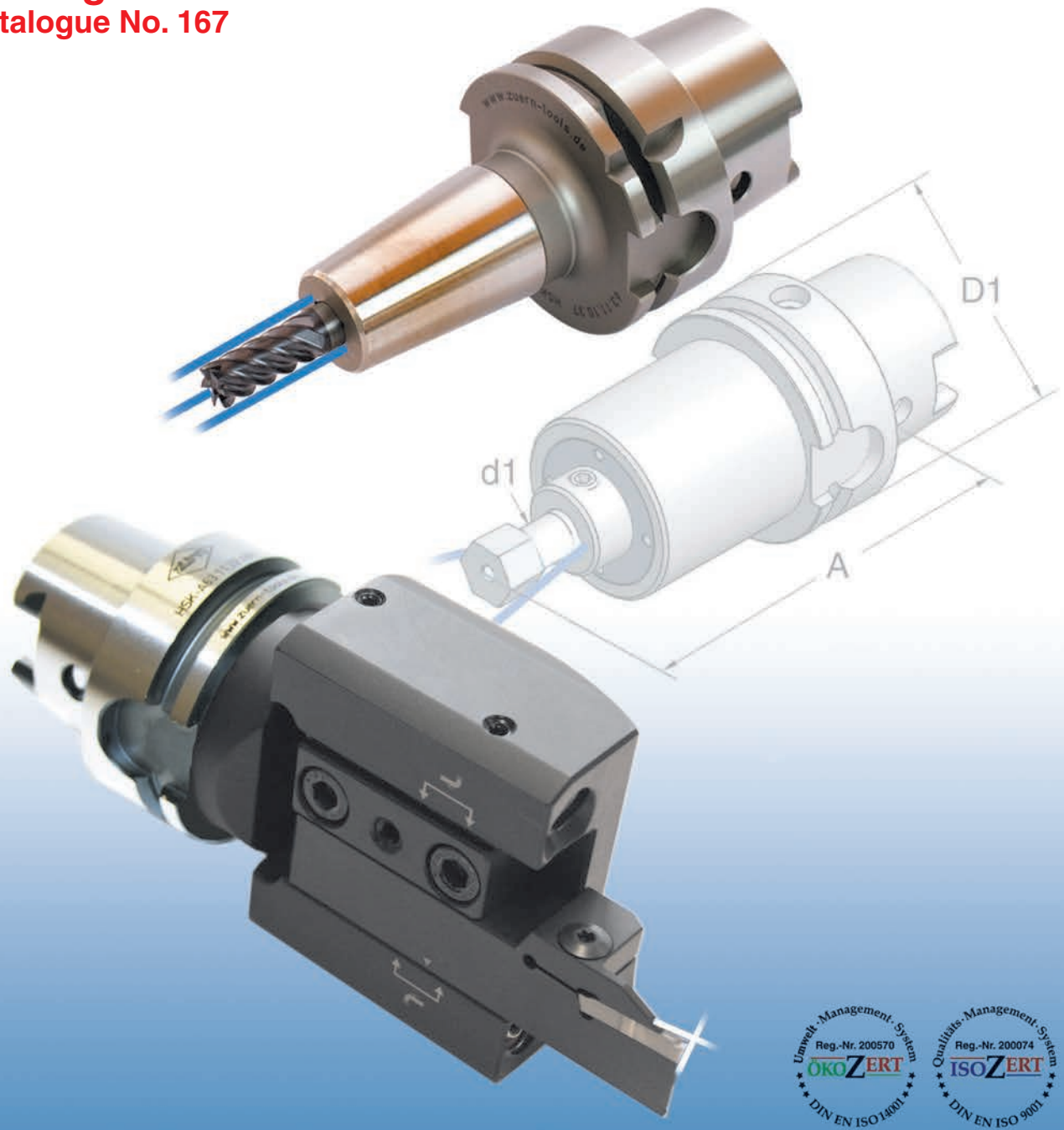
Werkzeugaufnahmen mit Hohlschaftkegel DIN 69893-1 / ISO 12164-3

Toolholders with HSK-taper shank DIN 69893-1 / ISO 12164-3

Katalog Nr. 167
Catalogue No. 167



Umwelt-Management-System Reg.-Nr. 200570 ÖKOZERT DIN EN ISO 14001
Qualitäts-Management-System Reg.-Nr. 200074 ISOZERT DIN EN ISO 9001

Werkzeugaufnahmen mit Hohlschaftkegel DIN 69893-1
Toolholders with HSK-tapers shank DIN 69893-1

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Werkzeugaufnahmen mit Hohlschaftkegel DIN 69893-1
Toolholders with HSK-tapers shank DIN 69893-1

Produktgruppen Product groups	Seite Page
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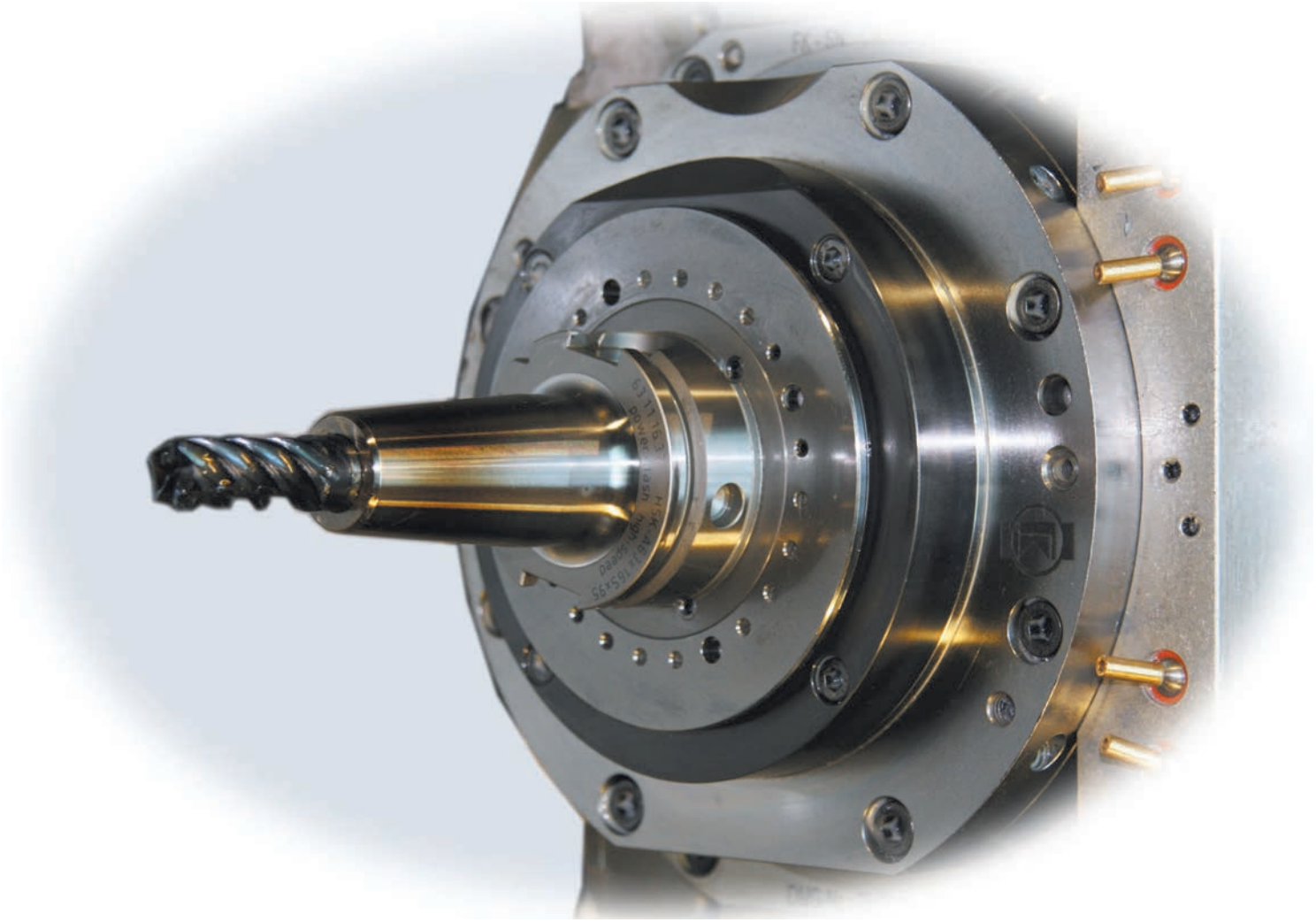
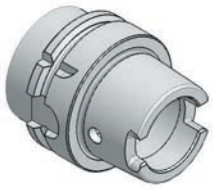


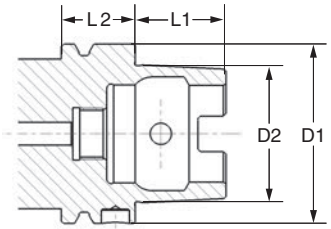
Werkstoff:	Legierter Einsatzstahl mit einer Zugfestigkeit im Kern von min. 800 N/mm²	**Material:**	Case hardened steel, tensile strength in the core min. 800 N/mm²
Ausführung:	Einsatzgehärtet HRc 60 - 2 (HV 700 ± 50) Härtetiefe 0,8 mm - 0,2 Brüniert und Präzisionsgeschliffen	**Execution:**	Case hardened HRc 60 - 2 (HV 700 ± 50) Depth of case 0,8 mm - 0,2 Brown-finish end precision ground
Technische Änderungen vorbehalten		We reserve the right to make technical changes	

Werkzeugaufnahmen mit Hohlschaftkegel DIN 69893-1
Unterscheidungsmerkmale der verschiedenen Formen

Toolholders with HSK-tapers shank DIN 69893-1 - distinctive features of the different forms

HSK - A





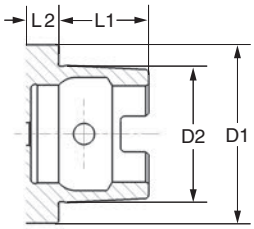
Bevorzugte Ausführung für Bearbeitungszentren

- Automatischer Werkzeugwechsel
- Mitnehmernuten am Kegelende
- Kühlmittelzufuhr zentral durch den Automatikspanner mittels Kühlmittelrohr

Prefered type for machining centres

- Automatic tool change
- Driving slots at cone end
- Central coolant supply through the automatic clamping part by means of coolant tubes

HSK - C



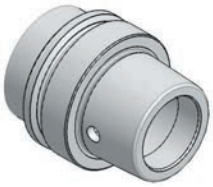
Wie Form A, jedoch für manuellen Werkzeugwechsel

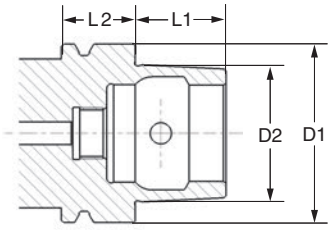
- Kühlmittelzufuhr zentral durch den Spanner, dichtet ohne Kühlmittelrohr ab

As form A, but with manual tool change

- Central coolant supply through the clamping part. Is sealing without coolant tubes

HSK - E





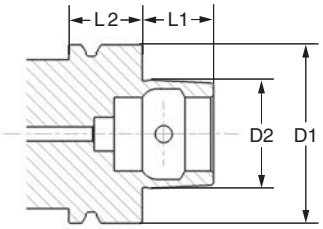
Wie Form A, jedoch absolut rotationssymmetrisch

- Ohne jegliche Mitnehmernuten für Hochgeschwindigkeitsbearbeitung geeignet

As form A, but balanced

- Without any driving slots. Destinated for high speed machining

HSK - F



Wie Form A, jedoch absolut rotationssymmetrisch

- Ohne jegliche Mitnehmernuten für Hochgeschwindigkeitsbearbeitung geeignet

As form A, but balanced

- Without any driving slots. Destinated for high speed machining

	HSK-A40	HSK-A50	HSK-A63	HSK-A100	HSK-C40	HSK-C50	HSK-E40	HSK-E50	HSK-E63	HSK-F50	HSK-F63
D1	40	50	63	100	40	50	40	50	63	50	63
D2	30	38	48	75	30	38	30	38	48	30	38
L1	20	25	32	50	20	25	20	25	32	20	25
L2	20	26	26	29	10	12,5	20	26	26	26	26

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Schleifscheiben-Aufnahmen HSK
Grinding wheel adaptors HSK

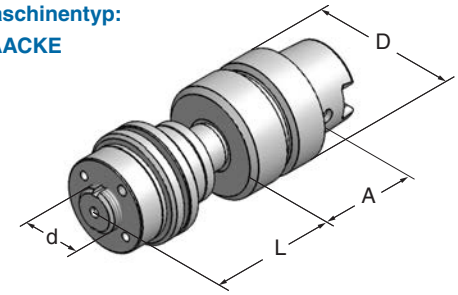
Komplett mit Flanschscheiben
Complete with flange wheel

Sonderausführungen auf Anfrage
Special executions on inquiry

Lieferumfang ohne Schleifscheiben
Delivery without grinding wheel

Bei Bestellung bitte Maschinentyp angeben!

