

LÖSUNGEN

für CNC-Maschinen

Eigener Vertrieb - eigene Fertigung.



Hier entsteht Qualität.

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Hier entsteht Qualität

Werkstoff : Legierter Einsatzstahl mit einer Zugfestigkeit im Kern von min. 950 N/mm²

Ausführung : Einsatzgehärtet HRC 58 ± 2 (HV 700 ± 50)

Härtetiefe 0,8 mm ± 0,2 mm

Genauigkeit : Kegelwinkel - Toleranzqualität AT 3 nach DIN 2080

Oberflächenrauigkeit des Kegels max. 0,001 mm

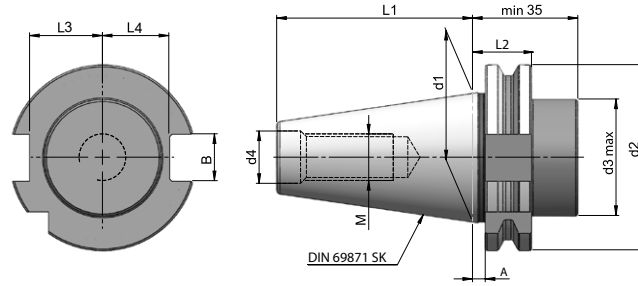
Material : Case hardened steel, tensile strength in the core min. 950 N/mm²

Execution : Case hardened HRC 58 ± 2 (HV 700 ± 50)

depth of case 0,8 mm ± 0,2 mm

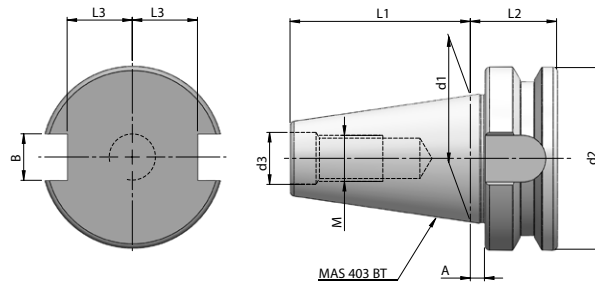
Accuracy : Cone angle AT 3 according to DIN 2080

Surface roughness of cone max. 0,001 mm



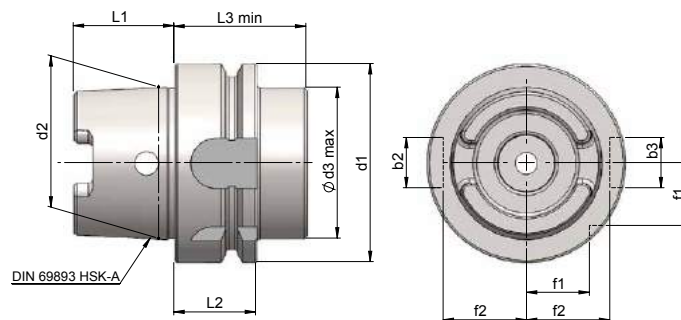
DIN ISO 7388-1 (DIN 69871) SK

Größe	Ø d1	Ø d2	Ø d3	Ø d4	M	A	L1	L2	L3	L4	B
SK30	31,75	50	45	13	M12	3,2	47,8	19,1	19	16,4	16,1
SK40	44,45	63,55	50	17	M16	3,2	68,4	19,1	25	22,8	16,1
SK50	69,85	97,5	80	25	M24	3,2	101,8	19,1	37,7	35,5	25,7



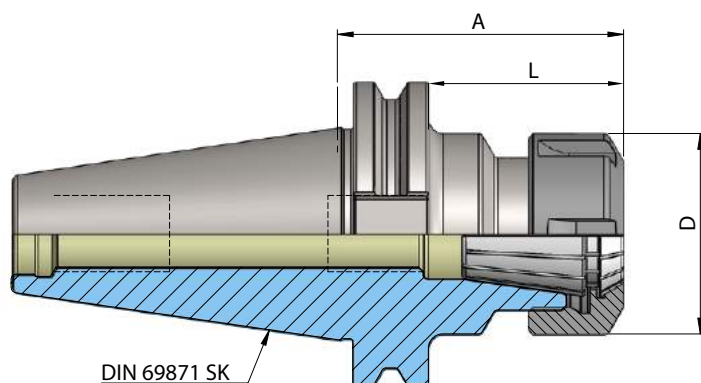
DIN ISO 7388-2 (JIS B 6339 MAS 403 BT)

Größe	Ø d1	Ø d2	Ø d3	M	A	L1	L2	L3	B
BT 30	31,75	46	12,5	M12	2	48,4	22	16,3	16,1
BT 40	44,45	63	17	M16	2	65,4	27	22,6	16,1
BT 50	69,85	100	25	M24	3	101,8	38	35,4	25,7



ISO 12164-1 (DIN 69893-1) HSK FORM A

Größe	Ø d1	Ø d2	Ø d3	L1	L2	L3	b1	b2	f1	f2
HSK 50	50	38	42	25	26	42	14	12	15,5	21
HSK63	63	48	53	32	26	42	18	20	20	26,5
HSK100	100	75	85	50	29	45	20	22	31,5	44

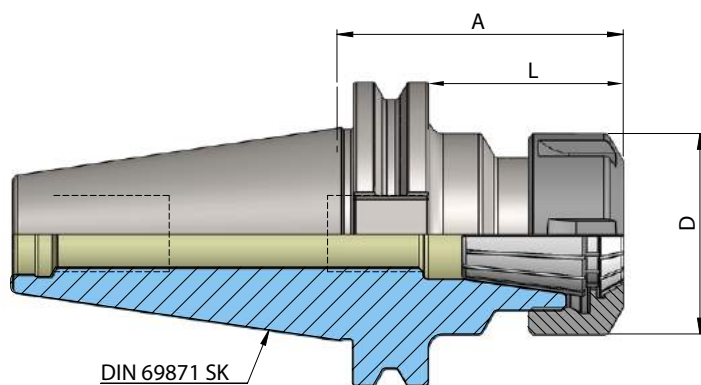


Spannzangenfutter DIN 6499 ER Collet chucks for collets DIN 6499 ER

	Bestellnummer Order number	Kegel Cone	Spannbereich Capacity	D	L	A
SK 30	S30.0116.70	SK 30	1 - 10	28	51	70
	S30.0116.100	SK 30	1 - 10	28	81	100
	S30.0125.70	SK 30	2 - 16	42	51	70
	S30.0125.100	SK 30	2 - 16	42	81	100
	S30.0132.70	SK 30	2 - 20	50	51	70
	S30.0132.100	SK 30	2 - 20	50	81	100
SK 40	S30.0140.70	SK 30	3 - 26	63	51	70
	S40.0116.63	SK 40	1 - 10	28	44	63
	S40.0116.100	SK 40	1 - 10	28	81	100
	S40.0116.130	SK 40	1 - 10	28	111	130
	S40.0116.160	SK 40	1 - 10	28	141	160
	S40.0125.60	SK 40	2 - 16	42	41	60
	S40.0125.100	SK 40	2 - 16	42	81	100
	S40.0125.130	SK 40	2 - 16	42	111	130
	S40.0125.160	SK 40	2 - 16	42	141	160
	S40.0132.70	SK 40	2 - 20	50	51	70
	S40.0132.100	SK 40	2 - 20	50	81	100
	S40.0132.130	SK 40	2 - 20	50	111	130
	S40.0132.160	SK 40	2 - 20	50	141	160
	S40.0140.80	SK 40	3 - 26	63	61	80
	S40.0140.100	SK 40	3 - 26	63	81	100
	S40.0140.130	SK 40	3 - 26	63	111	130
	S40.0140.160	SK 40	3 - 26	63	141	160



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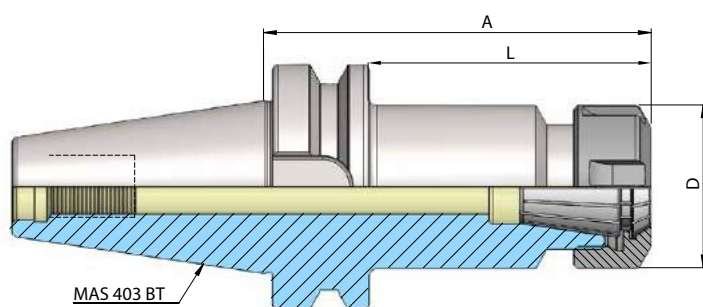


Spannzangenfutter DIN 6499 ER Collet chucks for collets DIN 6499 ER

Bestellnummer Order number	Kegel Cone	Spannbereich Capacity	D	L	A
S50.0116.63	SK 50	1 - 10	28	44	63
S50.0116.100	SK 50	1 - 10	28	81	100
S50.0116.130	SK 50	1 - 10	28	111	130
S50.0116.160	SK 50	1 - 10	28	141	160
S50.0125.60	SK 50	2 - 16	42	41	60
S50.0125.100	SK 50	2 - 16	42	81	100
S50.0125.130	SK 50	2 - 16	42	111	130
S50.0125.160	SK 50	2 - 16	42	141	160
S50.0132.70	SK 50	2 - 20	50	51	70
S50.0132.100	SK 50	2 - 20	50	81	100
S50.0132.130	SK 50	2 - 20	50	111	130
S50.0132.160	SK 50	2 - 20	50	141	160
S50.0140.80	SK 50	3 - 26	63	61	80
S50.0140.100	SK 50	3 - 26	63	81	100
S50.0140.130	SK 50	3 - 26	63	111	130
S50.0140.160	SK 50	3 - 26	63	141	160



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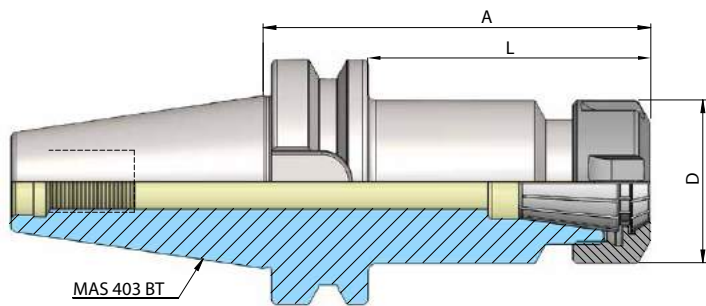


Spannzangenfutter DIN 6499 ER

Collet chucks for collets DIN 6499 ER

	Bestellnummer Order number	Kegel Cone	Spannbereich Capacity	D	L	A
BT 30	B30.0116.70	BT 30	1 - 10	28	48	70
	B30.0116.100	BT 30	1 - 10	28	78	100
	B30.0125.70	BT 30	2 - 16	42	48	70
	B30.0125.100	BT 30	2 - 16	42	78	100
	B30.0132.70	BT 30	2 - 20	50	48	70
	B30.0132.100	BT 30	2 - 20	50	78	100
BT 40	B30.0140.70	BT 30	3 - 26	63	48	70
	B40.0116.63	BT 40	1 - 10	28	36	63
	B40.0116.100	BT 40	1 - 10	28	73	100
	B40.0116.130	BT 40	1 - 10	28	103	130
	B40.0116.160	BT 40	1 - 10	28	133	160
	B40.0125.60	BT 40	2 - 16	42	33	60
	B40.0125.100	BT 40	2 - 16	42	73	100
	B40.0125.130	BT 40	2 - 16	42	103	130
	B40.0125.160	BT 40	2 - 16	42	133	160
	B40.0132.70	BT 40	2 - 20	50	43	70
	B40.0132.100	BT 40	2 - 20	50	73	100
	B40.0132.130	BT 40	2 - 20	50	103	130
	B40.0132.160	BT 40	2 - 20	50	133	160
	B40.0140.80	BT 40	3 - 26	63	53	80
	B40.0140.100	BT 40	3 - 26	63	73	100
	B40.0140.130	BT 40	3 - 26	63	103	130
	B40.0140.160	BT 40	3 - 26	63	133	160


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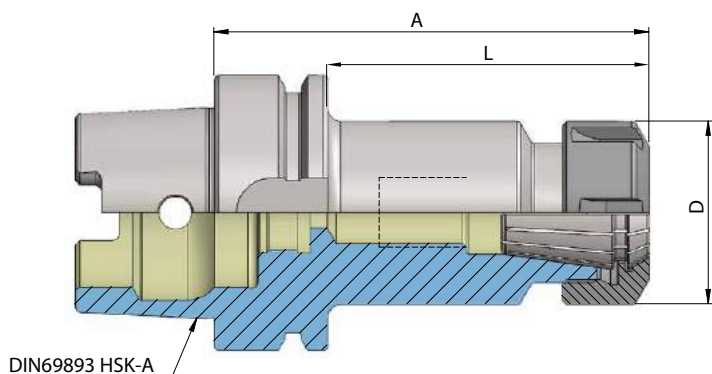


Spannzangenfutter DIN 6499 ER
Collet chucks for collets DIN 6499 ER

Bestellnummer Order number	Kegel Cone	Spannbereich Capacity	D	L	A
B50.0116.70	BT 50	1 - 10	28	32	70
B50.0116.100	BT 50	1 - 10	28	62	100
B50.0116.130	BT 50	1 - 10	28	92	130
B50.0116.160	BT 50	1 - 10	28	122	160
B50.0125.70	BT 50	2 - 16	42	32	70
B50.0125.100	BT 50	2 - 16	42	62	100
B50.0125.130	BT 50	2 - 16	42	92	130
B50.0125.160	BT 50	2 - 16	42	122	160
B50.0132.70	BT 50	2 - 20	50	32	70
B50.0132.100	BT 50	2 - 20	50	62	100
B50.0132.130	BT 50	2 - 20	50	92	130
B50.0132.160	BT 50	2 - 20	50	122	160
B50.0140.80	BT 50	3 - 26	63	42	80
B50.0140.100	BT 50	3 - 26	63	62	100
B50.0140.130	BT 50	3 - 26	63	92	130
B50.0140.160	BT 50	3 - 26	63	122	160



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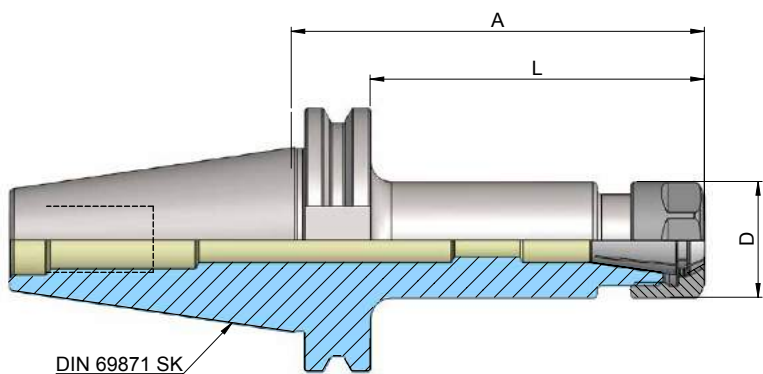


Spannzangenfutter DIN 6499 ER Collet chucks for collets DIN 6499 ER

	Bestellnummer Order number	Kegel Cone	Spannbereich Capacity	D	L	A
HSK 50	A50.0116.100	HSK 50	1 - 10	28	74	100
	A50.0125.100	HSK 50	2 - 16	42	74	100
	A50.0132.100	HSK 50	2 - 20	50	74	100
HSK 63	A63.0116.100	HSK 63	1 - 10	28	74	100
	A63.0116.130	HSK 63	1 - 10	28	104	130
	A63.0116.160	HSK 63	1 - 10	28	134	160
	A63.0125.100	HSK 63	2 - 16	42	74	100
	A63.0125.130	HSK 63	2 - 16	42	104	130
	A63.0125.160	HSK 63	2 - 16	42	134	160
	A63.0132.100	HSK 63	2 - 20	50	74	100
	A63.0132.130	HSK 63	2 - 20	50	104	130
	A63.0132.160	HSK 63	2 - 20	50	134	160
	A63.0140.120	HSK 63	3 - 26	63	94	120
	A63.0140.160	HSK 63	3 - 26	63	134	160
HSK 100	A100.0116.100	HSK 100	1 - 10	28	71	100
	A100.0116.130	HSK 100	1 - 10	28	101	130
	A100.0116.160	HSK 100	1 - 10	28	131	160
	A100.0116.200	HSK 100	1 - 10	28	171	200
	A100.0125.100	HSK 100	2 - 16	42	71	100
	A100.0125.130	HSK 100	2 - 16	42	101	130
	A100.0125.160	HSK 100	2 - 16	42	131	160
	A100.0125.200	HSK 100	2 - 16	42	171	200
	A100.0132.100	HSK 100	2 - 20	50	71	100
	A100.0132.130	HSK 100	2 - 20	50	101	130
	A100.0132.160	HSK 100	2 - 20	50	131	160
	A100.0132.200	HSK 100	2 - 20	50	171	200
	A100.0140.120	HSK 100	3 - 26	63	91	120
	A100.0140.160	HSK 100	3 - 26	63	131	160
	A100.0140.200	HSK 100	3 - 26	63	171	200



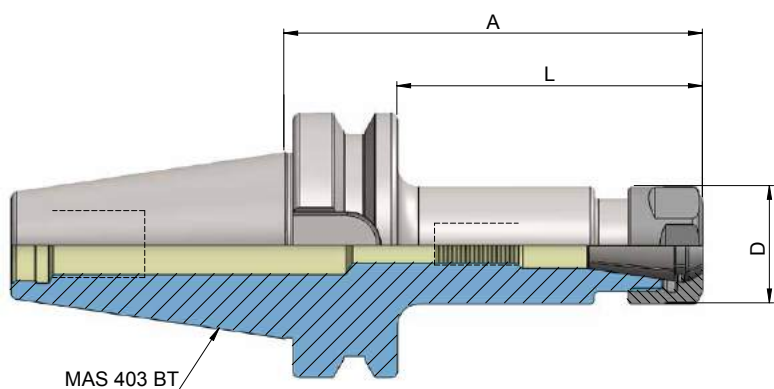
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Spannzangenfutter DIN 6499 ER Mini
Collet chucks for collets DIN 6499 ER Mini

	Bestellnummer Order number	Kegel Cone	Spannbereich Capacity	D	L	A
SK 40	S40.0111.100M	SK 40	1 - 7	16	81	100
	S40.0111.130M	SK 40	1 - 7	16	111	130
	S40.0111.160M	SK 40	1 - 7	16	141	160
	S40.0116.100M	SK 40	1 - 10	22	81	100
	S40.0116.130M	SK 40	1 - 10	22	111	130
	S40.0116.160M	SK 40	1 - 10	22	141	160
SK 50	S50.0116.100M	SK 50	1 - 10	22	81	100
	S50.0116.130M	SK 50	1 - 10	22	111	130
	S50.0116.160M	SK 50	1 - 10	22	141	160

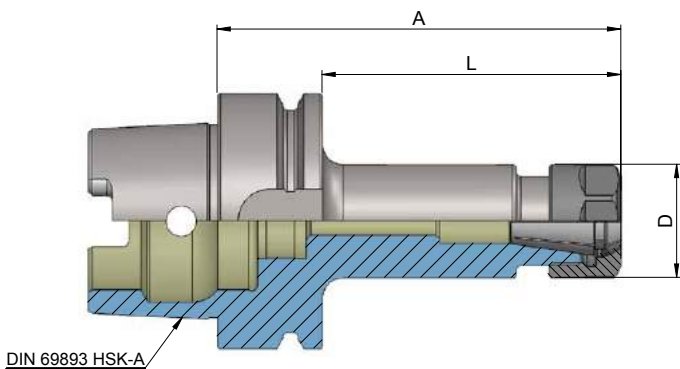




Spannzangenfutter DIN 6499 ER Mini
Collet chucks for collets DIN 6499 Mini

	Bestellnummer Order number	Kegel Cone	Spannbereich Capacity	D	L	A
BT 40	B40.0111.100M	BT 40	1 - 7	16	73	100
	B40.0111.130M	BT 40	1 - 7	16	103	130
	B40.0111.160M	BT 40	1 - 7	16	133	160
	B40.0116.100M	BT 40	1 - 10	22	73	100
	B40.0116.130M	BT 40	1 - 10	22	103	130
	B40.0116.160M	BT 40	1 - 10	22	133	160
BT 50	B50.0116.100M	BT 50	1 - 10	22	62	100
	B50.0116.130M	BT 50	1 - 10	22	92	130
	B50.0116.160M	BT 50	1 - 10	22	122	160

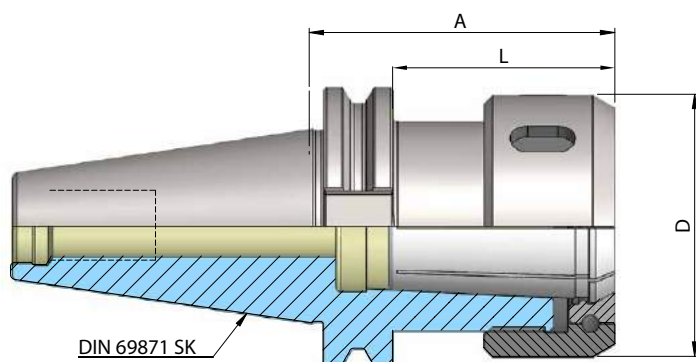




Spannzangenfutter DIN 6499 ER Mini
Collet chucks for collets DIN 6499 Mini

	Bestellnummer Order number	Kegel Cone	Spannbereich Capacity	D	L	A
HSK 63	A63.0111.100M	HSK 63	1 - 7	16	74	100
	A63.0111.130M	HSK 63	1 - 7	16	104	130
	A63.0111.160M	HSK 63	1 - 7	16	134	160
	A63.0116.100M	HSK 63	1 - 10	22	74	100
	A63.0116.130M	HSK 63	1 - 10	22	104	130
	A63.0116.160M	HSK 63	1 - 10	22	134	160
HSK 100	A100.0116.100M	HSK 100	1 - 10	22	71	100
	A100.0116.130M	HSK 100	1 - 10	22	101	130
	A100.0116.160M	HSK 100	1 - 10	22	131	160

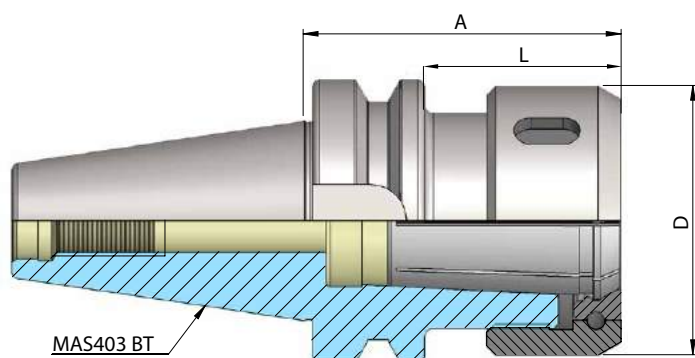




Spannfutter DIN 6391 für Spannzangen DIN 6388-OZ Collet chucks DIN 6391 for collets DIN 6388-OZ

	Bestellnummer Order number	Kegel Cone	Spannbereich Capacity	D	L	A
SK 30	S30.0116.60.OZ	SK 30	2 - 16	43	41	60
	S30.0125.80.OZ	SK 30	2 - 25	60	61	80
SK 40	S40.0116.70.OZ	SK 40	2 - 16	43	51	70
	S40.0116.100.OZ	SK 40	2 - 16	43	81	100
	S40.0125.70.OZ	SK 40	2 - 25	60	51	70
	S40.0125.100.OZ	SK 40	2 - 25	60	81	100
	S40.0132.90.OZ	SK 40	3 - 32	72	71	90
SK 50	S50.0116.70.OZ	SK 50	2 - 16	43	51	70
	S50.0125.70.OZ	SK 50	2 - 25	60	51	70
	S50.0132.80.OZ	SK 50	3 - 32	72	61	80



