero Y Con Junta



Tirantes MAS 403 BT (Jis B6339)

Referencia	Metrica	L1	L2	L3	d1	d2	d3
S20.305.45	M-12	43	23	18	11	7	12.5
S20.305.60	M-12	43	23	18	11	7	12.5
S20.405.45	M-16	60	35	28	15	10	17.0
S20.405.60	M-16	60	35	28	15	10	17.0
S20.405.90	M-16	60	35	28	15	10	17.0
S20.505.45	M-24	85	45	35	23	17	25.0
S20.505.60	M-24	85	45	35	23	17	25.0
S20.505.90	M-24	85	45	35	23	17	25.0

↑ Sin Agujero y Sin Junta



Referencia	Metrica	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-12	43	23	18	11	7	12.5	2.5
S20.406.45	M.16	60	35	28	15	10	17.4	4
S20.406.60	M.16	60	35	28	15	10	17.4	4
S20.406.90	M.16	60	35	28	15	10	17.4	4
S20.506.45	M.24	85	45	35	23	17	25.0	6.0
S20.506.60	M.24	85	45	35	23	17	25.0	6.0
S20.506.90	M.24	85	45	35	23	17	25.0	6.0

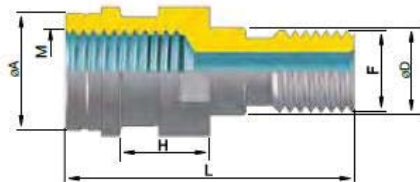
↑ Con Agujero y Con Junta



Tirante DIN 2080

Referencia	Metrica	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

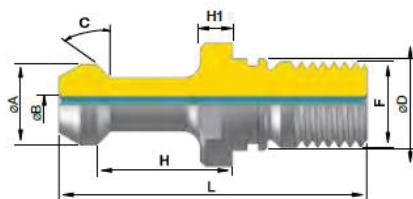
↑ Con Agujero y Protección Anillo



Tirante HURCO

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

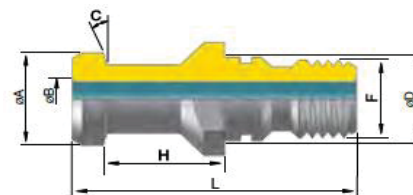
↑ Con Agujero y Protección Anillo



Tirante KITAMURA

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

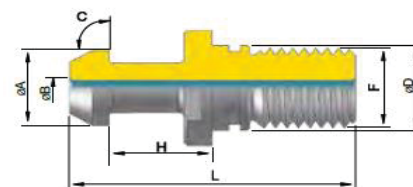
↑ Con Agujero y Protección Anillo



Tirante MITSUI SEIKI

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

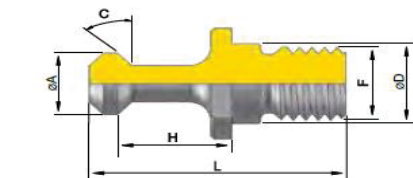
↑ Con Agujero y Protección Anillo



Tirante CHIRON

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

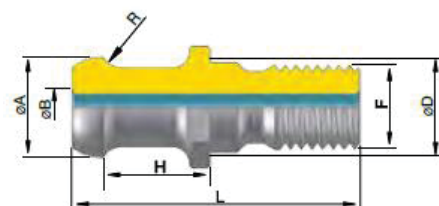
↑ Sin Agujero



Tirante CB FERRARI

Referencia	F	R	ØD	øA	H	L
S20.FERRARI.0185	M-16	3.7	-	16	-	57
S20.FERRARI.1385	M-12	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



Tirante ALBERTI – BIESSE – CMS - SCM

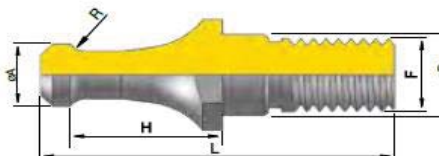
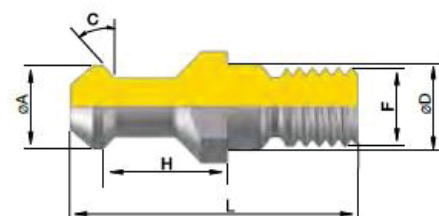
Referencia	F	C	ØD	øA	H	L
S20.ALBERTI.M6	M-6	45°	6.5	7	9.5	23
S20.ALBERTI.M8	M-8	45°	9	10	13.5	31
S20.ALBERTI.M12	M-12	45°	13	12.8	19	44

S20.BIESSE M-12 3.2 13 12 24 44

S20.CMS M-12 2.4 13 12.8 19 44

Referencia	F	R	Ød	øA	H	L
S20.SCM	M-10	2.3	11	8.5	18.3	42.5

↑ Sin Agujero



Llaves para Pinzas ER / OZ

Referencia	Pinza	D
LL.01.OZ16	OZ.16	40
LL.01.OZ25	OZ.25	58
LL.01.OZ32	OZ.32	68

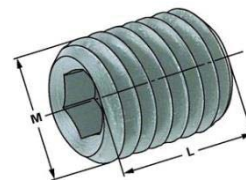


Referencia	Pinza	D
LL.02.ER16	ER.16	32
LL.02.ER25	ER.25	42
LL.02.ER32	ER.32	50
LL.02.ER40	ER.40	63

(*) Disponibles también para Llaves Mini ER8 – ER 11 – ER16

Tornillos Amarre Weldon DIN 1835B

Referencia	Metrica	Long	Para Diametros
S04.101.06	M-6	10	6
S04.101.08	M-8	10	8
S04.101.10	M-10	12	10
S04.101.12	M-12	16	12 Y 14
S04.101.16	M-14	16	16 Y 18
S04.101.20	M-16	20	20
S04.101.25	M18X2	20	25
S04.101.32	M20X2	25	32
S04.101.40	M20X2	25	40



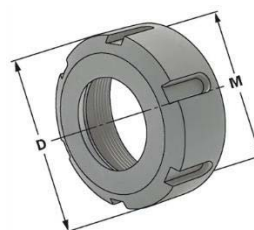
Limpiaconos para Portaherramientas

Referencia	Para Modelo	Referencia	Para Modelo
S710.OZ16	OZ16	S710.CM1	CM1
S710.OZ25	OZ25	S710.CM2	CM2
S710.OZ32	OZ32	S710.CM3	CM3
S710.ER16	ER16	S710.CM4	CM4
S710.ER25	ER25	S710.CM5	CM5
S710.ER32	ER32		
S710.ER40	ER40		
S710.SK30	SK30		
S710.SK40	SK40		
S710.SK50	SK50		