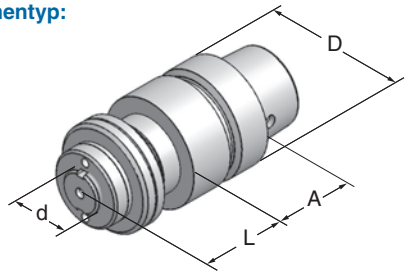
Maschinentyp:
SAACKE



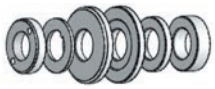
HSK - C 50

Art.-Nr.	Typ	D	d	A	L
111650	HSK-C50x20x106	50	20	40	66
	inclusive				
112650	HSK-C50x20x140	50	20	40	100
	inclusive				

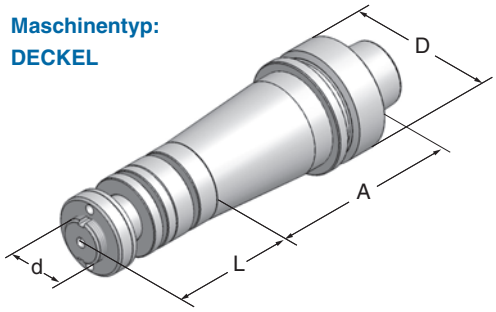
Maschinentyp:
HAAS



HSK - E 50

Art.-Nr.	Typ	D	d	A	L
114650	HSK-E50x20x 82	50	20	42	40
	inclusive				
115650	HSK-E50x20x102	50	20	42	60
	inclusive				

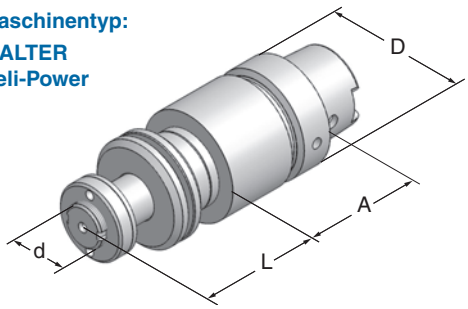
Maschinentyp:
DECKEL



HSK - F 50

Art.-Nr.	Typ	D	d	A	L
125650	HSK-F50x20x118	50	20	58	60
	inclusive				
126650	HSK-F50x20x148	50	20	88	60
	inclusive				

Maschinentyp:
WALTER
Heli-Power



HSK - C 50

Art.-Nr.	Typ	D	d	A	L
131650	HSK-C50x20x115	50	20	55	60
	inclusive				
132650	HSK-C50x20x155	50	20	55	100
	inclusive				

Schleifscheiben-Aufnahmen HSK
Grinding wheel adaptors HSK

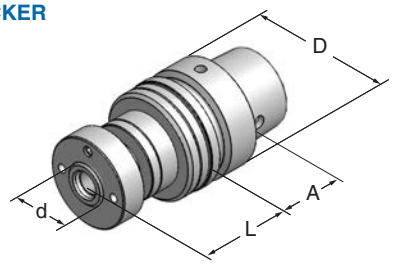
Komplett mit Flanschscheiben
Complete with flange wheel

Sonderausführungen auf Anfrage
Special executions on inquiry

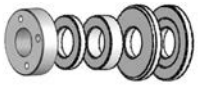
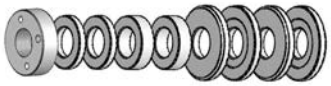
Lieferumfang ohne Schleifscheiben
Delivery without grinding wheel

Bei Bestellung bitte Maschinentyp angeben!

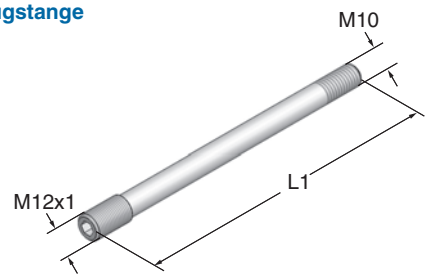
Maschinentyp:
REINECKER



HSK - E 50

Art.-Nr.	Typ	D	d	A	L
129650	HSK-E50xø20x 75	50	20	26	49
	inclusive				
119650	HSK-E50xø20x100	50	20	26	74
	inclusive				
137650	HSK-E50xø20x120	50	20	26	94
	inclusive				

Anzugstange

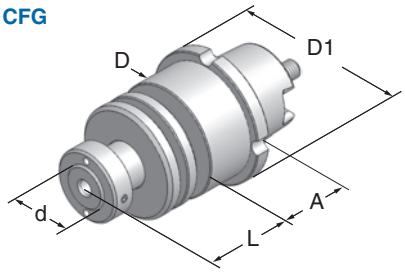


Anzugstange

Art.-Nr.	für Typ	L1
642101	129650	125
643101	119650	150
644101	137650	170

HSK - C 50

Maschinentyp:
SCHNEEBERGER
Norma CFG



Art.-Nr.	Typ	D	D1	d	A	L
138650	HSK-C50xø20x75	50	58	20	30	45
	inclusive					

Spannzangenfutter für Spannzangen ER/ESX DIN 6499 / ISO 15488
Collet chucks for collets ER/ESX DIN 6499 / ISO 15488

Rundlaufgenauigkeit HSK zu Werkzeugaufnahme < 0,005
Concentricity from the taper to the holding part < 0,005

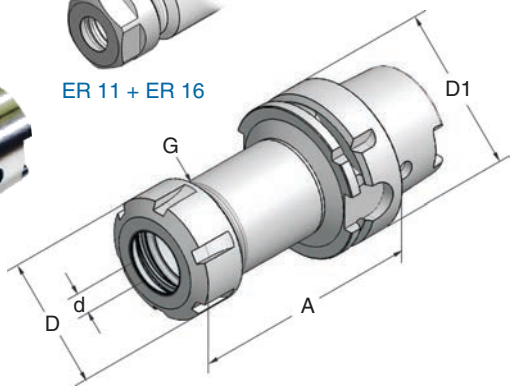
Grundkörper gewuchtet G 2,5 - 20.000 U/min. oder U < 1 gmm
Base-body balanced G 2,5 - 20.000 r.p.m. or U < 1 gmm

Sonderausführungen auf Anfrage
Special executions on inquiry

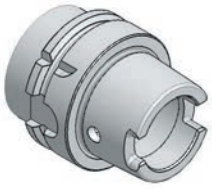
Alternative Spannmuttern siehe Seiten 60-62
Alternative nuts see pages 60-62

Spannzangen siehe Seiten 64+65
Collets see pages 64+65

ER 11 + ER 16



HSK - A



Art.-Nr.	Typ	D1	A	d	D	G
HSK - A 40						
40.11.05.2	HSK-A40xER 8x 70	40	70	1 - 5 424E	12	M10x0,75
40.11.07.2	HSK-A40xER11x 70	40	70	1 - 7 424E	19	M14x0,75
40.11.10.20	HSK-A40xER16x 60	40	60	1-10 426E	28	M22x1,50
40.11.10.2	HSK-A40xER16x 70	40	70	1-10 426E	28	M22x1,50
40.11.10.22	HSK-A40xER16x100	40	100	1-10 426E	28	M22x1,50
40.11.13.2	HSK-A40xER20x 70	40	70	1-13 428E	34	M25x1,50
40.11.16.2	HSK-A40xER25x 70	40	70	1-16 430E	42	M32x1,50
40.11.20.2	HSK-A40xER32x 80	40	80	2-20 470E	50	M40x1,50
HSK - A 50						
50.11.10.2	HSK-A50xER16x100	50	100	1-10 426E	28	M22x1,50
50.11.16.2	HSK-A50xER25x 80	50	80	1-16 430E	42	M32x1,50
50.11.20.2	HSK-A50xER32x100	50	100	2-20 470E	50	M40x1,50
HSK - A 63						
63.11.07.2	HSK-A63xER11x100	63	100	1 - 7 424E	19	M14x0,75
63.11.07.23	HSK-A63xER11x150	63	150	1 - 7 424E	19	M14x0,75
63.11.10.20	HSK-A63xER16x 70	63	70	1-10 426E	28	M22x1,50
63.11.10.2	HSK-A63xER16x100	63	100	1-10 426E	28	M22x1,50
63.11.10.22	HSK-A63xER16x130	63	130	1-10 426E	28	M22x1,50
63.11.10.23	HSK-A63xER16x160	63	160	1-10 426E	28	M22x1,50
63.11.13.2	HSK-A63xER20x100	63	100	1-13 428E	34	M25x1,50
63.11.13.23	HSK-A63xER20x160	63	160	1-13 428E	34	M25x1,50
63.11.16.20	HSK-A63xER25x 80	63	80	1-16 430E	42	M32x1,50
63.11.16.2	HSK-A63xER25x100	63	100	1-16 430E	42	M32x1,50
63.11.16.22	HSK-A63xER25x130	63	130	1-16 430E	42	M32x1,50
63.11.16.23	HSK-A63xER25x160	63	160	1-16 430E	42	M32x1,50
63.11.16.25	HSK-A63xER25x200	63	200	1-16 430E	42	M32x1,50
63.11.20.20	HSK-A63xER32x 70	63	70	2-20 470E	50	M40x1,50
63.11.20.2	HSK-A63xER32x100	63	100	2-20 470E	50	M40x1,50
63.11.20.22	HSK-A63xER32x130	63	130	2-20 470E	50	M40x1,50
63.11.20.23	HSK-A63xER32x160	63	160	2-20 470E	50	M40x1,50
63.11.20.25	HSK-A63xER32x200	63	200	2-20 470E	50	M40x1,50
63.11.26.20	HSK-A63xER40x 80	63	80	3-30 472E	63	M50x1,50
63.11.26.2	HSK-A63xER40x120	63	120	3-30 472E	63	M50x1,50
63.11.26.23	HSK-A63xER40x160	63	160	3-30 472E	63	M50x1,50

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Spannzangenfutter für Spannzangen ER/ESX DIN 6499 / ISO 15488
Collet chucks for collets ER/ESX DIN 6499 / ISO 15488

Rundlaufgenauigkeit HSK zu Werkzeugaufnahme < 0,005
Concentricity from the taper to the holding part < 0,005

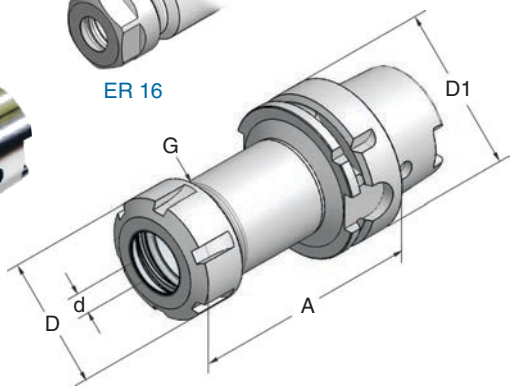
Grundkörper gewuchtet G 2,5 - 15.000 U/min. oder U < 1 gmm
Base-body balanced G 2,5 - 15.000 r.p.m. or U < 1 gmm

Sonderausführungen auf Anfrage
Special executions on inquiry

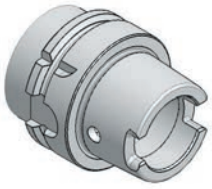
Alternative Spannmuttern siehe Seiten 60-62
Alternative nuts see pages 60-62

Spannzangen siehe Seiten 64+65
Collets see pages 64+65

ER 16



HSK - A



HSK - A 100

Art.-Nr.	Typ	D1	A	d	D	G
100.11.10.2	HSK-A100xER16x100	100	100	1-10 426E	28	M22x1,50
100.11.10.23	HSK-A100xER16x160	100	160	1-10 426E	28	M22x1,50
100.11.10.25	HSK-A100xER16x200	100	200	1-10 426E	28	M22x1,50
100.11.16.2	HSK-A100xER25x100	100	100	1-16 430E	42	M32x1,50
100.11.16.23	HSK-A100xER25x160	100	160	1-16 430E	42	M32x1,50
100.11.16.25	HSK-A100xER25x200	100	200	1-16 430E	42	M32x1,50
100.11.20.2	HSK-A100xER32x100	100	100	2-20 470E	50	M40x1,50
100.11.20.23	HSK-A100xER32x160	100	160	2-20 470E	50	M40x1,50
100.11.20.25	HSK-A100xER32x200	100	200	2-20 470E	50	M40x1,50
100.11.26.2	HSK-A100xER40x120	100	120	3-30 472E	63	M50x1,50
100.11.26.23	HSK-A100xER40x160	100	160	3-30 472E	63	M50x1,50
100.11.26.25	HSK-A100xER40x200	100	200	3-30 472E	63	M50x1,50

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Spannzangenfutter für Spannzangen ER/ESX DIN 6499 / ISO 15488
Collet chucks for collets ER/ESX DIN 6499 / ISO 15488

Rundlaufgenauigkeit HSK zu Werkzeugaufnahme < 0,005
Concentricity from the taper to the holding part < 0,005

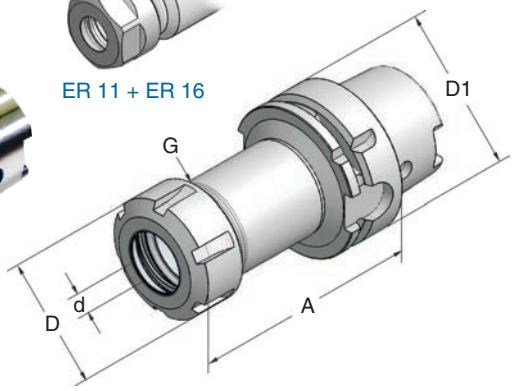
Grundkörper gewuchtet G 2,5 - 20.000 U/min. oder U < 1 gmm
Base-body balanced G 2,5 - 20.000 r.p.m. or U < 1 gmm

Sonderausführungen auf Anfrage
Special executions on inquiry

Alternative Spannmuttern siehe Seiten 60-62
Alternative nuts see pages 60-62

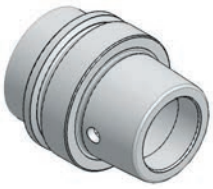
Spannzangen siehe Seiten 64+65
Collets see pages 64+65

ER 11 + ER 16



HSK - C

HSK - E



HSK - F

Art.-Nr.	Typ	D1	A	d	D	G
HSK - C 40						
40.14.10.2	HSK-C40xER16x 60	40	60	1-10 426E	28	M22x1,50
40.14.16.2	HSK-C40xER25x 60	40	60	1-16 430E	42	M32x1,50
HSK - E 40						
40.12.05.2	HSK-E40xER 8x 60	40	60	1 - 5 424E	12	M10x0,75
40.12.07.2	HSK-E40xER11x 70	40	70	1 - 7 424E	19	M14x0,75
40.12.07.22	HSK-E40xER11x100	40	100	1 - 7 424E	19	M14x0,75
40.12.10.20	HSK-E40xER16x 50	40	50	1-10 426E	28	M22x1,50
40.12.10.2	HSK-E40xER16x 70	40	70	1-10 426E	28	M22x1,50
40.12.16.20	HSK-E40xER25x 60	40	60	1-16 430E	42	M32x1,50
40.12.16.2	HSK-E40xER25x 70	40	70	1-16 430E	42	M32x1,50
40.12.20.2	HSK-E40xER32x 70	40	70	2-20 470E	50	M40x1,50
129640	HSK-E40xETS9x 60	40	60		15	M11x0,75
119640	HSK-E40xETS9x 80	40	80		15	M11x0,75
HSK - E 50						
50.12.07.2	HSK-E50xER11x 80	50	80	1 - 7 424E	19	M14x0,75
50.12.10.2	HSK-E50xER16x100	50	100	1-10 426E	28	M22x1,50
50.12.16.2	HSK-E50xER25x 80	50	80	1-16 430E	42	M32x1,50
50.12.20.2	HSK-E50xER32x100	50	100	2-20 470E	50	M40x1,50
HSK - E 63						
63.12.10.2	HSK-E63xER16x100	63	100	1-10 426E	28	M22x1,50
63.12.16.2	HSK-E63xER25x100	63	100	1-16 430E	42	M32x1,50
63.12.20.2	HSK-E63xER32x100	63	100	2-20 470E	50	M40x1,50
63.12.26.2	HSK-E63xER40x100	63	100	3-30 472E	63	M50x1,50
HSK - F 63						
63.13.10.2	HSK-F63xER16x 76	63	76	1-10 426E	28	M22x1,50
63.13.10.23	HSK-F63xER16x160	63	160	1-10 426E	28	M22x1,50
63.13.16.2	HSK-F63xER25x 76	63	76	1-16 430E	42	M32x1,50
63.13.20.2	HSK-F63xER32x 76	63	76	2-20 470E	50	M40x1,50
63.13.20.22	HSK-F63xER32x100	63	100	2-20 470E	50	M40x1,50
63.13.20.23	HSK-F63xER32x160	63	160	2-20 470E	50	M40x1,50
63.13.26.2	HSK-F63xER40x 76	63	76	3-30 472E	63	M50x1,50
63.13.26.23	HSK-F63xER40x160	63	160	3-30 472E	63	M50x1,50