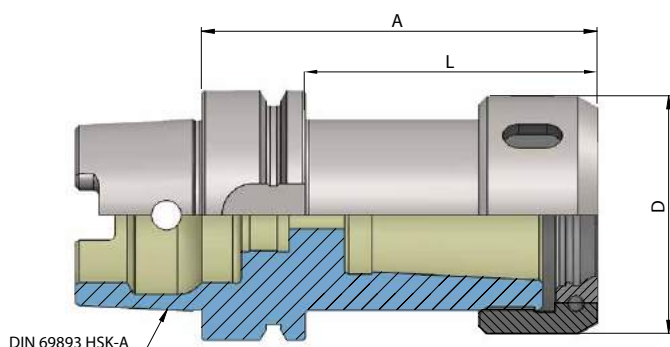


Spannfutter DIN 6391 für Spannzangen DIN 6388-OZ

Collet chucks DIN 6391 for collets DIN 6388-OZ

	Bestellnummer Order number	Kegel Cone	Spannbereich Capacity	D	L	A
BT 30	B30.0116.60.OZ	BT 30	2 - 16	43	38	60
	B30.0125.80.OZ	BT 30	2 - 25	60	58	80
BT 40	B40.0116.70.OZ	BT 40	2 - 16	43	43	70
	B40.0116.100.OZ	BT 40	2 - 16	43	73	100
	B40.0125.70.OZ	BT 40	2 - 25	60	43	70
	B40.0125.100.OZ	BT 40	2 - 25	60	73	100
	B40.0132.90.OZ	BT 40	3 - 32	72	63	90
BT 50	B50.0116.70.OZ	BT 50	2 - 16	43	32	70
	B50.0125.85.OZ	BT 50	2 - 25	60	47	85
	B50.0132.90.OZ	BT 50	3 - 32	72	52	90

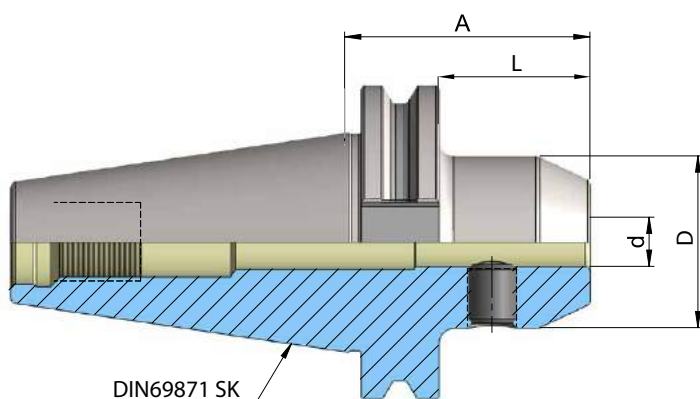




Spannfutter DIN 6391 für Spannzangen DIN 6388-OZ Collet chucks DIN 6391 for collets DIN 6388-OZ

	Bestellnummer Order number	Kegel Cone	Spannbereich Capacity	D	L	A
[HSK 50]	A50.0116.100.OZ	HSK 50	2 - 16	43	74	100
	A50.0125.100.OZ	HSK 50	2 - 25	60	74	100
[HSK 63]	A63.0116.100.OZ	HSK 63	2 - 16	43	74	100
	A63.0125.100.OZ	HSK 63	2 - 25	60	74	100
	A63.0132.120.OZ	HSK 63	3 - 32	72	94	120
[HSK 100]	A100.0116.110.OZ	HSK 100	2 - 16	43	81	110
	A100.0125.120.OZ	HSK 100	2 - 25	60	91	120
	A100.0132.130.OZ	HSK 100	3 - 32	72	101	130



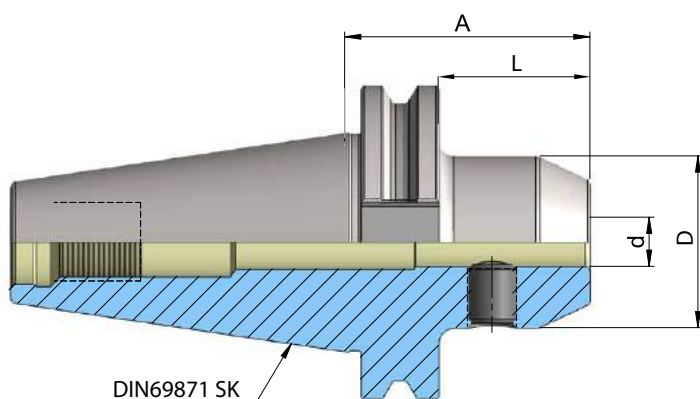


Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B

End mill holder DIN 6359 for weldon DIN 1835-B

	Bestellnummer Order number	Kegel Cone	d	D	L	A
SK 30	S30.0206.50	SK 30	6	25	31	50
	S30.0208.50	SK 30	8	28	31	50
	S30.0210.50	SK 30	10	35	31	50
	S30.0212.50	SK 30	12	42	31	50
	S30.0214.63	SK 30	14	44	44	63
	S30.0216.63	SK 30	16	48	44	63
	S30.0218.63	SK 30	18	50	44	63
	S30.0220.70	SK 30	20	52	51	70
SK 40	S40.0206.50	SK 40	6	25	31	50
	S40.0206.100	SK 40	6	25	81	100
	S40.0206.130	SK 40	6	25	111	130
	S40.0206.160	SK 40	6	25	141	160
	S40.0208.50	SK 40	8	28	31	50
	S40.0208.100	SK 40	8	28	81	100
	S40.0208.130	SK 40	8	28	111	130
	S40.0208.160	SK 40	8	28	141	160
	S40.0210.50	SK 40	10	35	31	50
	S40.0210.100	SK 40	10	35	81	100
	S40.0210.130	SK 40	10	35	111	130
	S40.0210.160	SK 40	10	35	141	160
	S40.0212.50	SK 40	12	42	31	50
	S40.0212.100	SK 40	12	42	81	100
	S40.0212.130	SK 40	12	42	111	130
	S40.0212.160	SK 40	12	42	141	160


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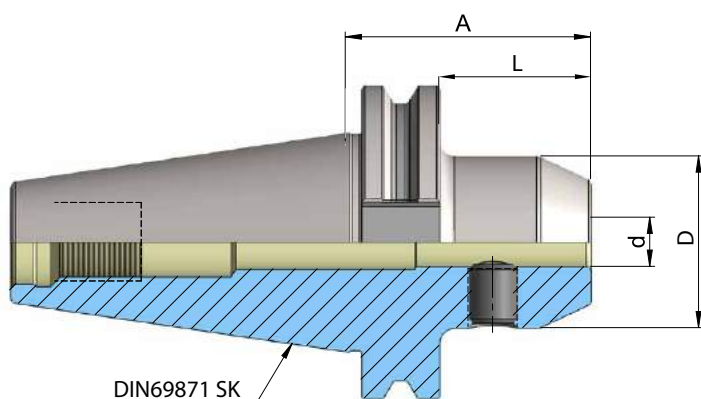
Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B

End mill holder DIN 6359 for weldon DIN 1835-B

Bestellnummer Order number	Kegel Cone	d	D	L	A
S40.0214.50	SK 40	14	45	31	50
S40.0214.100	SK 40	14	45	81	100
S40.0214.160	SK 40	14	45	141	160
S40.0216.35	SK 40	16	45	16	35
S40.0216.63	SK 40	16	48	44	63
S40.0216.100	SK 40	16	48	81	100
S40.0216.130	SK 40	16	48	111	130
S40.0216.160	SK 40	16	48	141	160
S40.0218.63	SK 40	18	50	44	63
S40.0218.100	SK 40	18	50	81	100
S40.0218.160	SK 40	18	50	141	160
S40.0220.35	SK 40	20	45	16	35
S40.0220.63	SK 40	20	52	44	63
S40.0220.100	SK 40	20	52	81	100
S40.0220.130	SK 40	20	52	111	130
S40.0220.160	SK 40	20	52	141	160
S40.0225.35	SK 40	25	45	16	35
S40.0225.100	SK 40	25	63	81	100
S40.0225.160	SK 40	25	63	141	160
S40.0232.65	SK 40	32	63	46	65
S40.0232.100	SK 40	32	72	81	100
S40.0232.160	SK 40	32	72	141	160
S40.0240.120	SK 40	40	80	101	120

SK 40


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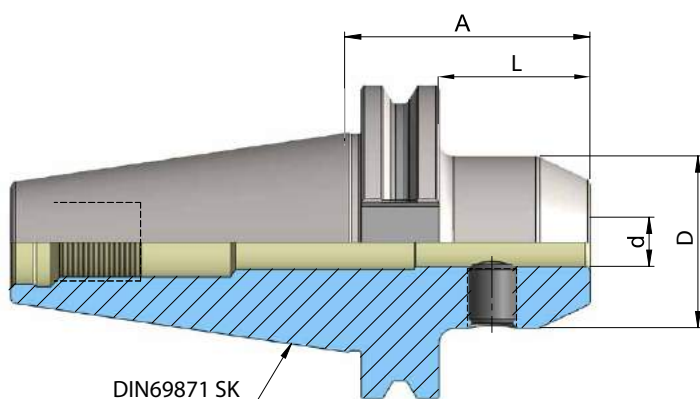
Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B

End mill holder DIN 6359 for weldon DIN 1835-B

Bestellnummer Order number	Kegel Cone	d	D	L	A
S50.0206.63	SK 50	6	25	44	63
S50.0206.100	SK 50	6	25	81	100
S50.0206.130	SK 50	6	25	111	130
S50.0206.160	SK 50	6	25	141	160
S50.0208.63	SK 50	8	28	44	63
S50.0208.100	SK 50	8	28	81	100
S50.0208.130	SK 50	8	28	111	130
S50.0208.160	SK 50	8	28	141	160
S50.0210.63	SK 50	10	35	44	63
S50.0210.100	SK 50	10	35	81	100
S50.0210.130	SK 50	10	35	111	130
S50.0210.160	SK 50	10	35	141	160
S50.0212.63	SK 50	12	42	44	63
S50.0212.100	SK 50	12	42	81	100
S50.0212.130	SK 50	12	42	111	130
S50.0212.160	SK 50	12	42	141	160
S50.0214.63	SK 50	14	45	44	63
S50.0214.100	SK 50	14	45	81	100
S50.0214.160	SK 50	14	45	141	160

SK 50


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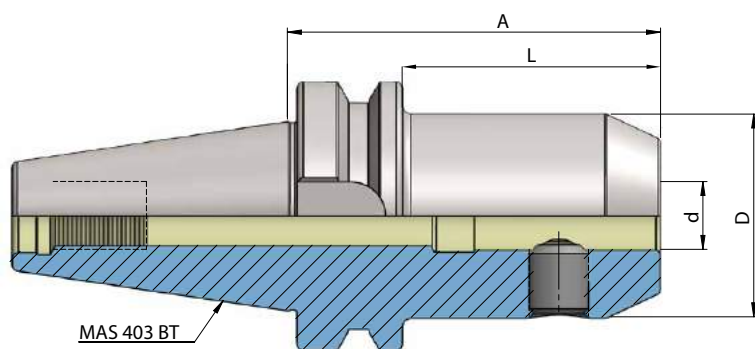
Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B

End mill holder DIN 6359 for weldon DIN 1835-B

Bestellnummer Order number	Kegel Cone	d	D	L	A
S50.0216.63	SK 50	16	48	44	63
S50.0216.100	SK 50	16	48	81	100
S50.0216.130	SK 50	16	48	111	130
S50.0216.160	SK 50	16	48	141	160
S50.0218.63	SK 50	18	50	44	63
S50.0218.100	SK 50	18	50	81	100
S50.0218.160	SK 50	18	50	141	160
S50.0220.63	SK 50	20	52	44	63
S50.0220.100	SK 50	20	52	81	100
S50.0220.130	SK 50	20	52	111	130
S50.0220.160	SK 50	20	52	141	160
S50.0225.80	SK 50	25	65	61	80
S50.0225.130	SK 50	25	65	111	130
S50.0225.160	SK 50	25	65	141	160
S50.0232.100	SK 50	32	72	81	100
S50.0232.160	SK 50	32	72	141	160
S50.0240.100	SK 50	40	80	81	100
S50.0240.160	SK 50	40	80	141	160



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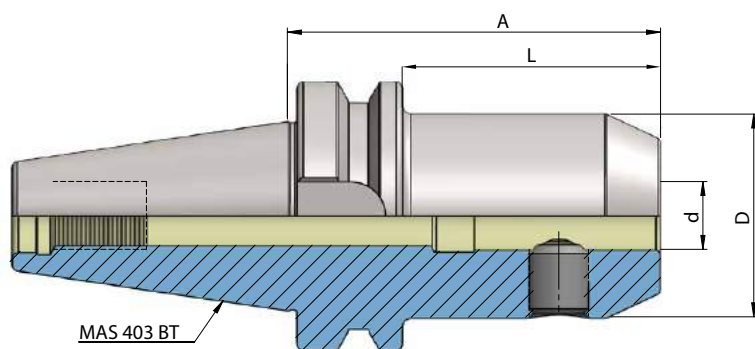
Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B

End mill holder DIN 6359 for weldon DIN 1835-B

	Bestellnummer Order number	Kegel Cone	d	D	L	A
BT 30	B30.0206.50	BT 30	6	25	28	50
	B30.0208.50	BT 30	8	28	28	50
	B30.0210.50	BT 30	10	35	28	50
	B30.0212.50	BT 30	12	42	28	50
	B30.0214.50	BT 30	14	44	28	50
	B30.0216.63	BT 30	16	48	41	63
	B30.0218.63	BT 30	18	50	41	63
	B30.0220.63	BT 30	20	52	41	63
BT 40	B40.0206.50	BT 40	6	25	23	50
	B40.0206.100	BT 40	6	25	73	100
	B40.0206.130	BT 40	6	25	103	130
	B40.0206.160	BT 40	6	25	133	160
	B40.0208.50	BT 40	8	28	23	50
	B40.0208.100	BT 40	8	28	73	100
	B40.0208.130	BT 40	8	28	103	130
	B40.0208.160	BT 40	8	28	133	160
	B40.0210.63	BT 40	10	35	36	63
	B40.0210.100	BT 40	10	35	73	100
	B40.0210.130	BT 40	10	35	103	130
	B40.0210.160	BT 40	10	35	133	160
	B40.0212.63	BT 40	12	42	36	63
	B40.0212.100	BT 40	12	42	73	100
	B40.0212.130	BT 40	12	42	103	130
	B40.0212.160	BT 40	12	42	133	160
	B40.0214.63	BT 40	14	45	36	63
	B40.0214.100	BT 40	14	45	73	100
	B40.0214.160	BT 40	14	45	133	160



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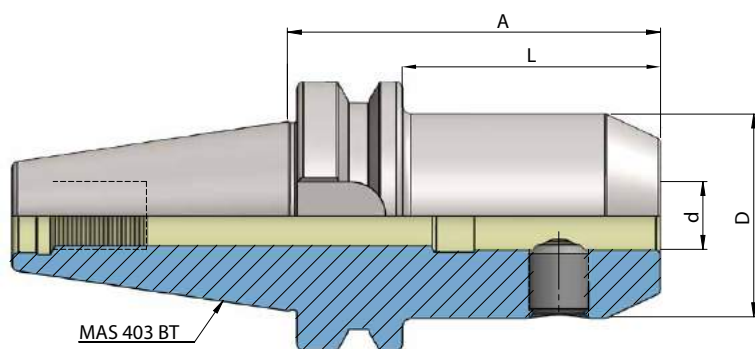
Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B

End mill holder DIN 6359 for weldon DIN 1835-B

Bestellnummer Order number	Kegel Cone	d	D	L	A
B40.0216.35	BT 40	16	45	8	35
B40.0216.63	BT 40	16	48	36	63
B40.0216.100	BT 40	16	48	73	100
B40.0216.130	BT 40	16	48	103	130
B40.0216.160	BT 40	16	48	133	160
B40.0218.63	BT 40	18	50	36	63
B40.0218.100	BT 40	18	50	73	100
B40.0218.160	BT 40	18	50	133	160
B40.0220.35	BT 40	20	45	8	35
B40.0220.63	BT 40	20	52	36	63
B40.0220.100	BT 40	20	52	73	100
B40.0220.130	BT 40	20	52	103	130
B40.0220.160	BT 40	20	52	133	160
B40.0225.35	BT 40	25	45	8	35
B40.0225.90	BT 40	25	63	63	90
B40.0225.160	BT 40	25	63	133	160
B40.0232.65	BT 40	32	63	38	65
B40.0232.100	BT 40	32	72	73	100
B40.0232.160	BT 40	32	72	133	160
B40.0240.120	BT 40	40	80	93	120

BT 40


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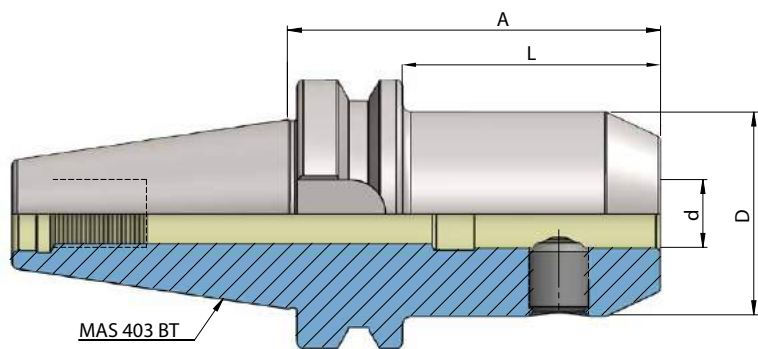
Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B

End mill holder DIN 6359 for weldon DIN 1835-B

Bestellnummer Order number	Kegel Cone	d	D	L	A
B50.0206.63	BT 50	6	25	25	63
B50.0206.100	BT 50	6	25	62	100
B50.0206.130	BT 50	6	25	92	130
B50.0206.160	BT 50	6	25	122	160
B50.0208.63	BT 50	8	28	25	63
B50.0208.100	BT 50	8	28	62	100
B50.0208.130	BT 50	8	28	92	130
B50.0208.160	BT 50	8	28	122	160
B50.0210.63	BT 50	10	35	25	63
B50.0210.100	BT 50	10	35	62	100
B50.0210.130	BT 50	10	35	92	130
B50.0210.160	BT 50	10	35	122	160
B50.0212.80	BT 50	12	42	42	80
B50.0212.100	BT 50	12	42	62	100
B50.0212.130	BT 50	12	42	92	130
B50.0212.160	BT 50	12	42	122	160
B50.0214.80	BT 50	14	45	42	80
B50.0214.100	BT 50	14	45	92	100
B50.0214.160	BT 50	14	45	122	160
B50.0216.80	BT 50	16	48	42	80
B50.0216.100	BT 50	16	48	62	100
B50.0216.130	BT 50	16	48	92	130
B50.0216.160	BT 50	16	48	122	160

BT 50

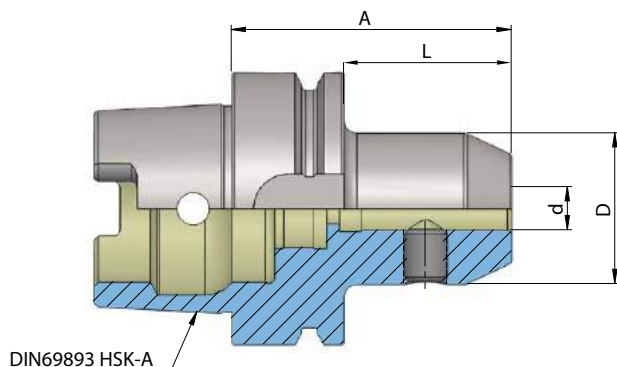

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Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B
End mill holder DIN 6359 for weldon DIN 1835-B

Bestellnummer Order number	Kegel Cone	d	D	L	A
B50.0218.80	BT 50	18	50	42	80
B50.0218.100	BT 50	18	50	62	100
B50.0218.160	BT 50	18	50	122	160
B50.0220.80	BT 50	20	52	42	80
B50.0220.100	BT 50	20	52	62	100
B50.0220.130	BT 50	20	52	92	130
B50.0220.160	BT 50	20	52	122	160
B50.0225.100	BT 50	25	65	62	100
B50.0225.130	BT 50	25	65	92	130
B50.0225.160	BT 50	25	65	122	160
B50.0232.105	BT 50	32	72	67	105
B50.0232.160	BT 50	32	72	122	160
B50.0240.110	BT 50	40	80	72	110
B50.0240.160	BT 50	40	80	122	160



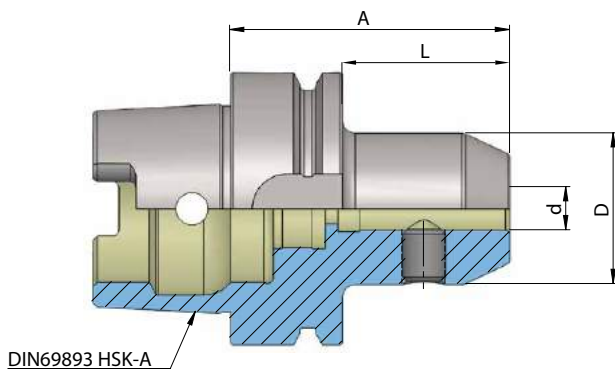


Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B End mill holder DIN 6359 for weldon DIN 1835-B

	Bestellnummer Order number	Kegel Cone	d	D	L	A
HSK 50	A50.0206.65	HSK 50	6	25	39	65
	A50.0208.65	HSK 50	8	28	39	65
	A50.0210.65	HSK 50	10	35	39	65
	A50.0212.80	HSK 50	12	42	54	80
	A50.0214.80	HSK 50	14	44	54	80
	A50.0216.80	HSK 50	16	48	54	80
	A50.0218.80	HSK 50	18	50	54	80
	A50.0220.80	HSK 50	20	52	54	80
HSK 63	A63.0206.65	HSK 63	6	25	39	65
	A63.0206.100	HSK 63	6	25	74	100
	A63.0206.130	HSK 63	6	25	104	130
	A63.0206.160	HSK 63	6	25	134	160
	A63.0208.65	HSK 63	8	28	39	65
	A63.0208.100	HSK 63	8	28	74	100
	A63.0208.130	HSK 63	8	28	104	130
	A63.0208.160	HSK 63	8	28	134	160
	A63.0210.65	HSK 63	10	35	39	65
	A63.0210.100	HSK 63	10	35	74	100
	A63.0210.130	HSK 63	10	35	104	130
	A63.0210.160	HSK 63	10	35	134	160
	A63.0212.80	HSK 63	12	42	54	80
	A63.0212.100	HSK 63	12	42	74	100
	A63.0212.130	HSK 63	12	42	104	130
	A63.0212.160	HSK 63	12	42	134	160
	A63.0214.80	HSK 63	14	45	54	80
	A63.0214.100	HSK 63	14	45	74	100
	A63.0214.130	HSK 63	14	45	104	130
	A63.0214.160	HSK 63	14	45	134	160



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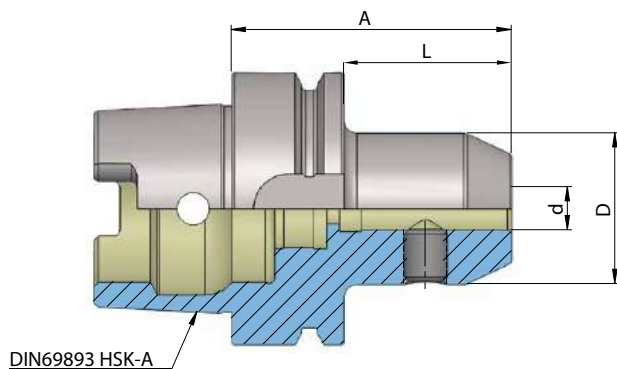


Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B End mill holder DIN 6359 for weldon DIN 1835-B

	Bestellnummer Order number	Kegel Cone	d	D	L	A
HSK 63	A63.0216.80	HSK 63	16	48	54	80
	A63.0216.100	HSK 63	16	48	74	100
	A63.0216.130	HSK 63	16	48	104	130
	A63.0216.160	HSK 63	16	48	134	160
	A63.0218.80	HSK 63	18	50	54	80
	A63.0218.100	HSK 63	18	50	74	100
	A63.0218.130	HSK 63	18	50	104	130
HSK 63	A63.0220.80	HSK 63	20	52	54	80
	A63.0220.100	HSK 63	20	52	74	100
	A63.0220.130	HSK 63	20	52	104	130
	A63.0220.160	HSK 63	20	52	134	160
	A63.0225.110	HSK 63	25	63	84	110
	A63.0225.160	HSK 63	25	63	134	160
HSK 63	A63.0232.110	HSK 63	32	72	84	110
	A63.0232.160	HSK 63	32	72	134	160
	A63.0240.125	HSK 63	40	80	99	125
HSK 100	A100.0206.80	HSK 100	6	25	51	80
	A100.0206.100	HSK 100	6	25	71	100
	A100.0206.130	HSK 100	6	25	101	130
	A100.0206.160	HSK 100	6	25	131	160
	A100.0208.80	HSK 100	8	28	51	80
	A100.0208.100	HSK 100	8	28	71	100
	A100.0208.130	HSK 100	8	28	101	130
			</			



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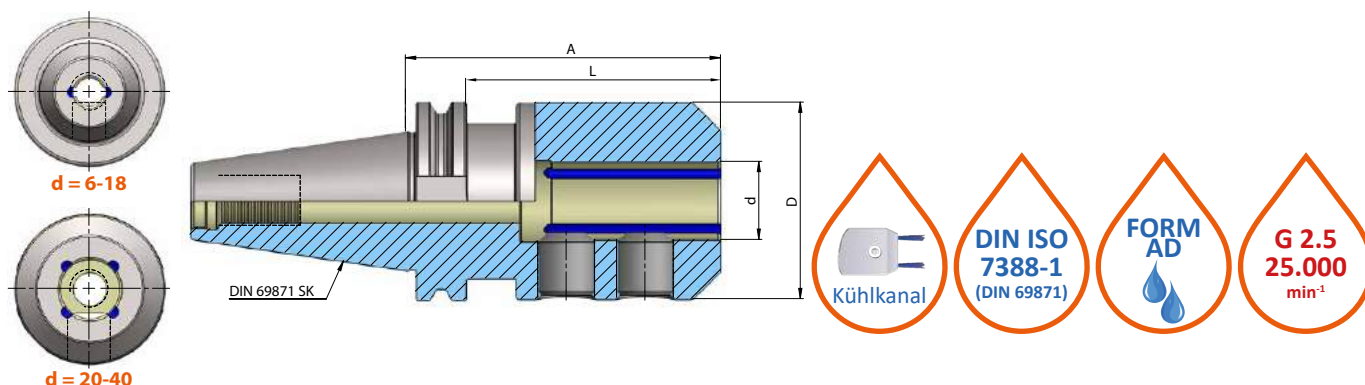


Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B End mill holder DIN 6359 for weldon DIN 1835-B

Bestellnummer Order number	Kegel Cone	d	D	L	A
A100.0210.80	HSK 100	10	35	51	80
A100.0210.100	HSK 100	10	35	71	100
A100.0210.130	HSK 100	10	35	101	130
A100.0210.160	HSK 100	10	35	131	160
A100.0212.80	HSK 100	12	42	51	80
A100.0212.100	HSK 100	12	42	71	100
A100.0212.130	HSK 100	12	42	101	130
A100.0212.160	HSK 100	12	42	131	160
A100.0214.80	HSK 100	14	45	51	80
A100.0214.130	HSK 100	14	45	101	130
A100.0214.160	HSK 100	14	45	131	160
A100.0216.100	HSK 100	16	48	71	100
A100.0216.130	HSK 100	16	48	101	130
A100.0216.160	HSK 100	16	48	131	160
A100.0218.100	HSK 100	18	50	71	100
A100.0218.130	HSK 100	18	50	101	130
A100.0218.160	HSK 100	18	50	131	160
A100.0220.100	HSK 100	20	52	71	100
A100.0220.130	HSK 100	20	52	101	130
A100.0220.160	HSK 100	20	52	131	160
A100.0225.100	HSK 100	25	65	71	100
A100.0225.130	HSK 100	25	65	101	130
A100.0225.160	HSK 100	25	65	131	160
A100.0232.100	HSK 100	32	72	71	100
A100.0232.130	HSK 100	32	72	101	130
A100.0232.160	HSK 100	32	72	131	160
A100.0240.105	HSK 100	40	80	76	105
A100.0240.160	HSK 100	40	80	131	160



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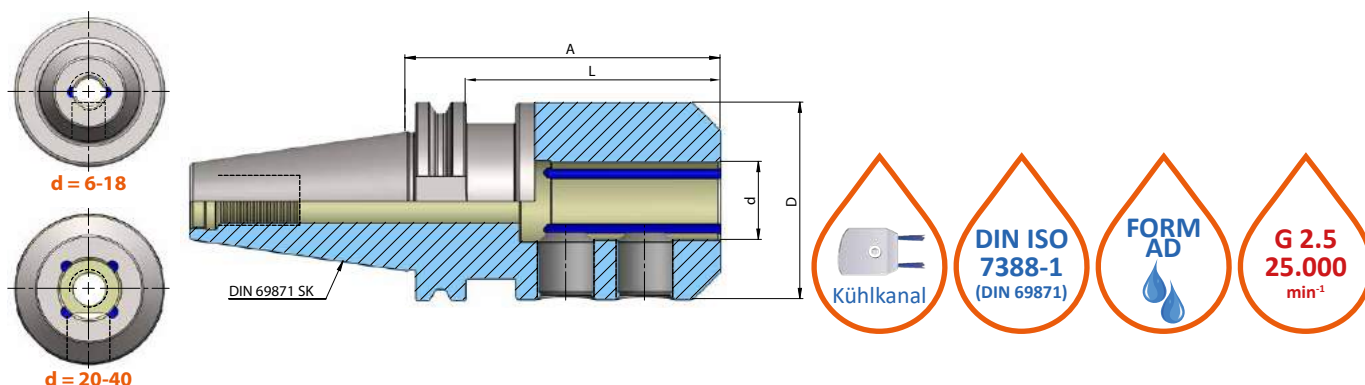
Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B mit Kühlkanal

End mill holder DIN 6359 for weldon DIN 1835-B with coolant channel

Bestellnummer Order number	Kegel Cone	d	D	L	A
S40.0206.50K	SK 40	6	25	31	50
S40.0206.100K	SK 40	6	25	81	100
S40.0208.50K	SK 40	8	28	31	50
S40.0208.100K	SK 40	8	28	81	100
S40.0210.50K	SK 40	10	35	31	50
S40.0210.100K	SK 40	10	35	81	100
S40.0212.50K	SK 40	12	42	31	50
S40.0212.100K	SK 40	12	42	81	100
S40.0214.50K	SK 40	14	45	31	50
S40.0214.100K	SK 40	14	45	81	100
S40.0216.63K	SK 40	16	48	44	63
S40.0216.100K	SK 40	16	48	81	100
S40.0218.63K	SK 40	18	50	44	63
S40.0218.100K	SK 40	18	50	81	100
S40.0218.160K	SK 40	18	50	141	160
S40.0220.63K	SK 40	20	52	44	63
S40.0220.100K	SK 40	20	52	81	100
S40.0225.100K	SK 40	25	63	81	100
S40.0232.100K	SK 40	32	72	81	100
S40.0240.120K	SK 40	40	80	101	120

SK 40


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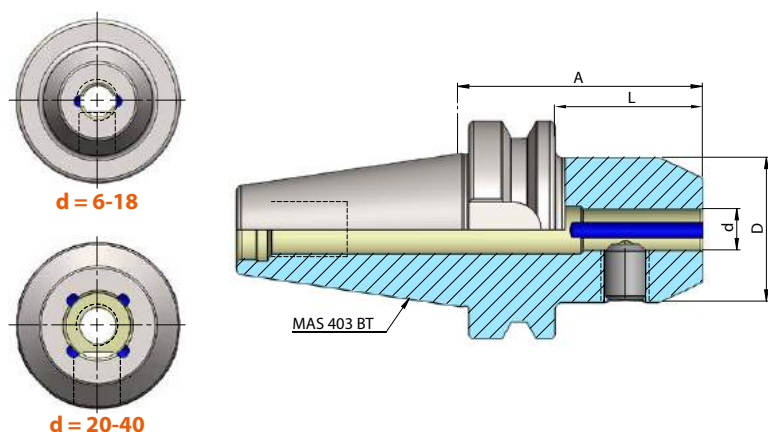
Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B mit Kühlkanal

End mill holder DIN 6359 for weldon DIN 1835-B with coolant channel

Bestellnummer Order number	Kegel Cone	d	D	L	A
S50.0206.63K	SK 50	6	25	44	63
S50.0206.100K	SK 50	6	25	81	100
S50.0208.63K	SK 50	8	28	44	63
S50.0208.100K	SK 50	8	28	81	100
S50.0210.63K	SK 50	10	35	44	63
S50.0210.100K	SK 50	10	35	81	100
S50.0212.63K	SK 50	12	42	44	63
S50.0212.100K	SK 50	12	42	81	100
S50.0214.63K	SK 50	14	45	44	63
S50.0214.100K	SK 50	14	45	81	100
S50.0216.63K	SK 50	16	48	44	63
S50.0216.100K	SK 50	16	48	81	100
S50.0218.63K	SK 50	18	50	44	63
S50.0218.100K	SK 50	18	50	81	100
S50.0220.63K	SK 50	20	52	44	63
S50.0220.100K	SK 50	20	52	81	100
S50.0225.80K	SK 50	25	65	61	80
S50.0225.120K	SK 50	25	65	101	120
S50.0232.100K	SK 50	32	72	81	100
S50.0240.100K	SK 50	40	80	81	100

SK 50


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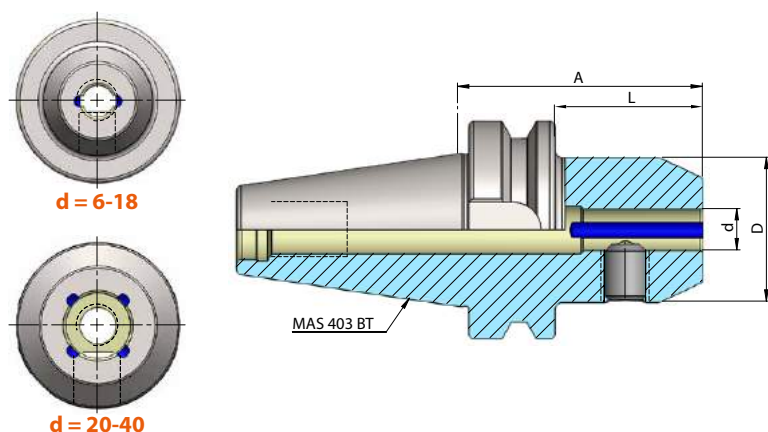
Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B mit Kühlkanal End mill holder DIN 6359 for weldon DIN 1835-B with coolant channel

Bestellnummer Order number	Kegel Cone	d	D	L	A
B40.0206.50K	BT 40	6	25	23	50
B40.0206.100K	BT 40	6	25	73	100
B40.0208.50K	BT 40	8	28	23	50
B40.0208.100K	BT 40	8	28	73	100
B40.0210.63K	BT 40	10	35	36	63
B40.0210.100K	BT 40	10	35	73	100
B40.0212.63K	BT 40	12	42	36	63
B40.0212.100K	BT 40	12	42	73	100
B40.0214.63K	BT 40	14	45	36	63
B40.0214.100K	BK 40	14	45	73	100
B40.0216.63K	BT 40	16	48	36	63
B40.0216.100K	BT 40	16	48	73	100
B40.0218.63K	BT 40	18	50	36	63
B40.0218.100K	BT 40	18	50	73	100
B40.0220.63K	BT 40	20	52	36	63
B40.0220.100K	BT 40	20	52	73	100
B40.0225.90K	BT 40	25	63	63	90
B40.0232.100K	BT 40	32	72	73	100
B40.0240.120K	BT 40	40	80	93	120

BT 40



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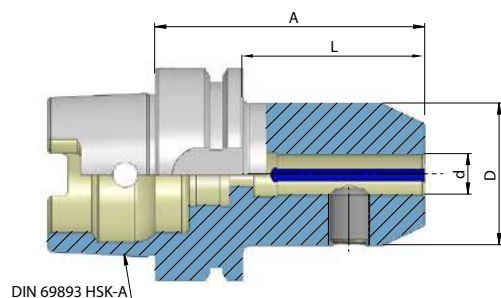
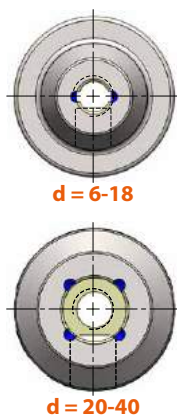
Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B mit Kühlkanal

End mill holder DIN 6359 for weldon DIN 1835-B with coolant channel

Bestellnummer Order number	Kegel Cone	d	D	L	A
B50.0206.63K	BT 50	6	25	25	63
B50.0206.100K	BT 50	6	25	62	100
B50.0208.63K	BT 50	8	28	25	63
B50.0208.100K	BT 50	8	28	62	100
B50.0210.63K	BT 50	10	35	25	63
B50.0210.100K	BT 50	10	35	62	100
B50.0212.80K	BT 50	12	42	42	80
B50.0212.100K	BT 50	12	42	62	100
B50.0214.80K	BT 50	14	45	42	80
B50.0214.100K	BT 50	14	45	62	100
B50.0216.80K	BT 50	16	48	42	80
B50.0216.100K	BT 50	16	48	62	100
B50.0218.80K	BT 50	18	50	42	80
B50.0218.100K	BT 50	18	50	62	100
B50.0220.80K	BT 50	20	52	42	80
B50.0220.100K	BT 50	20	52	62	100
B50.0225.100K	BT 50	25	65	62	100
B50.0232.105K	BT 50	32	72	67	105
B50.0240.110K	BT 50	40	80	72	110

BT 50


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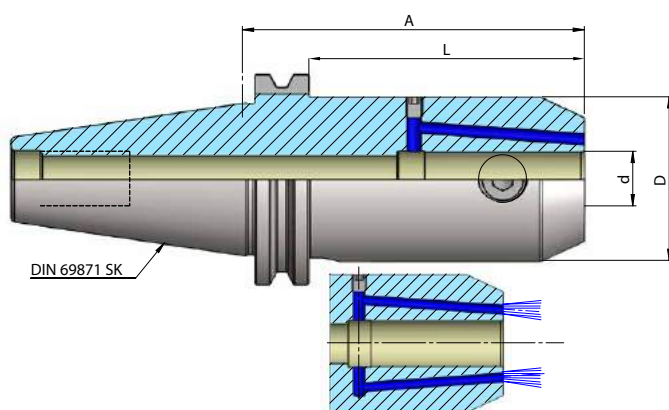


Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B mit Kühlkanal End mill holder DIN 6359 for weldon DIN 1835-B with coolant channel

	Bestellnummer Order number	Kegel Cone	d	D	L	A
HSK 50	A50.0206.65K	HSK 50	6	25	39	65
	A50.0208.65K	HSK 50	8	28	39	65
	A50.0210.65K	HSK 50	10	35	39	65
	A50.0212.80K	HSK 50	12	42	54	80
	A50.0214.80K	HSK 50	14	45	54	80
	A50.0216.80K	HSK 50	16	48	54	80
	A50.0218.80K	HSK 50	18	50	54	80
	A50.0220.80K	HSK 50	20	52	54	80
HSK 63	A63.0206.65K	HSK 63	6	25	39	65
	A63.0208.65K	HSK 63	8	28	39	65
	A63.0210.65K	HSK 63	10	35	39	65
	A63.0212.80K	HSK 63	12	42	54	80
	A63.0214.80K	HSK 63	14	45	54	80
	A63.0216.80K	HSK 63	16	48	54	80
	A63.0218.80K	HSK 63	18	50	54	80
	A63.0220.80K	HSK 63	20	52	54	80
	A63.0225.110K	HSK 63	25	63	84	110
	A63.0232.110K	HSK 63	32	72	84	110
	A63.0240.125K	HSK 63	40	80	99	125
HSK 100	A100.0206.80K	HSK 100	6	25	51	80
	A100.0208.80K	HSK 100	8	28	51	80
	A100.0210.80K	HSK 100	10	35	51	80
	A100.0212.80K	HSK 100	12	42	51	80
	A100.0214.80K	HSK 100	14	45	51	80
	A100.0216.100K	HSK 100	16	48	71	100
	A100.0218.100K	HSK 100	18	50	71	100
	A100.0220.100K	HSK 100	20	52	71	100
	A100.0225.100K	HSK 100	25	63	71	100
	A100.0232.100K	HSK 100	32	72	71	100
	A100.0240.105K	HSK 100	40	80	76	105



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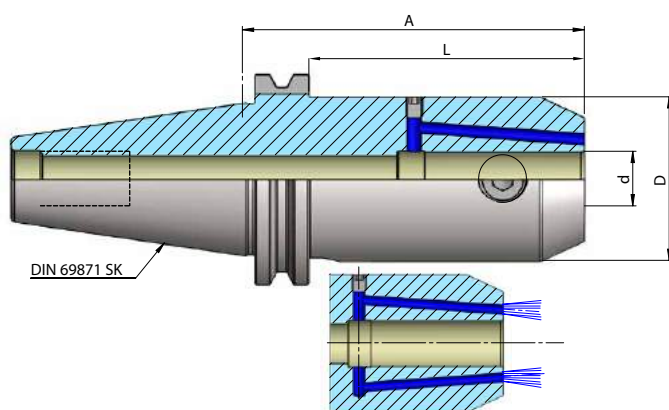
Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B mit Kühlkanalbohrung

End mill holder DIN 6359 for weldon DIN 1835-B with cooling channel bores

Bestellnummer Order number	Kegel Cone	d	D	L	A
S40.0206.50-KKB	SK 40	6	25	31	50
S40.0206.100-KKB	SK 40	6	25	81	100
S40.0206.130-KKB	SK 40	6	25	111	130
S40.0206.160-KKB	SK 40	6	25	141	160
S40.0206.200-KKB	SK 40	6	25	181	200
S40.0208.50-KKB	SK 40	8	28	31	50
S40.0208.100-KKB	SK 40	8	28	81	100
S40.0208.130-KKB	SK 40	8	28	111	130
S40.0208.160-KKB	SK 40	8	28	141	160
S40.0208.200-KKB	SK 40	8	28	181	200
S40.0210.50-KKB	SK 40	10	35	31	50
S40.0210.100-KKB	SK 40	10	35	81	100
S40.0210.130-KKB	SK 40	10	35	111	130
S40.0210.160-KKB	SK 40	10	35	141	160
S40.0210.200-KKB	SK 40	10	35	181	200
S40.0212.50-KKB	SK 40	12	42	31	50
S40.0212.100-KKB	SK 40	12	42	81	100
S40.0212.130-KKB	SK 40	12	42	111	130
S40.0212.160-KKB	SK 40	12	42	141	160
S40.0212.200-KKB	SK 40	12	42	181	200
S40.0214.50-KKB	SK 40	14	45	31	50
S40.0214.100-KKB	SK 40	14	45	81	100
S40.0214.130-KKB	SK 40	14	45	111	130
S40.0214.160-KKB	SK 40	14	45	141	160
S40.0214.200-KKB	SK 40	14	45	181	200

SK 40


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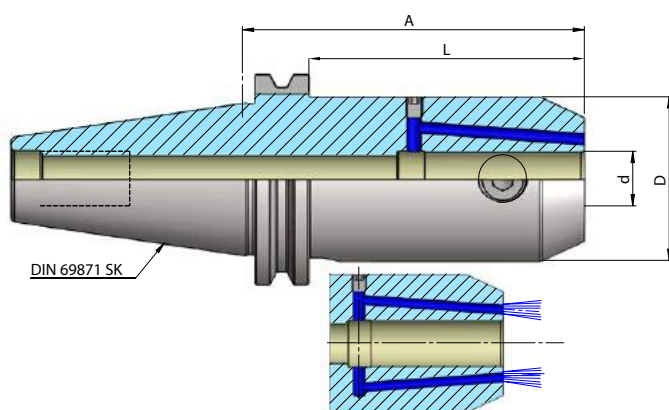
Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B mit Kühlkanalbohrung

End mill holder DIN 6359 for weldon DIN 1835-B with cooling channel bores

Bestellnummer Order number	Kegel Cone	d	D	L	A
S40.0216.35-KKB	SK 40	16	45	16	35
S40.0216.63-KKB	SK 40	16	48	44	63
S40.0216.100-KKB	SK 40	16	48	81	100
S40.0216.130-KKB	SK 40	16	48	111	130
S40.0216.160-KKB	SK 40	16	48	141	160
S40.0216.200-KKB	SK 40	16	48	181	200
S40.0218.63-KKB	SK 40	18	50	44	63
S40.0218.100-KKB	SK 40	18	50	81	100
S40.0218.130-KKB	SK 40	18	50	111	130
S40.0218.160-KKB	SK 40	18	50	141	160
S40.0218.200-KKB	SK 40	18	50	181	200
S40.0220.35-KKB	SK 40	20	45	16	35
S40.0220.63-KKB	SK 40	20	52	44	63
S40.0220.100-KKB	SK 40	20	52	81	100
S40.0220.130-KKB	SK 40	20	52	111	130
S40.0220.160-KKB	SK 40	20	52	141	160
S40.0220.200-KKB	SK 40	20	52	181	200
S40.0225.100-KKB	SK 40	25	63	81	100
S40.0225.130-KKB	SK 40	25	63	111	130
S40.0225.160-KKB	SK 40	25	63	141	160
S40.0225.200-KKB	SK 40	25	63	181	200
S40.0232.100-KKB	SK 40	32	72	81	100
S40.0232.130-KKB	SK 40	32	72	111	130
S40.0232.160-KKB	SK 40	32	72	141	160
S40.0232.200-KKB	SK 40	32	72	181	200
S40.0240.120-KKB	SK 40	40	80	101	120

SK 40


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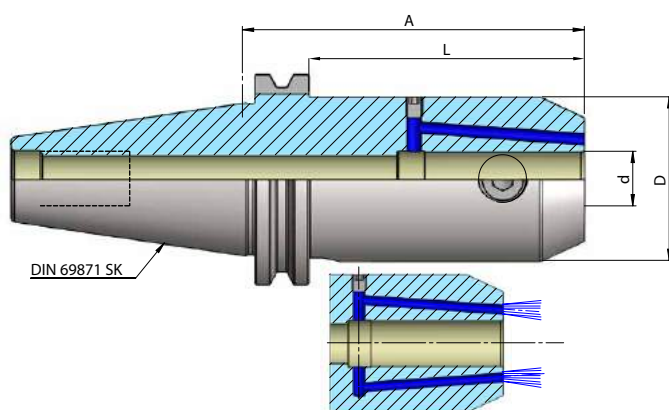
Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B mit Kühlkanalbohrung