DIN 6388D – Para OZ

Referencia	Pinza	D	Metrica Rosca
S01.112.OZ16	OZ-16	43	M33 X 1.5
S01.112.OZ25	OZ-25	60	M48 X 2
S01.112.OZ32	OZ-32	72	M60 X 2.5

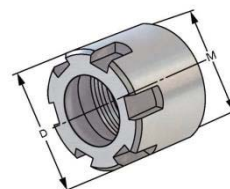


DIN 6499 – Para ER . Modelo Estandar

Referencia	Pinza	D	Metrica Rosca
S02.110.ER16	ER-16	28	M22 X 1.5
S02.110.ER20	ER-20	35	M25 X 1.5
S02.110.ER25	ER-25	42	M32 X 1.5
S02.110.ER32	ER-32	50	M40 X 1.5
S02.110.ER40	ER-40	63	M50 X 1.5

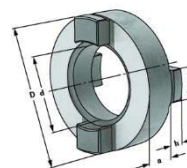
DIN 6499 – Para ER . Modelo Mini

Referencia	Pinza	D	Metrica Rosca
S02.111.ER11	ER-11	16	M13X0.75
S02.111.ER16	ER-16	22	M19X1



Arandela Separación Doble Amarre

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



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 HSK50 – CAPTO C5	150	160
S706.40	SK40 – ISO40 – BT40 – CAT40 HSK63 – CAPTO C6	150	160
S706.50	SK50 – ISO50 – BT50 – CAT50 HSK100 – CAPTO C10	200	210



Soporte Con Rodamientos para Herramientas

Referencia	Para Modelo	Base	Altura
S707.30	SK30 – ISO30 – BT-30 – CAT30 HSK50 – CAPTO C5	100	160
S707.40	SK40 – ISO40 – BT40 – CAT40 HSK63 – CAPTO C6	100	160
S707.50	SK50 – ISO50 – BT50 – CAT50 HSK100 – CAPTO C10	150	220



Soporte Herramientas Cilíndricas

Referencia	Para Modelo
S708.30	Ø Externo 12-16-20
S708.40	Ø Externo 20-25-32
S708.50	Ø Externo 12-16-20-25-32



Accesorio Soporte Portaherramientas

Referencia	Para Modelo	Agujeros
S709.30	SK30 – ISO30 – BT-30	9
S709.40	SK40 – ISO40 – BT40	7
S709.50	SK50 – ISO50 – BT50	5
S709.63	HSK-63	6
S709.100	HSK-100	4



(*) También disponibles Armarios/Estanterías portaherramientas.

Portabrocas Serie Industrial

Referencia	d Max	Amarre	Campo Amarre	D	L
S5134.720	10	B-12	0.5-10	40	85.5
S5134.721	10	B-16	0.5-10	40	85.5
S5134.722	10	1/2"-20	0.5-10	40	94.5
S5134.723	13	B-12	1-13	43	84.5
S5134.724	13	B-16	1-13	43	84.5
S5134.725	13	3/8"-24	1-13	43	93.5
S5134.726	13	1/2"-20	1-13	43	93.5
S5134.727	16	B-16	1-16	50	94.5
S5134.728	16	B-18	1-16	50	100.5
S5134.729	16	1/2"-20	1-16	50	103.5
S5134.730	16	5/8"-20	1-16	50	103.5



Eje de Amarre DIN 238

Referencia	CM	Capacidad	A	D
S14.106.01	1	B.12	102	29
S14.106.02	2	B.12	102	29
S14.107.02	2	B.16	112	29
S14.107.03	3	B.16	134	29
S14.107.04	4	B.16	158	29



Portas Mecanizables

Porta para mandrinado especial, con Dureza +/- 25 HRC

Norma DIN 69871

Referencia	K	D	A
S2191.1	SK-40	40	280
S2191.2	SK-40	63	280
S2191.3	SK-50	50	330
S2191.4	SK-50	80	330

Norma MAS403BT

Referencia	K	D	L
S2192.1	BT-40	40	280
S2192.2	BT-40	63	280
S2192.3	BT-50	50	330
S2192.4	BT-50	80	330

Norma DIN 2080

Referencia	K	D	A
S2190.1	ISO-40	40	280
S2190.2	ISO-40	63	280
S2190.3	ISO-50	50	330
S2190.4	ISO-50	80	330

Norma HSK-A

Referencia	K	D	L
S7891.1	HSK-A63	63	150
S7891.2	HSK-A63	80	250
S7891.3	HSK-A100	97	250
S7891.4	HSK-A32	25	150
S7891.5	HSK-A40	40	150
S7891.6	HSK-A50	50	150
S791.7	HSK-A80	80	250

Norma VDI DIN-69880

Referencia	d1	d2	L
S7892.1	Ø16	40	60
S7892.2	Ø20	50	70
S7892.3	Ø30	68	100
S7892.4	Ø30	68	240
S7892.5	Ø40	83	120
S7892.6	Ø40	83	320
S7892.7	Ø50	98	135
S7892-8	Ø50	98	400

Norma VDI DIN-69880

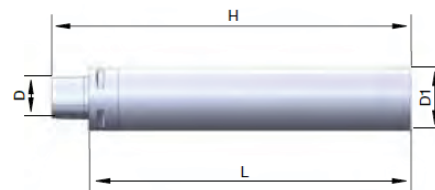
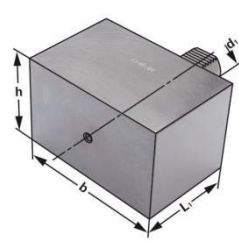
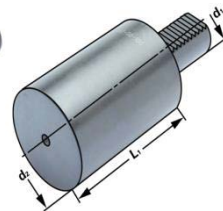
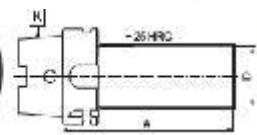
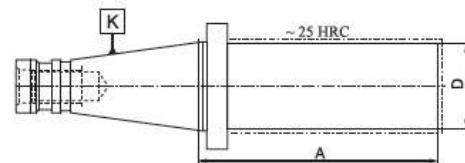
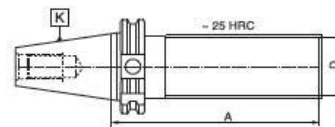
Referencia	d1	L	H	B
S7893.1	Ø16	44	44	78
S7893.2	Ø20	75	60	100
S7893.3	Ø30	85	76	130
S7893.4	Ø40	100	96	151
S7893.5	Ø50	125	120	160