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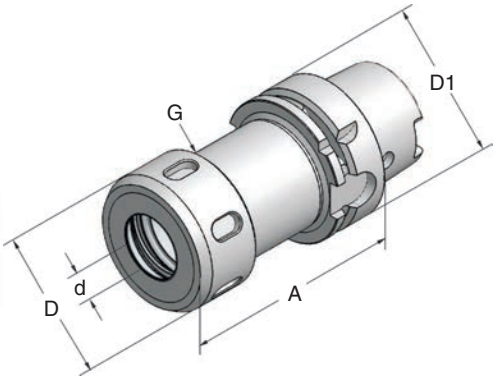
Spannzangenfutter für Spannzangen DIN 6388 / ISO 10897
Collet chucks for collets DIN 6388 / ISO 10897

Rundlaufgenauigkeit HSK zu Werkzeugaufnahme < 0,005
Concentricity from the taper to the holding part < 0,005

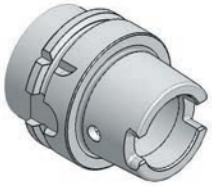
Grundkörper gewuchtet G 2,5 - 20.000 U/min. oder U < 1 gmm
Base-body balanced G 2,5 - 20.000 r.p.m. or U < 1 gmm
HSK-A100 - G2,5 - 15.000 U/min

Sonderausführungen auf Anfrage
Special executions on inquiry

Spannzangen auf Anfrage
Collets on inquiry



HSK - A



HSK - F

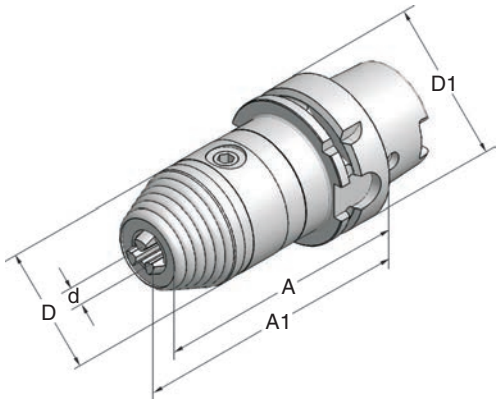
Art.-Nr.	Typ	D1	A	d	D	G
		HSK - A 50				
50.11.16.1	HSK-A50x2-16x100	50	100	2-16 415E	43	M33x1,50
		HSK - A 63				
63.11.16.1	HSK-A63x2-16x100	63	100	2-16 415E	43	M33x1,50
63.11.25.1	HSK-A63x2-25x100	63	100	2-25 462E	60	M48x2,00
		HSK - A 100				
100.11.32.1	HSK-A100x3-32x130	100	130	3-32 467E	72	M60x2,50
		HSK - F 50				
50.13.25.1	HSK-F50x2-25x 76	50	76	2-25 462E	60	M48x2,00
		HSK - F 63				
63.13.25.1	HSK-F63x2-25x 76	63	76	2-25 462E	60	M48x2,00
63.13.25.12	HSK-F63x2-25x100	63	100	2-25 462E	60	M48x2,00

CNC-Bohrfutter für Rechts- und Linkslauf
CNC-Drill chucks for clockwise and anti-clockwise rotation

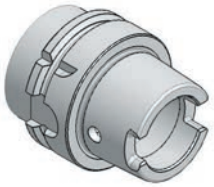
Rundlaufgenauigkeit HSK zu Werkzeugaufnahme < 0,04
Concentricity from the taper to the holding part < 0,04

Grundkörper gewuchtet G 2,5 - 8.000 U/min.
Base-body balanced G 2,5 - 8.000 r.p.m.

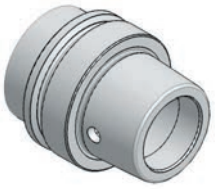
Typ k mit innerer Kühlmittelzufuhr, komplett mit Kühlmittelübergaberohr
Type k with internal coolant, complete with connection for coolant tube



HSK - A



HSK - E



HSK - F

Art.-Nr.	Typ	D1	A	A1	d	D
	HSK - A 40					
40.11.08	HSK-A40x1- 8x 74	40	74	77	1 - 8	36
40.11.08k	HSK-A40x1- 8x 74	40	74	77	1 - 8	36
	HSK - A 50					
50.11.13	HSK-A50x1-13x108	50	108	118	1-13	50
	HSK - A 63					
63.11.08	HSK-A63x1- 8x 83	63	83	86	1 - 8	36
63.11.13	HSK-A63x1-13x103	63	103	113	1-13	50
63.11.16	HSK-A63x3-16x103	63	103	115	3-16	57
63.11.13k	HSK-A63x1-13x103iK	63	103	113	1-13	50
63.11.16k	HSK-A63x3-16x103iK	63	103	115	3-16	57
	HSK - A 100					
100.11.13k	HSK-A100x1-13x111iK	100	111	121	1-13	50
100.11.16k	HSK-A100x3-16x111iK	100	111	123	3-16	57
	HSK - E 40					
40.12.08	HSK-E40x1- 8x 74	40	74	77	1- 8	36
40.12.08k	HSK-E40x1- 8x 74	40	74	77	1- 8	36
	HSK - E 50					
50.12.08	HSK-E50x1- 8x 77	50	77	80	1- 8	50
50.12.13	HSK-E50x1-13x108	50	108	118	1-13	50
	HSK - E 63					
63.12.13	HSK-E63x1-13x103	63	103	113	1-13	50
	HSK - F 63					
63.13.13	HSK-F63x1-13x103	63	103	113	1-13	50
63.13.16	HSK-F63x1-16x103	63	103	115	3-16	57

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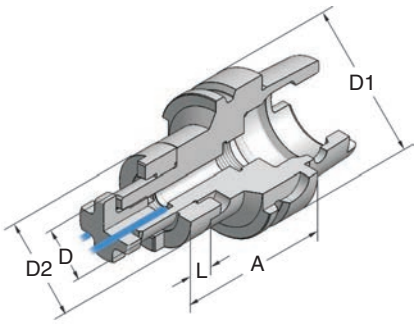
Kombiaufsteckfräsdorne DIN 69882-2
Universal arbors DIN 69882-2

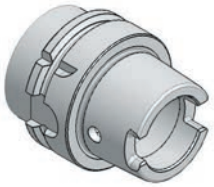
Rundlaufgenauigkeit HSK zu Werkzeugaufnahme < 0,005
Concentricity from the taper to the holding part < 0,005

Grundkörper gewuchtet G 2,5 - 8.000 U/min.
Base-body balanced G 2,5 - 8.000 r.p.m.

HSK-A63 mit innerer Kühlmittelzufuhr
für Werkzeuge mit Kühlkanal zur Schneide
HSK-A63 with internal coolant supply for tools
with coolant channel to the cutting edge



HSK - A



HSK - A 63

Art.-Nr.	Typ	D1	A	D	D2	L
63.11.16.4	HSK-A63x16x 60	63	60	16	32	10
63.11.16.42	HSK-A63x16x100	63	100	16	32	10
63.11.16.43	HSK-A63x16x160	63	160	16	32	10
63.11.22.4	HSK-A63x22x 60	63	60	22	40	12
63.11.22.42	HSK-A63x22x100	63	100	22	40	12
63.11.22.43	HSK-A63x22x160	63	160	22	40	12
63.11.27.4	HSK-A63x27x 60	63	60	27	48	12
63.11.27.42	HSK-A63x27x100	63	100	27	48	12
63.11.27.43	HSK-A63x27x160	63	160	27	48	12
63.11.32.4	HSK-A63x32x 60	63	60	32	58	14
63.11.32.42	HSK-A63x32x100	63	100	32	58	14
63.11.32.43	HSK-A63x32x160	63	160	32	58	14
63.11.40.4	HSK-A63x40x 70	63	70	40	70	14

HSK - A 100

100.11.16.42	HSK-A100x16x100	100	100	16	32	10
100.11.16.43	HSK-A100x16x160	100	160	16	32	10
100.11.22.42	HSK-A100x22x100	100	100	22	40	12
100.11.22.43	HSK-A100x22x160	100	160	22	40	12
100.11.27.42	HSK-A100x27x100	100	100	27	48	12
100.11.27.43	HSK-A100x27x160	100	160	27	48	12
100.11.32.42	HSK-A100x32x100	100	100	32	58	14
100.11.40.42	HSK-A100x40x100	100	100	40	70	14

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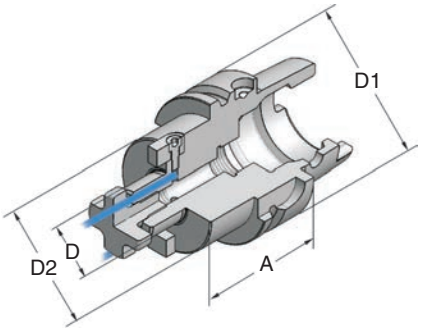
Messerkopfaufnahmen DIN 69882-3
Shell mill adaptors DIN 69882-3

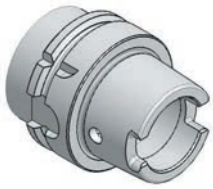
Rundlaufgenauigkeit HSK zu Werkzeugaufnahme < 0,005
Concentricity from the taper to the holding part < 0,005

Grundkörper gewuchtet G 2,5 - 20.000 U/min. oder U < 1 gmm
Base-body balanced G 2,5 - 20.000 r.p.m. or U < 1 gmm
HSK-A100 - G2,5 - 15.000 U/min

Mit innerer Kühlmittelzufuhr
für Werkzeuge mit Kühlkanal zur Schneide
With internal coolant supply for tools
with coolant channel to the cutting edge



HSK - A



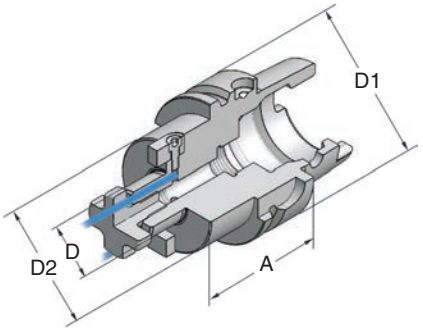
Art.-Nr.	Typ	D1	A	D	D2
	HSK - A 40				
40.11.16.9	HSK-A40x16x50	40	50	16	38
40.11.22.9	HSK-A40x22x50	40	50	22	44
	HSK - A 50				
50.11.16.9	HSK-A50x16x50	50	50	16	39
50.11.22.9	HSK-A50x22x50	50	50	22	42
50.11.27.9	HSK-A50x27x55	50	55	27	60
	HSK - A 63				
63.11.16.9	HSK-A63x16x 50	63	50	16	39
63.11.16.92	HSK-A63x16x100	63	100	16	39
63.11.22.9	HSK-A63x22x 50	63	50	22	49
63.11.22.92	HSK-A63x22x100	63	100	22	49
63.11.27.9	HSK-A63x27x 60	63	60	27	60
63.11.27.92	HSK-A63x27x100	63	100	27	60
63.11.32.9	HSK-A63x32x 60	63	60	32	68
63.11.32.92	HSK-A63x32x100	63	100	32	68
63.11.40.9	HSK-A63x40x 60	63	60	40	88
	HSK - A 100				
100.11.16.9	HSK-A100x16x 60	100	60	16	39
100.11.16.92	HSK-A100x16x100	100	100	16	39
100.11.16.93	HSK-A100x16x160	100	160	16	39
100.11.22.9	HSK-A100x22x 60	100	60	22	49
100.11.22.92	HSK-A100x22x100	100	100	22	49
100.11.22.93	HSK-A100x22x160	100	160	22	49
100.11.27.9	HSK-A100x27x 60	100	60	27	60
100.11.27.92	HSK-A100x27x100	100	100	27	60
100.11.27.93	HSK-A100x27x160	100	160	27	60
100.11.32.9	HSK-A100x32x 60	100	60	32	68
100.11.32.92	HSK-A100x32x100	100	100	32	68
100.11.32.93	HSK-A100x32x160	100	160	32	68
100.11.40.9	HSK-A100x40x 60	100	60	40	89
100.11.40.92	HSK-A100x40x100	100	100	40	89
100.11.40.93	HSK-A100x40x160	100	160	40	89

Messerkopfaufnahmen DIN 69882-3
Shell mill adaptors DIN 69882-3

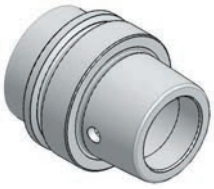
Rundlaufgenauigkeit HSK zu Werkzeugaufnahme < 0,005
Concentricity from the taper to the holding part < 0,005

Grundkörper gewuchtet G 2,5 - 20.000 U/min. oder U < 1 gmm
Base-body balanced G 2,5 - 20.000 r.p.m. or U < 1 gmm

HSK-E mit innerer Kühlmittelzufuhr
für Werkzeuge mit Kühlkanal zur Schneide
HSK-E with internal coolant supply for tools
with coolant channel to the cutting edge



HSK - E



HSK - F

Art.-Nr.	Typ	D1	A	D	D2
	HSK - E 40				
40.12.16.9	HSK-E40x16x50	40	50	16	38
40.12.22.9	HSK-E40x22x50	40	50	22	44
	HSK - E 50				
50.12.16.9	HSK-E50x16x50	50	50	16	39
50.12.22.9	HSK-E50x22x50	50	50	22	42
50.12.27.9	HSK-E50x27x55	50	55	27	60
	HSK - E 63				
63.12.16.9	HSK-E63x16x 50	63	50	16	39
63.12.22.9	HSK-E63x22x 50	63	50	22	49
63.12.27.9	HSK-E63x27x 60	63	60	27	60
63.12.32.9	HSK-E63x32x 60	63	60	32	68
	HSK - F 63				
63.13.16.9	HSK-F63x16x 50	63	50	16	39
63.13.22.9	HSK-F63x22x 50	63	50	22	49
63.13.27.9	HSK-F63x27x 60	63	60	27	60
63.13.32.9	HSK-F63x32x 60	63	60	32	68

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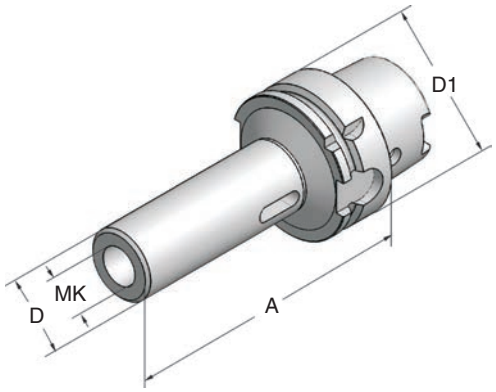
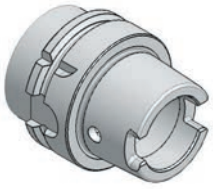
Kegelhülsen MK DIN 228 Form B mit Austreiblappen
Reducing adaptors MT DIN 228 form B with tang

Rundlaufgenauigkeit HSK zu Werkzeugaufnahme < 0,005
Concentricity from the taper to the holding part < 0,005

Grundkörper gewuchtet G 2,5 - 8.000 U/min.
Base-body balanced G 2,5 - 8.000 r.p.m.