End mill holder DIN 6359 for weldon DIN 1835-B with cooling channel bores

Bestellnummer Order number	Kegel Cone	d	D	L	A
S50.0206.63-KKB	SK 50	6	25	44	63
S50.0206.100-KKB	SK 50	6	25	81	100
S50.0206.130-KKB	SK 50	6	25	111	130
S50.0206.160-KKB	SK 50	6	25	141	160
S50.0206.200-KKB	SK 50	6	25	181	200
S50.0208.63-KKB	SK 50	8	28	44	63
S50.0208.100-KKB	SK 50	8	28	81	100
S50.0208.130-KKB	SK 50	8	28	111	130
S50.0208.160-KKB	SK 50	8	28	141	160
S50.0208.200-KKB	SK 50	8	28	181	200
S50.0210.63-KKB	SK 50	10	35	44	63
S50.0210.100-KKB	SK 50	10	35	81	100
S50.0210.130-KKB	SK 50	10	35	111	130
S50.0210.160-KKB	SK 50	10	35	141	160
S50.0210.200-KKB	SK 50	10	35	181	200
S50.0212.63-KKB	SK 50	12	42	44	63
S50.0212.100-KKB	SK 50	12	42	81	100
S50.0212.130-KKB	SK 50	12	42	111	130
S50.0212.160-KKB	SK 50	12	42	141	160
S50.0212.200-KKB	SK 50	12	42	181	200
S50.0214.63-KKB	SK 50	14	45	44	63
S50.0214.100-KKB	SK 50	14	45	81	100
S50.0214.130-KKB	SK 50	14	45	111	130
S50.0214.160-KKB	SK 50	14	45	141	160
S50.0214.200-KKB	SK 50	14	45	181	200

SK 50


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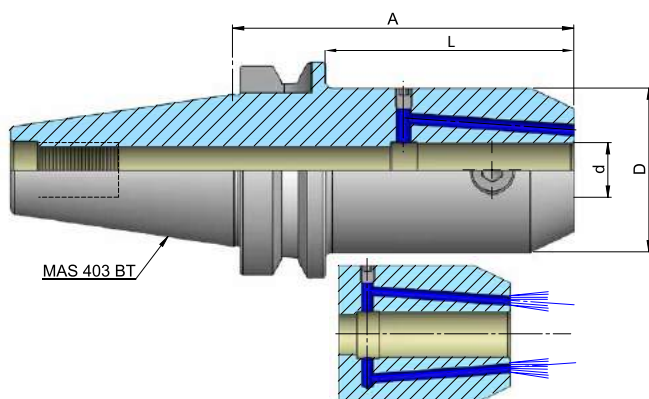
Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B mit Kühlkanalbohrung

End mill holder DIN 6359 for weldon DIN 1835-B with cooling channel bores

Bestellnummer Order number	Kegel Cone	d	D	L	A
S50.0216.63-KKB	SK 50	16	48	44	63
S50.0216.100-KKB	SK 50	16	48	81	100
S50.0216.130-KKB	SK 50	16	48	111	130
S50.0216.160-KKB	SK 50	16	48	141	160
S50.0216.200-KKB	SK 50	16	48	181	200
S50.0218.63-KKB	SK 50	18	50	44	63
S50.0218.100-KKB	SK 50	18	50	81	100
S50.0218.130-KKB	SK 50	18	50	111	130
S50.0218.160-KKB	SK 50	18	50	141	160
S50.0218.200-KKB	SK 50	18	50	181	200
S50.0220.63-KKB	SK 50	20	52	44	63
S50.0220.100-KKB	SK 50	20	52	81	100
S50.0220.130-KKB	SK 50	20	52	111	130
S50.0220.160-KKB	SK 50	20	52	141	160
S50.0220.200-KKB	SK 50	20	52	181	200
S50.0225.80-KKB	SK 50	25	65	61	80
S50.0225.130-KKB	SK 50	25	65	111	130
S50.0225.160-KKB	SK 50	25	65	141	160
S50.0225.200-KKB	SK 50	25	65	181	200
S50.0232.100-KKB	SK 50	32	72	81	100
S50.0232.130-KKB	SK 50	32	72	111	130
S50.0232.160-KKB	SK 50	32	72	141	160
S50.0232.200-KKB	SK 50	32	72	181	200
S50.0240.100-KKB	SK 50	40	80	81	100
S50.0240.130-KKB	SK 50	40	80	111	130
S50.0240.160-KKB	SK 50	40	80	141	160
S50.0240.200-KKB	SK 50	40	80	181	200

SK 50


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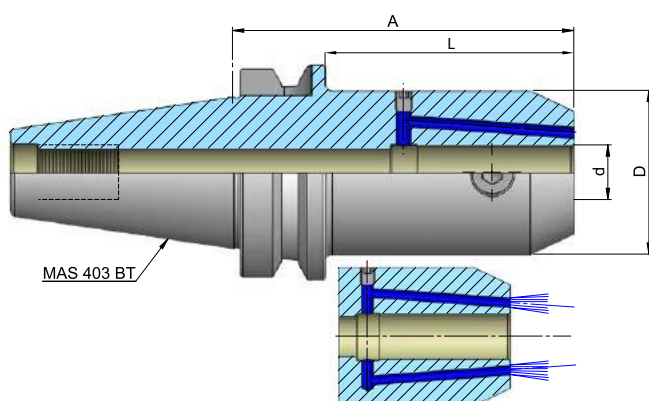
Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B mit Kühlkanalbohrung

End mill holder DIN 6359 for weldon DIN 1835-B with cooling channel bores

Bestellnummer Order number	Kegel Cone	d	D	L	A
B40.0206.50-KKB	BT 40	6	25	23	50
B40.0206.100-KKB	BT 40	6	25	73	100
B40.0206.130-KKB	BT 40	6	25	103	130
B40.0206.160-KKB	BT 40	6	25	133	160
B40.0206.200-KKB	BT 40	6	25	173	200
B40.0208.50-KKB	BT 40	8	28	23	50
B40.0208.100-KKB	BT 40	8	28	73	100
B40.0208.130-KKB	BT 40	8	28	103	130
B40.0208.160-KKB	BT 40	8	28	133	160
B40.0208.200-KKB	BT 40	8	28	173	200
B40.0210.63-KKB	BT 40	10	35	36	63
B40.0210.100-KKB	BT 40	10	35	73	100
B40.0210.130-KKB	BT 40	10	35	103	130
B40.0210.160-KKB	BT 40	10	35	133	160
B40.0210.200-KKB	BT 40	10	35	173	200
B40.0212.63-KKB	BT 40	12	42	36	63
B40.0212.100-KKB	BT 40	12	42	73	100
B40.0212.130-KKB	BT 40	12	42	103	130
B40.0212.160-KKB	BT 40	12	42	133	160
B40.0212.200-KKB	BT 40	12	42	173	200
B40.0214.63-KKB	BT 40	14	45	36	63
B40.0214.100-KKB	BT 40	14	45	73	100
B40.0214.130-KKB	BT 40	14	45	103	130
B40.0214.160-KKB	BT 40	14	45	133	160
B40.0214.200-KKB	BT 40	14	45	173	200

BT 40


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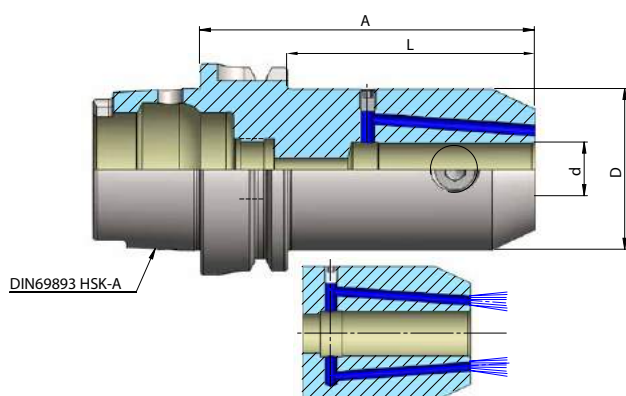
Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B mit Kühlkanalbohrung

End mill holder DIN 6359 for weldon DIN 1835-B with cooling channel bores

Bestellnummer Order number	Kegel Cone	d	D	L	A
B40.0216.63-KKB	BT 40	16	48	36	63
B40.0216.100-KKB	BT 40	16	48	73	100
B40.0216.130-KKB	BT 40	16	48	103	130
B40.0216.160-KKB	BT 40	16	48	133	160
B40.0216.200-KKB	BT 40	16	48	173	200
B40.0218.63-KKB	BT 40	18	50	36	63
B40.0218.100-KKB	BT 40	18	50	73	100
B40.0218.160-KKB	BT 40	18	50	133	160
B40.0218.200-KKB	BT 40	18	50	173	200
B40.0220.63-KKB	BT 40	20	52	36	63
B40.0220.100-KKB	BT 40	20	52	73	100
B40.0220.130-KKB	BT 40	20	52	103	130
B40.0220.160-KKB	BT 40	20	52	133	160
B40.0220.200-KKB	BT 40	20	52	173	200
B40.0225.90-KKB	BT 40	25	63	63	90
B40.0225.130-KKB	BT 40	25	63	103	130
B40.0225.160-KKB	BT 40	25	63	133	160
B40.0225.200-KKB	BT 40	25	63	173	200
B40.0232.100-KKB	BT 40	32	72	73	100
B40.0232.130-KKB	BT 40	32	72	103	130
B40.0232.160-KKB	BT 40	32	72	133	160
B40.0232.200-KKB	BT 40	32	72	173	200
B40.0240.120-KKB	BT 40	40	80	93	120
B40.0240.160-KKB	BT 40	40	80	133	160

BT 40


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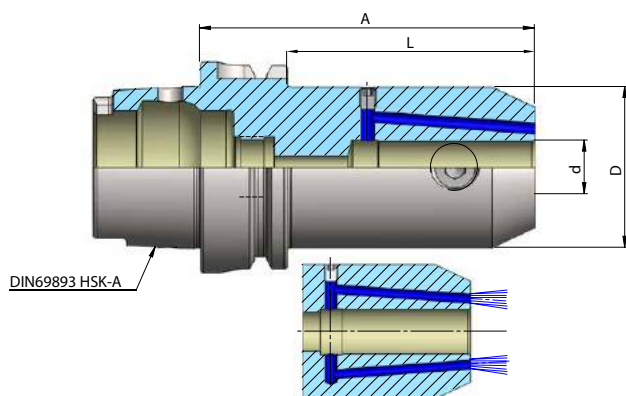
Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B mit Kühlkanalbohrung End mill holder DIN 6359 for weldon DIN 1835-B with cooling channel bores

Bestellnummer Order number	Kegel Cone	d	D	L	A
A63.0206.65-KKB	HSK 63	6	25	39	65
A63.0206.100-KKB	HSK 63	6	25	74	100
A63.0206.130-KKB	HSK 63	6	25	104	130
A63.0206.160-KKB	HSK 63	6	25	134	160
A63.0206.200-KKB	HSK 63	6	25	174	200
A63.0208.65-KKB	HSK 63	8	28	39	65
A63.0208.100-KKB	HSK 63	8	28	74	100
A63.0208.130-KKB	HSK 63	8	28	104	130
A63.0208.160-KKB	HSK 63	8	28	134	160
A63.0208.200-KKB	HSK 63	8	28	174	200
A63.0210.65-KKB	HSK 63	10	35	39	65
A63.0210.100-KKB	HSK 63	10	35	74	100
A63.0210.130-KKB	HSK 63	10	35	104	130
A63.0210.160-KKB	HSK 63	10	35	134	160
A63.0210.200-KKB	HSK 63	10	35	174	200
A63.0212.80-KKB	HSK 63	12	42	54	80
A63.0212.100-KKB	HSK 63	12	42	74	100
A63.0212.130-KKB	HSK 63	12	42	104	130
A63.0212.160-KKB	HSK 63	12	42	134	160
A63.0212.200-KKB	HSK 63	12	42	174	200
A63.0214.80-KKB	HSK 63	14	45	54	80
A63.0214.100-KKB	HSK 63	14	45	74	100
A63.0214.130-KKB	HSK 63	14	45	104	130
A63.0214.160-KKB	HSK 63	14	45	134	160
A63.0214.200-KKB	HSK 63	14	45	174	200

HSK 63



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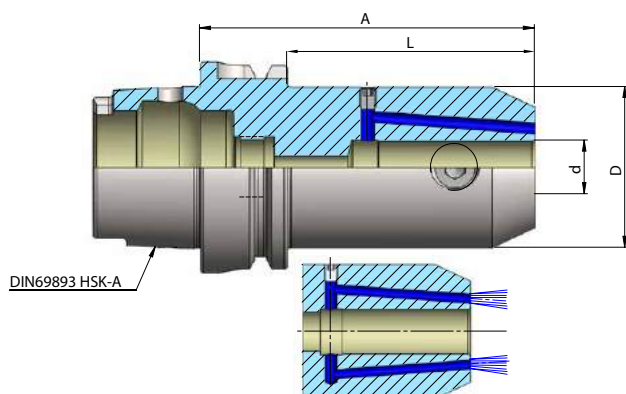
Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B mit Kühlkanalbohrung End mill holder DIN 6359 for weldon DIN 1835-B with cooling channel bores

Bestellnummer Order number	Kegel Cone	d	D	L	A
A63.0216.80-KKB	HSK 63	16	48	54	80
A63.0216.100-KKB	HSK 63	16	48	74	100
A63.0216.130-KKB	HSK 63	16	48	104	130
A63.0216.160-KKB	HSK 63	16	48	134	160
A63.0216.200-KKB	HSK 63	16	48	174	200
A63.0218.80-KKB	HSK 63	18	50	54	80
A63.0218.100-KKB	HSK 63	18	50	74	100
A63.0218.130-KKB	HSK 63	18	50	104	130
A63.0218.160-KKB	HSK 63	18	50	134	160
A63.0218.200-KKB	HSK 63	18	50	174	200
A63.0220.80-KKB	HSK 63	20	52	54	80
A63.0220.100-KKB	HSK 63	20	52	74	100
A63.0220.130-KKB	HSK 63	20	52	104	130
A63.0220.160-KKB	HSK 63	20	52	134	160
A63.0220.200-KKB	HSK 63	20	52	174	200
A63.0225.110-KKB	HSK 63	25	63	84	110
A63.0225.160-KKB	HSK 63	25	63	134	160
A63.0232.110-KKB	HSK 63	32	72	84	110
A63.0232.160-KKB	HSK 63	32	72	134	160
A63.0240.125-KKB	HSK 63	40	80	99	125
A63.0240.160-KKB	HSK 63	40	80	134	160

HSK 63



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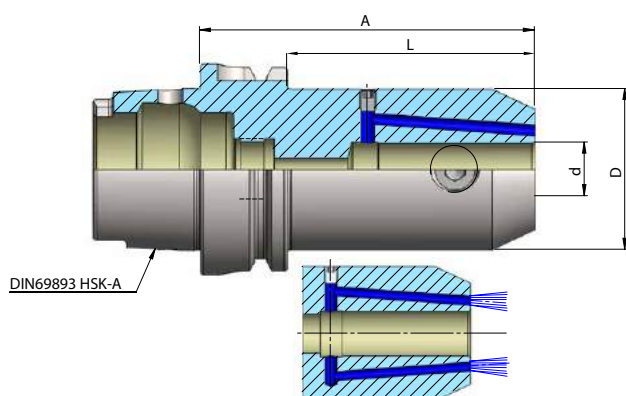
Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B mit Kühlkanalbohrung End mill holder DIN 6359 for weldon DIN 1835-B with cooling channel bores

Bestellnummer Order number	Kegel Cone	d	D	L	A
A100.0206.80-KKB	HSK 100	6	25	51	80
A100.0206.100-KKB	HSK 100	6	25	71	100
A100.0206.130-KKB	HSK 100	6	25	101	130
A100.0206.160-KKB	HSK 100	6	25	131	160
A100.0206.200-KKB	HSK 100	6	25	171	200
A100.0208.80-KKB	HSK 100	8	28	51	80
A100.0208.100-KKB	HSK 100	8	28	71	100
A100.0208.130-KKB	HSK 100	8	28	101	130
A100.0208.160-KKB	HSK 100	8	28	131	160
A100.0208.200-KKB	HSK 100	8	28	171	200
A100.0210.80-KKB	HSK 100	10	35	51	80
A100.0210.100-KKB	HSK 100	10	35	71	100
A100.0210.130-KKB	HSK 100	10	35	101	130
A100.0210.160-KKB	HSK 100	10	35	131	160
A100.0210.200-KKB	HSK 100	10	35	171	200
A100.0212.80-KKB	HSK 100	12	42	51	80
A100.0212.100-KKB	HSK 100	12	42	71	100
A100.0212.130-KKB	HSK 100	12	42	101	130
A100.0212.160-KKB	HSK 100	12	42	131	160
A100.0212.200-KKB	HSK 100	12	42	171	200
A100.0214.80-KKB	HSK 100	14	45	51	80
A100.0214.100-KKB	HSK 100	14	45	71	100
A100.0214.130-KKB	HSK 100	14	45	101	130
A100.0214.160-KKB	HSK 100	14	45	131	160
A100.0214.200-KKB	HSK 100	14	45	171	200

HSK 100



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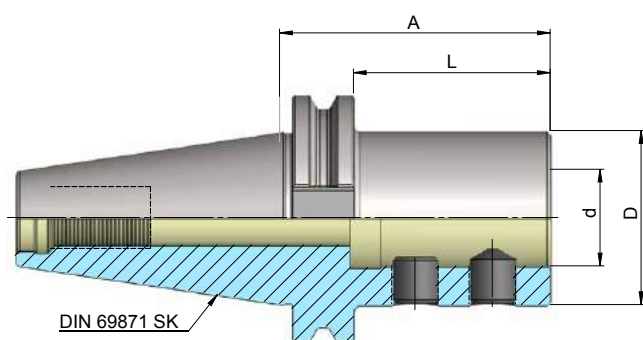
Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B mit Kühlkanalbohrung End mill holder DIN 6359 for weldon DIN 1835-B with cooling channel bores

Bestellnummer Order number	Kegel Cone	d	D	L	A
A100.0216.100-KKB	HSK 100	16	48	71	100
A100.0216.130-KKB	HSK 100	16	48	101	130
A100.0216.160-KKB	HSK 100	16	48	131	160
A100.0216.200-KKB	HSK 100	16	48	171	200
A100.0218.100-KKB	HSK 100	18	50	71	100
A100.0218.130-KKB	HSK 100	18	50	101	130
A100.0218.160-KKB	HSK 100	18	50	131	160
A100.0218.200-KKB	HSK 100	18	50	171	200
A100.0220.100-KKB	HSK 100	20	52	71	100
A100.0220.130-KKB	HSK 100	20	52	101	130
A100.0220.160-KKB	HSK 100	20	52	131	160
A100.0220.200-KKB	HSK 100	20	52	171	200
A100.0225.100-KKB	HSK 100	25	65	71	100
A100.0225.130-KKB	HSK 100	25	65	101	130
A100.0225.160-KKB	HSK 100	25	65	131	160
A100.0225.200-KKB	HSK 100	25	65	171	200
A100.0232.100-KKB	HSK 100	32	72	71	100
A100.0232.130-KKB	HSK 100	32	72	101	130
A100.0232.160-KKB	HSK 100	32	72	131	160
A100.0232.200-KKB	HSK 100	32	72	171	200
A100.0240.105-KKB	HSK 100	40	80	76	105
A100.0240.160-KKB	HSK 100	40	80	131	160
A100.0240.200-KKB	HSK 100	40	80	171	200

HSK 100



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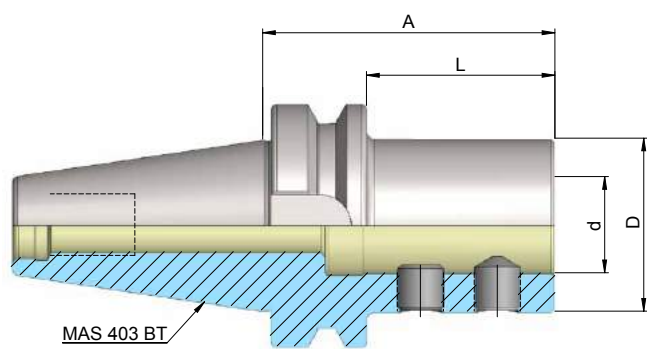


Bohrerhalter für Wendeplattenbohrer E1

Boring holder for drill with indexable inserts for E1

	Bestellnummer Order number	Kegel Cone	d	D	L	A
SK 40	S40.1420.65	SK 40	20	40	46	65
	S40.1425.70	SK 40	25	45	51	70
	S40.1432.75	SK 40	32	52	56	75
SK 50	S50.1420.70	SK 50	20	40	51	70
	S50.1425.70	SK 50	25	45	51	70
	S50.1432.70	SK 50	32	52	51	70
	S50.1440.80	SK 50	40	60	61	80

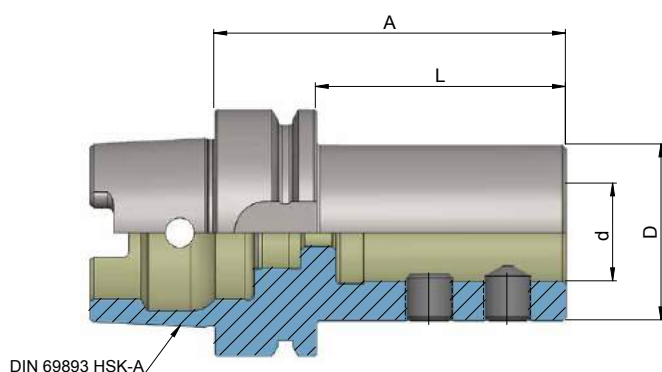




Bohrerhalter für Wendeplattenbohrer E1
Boring holder for drill with indexable inserts for E1

	Bestellnummer Order number	Kegel Cone	d	D	L	A
BT 40	B40.1420.72	BT 40	20	40	45	72
	B40.1425.76	BT 40	25	45	49	76
	B40.1432.80	BT 40	32	52	53	80
BT 50	B50.1420.90	BT 50	20	40	52	90
	B50.1425.90	BT 50	25	45	52	90
	B50.1432.90	BT 50	32	52	52	90
	B50.1440.100	BT 50	40	60	62	100

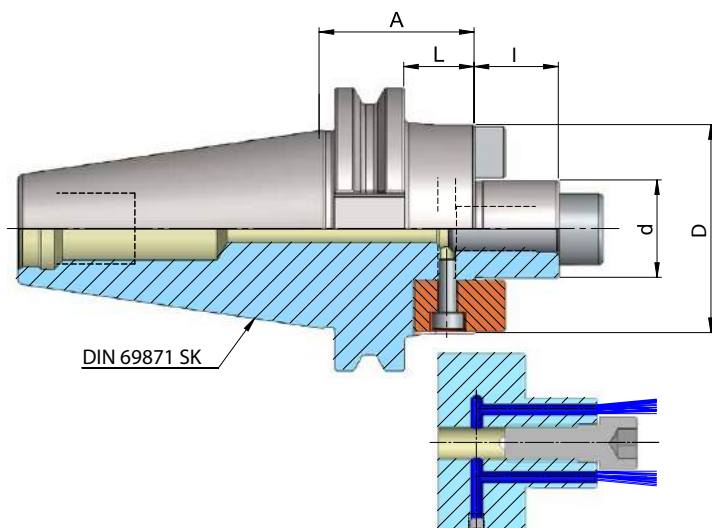




Bohrerhalter für Wendeplattenbohrer E1 Boring holder for drill with indexable inserts for E1

	Bestellnummer Order number	Kegel Cone	d	D	L	A
HSK 63	A63.1420.80	HSK 63	20	40	54	80
	A63.1425.90	HSK 63	25	45	64	90
	A63.1432.90	HSK 63	32	52	64	90
HSK 100	A100.1420.90	HSK 100	20	40	61	90
	A100.1425.95	HSK 100	25	45	66	95
	A100.1432.100	HSK 100	32	52	71	100
	A100.1440.110	HSK 100	40	60	81	110