Norma ISO 26623-1

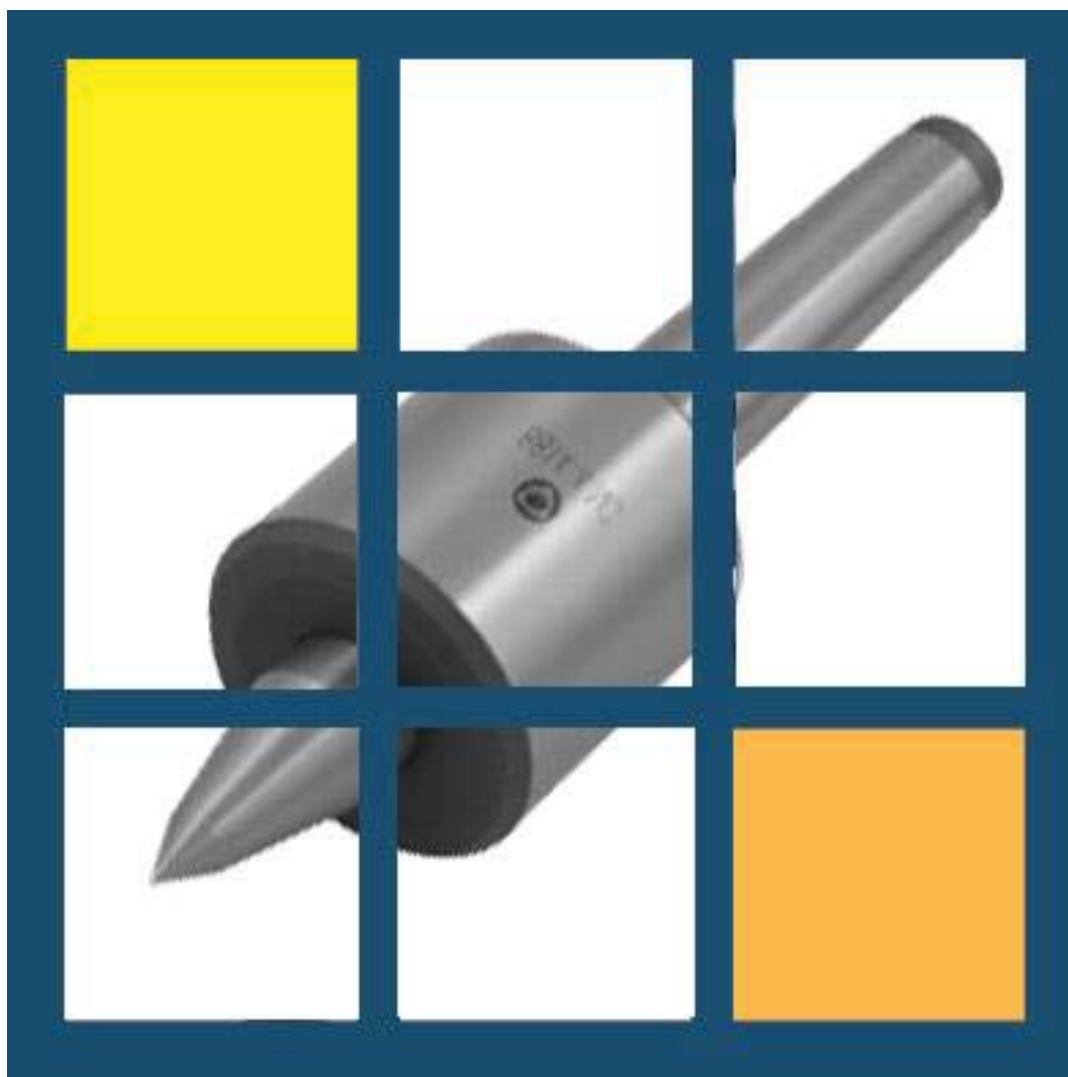
Referencia	D	D1	H	L
S7894.1	63	63	180	158
S7894.2	63	120	180	158

Porta Para Verificación

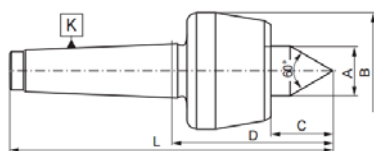
Referencia	K	D	L
S2852.0	SK-30	30	200
S2852.1	SK-40	40	300
S2852.2	SK-50	50	300
S2854.0	BT-30	30	200
S2854.1	BT-40	40	300
S2854.2	BT-50	50	300
S2850.1	ISO-40	40	300
S2850.2	ISO-50	50	300
S2856.1	HSK-A63	40	300
S2856-2	HSK-A100	50	300



PUNTOS DE CENTRADO

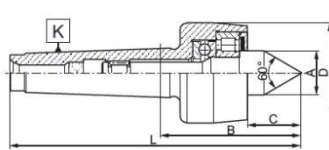


Punto Giratorio 60° - Serie 8811R



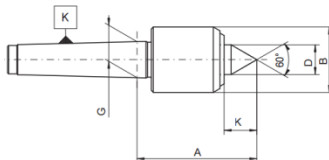
Referencia	CM / MK	Kg Max Pieza	RPM	Excentricidad Max	A	B	C	D	L
S8811R.1	CM1	100	7000	0.005	15	36	17	60.5	114
S8811R.2	CM2	200	7000	0.005	20	45	23.5	64.5	128.2
S8811R.3	CM3	500	5000	0.005	25	60	30.5	79	160
S8811R.4	CM4	800	3800	0.005	32	70	40	101.5	204
S8811R.5	CM5	2000	3000	0.005	40	90	49.5	128	257.5
S8811R.6	CM6	3500	2600	0.005	50	105	57.5	152	334