HSK - A



HSK - A 63

Art.-Nr.	Typ	D1	A	MK	D
63.11.01.5	HSK-A63xMK1x100	63	100	1	25
63.11.02.5	HSK-A63xMK2x120	63	120	2	32
63.11.03.5	HSK-A63xMK3x140	63	140	3	40
63.11.04.5	HSK-A63xMK4x160	63	160	4	48

HSK - F

HSK - F 63

Art.-Nr.	Typ	D1	A	MK	D
63.13.01.5	HSK-F63xMK1x100	63	100	1	25
63.13.02.5	HSK-F63xMK2x120	63	120	2	32
63.13.03.5	HSK-F63xMK3x140	63	140	3	40
63.13.04.5	HSK-F63xMK4x160	63	160	4	48

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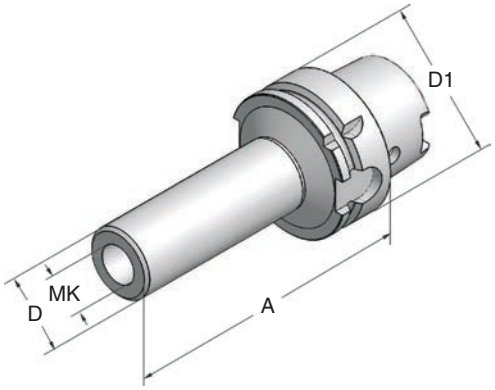
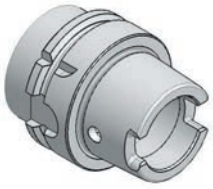
Kegelhülsen MK DIN 228 Form A mit Anzugsgewinde
Reducing adaptors MT DIN 228 form A with retention thread

Rundlaufgenauigkeit HSK zu Werkzeugaufnahme < 0,005
Concentricity from the taper to the holding part < 0,005

Grundkörper gewuchtet G 2,5 - 8.000 U/min.
Base-body balanced G 2,5 - 8.000 r.p.m.



HSK - A



HSK - A 63

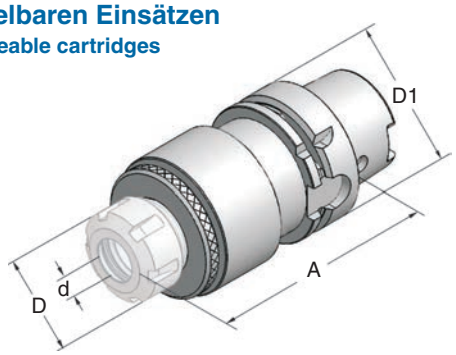
Art.-Nr.	Typ	D1	A	MK	D
63.11.01.55	HSK-A63xMK1x100	63	100	1	25
63.11.02.55	HSK-A63xMK2x120	63	120	2	32
63.11.03.55	HSK-A63xMK3x140	63	140	3	40
63.11.04.55	HSK-A63xMK4x165	63	165	4	48

Pendelhalter, achsparallel ausgleichend einstellbar, mit auswechselbaren Einsätzen
Floating holder with compensation adjustment paralell to the axis, with interchangeable cartridges

Lieferumfang ohne Einsatz
Delivery without insert

Der Einsatz muss separat bestellt werden !
The insert has to be ordered separately !

Abb. mit Einsatz 101101 ER25
Picture with insert 101101 ER25



HSK - A 63

Art.-Nr.	Typ	D1	A	d	D
63.11.70.350	HSK-A63	63	130	2-16	42

Einsätze für Pendelhalter
Inserts for floating holder

Spannzangenhalter

Art.-Nr.	Typ
101101	Einsatz/Insert ER 25/430E*
102101	Einsatz/Insert DA180/419E*

* incl. Spannmutter/Clamping nut

Zylinderschaft

Art.-Nr.	Typ
105101	Einsatz/Insert B ø16
106101	Einsatz/Insert B ø18
107101	Einsatz/Insert B ø20
108101	Einsatz/Insert B ø25

MK 2

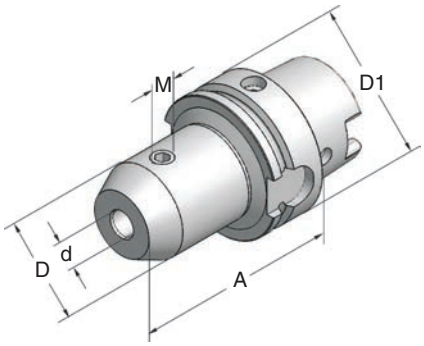
Art.-Nr.	Typ
109101	Einsatz/Insert C-MK2

Zylinderschaftaufnahmen DIN 69882-4 (Weldon DIN 1835 B)
Holders for straight shank tools DIN 69882-4 (Weldon DIN 1835 B)

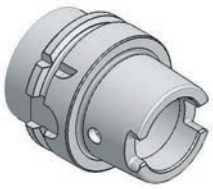
Rundlaufgenauigkeit HSK zu Werkzeugaufnahme < 0,005
Concentricity from the taper to the holding part < 0,005

Grundkörper gewuchtet G 2,5 - 20.000 U/min. oder U < 1 gmm
Base-body balanced G 2,5 - 20.000 r.p.m. or U < 1 gmm
HSK-A100 - G2,5 - 15.000 U/min

Spannschrauben siehe Seite 59
Clamping nuts see page 59



HSK - A



63.11.06.**6** A=65

63.11.06.**62** A=120

63.11.06.**63** A=160

HSK - A 63

Art.-Nr.	Typ	D1	A	d	D	M
63.11.06.6	HSK-A63x06x 65	63	65	6	25	6
63.11.06.620	HSK-A63x06x100	63	100	6	25	6
63.11.06.62	HSK-A63x06x120	63	120	6	25	6
63.11.06.63	HSK-A63x06x160	63	160	6	25	6
63.11.08.6	HSK-A63x08x 65	63	65	8	28	8
63.11.08.620	HSK-A63x08x100	63	100	8	28	8
63.11.08.62	HSK-A63x08x120	63	120	8	28	8
63.11.08.63	HSK-A63x08x160	63	160	8	28	8
63.11.10.6	HSK-A63x10x 65	63	65	10	35	10
63.11.10.620	HSK-A63x10x100	63	100	10	35	10
63.11.10.62	HSK-A63x10x120	63	120	10	35	10
63.11.10.63	HSK-A63x10x160	63	160	10	35	10
63.11.12.6	HSK-A63x12x 80	63	80	12	42	12
63.11.12.620	HSK-A63x12x100	63	100	12	42	12
63.11.12.62	HSK-A63x12x120	63	120	12	42	12
63.11.12.63	HSK-A63x12x160	63	160	12	42	12
63.11.14.6	HSK-A63x14x 80	63	80	14	44	12
63.11.14.62	HSK-A63x14x120	63	120	14	44	12
63.11.16.6	HSK-A63x16x 80	63	80	16	48	14
63.11.16.620	HSK-A63x16x100	63	100	16	48	14
63.11.16.62	HSK-A63x16x120	63	120	16	48	14
63.11.16.63	HSK-A63x16x160	63	160	16	48	14
63.11.18.6	HSK-A63x18x 80	63	80	18	50	14
63.11.18.62	HSK-A63x18x120	63	120	18	50	14
63.11.20.6	HSK-A63x20x 80	63	80	20	52	16
63.11.20.62	HSK-A63x20x120	63	120	20	52	16
63.11.20.63	HSK-A63x20x160	63	160	20	52	16
63.11.25.6	HSK-A63x25x110	63	110	25	63	18x2
63.11.25.63	HSK-A63x25x160	63	160	25	63	18x2
63.11.32.6	HSK-A63x32x110	63	110	32	72	20x2
63.11.40.6	HSK-A63x40x120	63	120	40	64	16x1

HSK - A 100

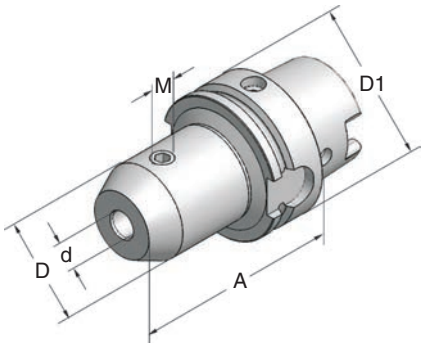
100.11.20.6	HSK-A100x20x100	100	100	20	52	16
100.11.25.6	HSK-A100x25x100	100	100	25	63	18x2
100.11.32.6	HSK-A100x32x100	100	100	32	72	20x2
100.11.40.6	HSK-A100x40x120	100	120	40	80	20x2
100.11.50.6	HSK-A100x50x130	100	130	50	100	24x2

Zylinderschaftaufnahmen DIN 69882-4 (Weldon DIN 1835 B)
Holders for straight shank tools DIN 69882-4 (Weldon DIN 1835 B)

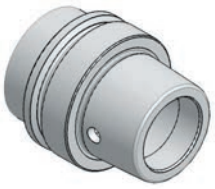
Rundlaufgenauigkeit HSK zu Werkzeugaufnahme < 0,005
Concentricity from the taper to the holding part < 0,005

Grundkörper gewuchtet G 2,5 - 20.000 U/min. oder U < 1 gmm
Base-body balanced G 2,5 - 20.000 r.p.m. or U < 1 gmm

Spannschrauben siehe Seite 59
Clamping nuts see page 59



HSK - E



HSK - E 40

Art.-Nr.	Typ	D1	A	d	D	M
40.12.06.6	HSK-E40x06x60	40	60	6	25	6
40.12.08.6	HSK-E40x08x60	40	60	8	28	8
40.12.10.6	HSK-E40x10x60	40	60	10	35	10
40.12.12.6	HSK-E40x12x70	40	70	12	42	12
40.12.16.6	HSK-E40x16x70	40	70	16	48	14
40.12.20.6	HSK-E40x20x70	40	70	20	44	16

HSK - E 50

50.12.06.6	HSK-E50x06x65	50	65	6	25	6
50.12.08.6	HSK-E50x08x65	50	65	8	28	8
50.12.10.6	HSK-E50x10x65	50	65	10	35	10
50.12.12.6	HSK-E50x12x80	50	80	12	42	12
50.12.16.6	HSK-E50x16x80	50	80	16	48	14
50.12.20.6	HSK-E50x20x80	50	80	20	49	16

HSK - F

HSK - F 63

63.13.06.6	HSK-F63x06x80	63	80	6	25	6
63.13.08.6	HSK-F63x08x80	63	80	8	28	8
63.13.10.6	HSK-F63x10x80	63	80	10	35	10
63.13.12.6	HSK-F63x12x80	63	80	12	42	12
63.13.14.6	HSK-F63x14x80	63	80	14	44	12
63.13.16.6	HSK-F63x16x80	63	80	16	48	14
63.13.18.6	HSK-F63x18x80	63	80	18	50	14
63.13.20.6	HSK-F63x20x80	63	80	20	52	16
63.13.25.6	HSK-F63x25x90	63	90	25	63	18x2
63.13.32.6	HSK-F63x32x90	63	90	32	72	20x2

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Zylinderschaftaufnahmen mit Kühlkanälen DIN 69882-4 (Weldon DIN 1835 B)
Holders for straight shank tools with coolant channels DIN 69882-4 (Weldon DIN 1835 B)

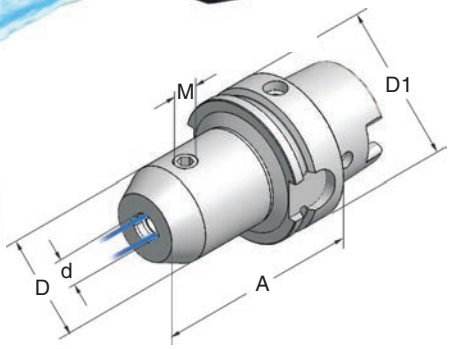
Rundlaufgenauigkeit HSK zu Werkzeugaufnahme < 0,005
Concentricity from the taper to the holding part < 0,005

Grundkörper gewuchtet G 2,5 - 20.000 U/min. oder U < 1 gmm
Base-body balanced G 2,5 - 20.000 r.p.m. or U < 1 gmm

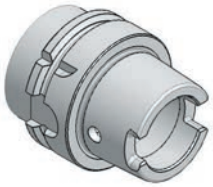
Für Werkzeuge mit innerer Kühlmittelzufuhr muss ein O-Ring separat bestellt werden! Siehe Seite 22