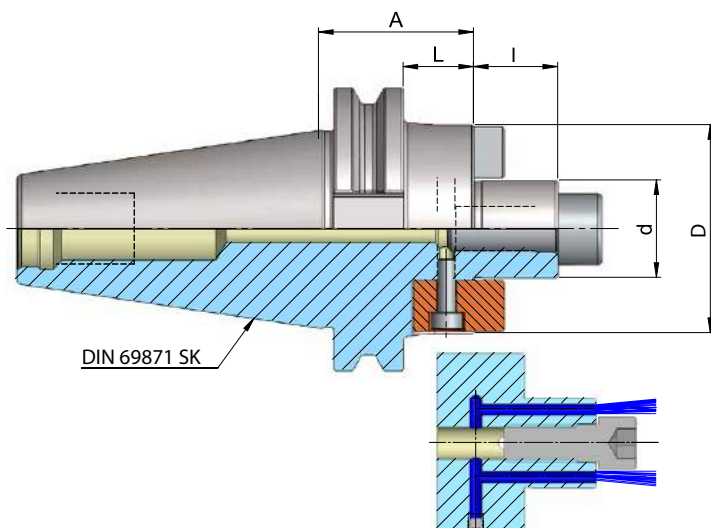




Quernut-Aufsteckfräsdorn DIN 6357 mit vergrößertem Bunddurchmesser mit Kühlkanal Shell mill holder DIN 6357 for cutters with driving slot with coolant channel

	Bestellnummer Order number	Kegel Cone	d	D	I	L	A
SK 30	S30.0316.40	SK 30	16	38	17	21	40
	S30.0322.40	SK 30	22	48	19	21	40
	S30.0327.50	SK 30	27	58	21	31	50
	S30.0332.50	SK 30	32	78	24	31	50
SK 40	S40.0316.35	SK 40	16	38	17	16	35
	S40.0316.100	SK 40	16	38	17	81	100
	S40.0316.130	SK 40	16	38	17	111	130
	S40.0316.160	SK 40	16	38	17	141	160
	S40.0322.35	SK 40	22	48	19	16	35
	S40.0322.100	SK 40	22	48	19	81	100
	S40.0322.130	SK 40	22	48	19	111	130
	S40.0322.160	SK 40	22	48	19	141	160
	S40.0327.40	SK 40	27	58	21	21	40
	S40.0327.100	SK 40	27	58	21	81	100
	S40.0327.130	SK 40	27	58	21	111	130
	S40.0327.160	SK 40	27	58	21	141	160
	S40.0332.50	SK 40	32	78	24	31	50
	S40.0332.100	SK 40	32	78	24	81	100
	S40.0332.130	SK 40	32	78	24	111	130
	S40.0332.160	SK 40	32	78	24	141	160
	S40.0340.50	SK 40	40	88	27	31	50
	S40.0340.100	SK 40	40	88	27	81	100
	S40.0340.130	SK 40	40	88	27	111	130
	S40.0340.160	SK 40	40	88	27	141	160


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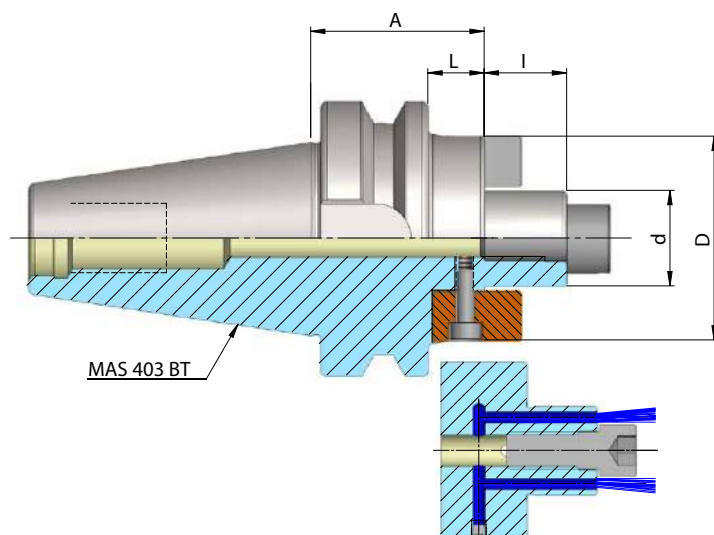


Quernut-Aufsteckfräsdorn DIN 6357 mit vergrößertem Bunddurchmesser mit Kühlkanal Shell mill holder DIN 6357 for cutters with driving slot with coolant channel

Bestellnummer Order number	Kegel Cone	d	D	I	L	A
S50.0316.35	SK 50	16	38	17	16	35
S50.0316.100	SK 50	16	38	17	81	100
S50.0316.130	SK 50	16	38	17	111	130
S50.0316.160	SK 50	16	38	17	141	160
S50.0316.200	SK 50	16	38	17	181	200
S50.0322.35	SK 50	22	48	19	16	35
S50.0322.100	SK 50	22	48	19	81	100
S50.0322.130	SK 50	22	48	19	111	130
S50.0322.160	SK 50	22	48	19	141	160
S50.0322.200	SK 50	22	48	19	181	200
S50.0327.40	SK 50	27	58	21	21	40
S50.0327.100	SK 50	27	58	21	81	100
S50.0327.130	SK 50	27	58	21	111	130
S50.0327.160	SK 50	27	58	21	141	160
S50.0327.200	SK 50	27	58	21	181	200
S50.0332.50	SK 50	32	78	24	31	50
S50.0332.100	SK 50	32	78	24	81	100
S50.0332.130	SK 50	32	78	24	111	130
S50.0332.160	SK 50	32	78	24	141	160
S50.0332.200	SK 50	32	78	24	181	200
S50.0340.50	SK 50	40	88	27	31	50
S50.0340.100	SK 50	40	88	27	81	100
S50.0340.130	SK 50	40	88	27	111	130
S50.0340.160	SK 50	40	88	27	141	160
S50.0340.200	SK 50	40	88	27	181	200
S50.0350.70	SK 50	50	128	40	51	70
S50.0360.70	SK 50	60	128	40	51	70



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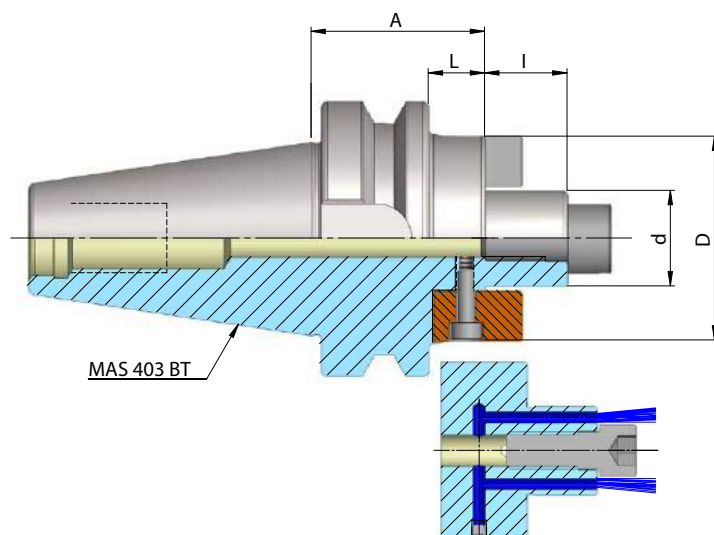
Quernut-Aufsteckfräsdorn DIN 6357 mit vergrößertem Bunddurchmesser mit Kühlkanal

Shell mill holder DIN 6357 for cutters with driving slot with coolant channel

	Bestellnummer Order number	Kegel Cone	d	D	I	L	A
BT 30	B30.0316.40	BT 30	16	38	17	18	40
	B30.0322.40	BT 30	22	48	19	18	40
	B30.0327.40	BT 30	27	58	21	18	40
	B30.0332.50	BT 30	32	78	24	28	50
BT 40	B40.0316.40	BT 40	16	38	17	13	40
	B40.0316.100	BT 40	16	38	17	73	100
	B40.0316.130	BT 40	16	38	17	103	130
	B40.0316.160	BT 40	16	38	17	133	160
	B40.0322.40	BT 40	22	48	19	13	40
	B40.0322.100	BT 40	22	48	19	73	100
	B40.0322.130	BT 40	22	48	19	103	130
	B40.0322.160	BT 40	22	48	19	133	160
	B40.0327.40	BT 40	27	58	21	13	40
	B40.0327.100	BT 40	27	58	21	73	100
	B40.0327.130	BT 40	27	58	21	103	130
	B40.0327.160	BT 40	27	58	21	133	160
	B40.0332.50	BT 40	32	78	24	23	50
	B40.0332.100	BT 40	32	78	24	73	100
	B40.0332.130	BT 40	32	78	24	103	130
	B40.0332.160	BT 40	32	78	24	133	160
	B40.0340.50	BT 40	40	88	27	23	50
	B40.0340.100	BT 40	40	88	27	73	100
	B40.0340.130	BT 40	40	88	27	103	130
	B40.0340.160	BT 40	40	88	27	133	160



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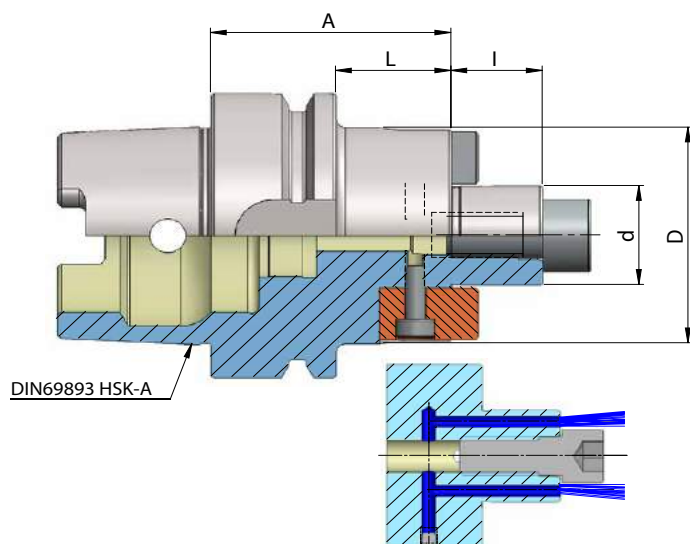
Quernut-Aufsteckfräsdorn DIN 6357 mit vergrößertem Bunddurchmesser mit Kühlkanal

Shell mill holder DIN 6357 for cutters with driving slot with coolant channel

Bestellnummer Order number	Kegel Cone	d	D	I	L	A
B50.0316.55	BT 50	16	38	17	17	55
B50.0316.100	BT 50	16	38	17	62	100
B50.0316.130	BT 50	16	38	17	92	130
B50.0316.160	BT 50	16	38	17	122	160
B50.0322.55	BT 50	22	48	19	17	55
B50.0322.100	BT 50	22	48	19	62	100
B50.0322.130	BT 50	22	48	19	92	130
B50.0322.160	BT 50	22	48	19	122	160
B50.0327.55	BT 50	27	58	21	17	55
B50.0327.100	BT 50	27	58	21	62	100
B50.0327.130	BT 50	27	58	21	92	130
B50.0327.160	BT 50	27	58	21	122	160
B50.0332.55	BT 50	32	78	24	17	55
B50.0332.100	BT 50	32	78	24	62	100
B50.0332.130	BT 50	32	78	24	92	130
B50.0332.160	BT 50	32	78	24	122	160
B50.0340.55	BT 50	40	88	27	17	55
B50.0340.100	BT 50	40	88	27	62	100
B50.0340.130	BT 50	40	88	27	92	130
B50.0340.160	BT 50	40	88	27	122	160
B50.0360.80	BT 50	60	128	40	42	80



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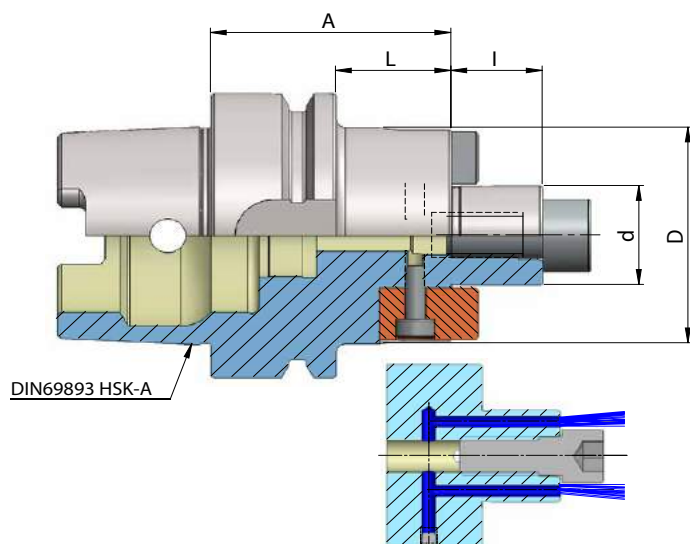


Quernut-Aufsteckfräsdorn DIN 6357 mit vergrößertem Bunddurchmesser mit Kühlkanal Shell mill holder DIN 6357 for cutters with driving slot with coolant channel

	Bestellnummer Order number	Kegel Cone	d	D	I	L	A
HSK 50	A50.0316.50	HSK 50	16	38	17	24	50
	A50.0322.60	HSK 50	22	48	19	34	60
	A50.0327.60	HSK 50	27	58	21	34	60
	A50.0332.60	HSK 50	32	78	24	34	60
HSK 63	A63.0316.50	HSK 63	16	38	17	24	50
	A63.0316.100	HSK 63	16	38	17	74	100
	A63.0316.130	HSK 63	16	38	17	104	130
	A63.0316.160	HSK 63	16	38	17	134	160
	A63.0322.50	HSK 63	22	48	19	24	50
	A63.0322.100	HSK 63	22	48	19	74	100
	A63.0322.130	HSK 63	22	48	19	104	130
	A63.0322.160	HSK 63	22	48	19	134	160
	A63.0327.60	HSK 63	27	58	21	34	60
	A63.0327.100	HSK 63	27	58	21	74	100
	A63.0327.130	HSK 63	27	58	21	104	130
	A63.0327.160	HSK 63	27	58	21	134	160
	A63.0332.60	HSK 63	32	78	24	34	60
	A63.0332.100	HSK 63	32	78	24	74	100
	A63.0332.130	HSK 63	32	78	24	104	130
	A63.0332.160	HSK 63	32	78	24	134	160
	A63.0340.60	HSK 63	40	88	27	34	60
	A63.0340.100	HSK 63	40	88	27	74	100
	A63.0340.160	HSK 63	40	88	27	134	160



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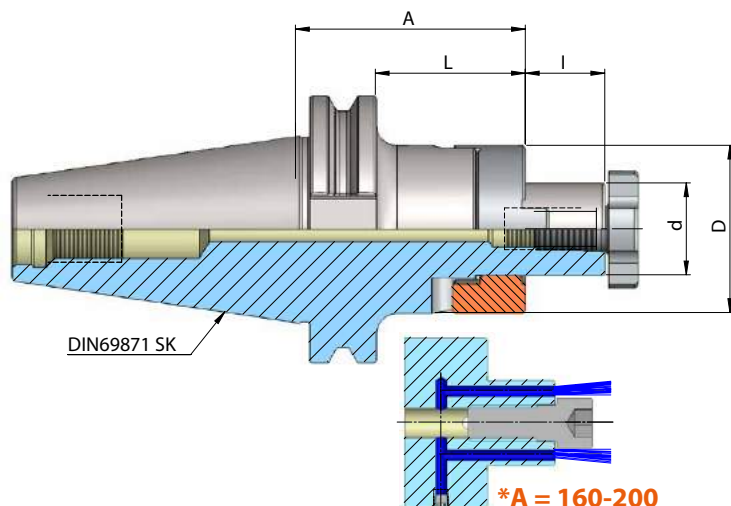


Quernut-Aufsteckfräsdorn DIN 6357 mit vergrößertem Bunddurchmesser mit Kühlkanal Shell mill holder DIN 6357 for cutters with driving slot with coolant channel

Bestellnummer Order number	Kegel Cone	d	D	I	L	A
A100.0316.50	HSK 100	16	38	17	21	50
A100.0316.100	HSK 100	16	38	17	71	100
A100.0316.130	HSK 100	16	38	17	101	130
A100.0316.160	HSK 100	16	38	17	131	160
A100.0316.200	HSK 100	16	38	17	171	200
A100.0322.50	HSK 100	22	48	19	21	50
A100.0322.100	HSK 100	22	48	19	71	100
A100.0322.130	HSK 100	22	48	19	101	130
A100.0322.160	HSK 100	22	48	19	131	160
A100.0322.200	HSK 100	22	48	19	171	200
A100.0327.50	HSK 100	27	58	21	21	50
A100.0327.100	HSK 100	27	58	21	71	100
A100.0327.130	HSK 100	27	58	21	101	130
A100.0327.160	HSK 100	27	58	21	131	160
A100.0327.200	HSK 100	27	58	21	171	200
A100.0332.50	HSK 100	32	78	24	21	50
A100.0332.100	HSK 100	32	78	24	71	100
A100.0332.130	HSK 100	32	78	24	101	130
A100.0332.160	HSK 100	32	78	24	131	160
A100.0332.200	HSK 100	32	78	24	171	200
A100.0340.60	HSK 100	40	88	27	31	60
A100.0340.100	HSK 100	40	88	27	71	100
A100.0340.130	HSK 100	40	88	27	101	130
A100.0340.160	HSK 100	40	88	27	131	160
A100.0350.70	HSK 100	50	128	40	41	70
A100.0350.100	HSK 100	50	128	40	71	100
A100.0360.70	HSK 100	60	128	40	41	70



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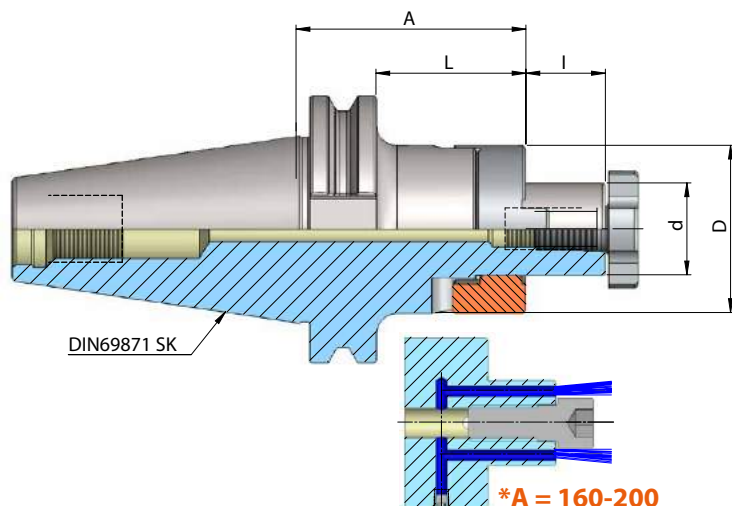
Kombi-Aufsteckfräsdorn DIN 6358

Combi shell mill holder DIN 6358

	Bestellnummer Order number	Kegel Cone	d	D	I	L	A
SK 30	S30.0416.50	SK 30	16	32	17	31	50
	S30.0422.50	SK 30	22	40	19	31	50
	S30.0427.55	SK 30	27	48	21	36	55
	S30.0432.60	SK 30	32	58	24	41	60
SK 40	S40.0416.55	SK 40	16	32	17	36	55
	S40.0416.100	SK 40	16	32	17	81	100
	S40.0416.130	SK 40	16	32	17	111	130
	*S40.0416.160	SK 40	16	32	17	141	160
	S40.0422.55	SK 40	22	40	19	36	55
	S40.0422.100	SK 40	22	40	19	81	100
	S40.0422.130	SK 40	22	40	19	111	130
	*S40.0422.160	SK 40	22	40	19	141	160
	S40.0427.55	SK 40	27	48	21	36	55
	S40.0427.100	SK 40	27	48	21	81	100
	S40.0427.130	SK 40	27	48	21	111	130
	*S40.0427.160	SK 40	27	48	21	141	160
	S40.0432.60	SK 40	32	58	24	41	60
	S40.0432.100	SK 40	32	58	24	81	100
	S40.0432.130	SK 40	32	58	24	111	130
	*S40.0432.160	SK 40	32	58	24	141	160
	S40.0440.60	SK 40	40	70	27	41	60
	S40.0440.100	SK 40	40	70	27	81	100



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Kombi-Aufsteckfräsdorn DIN 6358

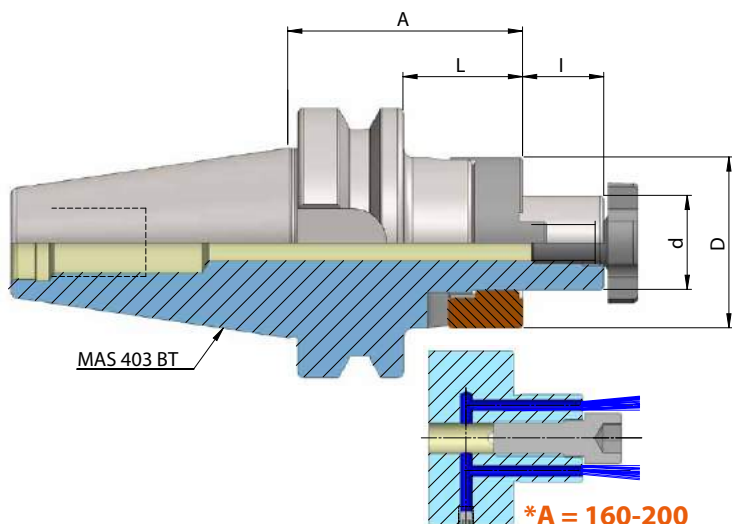
Combi shell mill holder DIN 6358

Bestellnummer Order number	Kegel Cone	d	D	I	L	A
S50.0416.55	SK 50	16	32	17	36	55
S50.0416.100	SK 50	16	32	17	81	100
S50.0416.130	SK 50	16	32	17	111	130
*S50.0416.160	SK 50	16	32	17	141	160
*S50.0416.200	SK 50	16	32	17	181	200
S50.0422.55	SK 50	22	40	19	36	55
S50.0422.100	SK 50	22	40	19	81	100
S50.0422.130	SK 50	22	40	19	111	130
*S50.0422.160	SK 50	22	40	19	141	160
*S50.0422.200	SK 50	22	40	19	181	200
S50.0427.55	SK 50	27	48	21	36	55
S50.0427.100	SK 50	27	48	21	81	100
S50.0427.130	SK 50	27	48	21	111	130
*S50.0427.160	SK 50	27	48	21	141	160
*S50.0427.200	SK 50	27	48	21	181	200
S50.0432.55	SK 50	32	58	24	36	55
S50.0432.100	SK 50	32	58	24	81	100
S50.0432.130	SK 50	32	58	24	111	130
*S50.0432.160	SK 50	32	58	24	141	160
*S50.0432.200	SK 50	32	58	24	181	200
S50.0440.55	SK 50	40	70	27	36	55
S50.0440.100	SK 50	40	70	27	81	100
S50.0440.130	SK 50	40	70	27	111	130
*S50.0440.160	SK 50	40	70	27	141	160
*S50.0440.200	SK 50	40	70	27	181	200