Punto Giratorio 60° - Serie 8811



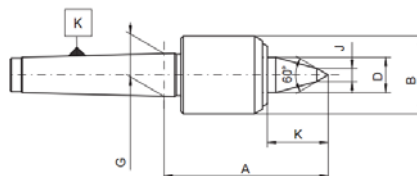
Referencia	CM / MK	Kg Max Pieza	RPM	Excentricidad Max	A	B	C	D	L
S8811.1	CM1	100	5000	0.008	15	49.5	17.0	38	103.0
S8811.2	CM2	180	5000	0.008	18	56.5	21.5	40	120.5
S8811.3	CM3	450	4000	0.008	25	75.0	27.5	56	156.5
S8811.4	CM4	1000	3000	0.008	32	85.0	33.5	64	187.0
S8811.5	CM5	1900	2500	0.010	40	108.0	44.0	85	237.0
S8811.6	CM6	3700	2000	0.010	62.4	151.5	64.0	130	333.5
S8811.7	CM7	9500	1000	0.020	75	196.5	73.5	150	447.0

Punto Giratorio 60° - Serie 8812R



Referencia	CM / MK	Kg Max Pieza	RPM	Excentricidad Max	A	B	D	G	K
S8812R.2	CM2	200	7000	0.005	62	32	15	17.78	18
S8812R.3	CM3	400	7000	0.005	62	34	15	23.82	18
S8812R.4	CM4	800	6300	0.005	75.5	42	20	31.26	25
S8812R.5	CM5	1600	4300	0.01	104	58	30	44.39	34
S8812R.6	CM6	3500	3000	0.02	143	80	42	63.34	49

Punto Giratorio 60° - Serie 8813R



Referencia	CM / MK	Kg Max Pieza	RPM	Excentricidad Max	A	B	D	G	K	J
S8813R.2	CM2	170	7000	0.008	73	32	15	17.780	29	10
S8813R.3	CM3	340	7000	0.008	74	34	15	23.825	30	11
S8813R.4	CM4	700	6300	0.008	88.5	42	20	31.267	38	13
S8813R.5	CM5	1400	4300	0.01	119	58	30	44.399	49	14
S8813R.6	CM6	3000	3000	0.02	164	80	42	63.348	70	18

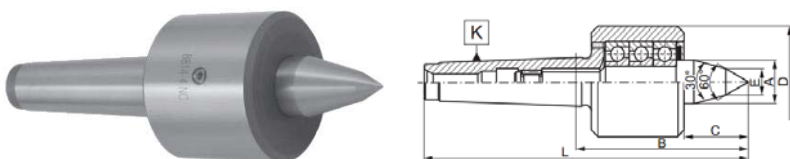


Punto Giratorio 30/60° - Serie 8814R



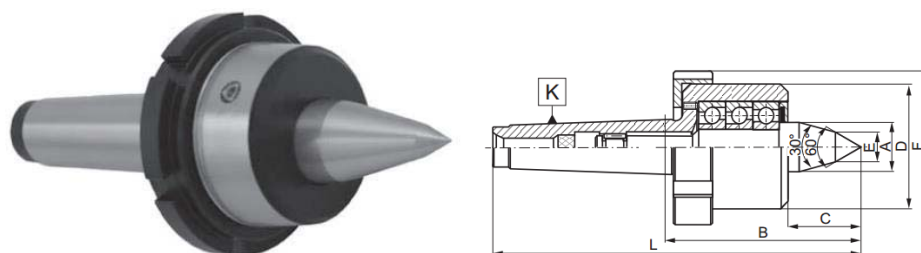
Referencia	CM / MK	Kg Max Pieza	RPM	Excentricidad Max	A	B	C	D	E	L
S8814R.1	CM1	80	7000	0.010	15	66.5	23	36	9	120
S8814R.2	CM2	140	7000	0.005	20	74.5	33.5	45	10	138.5
S8814R.3	CM3	400	5000	0.005	25	92.0	43.5	60	12	173.0
S8814R.4	CM4	500	3800	0.005	32	113.5	52.0	70	14	216.0
S8814R.5	CM5	1200	3000	0.005	40	144.3	65.3	90	16	272.8
S8814R.6	CM6	2500	2600	0.010	50	170.5	77.5	105	18	352.5

Punto Giratorio 30/60° - Serie 8814NC



Referencia	CM / MK	Kg Max Pieza	RPM	Excentricidad Max	A	B	C	D	E	L
S8814NC.4	CM4	1000	7000	0.010	28.0	118.5	49	70	14	221.0
S8814NC.5	CM5	2000	6000	0.010	40.0	150.5	67.5	95	16	280.0

Punto Giratorio 30/60° - Serie 8815NC



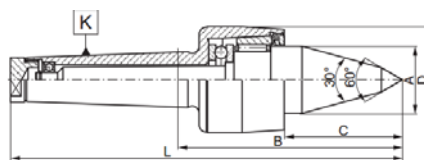
Referencia	CM / MK	Kg Max Pieza	RPM	Excentricidad Max	A	B	C	D	E	L
S8815NC.4	CM4	1000	7000	0.010	28.0	118.5	49	70	14	221.0
S8815NC.5	CM5	2000	6000	0.010	40.0	150.5	67.5	95	16	280.0

Punto Giratorio 60° - Serie 8823



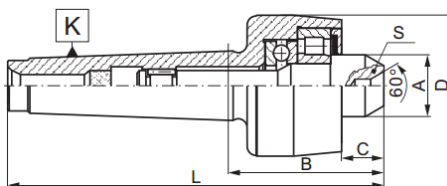
Referencia	CM / MK	Kg Max Pieza	RPM	Excentricidad Max	A	B	C	D	L
S8823.2	CM2	100	8000	0.005	24	73	26.5	44	137.5
S8823.3	CM3	200	6000	0.003	28	85	32.5	48	166
S8823.4	CM4	400	4500	0.003	38	94.5	43.5	60	196.5
S8823.5	CM5	650	4000	0.003	50	116.5	55.5	75	246
S8823.6	CM6	1400	3000	0.003	60.5	135	62.5	90	317