For tools with through coolant a sealing ring must be ordered seperately! See page 22

Spannschrauben siehe Seite 59
Clamping nuts see page 59



HSK - A



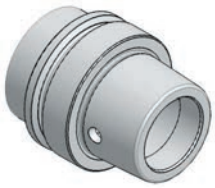
HSK - A 40

Art.-Nr.	Typ	D1	A	d	D	M
40.11.06.66	HSK-A40x06x60	40	60	6	25	6
40.11.08.66	HSK-A40x08x60	40	60	8	28	8
40.11.10.66	HSK-A40x10x60	40	60	10	35	10
40.11.12.66	HSK-A40x12x70	40	70	12	42	12
40.11.16.66	HSK-A40x16x70	40	70	16	48	14
40.11.20.66	HSK-A40x20x70	40	70	20	45	16

HSK - A 50

50.11.06.66	HSK-A50x06x65	50	65	6	25	6
50.11.08.66	HSK-A50x08x65	50	65	8	28	8
50.11.10.66	HSK-A50x10x65	50	65	10	35	10
50.11.12.66	HSK-A50x12x80	50	80	12	42	12
50.11.14.66	HSK-A50x14x80	50	80	14	44	12
50.11.16.66	HSK-A50x16x80	50	80	16	48	14
50.11.18.66	HSK-A50x18x80	50	80	18	50	14
50.11.20.66	HSK-A50x20x80	50	80	20	52	16
50.11.25.66	HSK-A50x25x80	50	80	25	52	16x1
50.11.32.66	HSK-A50x32x90	50	90	32	52	16x1

HSK - E



HSK - E 40

40.12.06.66	HSK-E40x06x60	40	60	6	25	6
40.12.08.66	HSK-E40x08x60	40	60	8	28	8
40.12.10.66	HSK-E40x10x60	40	60	10	35	10
40.12.12.66	HSK-E40x12x70	40	70	12	42	12
40.12.16.66	HSK-E40x16x70	40	70	16	48	14
40.12.20.66	HSK-E40x20x70	40	70	20	45	16

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Zylinderschaftaufnahmen mit Kühlkanälen DIN 69882-4 (Weldon DIN 1835 B)
Holders for straight shank tools with coolant channels DIN 69882-4 (Weldon DIN 1835 B)

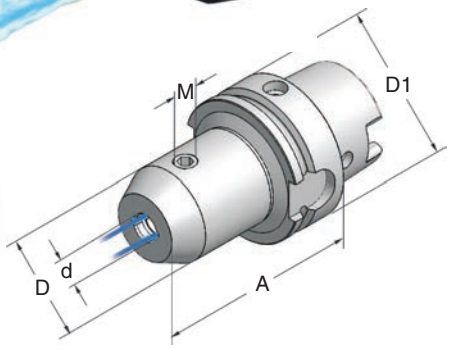
Rundlaufgenauigkeit HSK zu Werkzeugaufnahme < 0,005
Concentricity from the taper to the holding part < 0,005

Grundkörper gewuchtet G 2,5 - 20.000 U/min. oder U < 1 gmm
Base-body balanced G 2,5 - 20.000 r.p.m. or U < 1 gmm

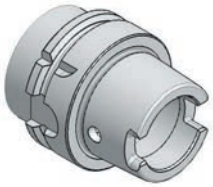
Für Werkzeuge mit innerer Kühlmittelzufuhr muss ein O-Ring separat bestellt werden! Siehe Seite 22

For tools with through coolant a sealing ring must be ordered seperately! See page 22

Spannschrauben siehe Seite 59
Clamping nuts see page 59



HSK - A



HSK - A 63

Art.-Nr.	Typ	D1	A	d	D	M
63.11.06.66	HSK-A63x06x 65	63	65	6	25	6
63.11.06.662	HSK-A63x06x100	63	100	6	25	6
63.11.06.663	HSK-A63x06x160	63	160	6	25	6
63.11.08.66	HSK-A63x08x 65	63	65	8	28	8
63.11.08.662	HSK-A63x08x100	63	100	8	28	8
63.11.08.663	HSK-A63x08x160	63	160	8	28	8
63.11.10.66	HSK-A63x10x 65	63	65	10	35	10
63.11.10.662	HSK-A63x10x100	63	100	10	35	10
63.11.10.663	HSK-A63x10x160	63	160	10	35	10
63.11.12.66	HSK-A63x12x 80	63	80	12	42	12
63.11.12.662	HSK-A63x12x100	63	100	12	42	12
63.11.12.663	HSK-A63x12x160	63	160	12	42	12
63.11.14.66	HSK-A63x14x 80	63	80	14	44	12
63.11.14.663	HSK-A63x14x160	63	160	14	44	12
63.11.16.66	HSK-A63x16x 80	63	80	16	48	14
63.11.16.662	HSK-A63x16x100	63	100	16	48	14
63.11.16.663	HSK-A63x16x160	63	160	16	48	14
63.11.18.66	HSK-A63x18x 80	63	80	18	50	14
63.11.18.663	HSK-A63x18x160	63	160	18	50	14
63.11.20.66	HSK-A63x20x 80	63	80	20	52	16
63.11.20.662	HSK-A63x20x100	63	100	20	52	16
63.11.20.663	HSK-A63x20x160	63	160	20	52	16
63.11.25.66	HSK-A63x25x 90	63	90	25	63	18x2
63.11.32.66	HSK-A63x32x 90	63	90	32	72	20x2

Zylinderschaftaufnahmen mit Kühlkanälen DIN 69882-4 (Weldon DIN 1835 B)
Holders for straight shank tools with coolant channels DIN 69882-4 (Weldon DIN 1835 B)

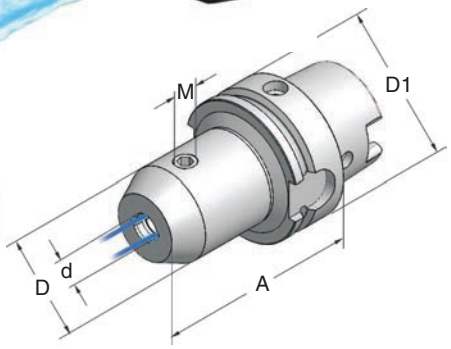
Rundlaufgenauigkeit HSK zu Werkzeugaufnahme < 0,005
Concentricity from the taper to the holding part < 0,005

Grundkörper gewuchtet G 2,5 - 15.000 U/min. oder U < 1 gmm
Base-body balanced G 2,5 - 15.000 r.p.m. or U < 1 gmm

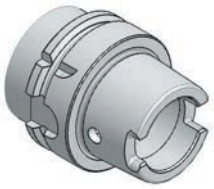
Für Werkzeuge mit innerer Kühlmittelzufuhr muss ein O-Ring separat bestellt werden! Siehe unten

For tools with through coolant a sealing ring must be ordered seperately! See page down

Spannschrauben siehe Seite 59
Clamping nuts see page 59



HSK - A



HSK - A 100

Art.-Nr.	Typ	D1	A	d	D	M
100.11.06.66	HSK-A100x06x100	100	100	6	25	6
100.11.06.663	HSK-A100x06x160	100	160	6	25	6
100.11.08.66	HSK-A100x08x100	100	100	8	28	8
100.11.08.663	HSK-A100x08x160	100	160	8	28	8
100.11.10.66	HSK-A100x10x100	100	100	10	35	10
100.11.10.663	HSK-A100x10x160	100	160	10	35	10
100.11.12.66	HSK-A100x12x100	100	100	12	42	12
100.11.12.663	HSK-A100x12x160	100	160	12	42	12
100.11.14.66	HSK-A100x14x100	100	100	14	44	12
100.11.16.66	HSK-A100x16x100	100	100	16	48	14
100.11.16.663	HSK-A100x16x160	100	160	16	48	14
100.11.20.66	HSK-A100x20x100	100	100	20	52	16
100.11.20.663	HSK-A100x20x160	100	160	20	52	16
100.11.25.66	HSK-A100x25x100	100	100	25	63	18x2
100.11.25.663	HSK-A100x25x160	100	160	25	63	18x2
100.11.32.66	HSK-A100x32x100	100	100	32	72	20x2
100.11.32.663	HSK-A100x32x160	100	160	32	72	20x2
100.11.40.66	HSK-A100x40x120	100	120	40	80	20x2

O-Ring
Sealing Ring

Art.-Nr.	Typ
270100	6,0x1,5
271100	8,0x1,5
272100	10,0x2,0
273100	12,0x2,0
274100	14,0x2,0
275100	16,0x2,5
276100	18,0x2,5
277100	20,0x2,5
278100	25,0x3,0
279100	32,0x3,0
299100	40,0x3,5

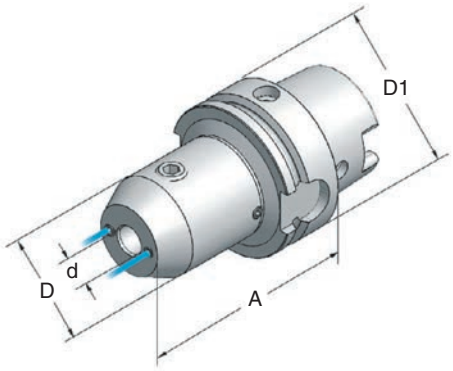
Zylinderschaftaufnahmen mit verschließbaren Kühlbohrungen DIN 69882-4 (Weldon DIN 1835 B)
Holders for straight shank tools with lockable coolant borings DIN 69882-4 (Weldon DIN 1835 B)

Rundlaufgenauigkeit HSK zu Werkzeugaufnahme < 0,005
Concentricity from the taper to the holding part < 0,005

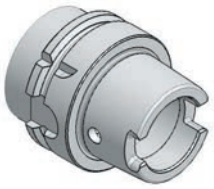
Grundkörper gewuchtet G 2,5 - 20.000 U/min.
Base-body balanced G 2,5 - 20.000 r.p.m.

Lieferumfang ohne Werkzeug
Delivery without tool

Spannschrauben siehe Seite 59
Clamping nuts see page 59

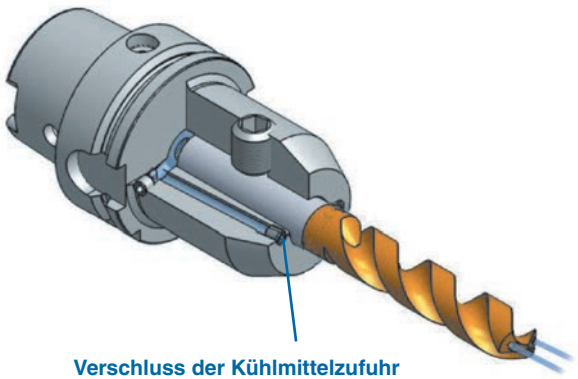


HSK - A



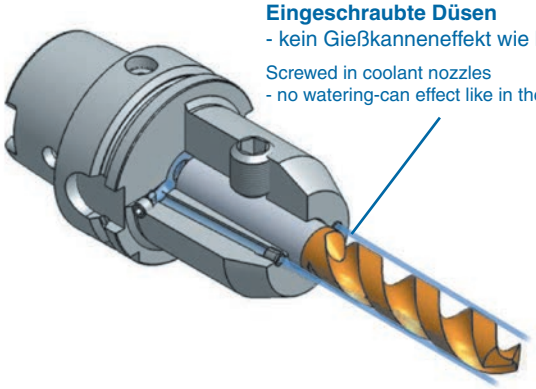
HSK - A 63

Art.-Nr.	Typ	D1	A	d	D
63.11.06.67	HSK-A63x06x 80	63	80	6	25
63.11.06.672	HSK-A63x06x120	63	120	6	25
63.11.08.67	HSK-A63x08x 80	63	80	8	28
63.11.08.672	HSK-A63x08x120	63	120	8	28
63.11.10.67	HSK-A63x10x 80	63	80	10	35
63.11.10.672	HSK-A63x10x120	63	120	10	35
63.11.12.67	HSK-A63x12x 80	63	80	12	42
63.11.12.672	HSK-A63x12x120	63	120	12	42
63.11.14.67	HSK-A63x14x 80	63	80	14	44
63.11.16.67	HSK-A63x16x 80	63	80	16	48
63.11.16.672	HSK-A63x16x120	63	120	16	48
63.11.20.67	HSK-A63x20x 80	63	80	20	52
63.11.20.672	HSK-A63x20x120	63	120	20	52
63.11.25.67	HSK-A63x25x110	63	110	25	63
63.11.32.67	HSK-A63x32x110	63	110	32	72



Verschluss der Kühlmittelzufuhr
für Werkzeuge mit Innenkühlung

Seal of the coolant supply
for tools with internal cooling



Eingeschraubte Düsen
- kein Gießkanneneffekt wie bei der Bohrung

Screwed in coolant nozzles
- no watering-can effect like in the case before

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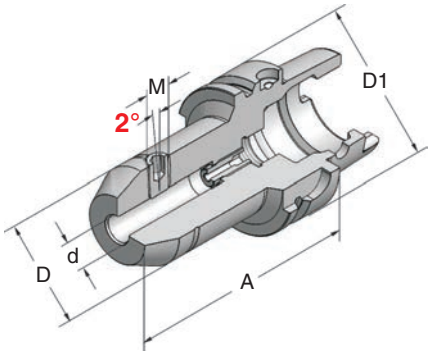
Zylinderschaftaufnahmen DIN 69882-5 (Whistle-Notch DIN 1835 E)
Holders for straight shank tools DIN 69882-5 (Whistle-Notch DIN 1835 E)

Rundlaufgenauigkeit HSK zu Werkzeugaufnahme < 0,005
Concentricity from the taper to the holding part < 0,005

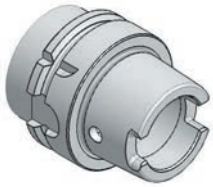
Grundkörper gewuchtet G 2,5 - 20.000 U/min. oder U < 1 gmm
Base-body balanced G 2,5 - 20.000 r.p.m. or U < 1 gmm

Sonderausführungen auf Anfrage
Special executions on inquiry

Spannschrauben siehe Seite 59
Clamping nuts see page 59



HSK - A



HSK - A 40

Art.-Nr.	Typ	D1	A	d	D	M
40.11.06.65	HSK-A40x06Ex 60	40	60	6	25	6
40.11.08.65	HSK-A40x08Ex 60	40	60	8	28	8
40.11.10.65	HSK-A40x10Ex 60	40	60	10	35	10
40.11.12.65	HSK-A40x12Ex 70	40	70	12	42	12
40.11.14.65	HSK-A40x14Ex 70	40	70	14	44	12
40.11.16.65	HSK-A40x16Ex 70	40	70	16	48	14