SK 50



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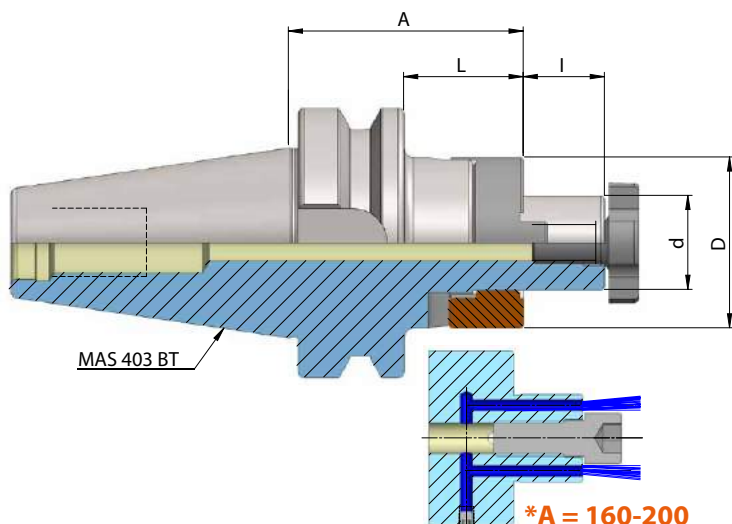


Kombi-Aufsteckfräsdorn DIN 6358 Combi shell mill holder DIN 6358

	Bestellnummer Order number	Kegel Cone	d	D	I	L	A
BT 30	B30.0416.45	BT 30	16	32	17	23	45
	B30.0422.47	BT 30	22	40	19	25	47
	B30.0427.49	BT 30	27	48	21	27	49
	B30.0432.52	BT 30	32	58	24	30	52
BT 40	B40.0416.55	BT 40	16	32	17	28	55
	B40.0416.100	BT 40	16	32	17	73	100
	B40.0416.130	BT 40	16	32	17	103	130
	*B40.0416.160	BT 40	16	32	17	133	160
	B40.0422.55	BT 40	22	40	19	28	55
	B40.0422.100	BT 40	22	40	19	73	100
	B40.0422.130	BT 40	22	40	19	103	130
	*B40.0422.160	BT 40	22	40	19	133	160
	B40.0427.55	BT 40	27	48	21	28	55
	B40.0427.100	BT 40	27	48	21	73	100
	B40.0427.130	BT 40	27	48	21	103	130
	*B40.0427.160	BT 40	27	48	21	133	160
	B40.0432.60	BT 40	32	58	24	33	60
	B40.0432.100	BT 40	32	58	24	73	100
	B40.0432.130	BT 40	32	58	24	103	130
	*B40.0432.160	BT 40	32	58	24	133	160
	B40.0440.60	BT 40	40	70	27	33	60
	B40.0440.100	BT 40	40	70	27	73	100



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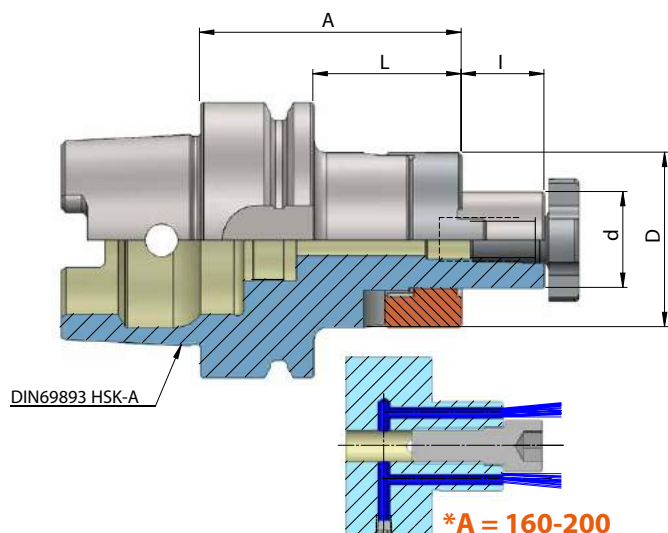
Kombi-Aufsteckfräsdorn DIN 6358

Combi shell mill holder DIN 6358

Bestellnummer Order number	Kegel Cone	d	D	I	L	A
B50.0416.70	BT 50	16	32	17	32	70
B50.0416.100	BT 50	16	32	17	62	100
B50.0416.130	BT 50	16	32	17	92	130
*B50.0416.160	BT 50	16	32	17	122	160
*B50.0416.200	BT 50	16	32	17	162	200
B50.0422.70	BT 50	22	40	19	32	70
B50.0422.100	BT 50	22	40	19	62	100
B50.0422.130	BT 50	22	40	19	92	130
*B50.0422.160	BT 50	22	40	19	122	160
*B50.0422.200	BT 50	22	40	19	162	200
B50.0427.70	BT 50	27	48	21	32	70
B50.0427.100	BT 50	27	48	21	62	100
B50.0427.130	BT 50	27	48	21	92	130
*B50.0427.160	BT 50	27	48	21	122	160
*B50.0427.200	BT 50	27	48	21	162	200
B50.0432.70	BT 50	32	58	24	32	70
B50.0432.100	BT 50	32	58	24	62	100
B50.0432.130	BT 50	32	58	24	92	130
*B50.0432.160	BT 50	32	58	24	122	160
*B50.0432.200	BT 50	32	58	24	162	200
B50.0440.70	BT 50	40	70	27	32	70
B50.0440.100	BT 50	40	70	27	62	100
B50.0440.130	BT 50	40	70	27	92	130
*B50.0440.160	BT 50	40	70	27	122	160
*B50.0440.200	BT 50	40	70	27	162	200

BT 50


Zubehör — Seite 78-80
Accessories — Page 78-80

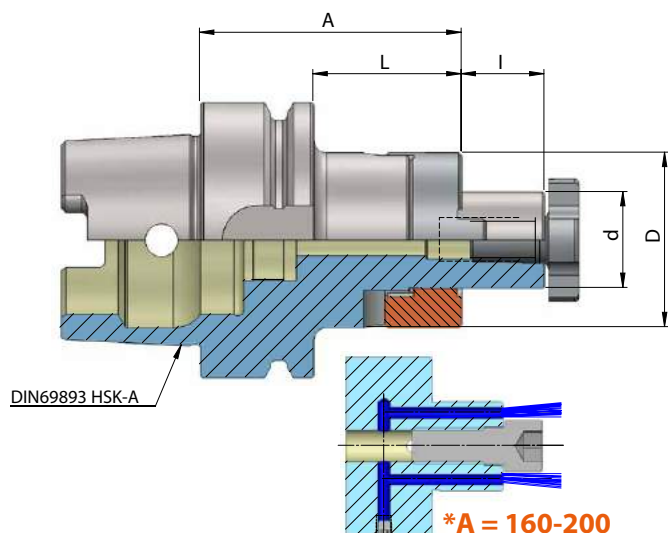


Kombi-Aufsteckfräsdorn DIN 6358 Combi shell mill holder DIN 6358

	Bestellnummer Order number	Kegel Cone	d	D	I	L	A
HSK 50	A50.0416.50	HSK 50	16	32	17	24	50
	A50.0422.50	HSK 50	22	40	19	24	50
	A50.0427.65	HSK 50	27	48	21	39	65
	A50.0432.65	HSK 50	32	58	24	39	65
HSK 63	A63.0416.60	HSK 63	16	32	17	34	60
	A63.0416.100	HSK 63	16	32	17	74	100
	A63.0416.130	HSK 63	16	32	17	104	130
	*A63.0416.160	HSK 63	16	32	17	134	160
	A63.0422.60	HSK 63	22	40	19	34	60
	A63.0422.100	HSK 63	22	40	19	74	100
	A63.0422.130	HSK 63	22	40	19	104	130
	*A63.0422.160	HSK 63	22	40	19	134	160
	A63.0427.60	HSK 63	27	48	21	34	60
	A63.0427.100	HSK 63	27	48	21	74	100
	A63.0427.130	HSK 63	27	48	21	104	130
	*A63.0427.160	HSK 63	27	48	21	134	160
	A63.0432.60	HSK 63	32	58	24	34	60
	A63.0432.100	HSK 63	32	58	24	74	100
	A63.0432.130	HSK 63	32	58	24	104	130
	*A63.0432.160	HSK 63	32	58	24	134	160
	A63.0440.70	HSK 63	40	70	27	44	70
	A63.0440.100	HSK 63	40	70	27	74	100



Zubehör _____ Seite 78-80
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Kombi-Aufsteckfräsdorn DIN 6358

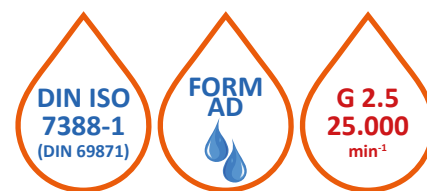
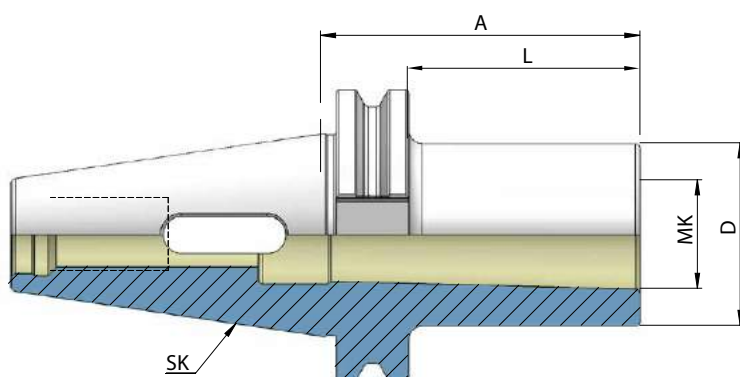
Combi shell mill holder DIN 6358

Bestellnummer Order number	Kegel Cone	d	D	I	L	A
A100.0416.60	HSK 100	16	32	17	31	60
A100.0416.100	HSK 100	16	32	17	71	100
A100.0416.130	HSK 100	16	32	17	101	130
*A100.0416.160	HSK 100	16	32	17	131	160
*A100.0416.200	HSK 100	16	32	17	171	200
A100.0422.60	HSK 100	22	40	19	31	60
A100.0422.100	HSK 100	22	40	19	71	100
A100.0422.130	HSK 100	22	40	19	101	130
*A100.0422.160	HSK 100	22	40	19	131	160
*A100.0422.200	HSK 100	22	40	19	171	200
A100.0427.60	HSK 100	27	48	21	31	60
A100.0427.100	HSK 100	27	48	21	71	100
A100.0427.130	HSK 100	27	48	21	101	130
*A100.0427.160	HSK 100	27	48	21	131	160
*A100.0427.200	HSK 100	27	48	21	171	200
A100.0432.60	HSK 100	32	58	24	31	60
A100.0432.100	HSK 100	32	58	24	71	100
A100.0432.130	HSK 100	32	58	24	101	130
*A100.0432.160	HSK 100	32	58	24	131	160
*A100.0432.200	HSK 100	32	58	24	171	200
A100.0440.70	HSK 100	40	70	27	41	70
A100.0440.100	HSK 100	40	70	27	71	100
A100.0440.130	HSK 100	40	70	27	101	130
*A100.0440.160	HSK 100	40	70	27	131	160

HSK 100



Zubehör _____ Seite 78-80
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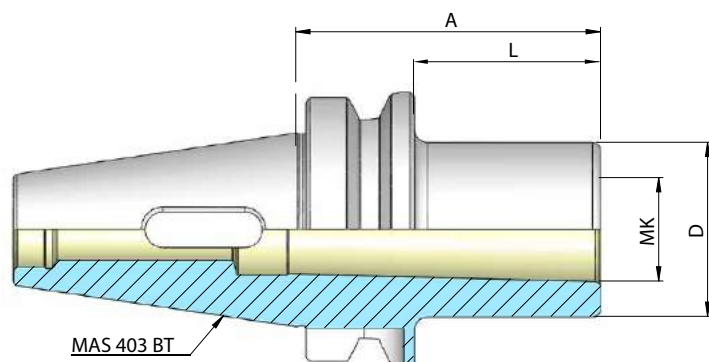


Zwischenhülse für MK mit Austreiblappen DIN 6383

Morse taper adaptor DIN 6383

	Bestellnummer Order number	Kegel Cone	MK	D	L	A
SK 30	S30.0501.50	SK 30	1	25	31	50
	S30.0502.65	SK 30	2	32	46	65
	S30.0503.80	SK 30	3	40	61	80
SK 40	S40.0501.50	SK 40	1	25	31	50
	S40.0502.50	SK 40	2	32	31	50
	S40.0502.117	SK 40	2	32	98	117
	S40.0503.70	SK 40	3	40	51	70
	S40.0503.133	SK 40	3	40	114	133
	S40.0504.95	SK 40	4	48	76	95
	S40.0504.156	SK 40	4	48	137	156
SK 50	S50.0501.45	SK 50	1	25	26	45
	S50.0502.60	SK 50	2	32	41	60
	S50.0502.117	SK 50	2	32	98	117
	S50.0503.65	SK 50	3	40	46	65
	S50.0503.137	SK 50	3	40	118	137
	S50.0504.95	SK 50	4	48	76	95
	S50.0504.167	SK 50	4	48	148	167
	S50.0505.105	SK 50	5	63	86	105
	S50.0505.197	SK 50	5	63	178	197

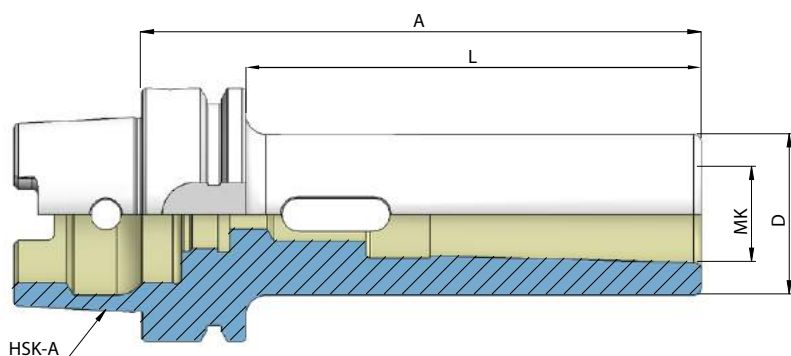




Zwischenhülse für MK mit Austreiblappen DIN 6383 Morse taper adaptor DIN 6383

	Bestellnummer Order number	Kegel Cone	MK	D	L	A
BT 30	B30.0501.45	BT 30	1	25	23	45
	B30.0502.60	BT 30	2	32	38	60
	B30.0503.75	BT 30	3	40	53	75
BT 40	B40.0501.50	BT 40	1	25	23	50
	B40.0502.50	BT 40	2	32	23	50
	B40.0503.70	BT 40	3	40	43	70
	B40.0504.95	BT 40	4	48	68	95
BT 50	B50.0501.45	BT 50	1	25	7	45
	B50.0502.60	BT 50	2	32	22	60
	B50.0503.65	BT 50	3	40	27	65
	B50.0504.95	BT 50	4	48	57	95
	B50.0505.105	BT 50	5	63	67	105

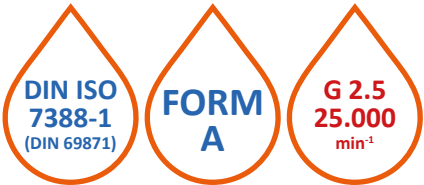
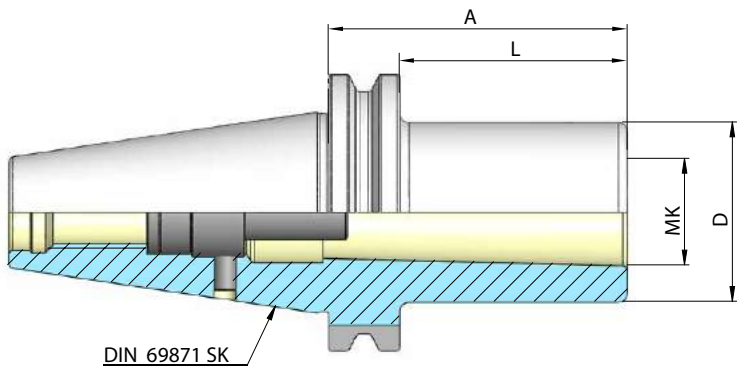




Zwischenhülse für MK mit Austreibblappen DIN 6383 Morse taper adaptor DIN 6383

	Bestellnummer Order number	Kegel Cone	MK	D	L	A
HSK 50	A50.0501.100	HSK 50	1	25	74	100
	A50.0502.120	HSK 50	2	32	94	120
	A50.0603.140	HSK 50	3	40	114	140
HSK 63	A63.0501.100	HSK 63	1	25	74	100
	A63.0502.120	HSK 63	2	32	94	120
	A63.0503.140	HSK 63	3	40	114	140
	A63.0504.160	HSK 63	4	48	134	160
HSK 100	A100.0501.110	HSK 100	1	25	81	110
	A100.0502.120	HSK 100	2	32	91	120
	A100.0503.150	HSK 100	3	40	121	150
	A100.0504.170	HSK 100	4	48	141	170
	A100.0505.200	HSK 100	5	63	171	200

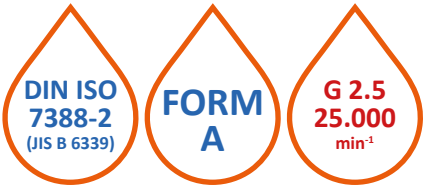
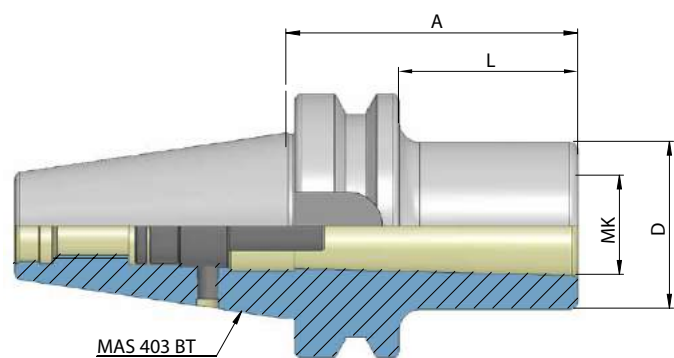




Zwischenhülse für MK mit Anzugsgewinde DIN 6364
Morse taper adaptor with thread DIN 6364

	Bestellnummer Order number	Kegel Cone	MK	D	L	A
SK 40	S40.0601.50	SK 40	1	25	31	50
	S40.0602.50	SK 40	2	32	31	50
	S40.0603.70	SK 40	3	40	51	70
	S40.0604.95	SK 40	4	48	76	95
SK 50	S50.0601.45	SK 50	1	25	26	45
	S50.0602.60	SK 50	2	32	41	60
	S50.0603.65	SK 50	3	40	46	65
	S50.0604.70	SK 50	4	48	51	70
	S50.0605.100	SK 50	5	63	81	100

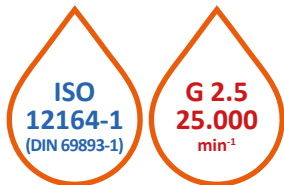
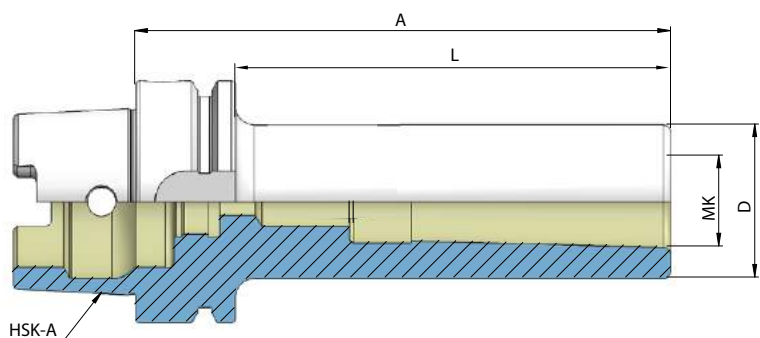




Zwischenhülse für MK mit Anzugsgewinde DIN 6364
Morse taper adaptor with thread DIN 6364

	Bestellnummer Order number	Kegel Cone	MK	D	L	A
BT 40	B40.0601.50	BT 40	1	25	23	50
	B40.0602.50	BT 40	2	32	23	50
	B40.0603.70	BT 40	3	40	43	70
	B40.0604.95	BT 40	4	48	68	95
BT 50	B50.0601.45	BT 50	1	25	7	45
	B50.0602.60	BT 50	2	32	22	60
	B50.0603.65	BT 50	3	40	27	65
	B50.0604.70	BT 50	4	48	32	70
	B50.0605.100	BT 50	5	63	62	100



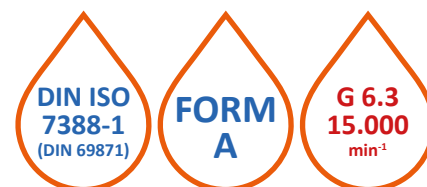
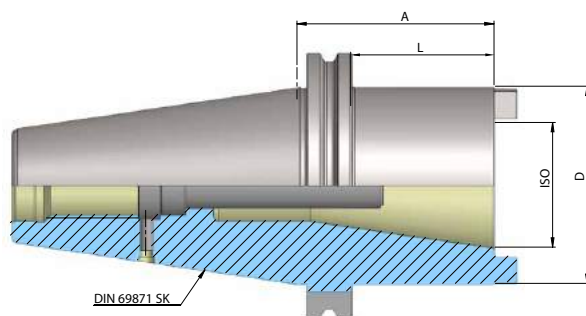


Zwischenhülse für MK mit Anzugsgewinde DIN 6364 Morse taper adaptor with thread DIN 6364

	Bestellnummer Order number	Kegel Cone	MK	D	L	A
HSK 63	A63.0601.100	HSK 63	1	25	74	100
	A63.0602.120	HSK 63	2	32	94	120
	A63.0603.140	HSK 63	3	40	114	140
	A63.0604.160	HSK 63	4	48	134	160
HSK 100	A100.0601.110	HSK 100	1	25	81	110
	A100.0602.120	HSK 100	2	32	91	120
	A100.0603.150	HSK 100	3	40	121	150
	A100.0604.170	HSK 100	4	48	141	170
	A100.0605.200	HSK 100	5	63	171	200



DIN ISO 7388-1 A (DIN 69871) SK

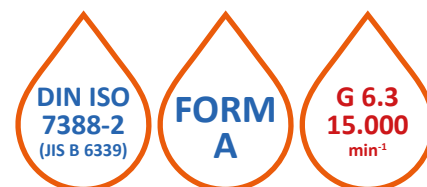
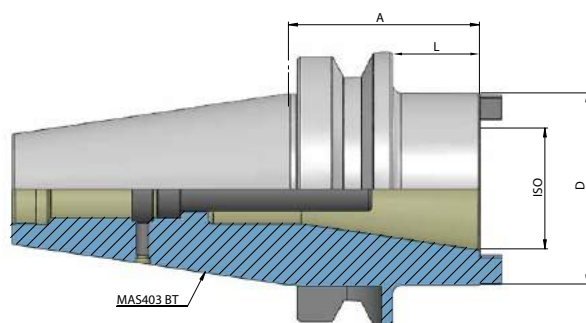


Zwischenhülse/Reduzierhülse Reduction sleeves

	Bestellnummer Order number	Kegel Cone	ISO	D	L	A
SK 40	S40.0730.50	SK 40	SK30 - BT30	50	31	50
	S40.0740.100	SK 40	SK40 - BT40	63	81	100
SK 50	S50.0740.70	SK 50	SK40 - BT40	70	51	70
	S50.0750.120	SK 50	SK50 - BT50	97	101	120