Punto Giratorio 30/60° - Serie 8824



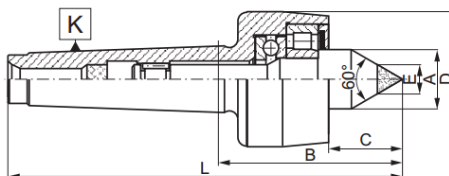
Referencia	CM / MK	Kg Max Pieza	RPM	Excentricidad Max	A	B	C	D	L
S8824.2	CM2	90	8000	0.015	24	85	38.5	44	149.5
S8824.3	CM3	180	6000	0.015	28	100	47.5	48	181
S8824.4	CM4	350	4500	0.015	38	117.5	66.5	60	219.5
S8824.5	CM5	600	4000	0.015	50	147.5	86.5	75	277
S8824.6	CM6	1300	3000	0.015	60.5	167	94.5	90	349

Punto Giratorio 60° - Serie 8809



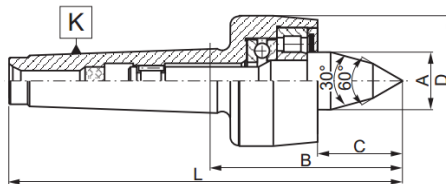
Referencia	CM / MK	Kg Max Pieza	RPM	Excentricidad	A	B	C	D	L	E	F
S8809.1	CM1	50	5000	0.008	15	44.0	11.5	38	97.5	2.5	4.2
S8809.2	CM2	100	5000	0.008	18	51.0	16.0	40	115	2.5	5.3
S8809.3	CM3	200	4000	0.008	25	66.0	18.5	56	147	4.0	8.5
S8809.4	CM4	400	3000	0.008	32	71.0	19.5	64	173	6.3	13.2
S8809.5	CM5	1000	2500	0.010	40	94.5	31.0	85	224	6.3	13.2
S8809.6	CM6	2000	2000	0.010	62.4	131.0	44.0	130	313	10.0	21.2

Punto Giratorio 60° - Serie 8810



Referencia	CM / MK	Kg Max Pieza	RPM	Excentricidad Max	A	B	C	D	E	L
S8810.1	CM1	60	5000	0.008	15	49.5	17.0	38	7	103.0
S8810.2	CM2	120	5000	0.008	18	56.5	21.5	40	7	120.5
S8810.3	CM3	320	4000	0.008	25	75.0	27.5	56	11	156.0
S8810.4	CM4	500	3000	0.008	32	85.0	33.5	64	14	187.0
S8810.5	CM5	1250	2500	0.010	40	108.0	44.0	85	18	237.0
S8810.6	CM6	2200	2000	0.010	62.4	151.5	64.0	130	18	333.5

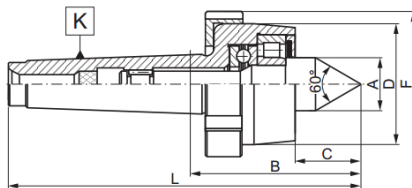
Punto Giratorio 30/60° - Serie 8814



	CM / MK	Kg Max Pieza	RPM	Excentricidad Max	A	B	C	D	L
S8814.2	CM2	23	5000	0.015	18.0	64.5	29.5	40	128.5
S8814.3	CM3	380	4000	0.015	25.0	88.0	40.5	56	169.0
S8814.4	CM4	850	3000	0.015	32.0	103.0	51.5	64	205.0
S8814.5	CM5	1600	2500	0.020	40.0	130.0	66.0	85	259.0
S8814.6	CM6	3150	2000	0.020	62.4	178.0	92.0	130	360.5

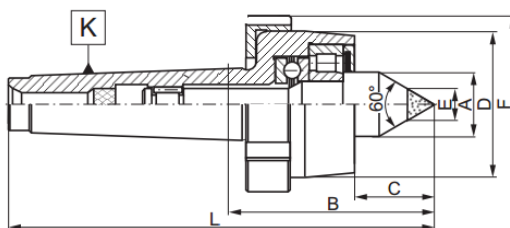


Punto Giratorio 60° - Serie 8815



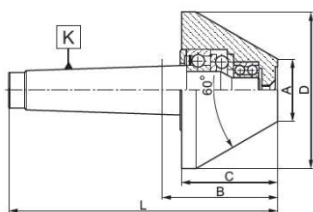
	CM / MK	Kg Max Pieza	RPM	Excentricidad Max	A	B	C	D	F	L
S8815.1	CM1	100	5000	0.008	15	49.5	17.0	38	103.0	103.0
S8815.2	CM2	180	5000	0.008	18	56.5	21.5	40	120.5	120.5
S8815.3	CM3	450	4000	0.008	25	75.0	27.5	56	156.0	156.0
S8815.4	CM4	1000	3000	0.008	32	85.0	33.5	64	187.0	187.0
S8815.5	CM5	1900	2500	0.010	40	108.0	44.0	85	237.0	237.0
S8815.6	CM6	3700	2000	0.010	62.4	151.5	64.0	130	333.5	333.5

Punto Giratorio 60° - Serie 8816

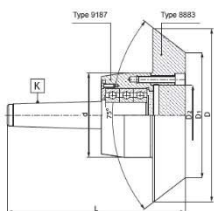


Referencia	CM / MK	Kg Max Pieza	RPM	Excentricidad	A	B	C	D	F	E	L
S8816.1	CM1	60	5000	0.008	15	49.5	17.0	38	50	7	103.0
S8816.2	CM2	120	5000	0.008	18	56.5	21.5	40	52	7	120.5
S8816.3	CM3	300	4000	0.008	25	75.0	27.5	56	68	11	156.0
S8816.4	CM4	500	3000	0.008	32	85.0	33.5	64	76	14	187.0
S8816.5	CM5	1250	2500	0.010	40	108.0	44.0	85	100	18	237.0
S8816.6	CM6	2000	2000	0.010	62.4	151.5	64.0	130	150	18	333.5

Punto Giratorio Para Tubos 60° - Serie 8825



Referencia	CM / MK	Kg Max Pieza	RPM	Excentricidad Max	A	B	C	D	L
S8825.1	CM1	100	5000	0.008	20	40.5	35	50	94
S8825.2	CM2	180	5000	0.008	30	41.5	35	60	105.5
S8825.2.1	CM2	300	4500	0.008	30	59	53	80	123
S8825.3	CM3	350	4500	0.008	30	59	53	80	140
S8825.3.1	CM3	550	3000	0.008	40	67	61	100	148
S8825.3.1	CM3	600	3000	0.008	50	76	70	120	157
S8825.4	CM4	600	3000	0.008	40	68.5	61	100	171
S8825.4.1	CM4	700	3000	0.008	50	77.5	70	120	180
S8825.4.2	CM4	700	3000	0.010	70	77.5	70	140	180
S8825.5	CM5	750	3000	0.010	50	77.5	70	120	207
S8825.5.1	CM5	750	2000	0.020	100	77.5	70	170	207
S8825.6	CM6	2000	1000	0.050	180	116	107	292	298