HSK - A 50

50.11.06.65	HSK-A50x06Ex 80	50	80	6	25	6
50.11.08.65	HSK-A50x08Ex 80	50	80	8	28	8
50.11.10.65	HSK-A50x10Ex 80	50	80	10	35	10
50.11.12.65	HSK-A50x12Ex 90	50	90	12	42	12
50.11.14.65	HSK-A50x14Ex 90	50	90	14	44	12
50.11.16.65	HSK-A50x16Ex 90	50	90	16	48	14
50.11.20.65	HSK-A50x20Ex100	50	100	20	50	16

HSK - A 63

63.11.06.65	HSK-A63x06Ex 80	63	80	6	25	6
63.11.06.652	HSK-A63x06Ex130	63	130	6	25	6
63.11.08.65	HSK-A63x08Ex 80	63	80	8	28	8
63.11.08.652	HSK-A63x08Ex130	63	130	8	28	8
63.11.10.65	HSK-A63x10Ex 80	63	80	10	35	10
63.11.10.652	HSK-A63x10Ex130	63	130	10	35	10
63.11.12.65	HSK-A63x12Ex 90	63	90	12	42	12
63.11.12.652	HSK-A63x12Ex130	63	130	12	42	12
63.11.14.65	HSK-A63x14Ex 90	63	90	14	44	12
63.11.14.652	HSK-A63x14Ex130	63	130	14	44	12
63.11.16.65	HSK-A63x16Ex100	63	100	16	48	14
63.11.16.652	HSK-A63x16Ex130	63	130	16	48	14
63.11.18.65	HSK-A63x18Ex100	63	100	18	50	14
63.11.20.65	HSK-A63x20Ex100	63	100	20	52	16
63.11.20.652	HSK-A63x20Ex130	63	130	20	52	16
63.11.25.65	HSK-A63x25Ex110	63	110	25	63	18x2
63.11.32.65	HSK-A63x32Ex110	63	110	32	72	20x2

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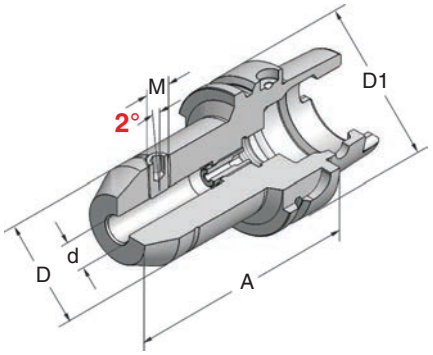
Zylinderschaftaufnahmen DIN 69882-5 (Whistle-Notch DIN 1835 E)
Holders for straight shank tools DIN 69882-5 (Whistle-Notch DIN 1835 E)

Rundlaufgenauigkeit HSK zu Werkzeugaufnahme < 0,005
Concentricity from the taper to the holding part < 0,005

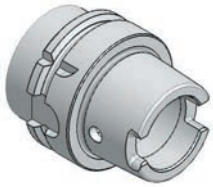
Grundkörper gewuchtet G 2,5 - 15.000 U/min. oder U < 1 gmm
Base-body balanced G 2,5 - 15.000 r.p.m. or U < 1 gmm

Sonderausführungen auf Anfrage
Special executions on inquiry

Spannschrauben siehe Seite 59
Clamping nuts see page 59



HSK - A



HSK - A 100

Art.-Nr.	Typ	D1	A	d	D	M
100.11.06.65	HSK-A100x06Ex100	100	100	6	25	6
100.11.06.653	HSK-A100x06Ex160	100	160	6	25	6
100.11.08.65	HSK-A100x08Ex100	100	100	8	28	8
100.11.08.653	HSK-A100x08Ex160	100	160	8	28	8
100.11.10.65	HSK-A100x10Ex100	100	100	10	35	10
100.11.10.653	HSK-A100x10Ex160	100	160	10	35	10
100.11.12.65	HSK-A100x12Ex100	100	100	12	42	12
100.11.12.653	HSK-A100x12Ex160	100	160	12	42	12
100.11.14.65	HSK-A100x14Ex100	100	100	14	44	12
100.11.14.653	HSK-A100x14Ex160	100	160	14	44	12
100.11.16.65	HSK-A100x16Ex100	100	100	16	48	14
100.11.16.653	HSK-A100x16Ex160	100	160	16	48	14
100.11.20.65	HSK-A100x20Ex110	100	110	20	52	16
100.11.20.653	HSK-A100x20Ex160	100	160	20	52	16
100.11.25.65	HSK-A100x25Ex120	100	120	25	63	18x2
100.11.32.65	HSK-A100x32Ex120	100	120	32	72	20x2

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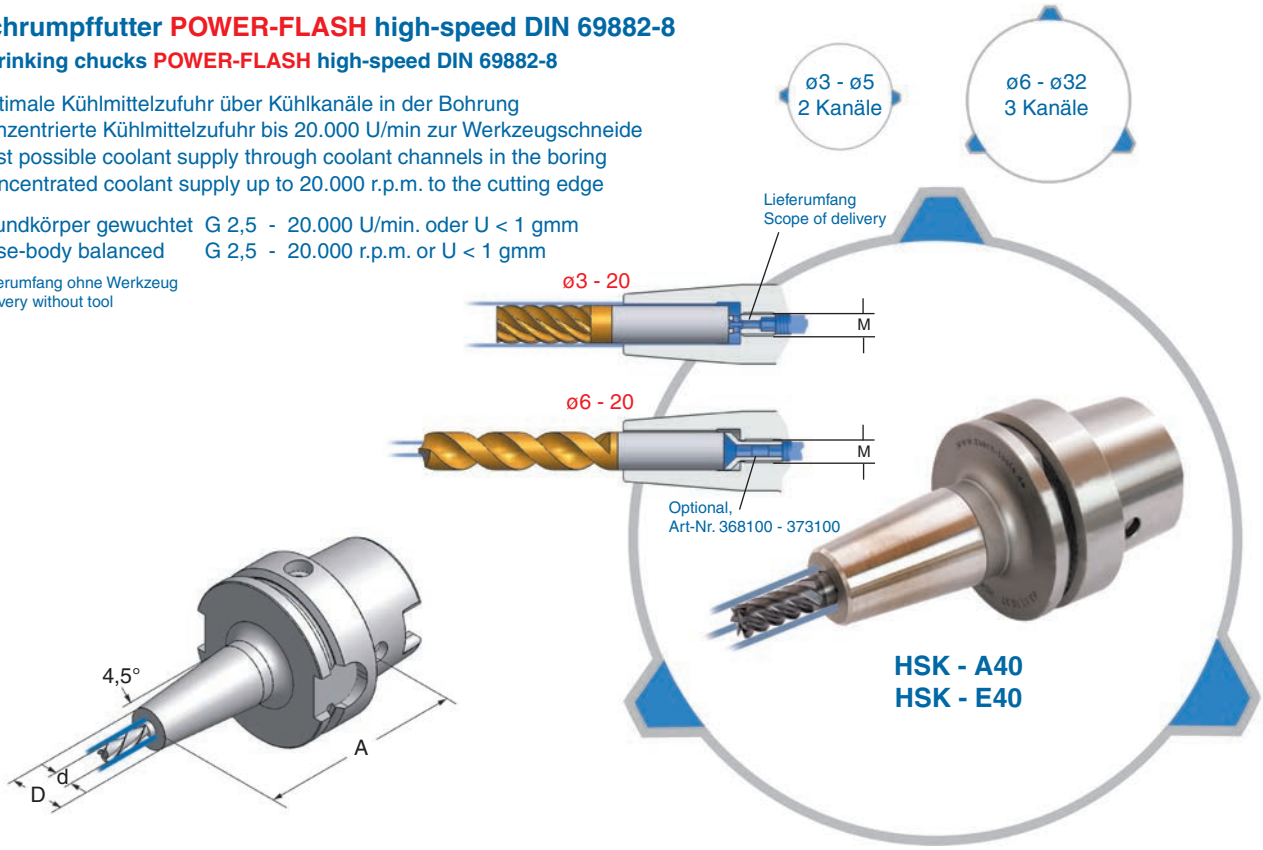
Schrumpffutter POWER-FLASH high-speed DIN 69882-8
Shrinking chucks POWER-FLASH high-speed DIN 69882-8

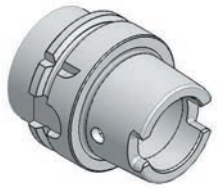
Optimale Kühlmittelzufuhr über Kühlkanäle in der Bohrung
Konzentrierte Kühlmittelzufuhr bis 20.000 U/min zur Werkzeugschneide
Best possible coolant supply through coolant channels in the boring
Concentrated coolant supply up to 20.000 r.p.m. to the cutting edge

Grundkörper gewuchtet G 2,5 - 20.000 U/min. oder U < 1 gmm
Base-body balanced G 2,5 - 20.000 r.p.m. or U < 1 gmm

Lieferumfang ohne Werkzeug
Delivery without tool



HSK - A



HSK - A 40

Art.-Nr.	Typ	A	d	D	M
40.11.03.37	HSK-A40x03SCx65	65	3	10	M6
40.11.04.37	HSK-A40x04SCx65	65	4	11	M6
40.11.05.37	HSK-A40x05SCx65	65	5	14	M8x1
40.11.06.37	HSK-A40x06SCx65	65	6	21	M8x1
40.11.08.37	HSK-A40x08SCx65	65	8	21	M8x1
40.11.10.37	HSK-A40x10SCx65	65	10	24	M8x1
40.11.12.37	HSK-A40x12SCx70	70	12	24	M8x1
40.11.16.37	HSK-A40x16SCx75	75	16	27	M8x1
40.11.20.37	HSK-A40x20SCx75	75	20	27	M8x1

HSK - E

HSK - E 40

Art.-Nr.	Typ	A	d	D	M
40.12.03.37	HSK-E40x03SCx65	65	3	10	M6
40.12.04.37	HSK-E40x04SCx65	65	4	11	M6
40.12.05.37	HSK-E40x05SCx65	65	5	14	M8x1
40.12.06.37	HSK-E40x06SCx65	65	6	21	M8x1
40.12.08.37	HSK-E40x08SCx65	65	8	21	M8x1
40.12.10.37	HSK-E40x10SCx65	65	10	24	M8x1
40.12.12.37	HSK-E40x12SCx70	70	12	24	M8x1
40.12.16.37	HSK-E40x16SCx75	75	16	27	M8x1

Anschlagschraube
Stop screw

Art.-Nr.	d	M
368100	ø6	M 8x1
369100	ø8	M 8x1
370100-2	ø10	M 8x1

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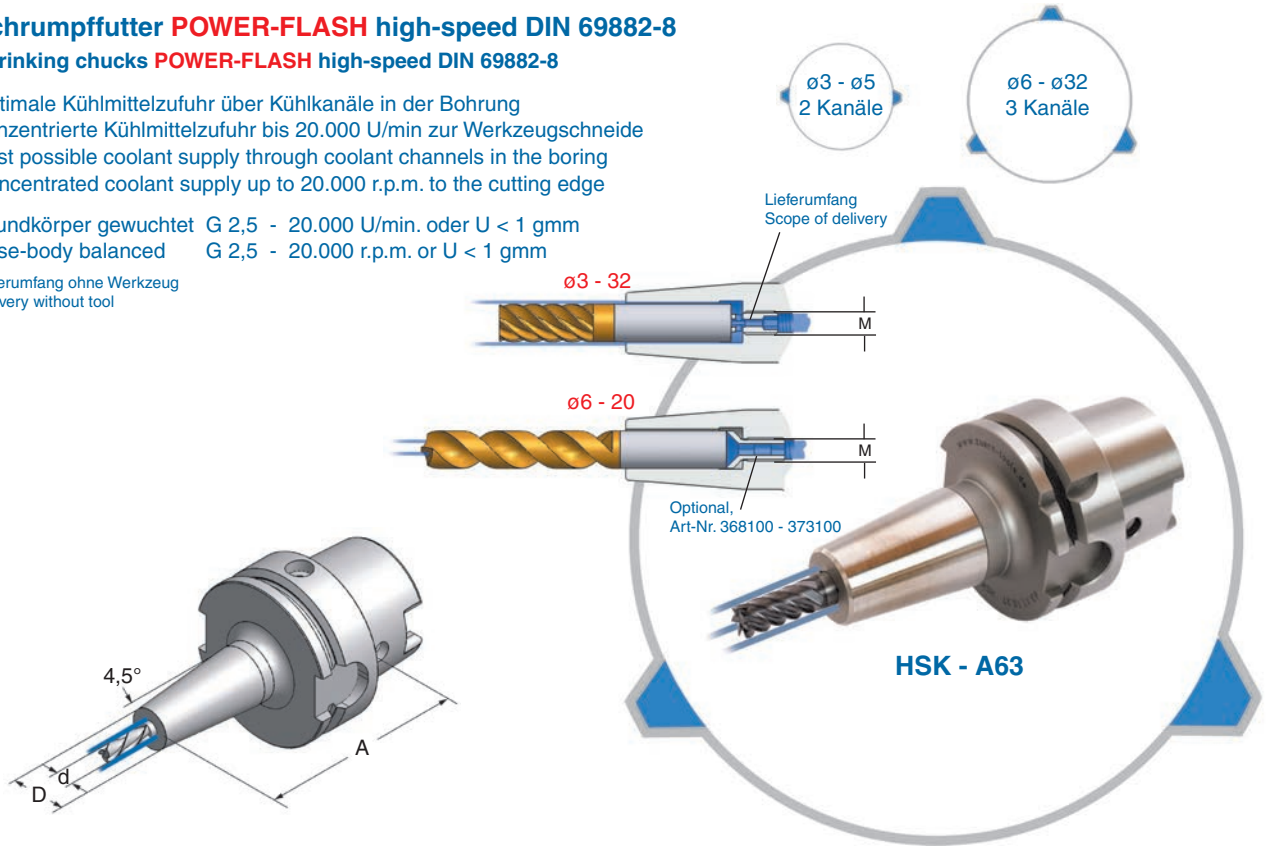
Schrumpffutter POWER-FLASH high-speed DIN 69882-8
Shrinking chucks POWER-FLASH high-speed DIN 69882-8