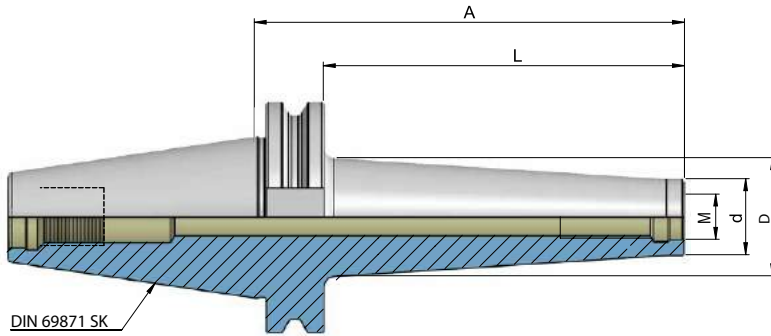
DIN ISO 7388-2 A (JIS B 6339 MAS 403 BT)



Zwischenhülse/Reduzierhülse Reduction sleeves

	Bestellnummer Order number	Kegel Cone	ISO	D	L	A
BT 40	B40.0730.60	BT 40	SK30 - BT30	50	33	60
	B40.0740.100	BT 40	SK40 - BT40	63	73	100
BT 50	B50.0740.70	BT 50	SK40 - BT40	70	32	70
	B50.0750.120	BT 50	SK50 - BT50	97	82	120





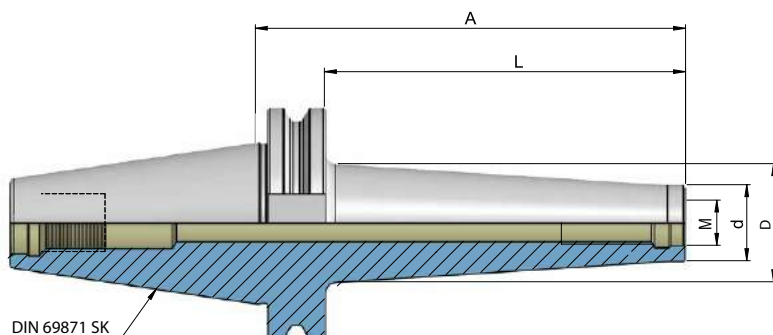
Fräsaufnahme für Einschraubfräser

Milling cutter arbors for screw-on type

Bestellnummer Order number	Kegel Cone	M	d	D	L	A
S40.0806.44	SK 40	M6	10	13	25	44
S40.0806.69	SK 40	M6	10	20	50	69
S40.0806.94	SK 40	M6	10	23	75	94
S40.0808.44	SK 40	M8	13	15	25	44
S40.0808.69	SK 40	M8	13	23	50	69
S40.0808.94	SK 40	M8	13	23	75	94
S40.0808.119	SK 40	M8	13	25	100	119
S40.0810.24	SK 40	M10	18	18	5	24
S40.0810.44	SK 40	M10	18	20	25	44
S40.0810.69	SK 40	M10	18	23	50	69
S40.0810.94	SK 40	M10	18	28	75	94
S40.0810.119	SK 40	M10	18	32	100	119
S40.0810.169	SK 40	M10	18	36	150	169
S40.0812.24	SK 40	M12	21	21	5	24
S40.0812.44	SK 40	M12	21	24	25	44
S40.0812.69	SK 40	M12	21	27	50	69
S40.0812.94	SK 40	M12	21	30	75	94
S40.0812.119	SK 40	M12	21	33	100	119
S40.0812.144	SK 40	M12	21	36	125	144
S40.0812.169	SK 40	M12	21	40	150	169
S40.0816.24	SK 40	M16	29	29	5	24
S40.0816.44	SK 40	M16	29	29	25	44
S40.0816.69	SK 40	M16	29	32	50	69
S40.0816.94	SK 40	M16	29	34	75	94
S40.0816.119	SK 40	M16	29	36	100	119
S40.0816.144	SK 40	M16	29	40	125	144
S40.0816.169	SK 40	M16	29	42	150	169

SK 40





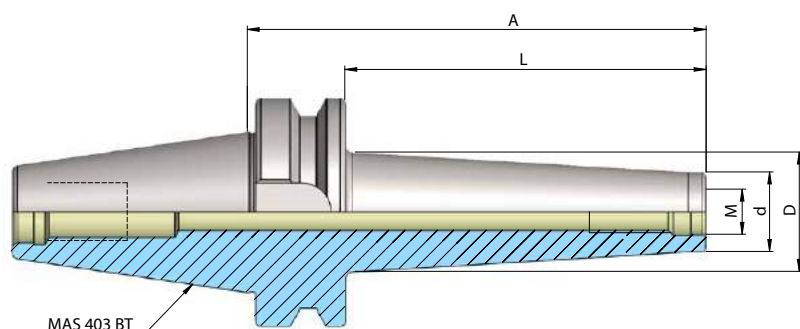
Fräsaufnahme für Einschraubfräser

Milling cutter arbors for screw-on type

Bestellnummer Order number	Kegel Cone	M	d	D	L	A
S50.0806.69	SK 50	M6	13	23	50	69
S50.0806.119	SK 50	M6	13	25	100	119
S50.0806.169	SK 50	M6	13	30	150	169
S50.0808.69	SK 50	M8	13	23	50	69
S50.0808.119	SK 50	M8	13	25	100	119
S50.0808.169	SK 50	M8	13	30	150	169
S50.0810.69	SK 50	M10	18	23	50	69
S50.0810.119	SK 50	M10	18	32	100	119
S50.0810.169	SK 50	M10	18	36	150	169
S50.0812.69	SK 50	M12	21	24	50	69
S50.0812.119	SK 50	M12	21	33	100	119
S50.0812.169	SK 50	M12	21	40	150	169
S50.0816.69	SK 50	M16	29	34	50	69
S50.0816.119	SK 50	M16	29	36	100	119
S50.0816.169	SK 50	M16	29	42	150	169

SK 50





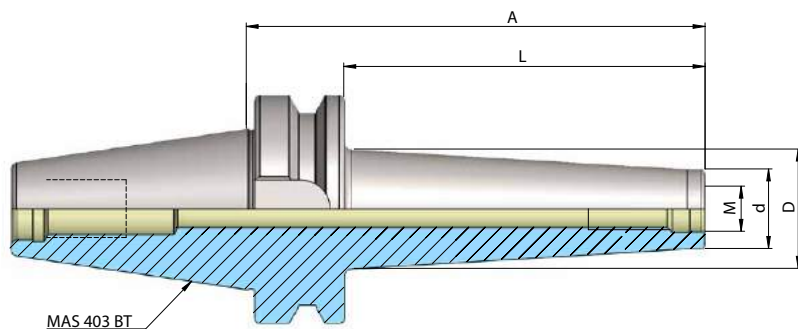
Fräsaufnahme für Einschraubfräser

Milling cutter arbors for screw-on type

Bestellnummer Order number	Kegel Cone	M	d	D	L	A
B40.0806.52	BT 40	M6	10	13	25	52
B40.0806.77	BT 40	M6	10	28	50	77
B40.0806.102	BT 40	M6	10	28	75	102
B40.0808.52	BT 40	M8	13	15	25	52
B40.0808.77	BT 40	M8	13	23	50	77
B40.0808.102	BT 40	M8	13	23	75	102
B40.0808.127	BT 40	M8	13	25	100	127
B40.0810.52	BT 40	M10	18	20	25	52
B40.0810.77	BT 40	M10	18	23	50	77
B40.0810.102	BT 40	M10	18	26	75	102
B40.0810.127	BT 40	M10	18	29	100	127
B40.0810.152	BT 40	M10	18	32	125	152
B40.0812.52	BT 40	M12	21	24	25	52
B40.0812.77	BT 40	M12	21	27	50	77
B40.0812.102	BT 40	M12	21	30	75	102
B40.0812.127	BT 40	M12	21	33	100	127
B40.0812.152	BT 40	M12	21	36	125	152
B40.0816.32	BT 40	M16	29	29	5	32
B40.0816.52	BT 40	M16	29	29	25	52
B40.0816.77	BT 40	M16	29	32	50	77
B40.0816.102	BT 40	M16	29	34	75	102
B40.0816.127	BT 40	M16	29	37	100	127
B40.0816.152	BT 40	M16	29	40	125	152



BT 40

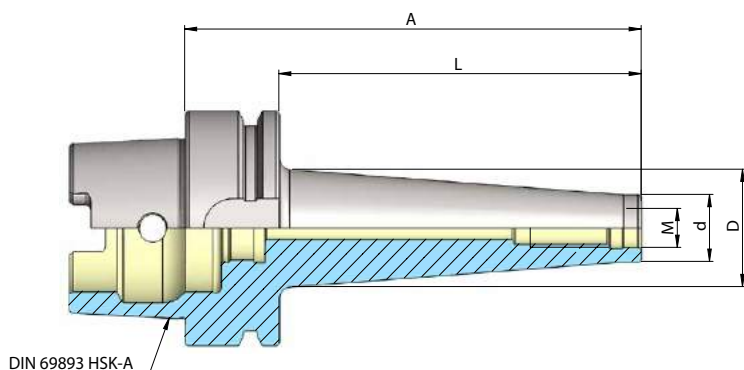


Fräsaufnahme für Einschraubfräser

Milling cutter arbors for screw-on type

Bestellnummer Order number	Kegel Cone	M	d	D	L	A
B50.0808.88	BT 50	M8	13	23	50	88
B50.0808.138	BT 50	M8	13	25	100	138
B50.0808.188	BT 50	M8	13	30	150	188
B50.0810.88	BT 50	M10	18	23	50	88
B50.0810.138	BT 50	M10	18	32	100	138
B50.0810.188	BT 50	M10	18	36	150	188
B50.0812.88	BT 50	M12	21	24	50	88
B50.0812.138	BT 50	M12	21	33	100	138
B50.0812.188	BT 50	M12	21	40	150	188
B50.0816.88	BT 50	M16	29	34	50	88
B50.0816.138	BT 50	M16	29	36	100	138
B50.0816.188	BT 50	M16	29	42	150	188



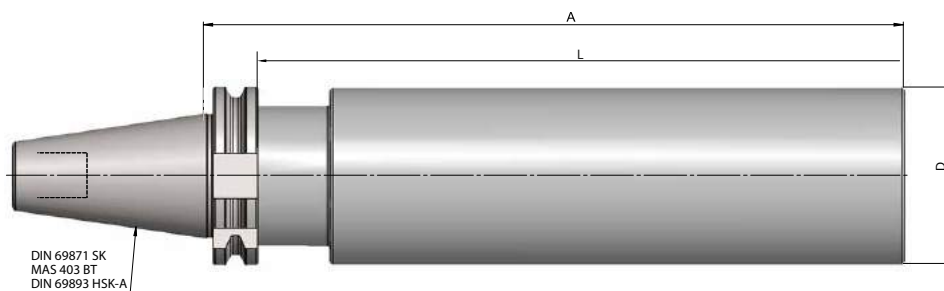


Fräsaufnahme für Einschraubfräser Milling cutter arbors for screw-on type

	Bestellnummer Order number	Kegel Cone	M	d	D	L	A
HSK 63	A63.0806.51	HSK 63	M6	10	13	25	51
	A63.0808.51	HSK 63	M8	13	15	25	51
	A63.0808.76	HSK 63	M8	13	23	50	76
	A63.0808.101	HSK 63	M8	13	23	75	101
	A63.0810.51	HSK 63	M10	18	20	25	51
	A63.0810.76	HSK 63	M10	18	23	50	76
	A63.0810.126	HSK 63	M10	18	32	100	126
	A63.0810.176	HSK 63	M10	18	36	150	176
	A63.0812.51	HSK 63	M12	21	24	25	51
	A63.0812.76	HSK 63	M12	21	27	50	76
	A63.0812.101	HSK 63	M12	21	30	75	101
	A63.0812.126	HSK 63	M12	21	33	100	126
	A63.0812.176	HSK 63	M12	21	40	150	176
	A63.0816.51	HSK 63	M16	29	29	25	51
	A63.0816.76	HSK 63	M16	29	32	50	76
	A63.0816.101	HSK 63	M16	29	34	75	101
	A63.0816.126	HSK 63	M16	29	36	100	126
	A63.0816.176	HSK 63	M16	29	42	150	176
HSK 100	A100.0808.79	HSK 100	M8	13	23	50	79
	A100.0810.79	HSK 100	M10	18	23	50	79
	A100.0810.129	HSK 100	M10	18	32	100	129
	A100.0810.179	HSK 100	M10	18	36	150	179
	A100.0812.79	HSK 100	M12	21	24	50	79
	A100.0812.129	HSK 100	M12	21	33	100	129
	A100.0812.179	HSK 100	M12	21	40	150	179
	A100.0816.79	HSK 100	M16	29	34	50	79
	A100.0816.129	HSK 100	M16	29	36	100	129
	A100.0816.179	HSK 100	M16	29	42	150	179



DIN ISO 7388-1 A (DIN 69871) SK



Bohrstangenrohling zur Anfertigung von Sonderwerkzeugen

Boring bar blanks for the production of special tools

	Bestellnummer Order number	Kegel Cone	D	L	A
SK	S40.1063.250	SK 40	63	234	250
	S50.1097.315	SK 50	97	299	315

DIN ISO 7388-2 A (JIS B 6339 MAS 403 BT)

Bohrstangenrohling zur Anfertigung von Sonderwerkzeugen

Boring bar blanks for the production of special tools

	Bestellnummer Order number	Kegel Cone	D	L	A
BT	B40.1063.250	BT 40	63	223	250
	B50.1097.315	BT 50	97	277	315

ISO 12164-1 (DIN 69893-1) HSK FORM A

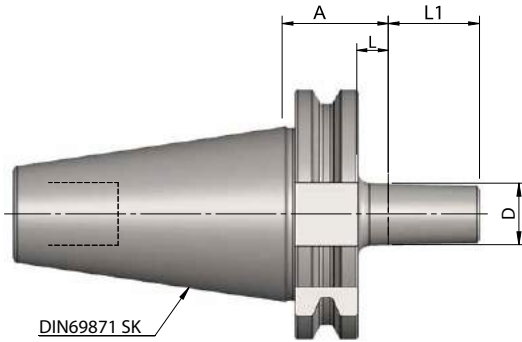
Bohrstangenrohling zur Anfertigung von Sonderwerkzeugen

Boring bar blanks for the production of special tools

	Bestellnummer Order number	Kegel Cone	D	L	A
HSK	A50.1050.150	HSK 50	50	124	150
	A63.1063.160	HSK 63	63	134	160
	A100.1097.250	HSK 100	97	221	250



DIN ISO 7388-1 A (DIN 69871) SK



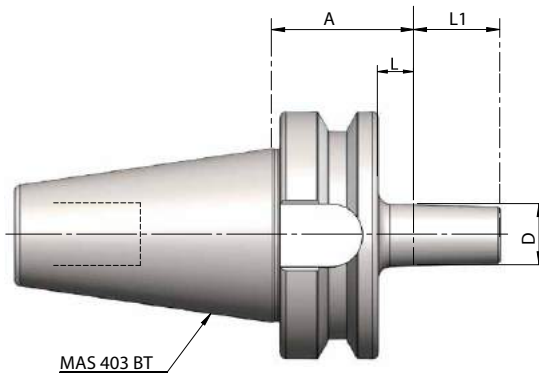
Bohrfutteraufnahme DIN 238

Drill chuck adaptor DIN 238

	Bestellnummer Order number	Kegel Cone	D	L	L1	A
SK 30	S30.0912.38	SK 30	B12	19	18	38
	S30.0916.40	SK 30	B16	21	24	40
SK 40	S40.0912.25	SK 40	B12	6	18	25
	S40.0916.25	SK 40	B16	6	24	25
	S40.0918.35	SK 40	B18	16	32	35
SK 50	S50.0916.25	SK 50	B16	6	24	25
	S50.0918.25	SK 50	B18	6	32	25



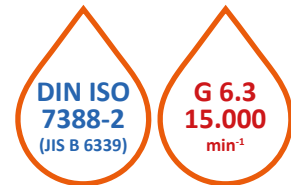
DIN ISO 7388-2 A (JIS B 6339 MAS 403 BT)



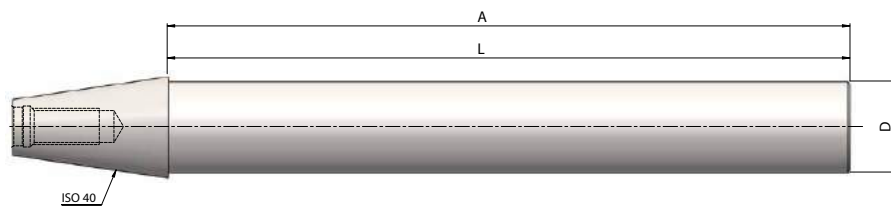
Bohrfutteraufnahme DIN 238

Drill chuck adaptor DIN 238

	Bestellnummer Order number	Kegel Cone	D	L	L1	A
BT 30	B30.0912.25	BT 30	B12	3	18	25
	B30.0916.25	BT 30	B16	3	24	25
BT 40	B40.0912.32	BT 40	B12	5	18	32
	B40.0916.32	BT 40	B16	5	24	32
	B40.0918.32	BT 40	B18	5	32	32
BT 50	B50.0916.43	BT 50	B16	5	24	43
	B50.0918.43	BT 50	B18	5	32	43



DIN ISO 7388-1 A (DIN 69871) SK



Kontrolldorne

Test arbors

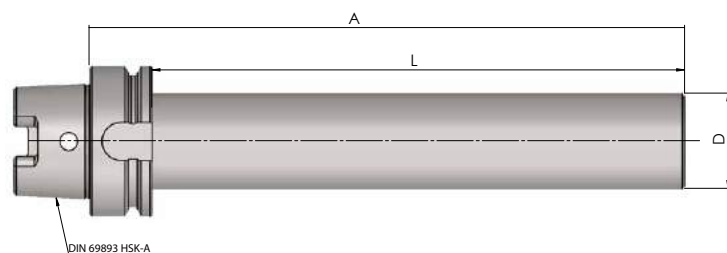
	Bestellnummer Order number	Kegel Cone	D	L	A
SK	S30.1232.200	SK 30	32	200	200
	S40.1240.300	SK 40	40	300	300
	S50.1250.300	SK 50	50	300	300

DIN ISO 7388-2 A (JIS B 6339 MAS 403 BT)

Kontrolldorne

Test arbors

	Bestellnummer Order number	Kegel Cone	D	L	A
BT	B30.1232.200	BT 30	32	200	200
	B40.1240.300	BT 40	40	300	300
	B50.1250.300	BT 50	50	300	300



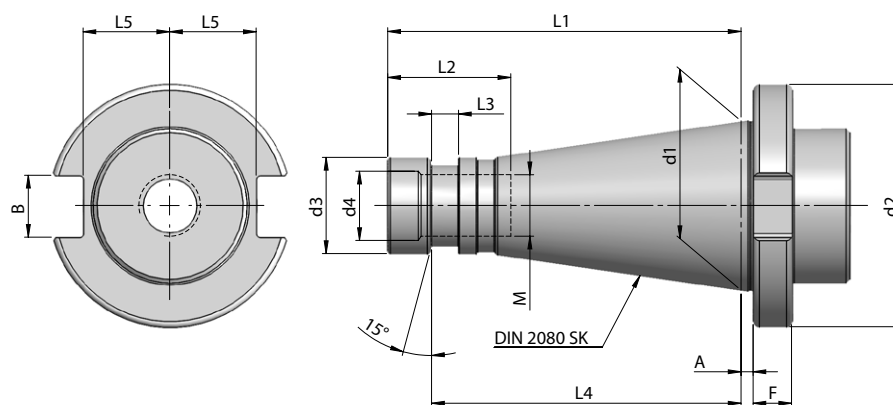
ISO 12164-1 (DIN 69893-1) HSK FORM A

Kontrolldorne

Test arbors

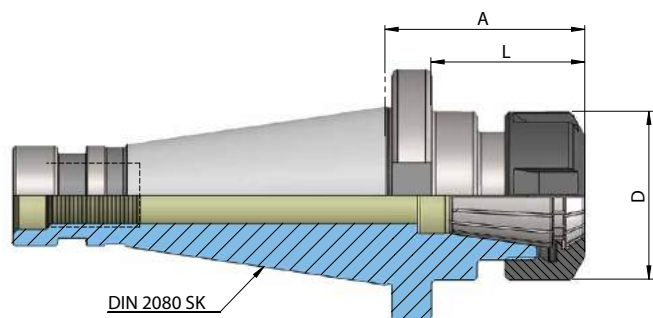
	Bestellnummer Order number	Kegel Cone	D	L	A
HSK	A50.1232.200	HSK 50	32	174	200
	A63.1240.300	HSK 63	40	274	300
	A100.1250.300	HSK 100	50	271	300





DIN 2080 SK

Größe	Ø d1	Ø d2	Ø d3	Ø d4	M	A	F	L1	L2	L3	L4	L5	B
SK40	44,45	63	25	17	M16	1,6	10	93,4	32	7	82	22,5	16,1
SK50	69,85	97,5	39	25	M24	3,2	12	126,8	47	****	****	35,3	25,7



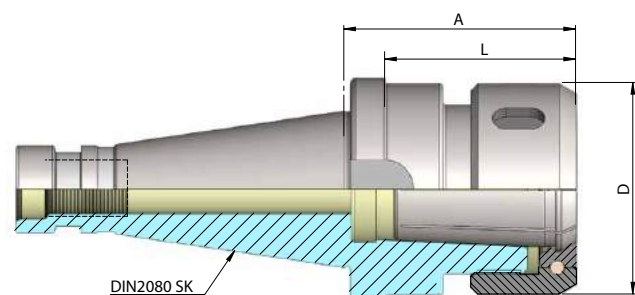
Spannzangenfutter DIN 6499 ER

Collet chucks for collets DIN 6499 ER

	Bestellnummer Order number	Kegel Cone	Spannbereich Capacity	D	L	A
SK 40	D40.0116.50	SK 40	1 - 10	28	38	50
	D40.0125.50	SK 40	2 - 16	42	38	50
	D40.0132.50	SK 40	2 - 20	50	38	50
	D40.0140.80	SK 40	3 - 26	63	68	80
SK 50	D50.0132.63	SK 50	2 - 20	50	48	63
	D50.0140.63	SK 50	3 - 26	63	48	63



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Accessories _____ Page 80



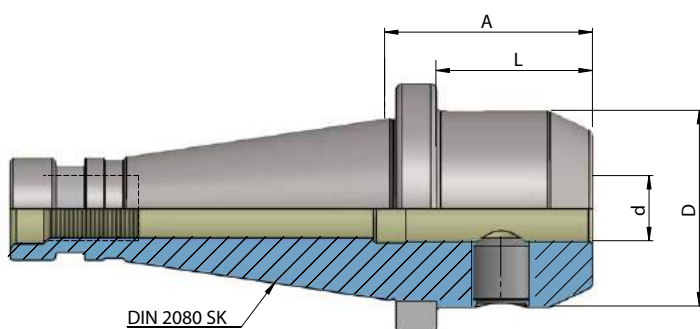
Spannfutter DIN 6391 für Spannzangen DIN 6388-OZ

Collet chucks DIN 6391 for collets DIN 6388-OZ

	Bestellnummer Order number	Kegel Cone	Spannbereich Capacity	D	L	A
SK 40	D40.0116.55.OZ	SK 40	2 - 16	43	43	55
	D40.0125.66.OZ	SK 40	2 - 25	60	54	66
	D40.0125.95.OZ	SK 40	3 - 32	72	83	95
SK 50	D50.0125.71.OZ	SK 50	2 - 25	60	59	71
	D50.0132.73.OZ	SK 50	3 - 32	72	58	73