Referencia	CM / MK	Kg Max Pieza	RPM	Excentricidad Max	d	D	D1	D2	L
S8882.3	CM3	700	4000	0.05	80	150	95	56	180
S8882.3.2	CM3	700	4000	0.05	80	200	145	56	180
S8882.4	CM4	1000	3500	0.05	100	150	95	70	206
S8882.4.1	CM4	1000	3500	0.05	100	200	145	70	206
S8882.4.2	CM4	1000	3500	0.05	100	250	195	70	206
S8882.4.3	CM4	1500	3200	0.05	125	200	145	95	215
S8882.4.4	CM4	1500	3200	0.05	125	250	195	95	215
S8882.4.4	CM4	1500	3200	0.05	125	300	245	95	215
S8882.5	CM5	1500	3200	0.05	125	200	145	95	242
S8882.5.1	CM5	1500	3200	0.05	125	250	195	95	242
S8882.5.2	CM5	1500	3200	0.05	125	300	245	95	242
S8882.5.3	CM5	1800	3000	0.05	160	250	195	125	245
S8882.5.4	CM5	1800	3000	0.05	160	300	245	125	245

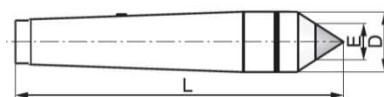
CONTRAPUNTO FIJO 8711



Punta de MD 60°



Ref	Para CM	L	D	E
8711.0	0	70	9.2	5
8711.1	1	80	12.2	7
8711.2	2	100	18.0	7
8711.3	3	125	24.1	11
8711.4	4	160	31.6	14
8711.5	5	200	44.7	18
8711.-6	6	270	63.8	18



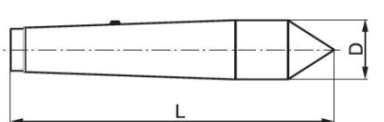
CONTRAPUNTO FIJO 8712



Punto Fijo Con Punta 60°



Ref	Para CM	L	D
8712.0	0	70	9.2
8712.1	1	80	12.2
8712.2	2	100	18.0
8712.3	3	125	24.1
8712.4	4	160	31.6
8712.5	5	200	44.7
8712.6	6	270	63.8
8712.7	7	360	83.5



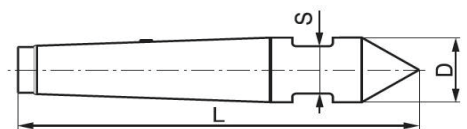
CONTRAPUNTO FIJO 8720



Punto Fijo 60° - Con Rebaje Plano en Lateral



Ref	Para CM	L	D
8720.0	0	70	9.2
8720.1	1	80	12.2
8720.2	2	100	18.0
8720.3	3	125	24.1
8720.4	4	160	31.6
8720.5	5	200	44.7
8720.6	6	270	63.8
8720.7	7	360	83.5



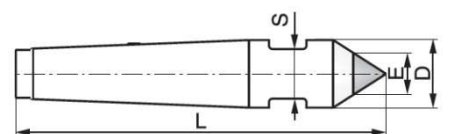
CONTRAPUNTO FIJO 8721



Punto Fijo 60° Con Punta MD y Rebaje Plano Lateral



Ref	Para CM	L	D
8721.0	0	70	9.2
8721.1	1	80	12.2
8721.2	2	100	18.0
8721.3	3	125	24.1
8721.4	4	160	31.6
8721.5	5	200	44.7
8721.6	6	270	63.8
8721.7	7	360	83.5



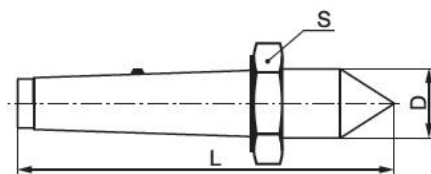
CONTRAPUNTO FIJO 8725



Punto Fijo 60° Con Tuerca



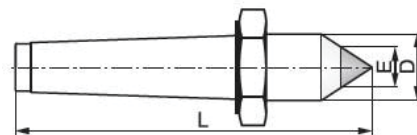
Ref	Para CM	L	D	S
8725.0	0	70	9.2	19
8725.1	1	90	12.2	24
8725.2	2	112	18.0	32
8725.3	3	138	24.1	41
8725.4	4	175	31.6	55
8725.5	5	217	44.7	75
8725.6	6	290	63.8	100



CONTRAPUNTO FIJO 8726



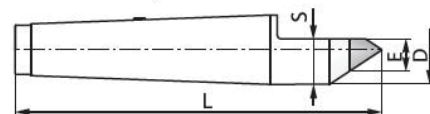
Ref	Para CM	L	D	E	S
8726.0	0	78	9.2	5	19
8726.1	1	90	12.2	7	24
8726.2	2	112	18.0	7	32
8726.3	3	138	24.1	11	41
8726.4	4	175	31.6	14	55
8726.5	5	217	44.7	18	75
8726.6	6	290	63.8	18	100



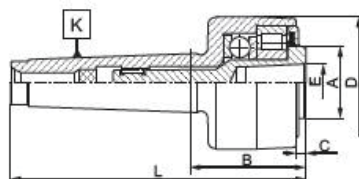
CONTRAPUNTO FIJO 8731



Ref	Para CM	L	D	E	S
8731.0	0	70	9.2	5	7.8
8731.1	1	80	12.2	7	10.3
8731.2	2	100	18	7	13
8731.3	3	125	24.1	11	18.3
8731.4	4	160	31.6	14	23.5
8731.5	5	200	44.7	18	32
8731.6	6	270	63.8	18	41.7