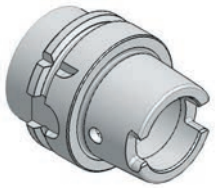
Optimale Kühlmittelzufuhr über Kühlkanäle in der Bohrung
Konzentrierte Kühlmittelzufuhr bis 20.000 U/min zur Werkzeugschneide
Best possible coolant supply through coolant channels in the boring
Concentrated coolant supply up to 20.000 r.p.m. to the cutting edge

Grundkörper gewuchtet G 2,5 - 20.000 U/min. oder U < 1 gmm
Base-body balanced G 2,5 - 20.000 r.p.m. or U < 1 gmm

Lieferumfang ohne Werkzeug
Delivery without tool



HSK - A



HSK - A 63

Art.-Nr.	Typ	A	d	D	M
63.11.03.37	HSK-A63x03SCx 80	80	3	10	M6
63.11.04.37	HSK-A63x04SCx 80	80	4	11	M6
63.11.05.37	HSK-A63x05SCx 80	80	5	14	M8x1
63.11.06.37	HSK-A63x06SCx 80	80	6	16	M8x1
63.11.06.372	HSK-A63x06SCx130	130	6	16	M8x1
63.11.06.373	HSK-A63x06SCx160	160	6	21	M8x1
63.11.08.37	HSK-A63x08SCx 80	80	8	21	M8x1
63.11.08.372	HSK-A63x08SCx130	130	8	21	M8x1
63.11.08.373	HSK-A63x08SCx160	160	8	21	M8x1
63.11.10.37	HSK-A63x10SCx 85	85	10	24	M8x1
63.11.10.372	HSK-A63x10SCx130	130	10	24	M8x1
63.11.10.373	HSK-A63x10SCx160	160	10	24	M8x1
63.11.12.37	HSK-A63x12SCx 90	90	12	24	M10x1
63.11.12.372	HSK-A63x12SCx130	130	12	24	M10x1
63.11.14.37	HSK-A63x14SCx 90	90	14	27	M10x1
63.11.16.37	HSK-A63x16SCx 95	95	16	27	M10x1
63.11.16.372	HSK-A63x16SCx130	130	16	27	M10x1
63.11.18.37	HSK-A63x18SCx 95	95	18	33	M10x1
63.11.20.37	HSK-A63x20SCx100	100	20	33	M10x1
63.11.20.372	HSK-A63x20SCx130	130	20	33	M10x1
63.11.25.37	HSK-A63x25SCx100	100	25	44	M10x1
63.11.32.37	HSK-A63x32SCx100	100	32	44	M10x1

Anschlagschraube
Stop screw

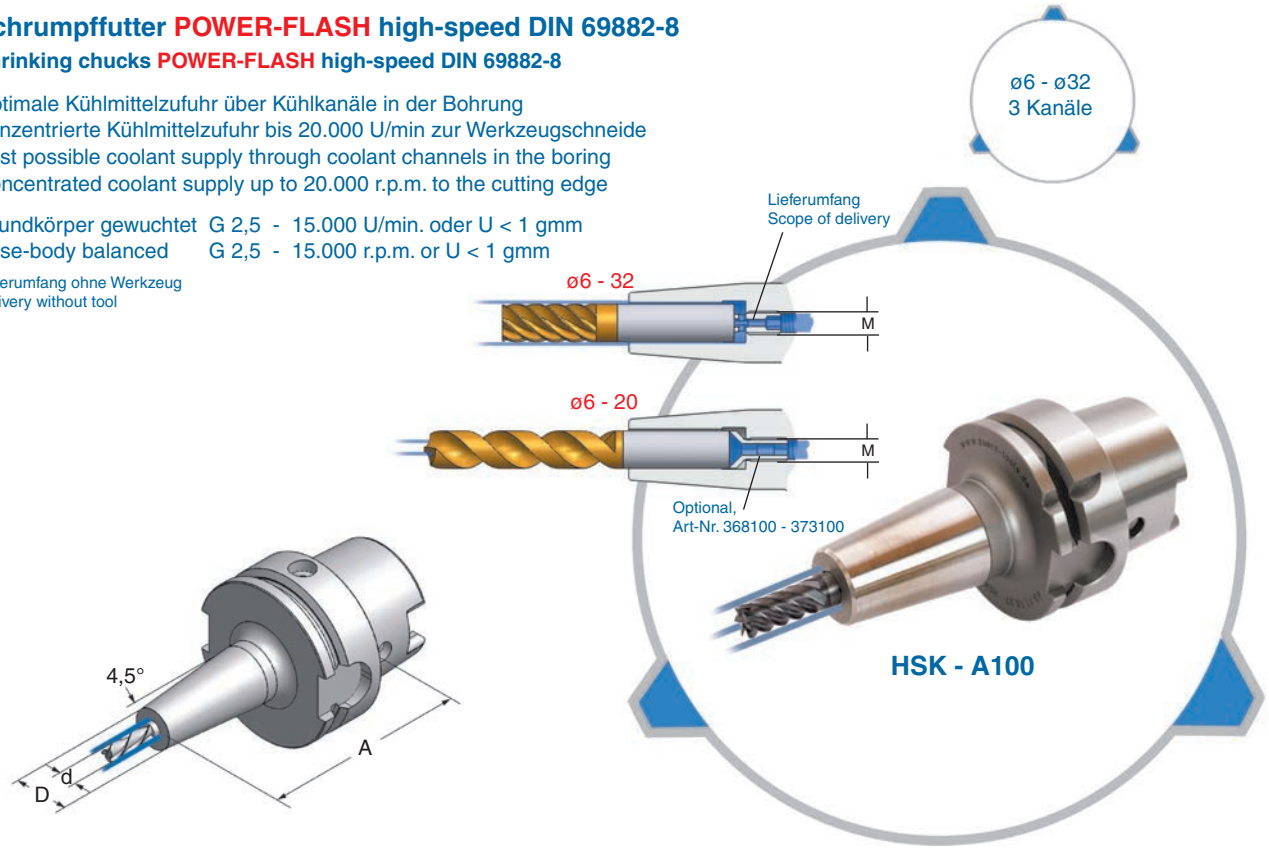
Art.-Nr.	d	M
368100	ø6	M 8x1
369100	ø8	M 8x1
370100	ø10	M10x1
370100-2	ø10	M 8x1
371100	ø12	M10x1
372100	ø16	M10x1
373100	ø20	M10x1

Schrumpffutter POWER-FLASH high-speed DIN 69882-8
Shrinking chucks POWER-FLASH high-speed DIN 69882-8

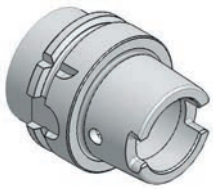
Optimale Kühlmittelzufuhr über Kühlkanäle in der Bohrung
Konzentrierte Kühlmittelzufuhr bis 20.000 U/min zur Werkzeugschneide
Best possible coolant supply through coolant channels in the boring
Concentrated coolant supply up to 20.000 r.p.m. to the cutting edge

Grundkörper gewuchtet G 2,5 - 15.000 U/min. oder U < 1 gmm
Base-body balanced G 2,5 - 15.000 r.p.m. or U < 1 gmm

Lieferumfang ohne Werkzeug
Delivery without tool



HSK - A



Anschlagschraube Stop screw		
Art.-Nr.	d	M
368100	ø6	M 8x1
369100	ø8	M 8x1
370100	ø10	M10x1
370100-2	ø10	M 8x1
371100	ø12	M10x1
372100	ø16	M10x1
373100	ø20	M10x1

HSK - A 100

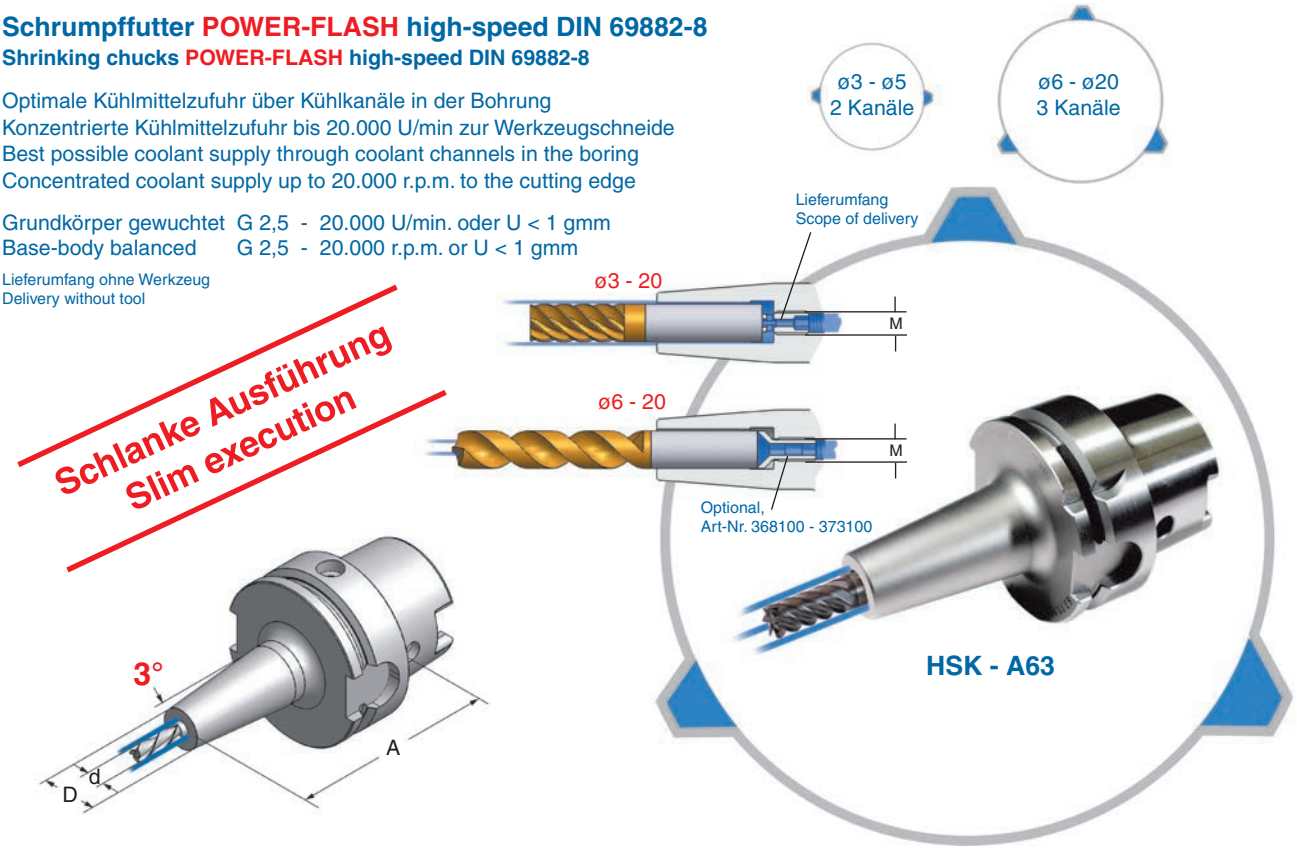
Art.-Nr.	Typ	A	d	D	M
100.11.06.37	HSK-A100x06SCx100	100	6	21	M 8x1
100.11.06.373	HSK-A100x06SCx160	160	6	21	M 8x1
100.11.08.37	HSK-A100x08SCx100	100	8	21	M 8x1
100.11.08.373	HSK-A100x08SCx160	160	8	21	M 8x1
100.11.10.37	HSK-A100x10SCx100	100	10	24	M10x1
100.11.10.373	HSK-A100x10SCx160	160	10	24	M10x1
100.11.12.37	HSK-A100x12SCx100	100	12	24	M10x1
100.11.12.373	HSK-A100x12SCx160	160	12	24	M10x1
100.11.14.37	HSK-A100x14SCx100	100	14	27	M10x1
100.11.16.37	HSK-A100x16SCx100	100	16	27	M10x1
100.11.16.373	HSK-A100x16SCx160	160	16	27	M10x1
100.11.20.37	HSK-A100x20SCx100	100	20	33	M10x1
100.11.20.373	HSK-A100x20SCx160	160	20	33	M10x1
100.11.25.37	HSK-A100x25SCx120	120	25	44	M10x1
100.11.25.373	HSK-A100x25SCx160	160	25	44	M10x1
100.11.32.37	HSK-A100x32SCx120	120	32	44	M10x1

Schrumpffutter POWER-FLASH high-speed DIN 69882-8
Shrinking chucks POWER-FLASH high-speed DIN 69882-8

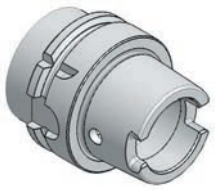
Optimale Kühlmittelzufuhr über Kühlkanäle in der Bohrung
Konzentrierte Kühlmittelzufuhr bis 20.000 U/min zur Werkzeugschneide
Best possible coolant supply through coolant channels in the boring
Concentrated coolant supply up to 20.000 r.p.m. to the cutting edge

Grundkörper gewuchtet G 2,5 - 20.000 U/min. oder U < 1 gmm
Base-body balanced G 2,5 - 20.000 r.p.m. or U < 1 gmm

Lieferumfang ohne Werkzeug
Delivery without tool



HSK - A



HSK - A 63

Art.-Nr.	Typ	A	d	D	M	α
63.11.03.370	HSK-A63x03SCx80	80	3	9	M6	3°
63.11.04.370	HSK-A63x04SCx80	80	4	10	M6	3°
63.11.05.370	HSK-A63x05SCx80	80	5	11	M6	3°
63.11.06.370	HSK-A63x06SCx80	80	6	12	M8x1	3°
63.11.08.370	HSK-A63x08SCx80	80	8	14	M8x1	3°
63.11.10.370	HSK-A63x10SCx80	80	10	16	M8x1	3°
63.11.12.370	HSK-A63x12SCx80	80	12	18	M8x1	3°
63.11.14.370	HSK-A63x14SCx80	80	14	20	M8x1	3°
63.11.16.370	HSK-A63x16SCx80	80	16	22	M8x1	3°
63.11.20.370	HSK-A63x20SCx80	80	20	26	M8x1	3°

Anschlagschraube
Stop screw

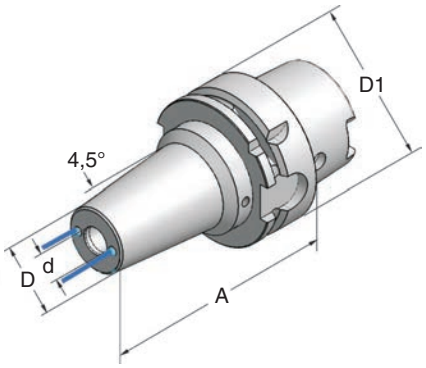
Art.-Nr.	d	M
368100	ø6	M 8x1
369100	ø8	M 8x1
370100-2	ø10	M 8x1

Schrumpffutter mit verschließbaren Kühlbohrungen DIN 69882-8
Shrinking chucks with lockable coolant borings DIN 69882-8

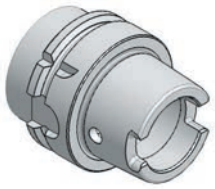
Kühlmittelzufuhr über Kühlkanäle
Konzentrierte Kühlmittelzufuhr bis 20.000 U/min zur Werkzeugschneide
Coolant supply through coolant channels
Concentrated coolant supply up to 20.000 r.p.m. to the cutting edge

Grundkörper gewuchtet G 2,5 - 20.000 U/min.
Base-body balanced G 2,5 - 20.000 r.p.m.