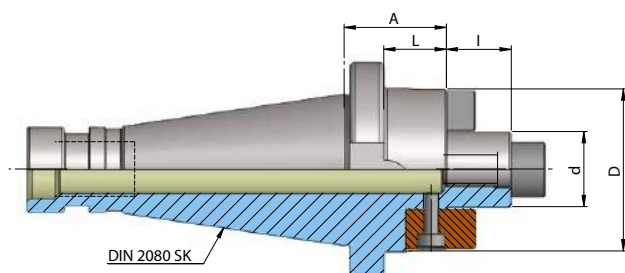
Zubehör _____ Seite 80
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Fräseraufnahme DIN 6359 Zylinderschäfte DIN 1835-B End mill holder DIN 6359 for weldon DIN 1835-B

	Bestellnummer Order number	Kegel Cone	d	D	L	A
SK 40	D40.0206.50	SK40	6	25	38	50
	D40.0208.50	SK40	8	28	38	50
	D40.0210.50	SK40	10	35	38	50
	D40.0212.50	SK40	12	42	38	50
	D40.0214.50	SK40	14	45	38	50
	D40.0216.63	SK40	16	48	51	63
	D40.0218.63	SK40	18	50	51	63
	D40.0220.63	SK40	20	52	51	63
	D40.0225.80	SK40	25	63	68	80
	D40.0232.80	SK40	32	72	68	80
	D40.0240.90	SK40	40	80	78	90
SK 50	D50.0206.63	SK50	6	25	48	63
	D50.0208.63	SK50	8	28	48	63
	D50.0210.63	SK50	10	35	48	63
	D50.0212.63	SK50	12	42	48	63
	D50.0214.63	SK50	14	45	48	63
	D50.0216.63	SK50	16	48	48	63
	D50.0218.63	SK50	18	50	48	63
	D50.0220.63	SK50	20	52	48	63
	D50.0225.80	SK50	25	65	65	80
	D50.0232.80	SK50	32	72	65	80
	D50.0240.90	SK50	40	80	75	90



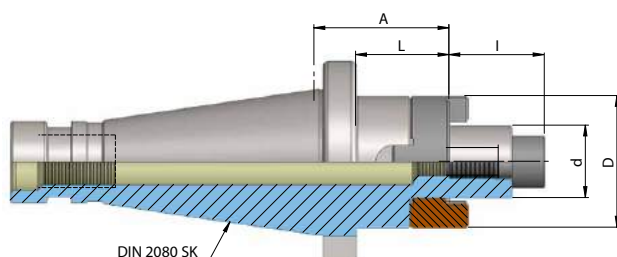


Quernut-Aufsteckfräsdorn DIN 6357 mit vergrößertem Bonddurchmesser Shell mill holder DIN 6357 for cutters with driving slot

	Bestellnummer Order number	Kegel Cone	d	D	I	L	A
SK 40	D40.0316.30	SK40	16	48	17	18	30
	D40.0322.30	SK40	22	48	19	18	30
	D40.0327.30	SK40	27	58	21	18	30
	D40.0332.30	SK40	32	78	24	18	30
	D40.0340.30	SK40	40	88	27	18	30
SK 50	D50.0322.35	SK50	22	48	19	20	35
	D50.0327.35	SK50	27	58	21	20	35
	D50.0332.40	SK50	32	78	24	25	40
	D50.0340.33	SK50	40	88	27	18	33
	D50.0360.55	SK50	60	128	40	40	55



Zubehör — Seite 78
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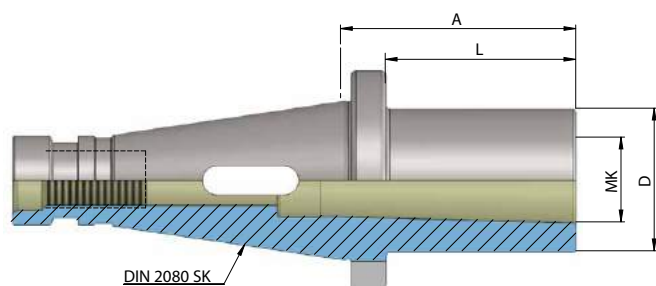


Kombi-Aufsteckfräsdorn DIN 6358 Combi shell mill holder DIN 6358

	Bestellnummer Order number	Kegel Cone	d	D	I	L	A
SK 40	D40.0416.52	SK40	16	32	17	40	52
	D40.0422.52	SK40	22	40	19	40	52
	D40.0427.52	SK40	27	48	21	40	52
	D40.0432.52	SK40	32	58	24	40	52
	D40.0440.52	SK40	40	70	27	40	52
SK 50	D50.0416.55	SK50	16	32	17	40	55
	D50.0422.55	SK50	22	40	19	40	55
	D50.0427.55	SK50	27	48	21	40	55
	D50.0432.55	SK50	32	58	24	40	55
	D50.0440.55	SK50	40	70	27	40	55



Zubehör — Seite 78-80
Accessories — Page 78-80



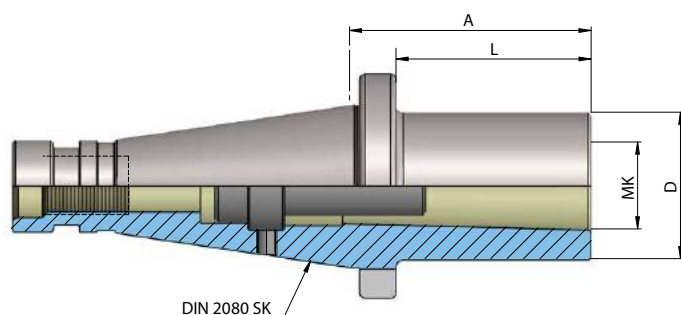
Zwischenhülse für MK mit Austreiblappen DIN 6383

Morse taper adaptor DIN 6383

	Bestellnummer Order number	Kegel Cone	MK	D	L	A
SK 40	D40.0501.50	SK40	1	25	38	50
	D40.0502.50	SK40	2	32	38	50
	D40.0503.65	SK40	3	40	53	65
	D40.0504.95	SK40	4	48	83	95
SK 50	D50.0501.45	SK50	1	25	30	45
	D50.0502.60	SK50	2	32	45	60
	D50.0503.65	SK50	3	40	50	65
	D50.0504.70	SK50	4	48	55	70
	D50.0505.105	SK50	5	63	90	105



DIN 2080 SK

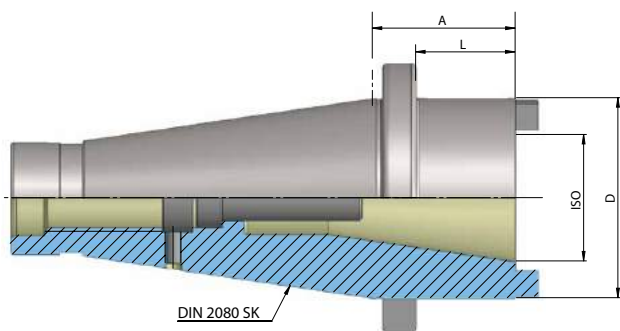


Zwischenhülse für MK mit Anzugsgewinde DIN 6364

Morse taper adaptor with thread DIN 6364

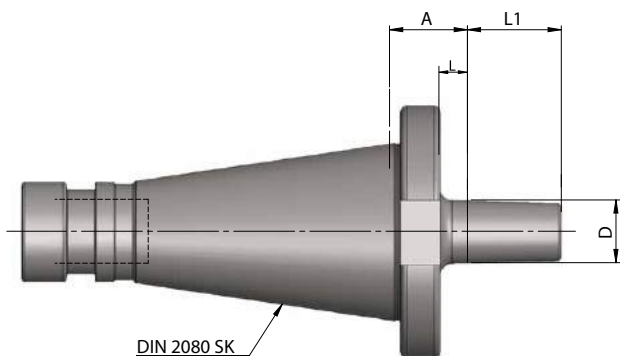
	Bestellnummer Order number	Kegel Cone	MK	D	L	A
SK 40	D40.0601.50	SK40	1	25	38	50
	D40.0602.50	SK40	2	32	38	50
	D40.0603.65	SK40	3	40	53	65
	D40.0604.95	SK40	4	48	83	95
SK 50	D50.0601.60	SK50	1	25	45	60
	D50.0602.60	SK50	2	32	45	60
	D50.0603.65	SK50	3	40	50	65
	D50.0604.65	SK50	4	48	50	65
	D50.0605.120	SK50	5	63	105	120





Zwischenhülse/Reduzierhülse Reduction sleeves

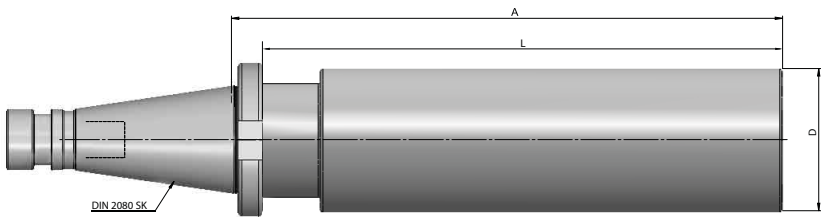
	Bestellnummer Order number	Kegel Cone	ISO	D	L	A
SK 40	D40.0730.50	SK40	SK30 - BT30	50	38	50
	D40.0740.100	SK40	SK40 - BT40	63	88	100
SK 50	D50.0740.50	SK50	SK40 - BT40	70	35	50
	D50.0750.125	SK50	SK50 - BT50	97	110	125



Bohrfutteraufnahme DIN 238 Drill chuck adaptor DIN 238

	Bestellnummer Order number	Kegel Cone	D	L	L1	A
SK 40	D40.0912.15	SK 40	B12	3	18	15
	D40.0916.17	SK 40	B16	5	24	17
	D40.0918.17	SK 40	B18	5	32	17
SK 50	D50.0916.20	SK 50	B16	5	24	20
	D50.0918.20	SK 50	B18	5	32	20

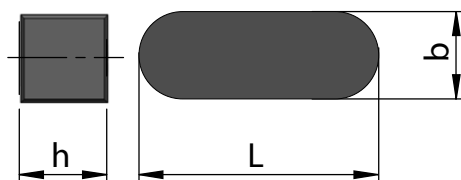




Bohrstangenrohling zur Anfertigung von Sonderwerkzeugen
Boring bar blanks for the production of special tools

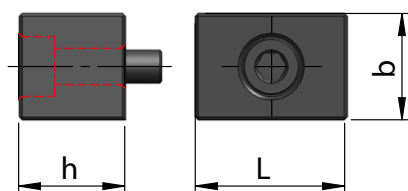
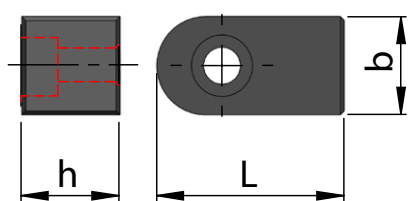
	Bestellnummer Order number	Kegel Cone	D	L	A
SK	D40.1063.250	SK 40	63	238	250
	D50.1097.315	SK50	97	300	315

Mitnehmersteine mit Schraube Drive Key



Bestellnummer Order Number	Produktname Product Name	b	h	L
Z.PF.K416.20	Paßfeder K 16 Kombi	4	4	20
Z.PF.K422.20	Paßfeder K 22 Kombi	6	6	20
Z.PF.K427.25	Paßfeder K 27 Kombi	7	7	25
Z.PF.K432.28	Paßfeder K 32 Kombi	7	8	28
Z.PF.K440.32	Paßfeder K 40 Kombi	8	10	32

Mitnehmersteine mit Schraube Drive Key

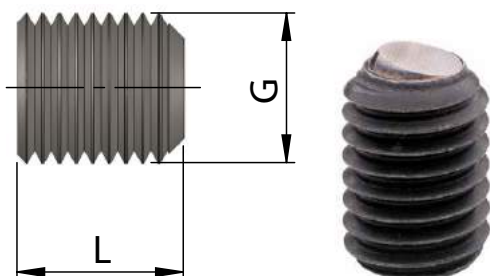


Bestellnummer Order Number	Produktname Product Name	b	h	L	FIG
Z.MS.Q316.17	Q 16 QUERNUT	8	9	17	FIG1
Z.MS.Q322.17	Q 22 QUERNUT	10	10	17	FIG1
Z.MS.Q327.23	Q 27 QUERNUT	12	12	23	FIG1
Z.MS.Q332.27	Q 32 QUERNUT	14	15	27	FIG1
Z.MS.Q340.28	Q 40 QUERNUT	16	16	28	FIG1
Z.MS.Q327.14	Q 27 QUERNUT	12	12	14	FIG2
Z.MS.Q332.22	Q 32 QUERNUT	14	14	22	FIG2
Z.MS.Q340.23	Q 40 QUERNUT	16	16	23	FIG2

Zubehör / Accessories

Whistle-Notch-Spannschraube

Clamping screw for weldon- and Whistle-Notch



Bestellnummer Order Number	Produktname Product Name	G	L
Z.SCH.M6X10WN	WELDON 6	M6	10
Z.SCH.M8X10WN	WELDON 8	M8	10
Z.SCH.M10X12WN	WELDON 10	M10	12
Z.SCH.M12X16WN	WELDON 12-14	M12	16
Z.SCH.M14X16WN	WELDON 16-18	M14	16
Z.SCH.M16X16WN	WELDON 20	M16	16
Z.SCH.M18X2X20WN	WELDON 25	M18x2	20
Z.SCH.M20X2X20WN	WELDON 32-40	M20x2	20

Weldon-Spannschraube DIN 1835 B

Screw for weldon DIN 1835 B



Bestellnummer Order Number	Produktname Product Name	G	L
Z.SCH.M6X10	WELDON 6	M6	10
Z.SCH.M8X10	WELDON 8	M8	10
Z.SCH.M10X12	WELDON 10	M10	12
Z.SCH.M12X16	WELDON 12-14	M12	16
Z.SCH.M14X16	WELDON 16-18	M14	16
Z.SCH.M16X16	WELDON 20	M16	16
Z.SCH.M18X2X20	WELDON 25	M18x2	20
Z.SCH.M20X2X20	WELDON 32-40	M20x2	20

Spannschrauben DIN 913 - DIN 914

Clamping Screw DIN 913 - DIN 914



Bestellnummer Order Number	Produktname Product Name	G	L
Z.SCH.M10X1X12	BOHRERHALTER 20	M10x1	12
Z.SCH.M12X1X12	BOHRERHALTER 25	M12x1	12
Z.SCH.M12X1X12	BOHRERHALTER 32	M12x1	12
Z.SCH.M16X1X12	BOHRERHALTER 40-50	M16x1	12
Z.SCH.M10X1X14	BOHRERHALTER 20	M10x1	14
Z.SCH.M12X1X14	BOHRERHALTER 25	M12x1	14
Z.SCH.M12X1X14	BOHRERHALTER 32	M12x1	14
Z.SCH.M16X1X14	BOHRERHALTER 40-50	M16x1	14

Spannschrauben DIN 1835 B

Clamping Screw DIN 1835 B



Bestellnummer Order Number	Produktname Product Name	G	L
SCH.M16X14K	WELDON KURZ 20	M16	16
SCH.M16X1X8K	WELDON KURZ 25-32	M16x1	8
SCH.M16X1X10K	WELDON KURZ 25-32	M16x1	12

Spannmutter ER DIN 6499/ DIN 6388 (OZ) Standardausführung mit Exzenterring - gewuchtet

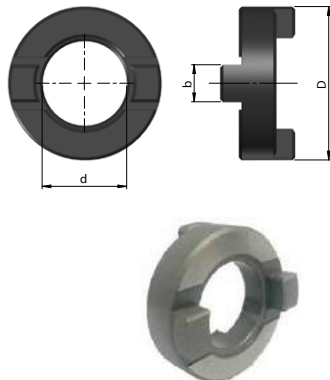
Clamping nuts ER DIN 6499 / DIN 6388 - balanced



Bestellnummer Order Number	Produktname Product Name	M	D
Z.SM16.ER16.6KT	ER 16 SW 25	M22 x 1,5	28
Z.SM20.ER20	ER 20	M25 x 1,5	35
Z.SM25.ER25	ER 25	M32 x 1,5	42
Z.SM32.ER32	ER 32	M40 x 1,5	50
Z.SM40.ER40	ER 40	M50 x 1,5	63
Z.SM11.ER11.M	ER 11 MINI	M13 x 0,75	16
Z.SM16.ER16.M	ER 16 MINI	M19 x 1,0	22
Z.SM20.ER20.M	ER 20 MINI	M24 x 1,0	28
Z.SM25.ER25.M	ER 25 MINI	M30 x 1,0	35
Z.SM16.E410.OZ	410 E	M33 x 1,5	43
Z.SM25.E444.OZ	444 E	M48 x 2,0	60
Z.SM32.E450.OZ	450 E	M60 x 2,5	72

Mitnehmerringe DIN 6366

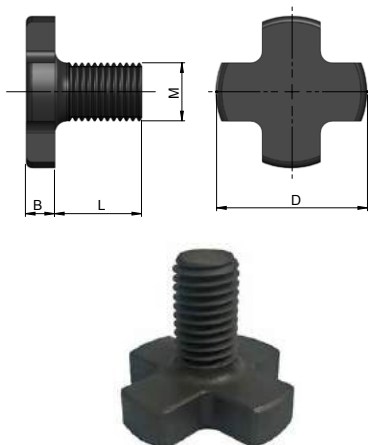
Clutch drive rings to DIN 6366



Bestellnummer Order Number	Produktname Product Name	d	D	b
Z.MR.K416.16	Q 16 KOMBI	16	32	8
Z.MR.K422.22	Q 22 KOMBI	22	40	10
Z.MR.K427.27	Q 27 KOMBI	27	48	12
Z.MR.K432.32	Q 32 KOMBI	32	58	14
Z.MR.K440.40	Q 40 KOMBI	40	70	16

Fräseranzugschrauben DIN 6367

Drawn in bolt DIN 6367



Bestellnummer Order Number	Produktname Product Name	M	D	L	B
Z.FAS.K16.M8	M8 Q16 KOMBI	M8	20	16	6
Z.FAS.K22.M10	M10 Q 22 KOMBI	M10	28	18	7
Z.FAS.K27.M12	M12 Q 27 KOMBI	M12	35	22	8
Z.FAS.K32.M16	M16 Q 32 KOMBI	M16	42	26	9
Z.FAS.K40.M20	M20 Q 40 KOMBI	M20	52	30	10
Z.FAS.K50.M24	M24 Q 50 KOMBI	M24	63	36	12

Die wichtigsten Vorsatzzeichen und ihre Anwendung

Mega	M	1 000 000 = 10 ⁶	1 MW =	1 000 000 W
Kilo	k	1 000 = 10 ³	1 kW =	1 000 W
Hekto	h	100 = 10 ²	1 hl =	100 l
Deka	da	10	1 daN =	10 N
Dezi	d	0,1 = 10 ⁻¹	1 dm =	0,1 m
Zenti	c	0,01 = 10 ⁻²	1 cm =	0,01 m
Milli	m	0,001 = 10 ⁻³	1 mm =	0,001 m
Mikro	μ	0,000001 = 10 ⁻⁶	1 μm =	0,000001 m

Bisherige Namen und Einheitszeichen, die beibehalten werden

Größe	Namen	Zeichen	Beziehungen zur SI-Einheit
Volumen	Liter	l	1 l = 1 dm ³ = 0,001 m ³
Masse	Tonne	t	1 t = 1 Mg = 1000 kg
Druck	Bar	bar	1 bar = 10 ⁵ Pa
Fläche	Ar	a	1 a = 10 ² m ²
Winkel	Grad	°	1° = 17,45 mrad
	Minute	'	1°/60 = 0,291 mrad
	Sekunde	"	1°/60 = 4,85 rad
Zeit	Minute	min	1 min = 60 s
	Stunde	h	1 h = 3600 s
Geschwindigkeit		km/h	1 km/h = 1/3,6 m/s
			1 m/s = 3,6 km/h

Durch das SI-System kann eindeutig zwischen Kraft einerseits und Masse (Gewicht) andererseits unterschieden und die Verwirrung zwischen den Begriffen kp und kg ausgeräumt werden.

Die Einheit der Kraft ist das Newton (N)
Die Einheit der Masse (Gewicht) ist das Kilogramm (kg)
Der Unterschied wird durch die Fallbeschleunigung von 9,81 m/s² hervorgerufen.

Die wichtigsten Umrechnungen zwischen den bisherigen und den neuen SI-Einheiten

SI-Einheiten zur bisherigen Einheit:

1 N	=	0,102 kp
1 Nm	=	0,102 kpm (= 1 Joule)
1 W	=	0,102 kpm/s (= 1 J/s)
1 kW	=	1,36 PS
1 KW	=	860 kcal/h
1 J	=	0,102 kpm
1 J	=	0,239 cal
1 Pa	= (1 N/m ²)	= 0,102 kp/m ²
K	=	°C + 273,15

Bisherige Einheit zur SI-Einheit:

1 kp	=	9,81 N
1 kpm	=	9,81 Nm
1 kpm/s	=	9,81 W
1 PS	=	0,736 kW
1 kcal/h	=	1,16 · 10 ⁻³ kW = 0,00116 kW
1 kpm	=	9,81 J
1 cal	=	4,19 J
1 kp/m ²	=	9,81 Pa = 9,81 N/m ²

Aus den Tabellen ist zu ersehen, dass
1 kp = 9,81 N bzw. 1 N = 0,102 kp ist.

Mit einer Fehlerquote von nur 2 Prozent liegen kp und N um den Faktor 10 auseinander.

In der Praxis rechnet man daher mit folgenden Werten:

1 kp	=	10 N
1 N	=	0,1 kp

Die wichtigsten SI-Einheiten*

Größe	Name	Zeichen
Länge	Meter	m
Masse	Kilogramm	kg
Zeit	Sekunde	s
Elektr. Stromstärke	Ampere	A
Kraft	Newton	N
Drehmoment	Newtonmeter	Nm
Leistung	Watt	W
Energie (Arbeit)	Joule	J
Druck	Pascal	Pa
Temperatur**	Kelvin	K

Energie/Arbeit (Joule)

Die Energieeinheit hat 3 zahlengleiche Bezeichnungen:

1. Das Newtonmeter Nm (Mechanische Energieform)
2. Die Wattsekunde Ws (Elektrische Energieform)
3. Das Joule J (Kalorische Energieform)

Durch die Wahl der Bezeichnungen kann zum Ausdruck gebracht werden, ob es sich um mechanische, elektrische oder kalorische Energieformen handelt:

1 J = 1 Nm = 1 Ws (in Bezug auf die absolute Größe)

Umrechnung mechanischer Spannungen

Einheit	N/mm ²	PA	kp/mm ²
1 N/mm ²	1	106	0,102
1 PA	10 ⁻⁶	1	0,102 · 10 ⁻⁶
1 kp/mm ²	9,81	9,81 · 106	1

Auch hier wird in der Praxis mit ausreichender Genauigkeit (2 Prozent Abweichung) wie folgt gerechnet:

1 N/mm ²	=	0,1 kp/mm ²
1 kp/mm ²	=	10 N/mm ²

Die Kelvin-Skala beginnt beim absoluten Nullpunkt = - 273,15°C

Folgende Tabelle soll den Zusammenhang °C und K deutlich machen:

	Kelvin	°C
Absoluter Nullpunkt	0 K	- 273,15°
Schmelzpunkt Eis	273,15 K	0 °C
Siedepunkt des Wasser	373,15 K	+ 100°C

In der Praxis wird z.B. die Angabe, das Wasser ist 20°C warm, beibehalten. Nur bei Temperaturdifferenzen muss diese in Kelvin K angegeben werden. Hier entspricht 1°C genau 1 K.
Zum Beispiel: Die Differenz zwischen der Temperatur am Fensterahmen außen und am Fensterahmen innen beträgt 15 K. Das Zeichen ° für Grad entfällt bei der Temperaturangabe in Kelvin.

*) SI-System International d'Unités = Internationales Einheitensystem.

**) Die SI-Einheit für die Temperatur ist das Kelvin.



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