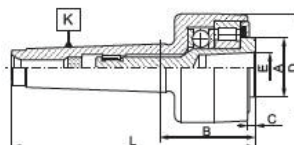


Punto Giratorio - Serie 8831



Referencia	CM / MK	Excentricidad Max	A	B	C	D	L	E	Referencia KIT 8831
S8831.2	CM2	0.020	18	39	4.0	40	103.0	7	S8831KPL.2
S8831.3	CM3	0.020	25	52	4.5	56	133.0	12	S8831KPL.3
S8831.4	CM4	0.020	32	57	5.5	64	159.0	15	S8831KPL.4
S8831.5	CM5	0.030	40	70	6.0	85	199.0	22	S8831KPL.5
S8831.6	CM6	0.030	62.4	94	6.5	130	276.0	28	S8831KPL.6

Punto Giratorio - Serie 8832



Referencia	CM / MK	Excentricidad Max	A	B	C	D	L	E	Referencia KIT 8832
S8832.2	CM2	0.020	22	41	3.0	45	105.0	10	S8832KPL.2
S8832.3	CM3	0.020	25	52	4.5	56	133.0	15	S8832KPL.3
S8832.4	CM4	0.020	32	57	5.5	64	159.0	20	S8832KPL.4
S8832.5	CM5	0.030	40	70	6.0	85	199.0	25	S8832KPL.5
S8832.6	CM6	0.030	62.4	94	6.5	130	276.0	30	S8832KPL.6

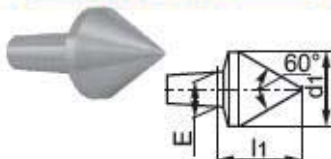


RECAMBIOS SERIE 8831 – SERIE 8832

Recambios para Punto Giratorio Puntas Intercambiable Serie 8831 (Desde 8841 al 8846)

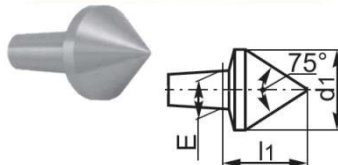
Recambios para Punto Giratorio Puntas Intercambiable Serie 8832 (Desde 8848 al 8855)

Type 8841



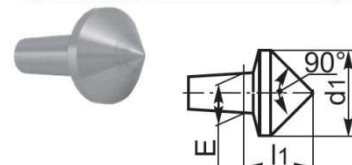
Ref	CM	d1	E	l1
8841.2	2	18	7	21.0
8841.3	3	25	12	28.0
8841.4	4	28	15	30.5
8841.5	5	40	22	42.5
8841.6	6	60	28	61.5

Type 8842



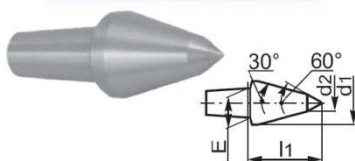
Ref	CM	d1	E	l1
8842.2	2	18	7	17.5
8842.3	3	25	12	23.0
8842.4	4	28	15	25.0
8842.5	5	40	22	34.0
8842.6	6	60	28	50.5

Type 8843



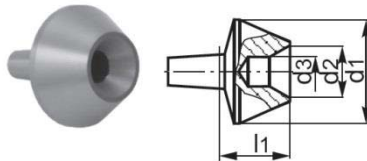
Ref	CM	d1	E	l1
8843.2	2	18	7	15.0
8843.3	3	25	12	19.0
8843.4	4	28	15	21.0
8843.5	5	40	22	28.0
8843.6	6	60	28	40.0

Type 8844



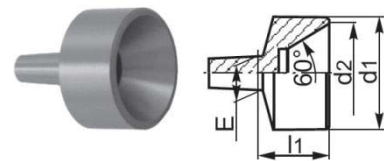
Ref	CM	d1	d2	E	l1
8844.2	2	15	6	7	27.0
8844.3	3	18	8	12	31.0
8844.4	4	25	12	15	40.5
8844.5	5	28	13	22	45.5
8844.6	6	40	18	28	63.5

Type 8845



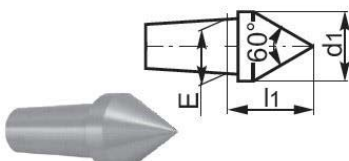
Ref	CM	d1	d2	d3	E	l1
8845.2	2	28	12	6	7	18.5
8845.3	3	40	19	10	12	24.0
8845.4	4	55	22	10	15	36.5
8845.5	5	70	32	10	22	42.0
8845.6	6	100	50	15	28	56.0

Type 8846



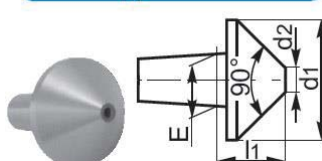
Ref	CM	d1	d2	E	l1
8846.2	2	28	24	7	21.5
8846.3	3	40	35	12	26.5
8846.4	4	55	48	15	39.0
8846.5	5	70	63	22	47.0
8846.6	6	100	90	28	62.0

Type 8848



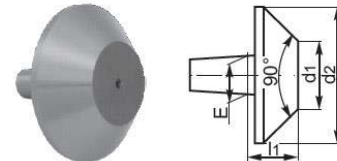
Ref	CM	d1	E	l1
8848.2	2	15	10	19
8848.3	3	20	15	25
8848.4	4	25	20	30
8848.5	5	32	25	35
8848.6	6	36	30	44

Type 8849



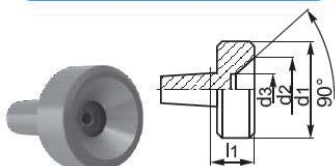
Ref	CM	d1	E	l1
8849.2	2	22	10	15
8849.3	3	36	15	22
8849.4	4	45	20	25
8849.5	5	56	25	30
8849.6	6	70	30	36

Type 8850



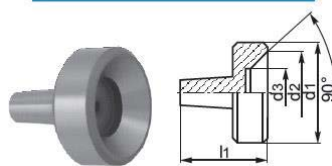
Ref	CM	d1	d2	E	l1
8850.2	2	37	18	10	15
8850.3	3	63	33	15	22
8850.4	4	70	35	20	25
8850.5	5	80	38	25	30
8850.6	6	100	50	30	36

Type 8851



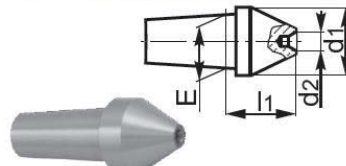
Ref	CM	d1	d2	d3	E	l1
8851.2	2	22	18	8	10	15
8851.3	3	36	28	12	15	22
8851.4	4	45	37	17	20	25
8851.5	5	56	44	20	25	30
8851.6	6	70	58	24	30	36

Type 8852



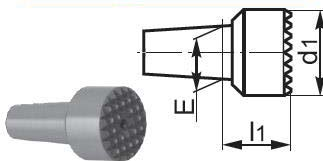
Ref	CM	d1	d2	d3	E	l1
8852.2	2	30	25	15	10	15
8852.3	3	45	38	22	15	22
8852.4	4	63	53	30	20	25
8852.5	5	70	60	36	25	30
8852.6	6	100	88	54	30	36

Type 8853



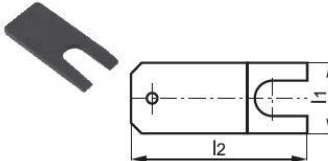
Ref	CM	d1	d2	E	l1
8853.2	2	15	1.25	10	15
8853.3	3	20	1.25	15	22
8853.4	4	25	2.5	20	25
8853.5	5	32	2.5	25	30
8853.6	6	36	4.0	30	36

Type 8854



Ref	CM	d1	E	l1
8854.2	2	18	10	15
8854.3	3	25	15	22
8854.4	4	32	20	25
8854.5	5	45	25	30
8854.6	6	56	30	36

Type 8855



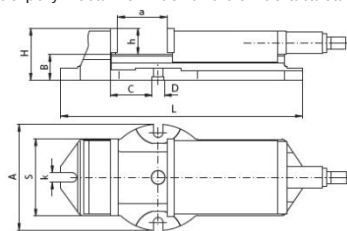
Ref	CM	l1	l2
8855.2	2	20	60
8855.3	3	30	80
8855.4	4	40	100
8855.5	5	50	120
8855.6	6	60	160



Mordaza Serie 6910



Boca móvil que se mueve en una larga guía prismática con posibilidad de ajuste de desgaste. Fácil ajuste de desgaste por medio de tres tonillos. Los insertos de boca lisos templados y rectificadas para garantizar una vida más larga manteniendo la precisión y repetitividad. Husillo totalmente cubierto en una tuerca de bronce protegido contra suciedad y virutas. Guía larga de la boca móvil. Cuerpo y Boca móvil de fundición de alta calidad. Diseño robusto.

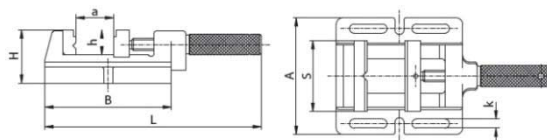


Referencia	S	A	B	C	D	H	L	L1	L2	A	H	K	FUERZA MAX	Kg
6910.105	105	144	46	28.5	25	84	300	122	280	75	38	16	2500	12.2
6910.155	155	215	52	85.5	25	105	495	183	449	165	53	20	3800	36.4
6910.210	210	268	67	103.5	25	126	593	236	549	205	59	20	5300	68.2

Mordaza Serie 6543



Mordaza Básica para Taladro, con garras en forma de V en parte central para el mejor apriete en piezas cilíndricas. Estructura sólida y robusta.

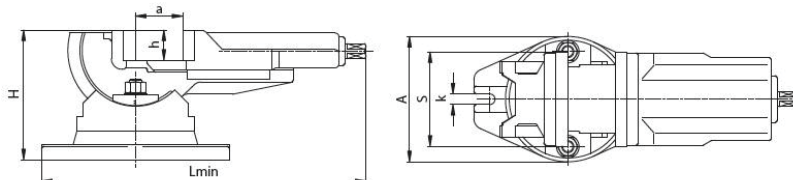


Referencia	S	A	B	H	L	L1	L2	L3	a	h	k	FUERZA MAX	Kg
6543.85M	85	140	152	64	265	114	41	109	70	30	11	400	3.4
6543.100M	100	152	170	64	285	124	57	127	85	30	13	500	4
6543.120M	120	176	212	64	360	148	71	169	120	30	13	650	5
6543.150M	150	208	262	66	442	178	75	209	150	38	13	800	8.4

Mordaza Biaxial Serie 6530



Apoyo del cuerpo con ajuste adicional en posición horizontal. Hasta 90 ° de inclinación desde la posición horizontal. Base giratoria de 360° con graduación y bloqueo. Husillo mecánico sobre rodamientos para un manejo fácil. Insertos intercambiables de boca ranurada templados y rectificadas, lo que garantiza una vida más larga manteniendo la precisión y repetitividad de la misma. Diseño robusto de husillo totalmente cubierta de hierro fundido.

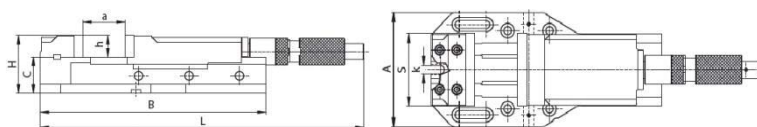


Referencia	S	A	H	L min	L1	a	h	k	FUERZA MAX	Kg
6530.100	100	144	145	372	181	80	32	14	2500	12.5
6530.125	125	168	169	437	208	100	40	14	3500	20
6530.160	160	212	200	450	208	125	50	18	4500	34.2

Mordaza Serie 6516



Husillo hidráulico con multiplicador de fuerza para un manejo fácil. Insertos intercambiables de boca ranurada templados y rectificadas para garantizar una vida más larga manteniendo la precisión y repetitividad. Ajuste fácil del rango de amarre, 2 posiciones. Husillo robusto que no necesita mantenimiento. Guía larga de la boca móvil. Cuerpo y Boca móvil de fundición de alta calidad. Diseño robusto.



Referencia	S	A	B	C	H	L	L1	L2	L3	D	A	h	k	FUERZA MAX	Kg
6516.M125	125	196	425	67	109	530	155	50	389	155	205	42	14	3500	19.9
6516.M160	160	246	565	80	130	615	200	65	525	200	280	50	18	5500	52.4
6516.M200	200	304	675	99	162	795	250	90	635	250	35	63	18	7500	93.0

Consúltenos por mas modelos de Mordazas, accesorios y recambios de Bison



**Consútenos el Catalogo de Portaherramientas
Torneado/Fresado/Ranurado/Roscado/Taladrado**



**Consútenos el Catalogo de Machos y Terrajas de Roscar
Todo tipo de Normas y Materiales**



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