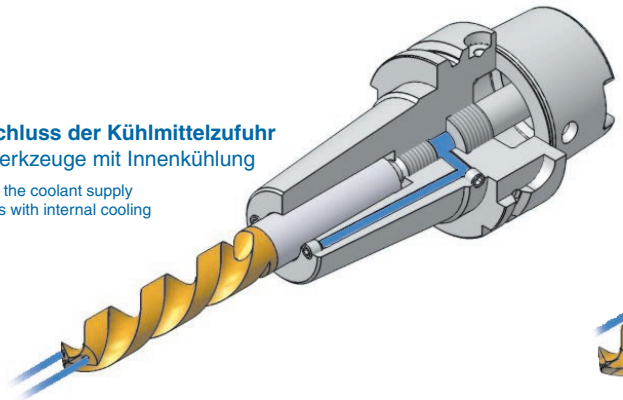
Lieferumfang ohne Werkzeug
Delivery without tool



HSK - A **HSK - A 63**

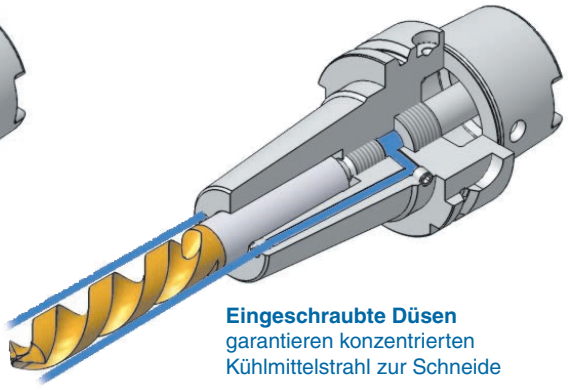


Art.-Nr.	Typ	D1	A	d	D
63.11.08.36	HSK-A63x08Sx 80	63	80	8	25
63.11.08.362	HSK-A63x08Sx130	63	130	8	25
63.11.08.363	HSK-A63x08Sx160	63	160	8	25
63.11.10.36	HSK-A63x10Sx 85	63	85	10	27
63.11.10.362	HSK-A63x10Sx130	63	130	10	27
63.11.10.363	HSK-A63x10Sx160	63	160	10	27
63.11.12.36	HSK-A63x12Sx 90	63	90	12	29
63.11.12.362	HSK-A63x12Sx130	63	130	12	29
63.11.12.363	HSK-A63x12Sx160	63	160	12	29
63.11.14.36	HSK-A63x14Sx 90	63	90	14	31
63.11.14.362	HSK-A63x14Sx130	63	130	14	31
63.11.14.363	HSK-A63x14Sx160	63	160	14	31
63.11.16.36	HSK-A63x16Sx 95	63	95	16	33
63.11.16.362	HSK-A63x16Sx130	63	130	16	33
63.11.16.363	HSK-A63x16Sx160	63	160	16	33
63.11.18.36	HSK-A63x18Sx 95	63	95	18	35
63.11.18.362	HSK-A63x18Sx130	63	130	18	35
63.11.20.36	HSK-A63x20Sx100	63	100	20	37
63.11.20.362	HSK-A63x20Sx130	63	130	20	37
63.11.25.36	HSK-A63x25Sx100	63	100	25	44



Verschluss der Kühlmittelzufuhr
für Werkzeuge mit Innenkühlung

Seal of the coolant supply
for tools with internal cooling



Eingeschraubte Düsen
garantieren konzentrierten
Kühlmittelstrahl zur Schneide

Screwed in coolant nozzles guarantee
concentrated jet of coolant to the edge

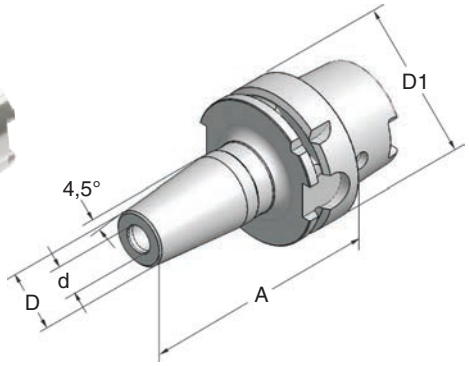
Schrumpffutter ohne Kühlkanäle DIN 69882-8
Shrinking chucks without coolant channels DIN 69882-8

Rundlaufgenauigkeit HSK zu Werkzeugaufnahme < 0,005
Concentricity from the taper to the holding part < 0,005

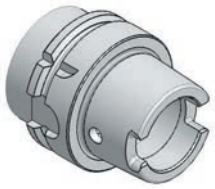
Grundkörper gewuchtet G 2,5 - 20.000 U/min. oder U < 1 gmm
Base-body balanced G 2,5 - 20.000 r.p.m. or U < 1 gmm

Sonderausführungen / Inch-Ausführungen auf Anfrage
Special executions / inch-executions on inquiry

HSK-A32, HSK-A50 + HSK-C50 auf Anfrage / on inquiry



HSK - A



HSK - A 40

Art.-Nr.	Typ	D1	A	d	D
40.11.03.31	HSK-A40x03Sx 65	40	65	3	10
40.11.04.31	HSK-A40x04Sx 65	40	65	4	11
40.11.06.31	HSK-A40x06Sx 65	40	65	6	21
40.11.08.31	HSK-A40x08Sx 65	40	65	8	21
40.11.10.31	HSK-A40x10Sx 65	40	65	10	24
40.11.12.31	HSK-A40x12Sx 70	40	70	12	24
40.11.14.31	HSK-A40x14Sx 70	40	70	14	27
40.11.16.31	HSK-A40x16Sx 75	40	75	16	27
40.11.20.31	HSK-A40x20Sx 75	40	75	20	27

HSK - C

HSK - C 40

40.14.06.31	HSK-C40x06Sx 65	40	65	6	21
40.14.08.31	HSK-C40x08Sx 65	40	65	8	21
40.14.10.31	HSK-C40x10Sx 65	40	65	10	24
40.14.12.31	HSK-C40x12Sx 70	40	70	12	24
40.14.14.31	HSK-C40x14Sx 70	40	70	14	27
40.14.16.31	HSK-C40x16Sx 75	40	75	16	27

HSK - E

HSK - E 40

40.12.03.31	HSK-E40x03Sx 65	40	65	3	10
40.12.04.31	HSK-E40x04Sx 65	40	65	4	11
40.12.06.31	HSK-E40x06Sx 65	40	65	6	21
40.12.08.31	HSK-E40x08Sx 65	40	65	8	21
40.12.10.31	HSK-E40x10Sx 65	40	65	10	24
40.12.12.31	HSK-E40x12Sx 70	40	70	12	24
40.12.14.31	HSK-E40x14Sx 70	40	70	14	27
40.12.16.31	HSK-E40x16Sx 75	40	75	16	27
40.12.20.31	HSK-E40x20Sx 75	40	75	20	27

HSK - E 50

50.12.06.31	HSK-E50x06Sx 80	50	80	6	21
50.12.08.31	HSK-E50x08Sx 80	50	80	8	21
50.12.10.31	HSK-E50x10Sx 85	50	85	10	24
50.12.12.31	HSK-E50x12Sx 90	50	90	12	24
50.12.14.31	HSK-E50x14Sx 90	50	90	14	27
50.12.16.31	HSK-E50x16Sx 95	50	95	16	27
50.12.20.31	HSK-E50x20Sx 95	50	95	20	33
50.12.25.31	HSK-E50x25Sx100	50	100	25	38

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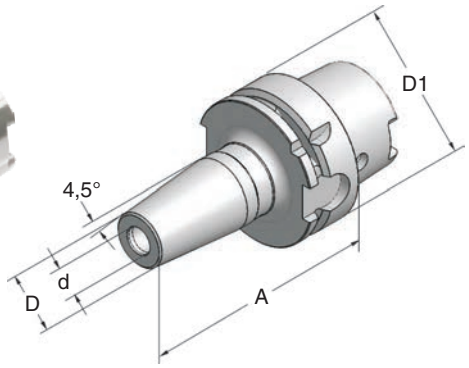
Schrumpffutter ohne Kühlkanäle DIN 69882-8
Shrinking chucks without coolant channels DIN 69882-8

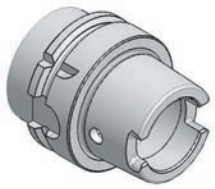
Rundlaufgenauigkeit HSK zu Werkzeugaufnahme < 0,005
Concentricity from the taper to the holding part < 0,005

Grundkörper gewuchtet G 2,5 - 20.000 U/min. oder U < 1 gmm
Base-body balanced G 2,5 - 20.000 r.p.m. or U < 1 gmm

Sonderausführungen / Inch-Ausführungen auf Anfrage
Special executions / inch-executions on inquiry



HSK - A



HSK - A 63

Art.-Nr.	Typ	D1	A	d	D
63.11.03.31	HSK-A63x03Sx 80	63	80	3	10
63.11.04.31	HSK-A63x04Sx 80	63	80	4	11
63.11.06.31	HSK-A63x06Sx 80	63	80	6	21
63.11.06.32	HSK-A63x06Sx130	63	130	6	21
63.11.06.33	HSK-A63x06Sx160	63	160	6	21
63.11.08.31	HSK-A63x08Sx 80	63	80	8	21
63.11.08.32	HSK-A63x08Sx130	63	130	8	21
63.11.08.33	HSK-A63x08Sx160	63	160	8	21
63.11.10.31	HSK-A63x10Sx 85	63	85	10	24
63.11.10.32	HSK-A63x10Sx130	63	130	10	24
63.11.10.33	HSK-A63x10Sx160	63	160	10	24
63.11.12.31	HSK-A63x12Sx 90	63	90	12	24
63.11.12.32	HSK-A63x12Sx130	63	130	12	24
63.11.12.33	HSK-A63x12Sx160	63	160	12	24
63.11.14.31	HSK-A63x14Sx 90	63	90	14	27
63.11.14.32	HSK-A63x14Sx130	63	130	14	27
63.11.14.33	HSK-A63x14Sx160	63	160	14	27
63.11.16.31	HSK-A63x16Sx 95	63	95	16	27
63.11.16.32	HSK-A63x16Sx130	63	130	16	27
63.11.16.33	HSK-A63x16Sx160	63	160	16	27
63.11.18.31	HSK-A63x18Sx 95	63	95	18	33
63.11.18.32	HSK-A63x18Sx130	63	130	18	33
63.11.18.33	HSK-A63x18Sx160	63	160	18	33
63.11.20.31	HSK-A63x20Sx100	63	100	20	33
63.11.20.32	HSK-A63x20Sx130	63	130	20	33
63.11.20.33	HSK-A63x20Sx160	63	160	20	33
63.11.25.31	HSK-A63x25Sx100	63	100	25	44
63.11.25.32	HSK-A63x25Sx130	63	130	25	44
63.11.25.33	HSK-A63x25Sx160	63	160	25	44
63.11.32.31	HSK-A63x32Sx100	63	100	32	44
63.11.32.32	HSK-A63x32Sx130	63	130	32	44

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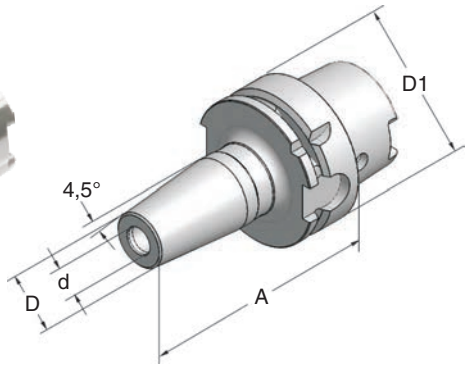
Schrumpffutter ohne Kühlkanäle DIN 69882-8
Shrinking chucks without coolant channels DIN 69882-8

Rundlaufgenauigkeit HSK zu Werkzeugaufnahme < 0,005
Concentricity from the taper to the holding part < 0,005

Grundkörper gewuchtet G 2,5 - 20.000 U/min. oder U < 1 gmm
Base-body balanced G 2,5 - 20.000 r.p.m. or U < 1 gmm

Sonderausführungen / Inch-Ausführungen auf Anfrage
Special executions / inch-executions on inquiry



HSK - F

HSK - F 63

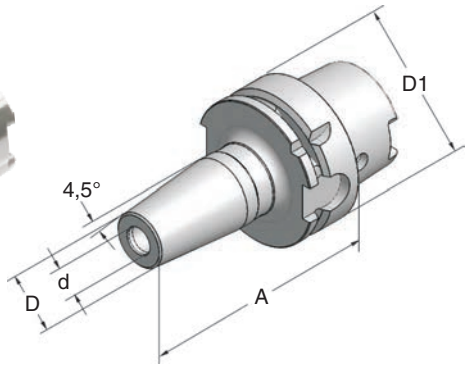
Art.-Nr.	Typ	D1	A	d	D
63.13.06.31	HSK-F63x06Sx 80	63	80	6	21
63.13.08.31	HSK-F63x08Sx 80	63	80	8	21
63.13.10.31	HSK-F63x10Sx 85	63	85	10	24
63.13.12.31	HSK-F63x12Sx 90	63	90	12	24
63.13.14.31	HSK-F63x14Sx 90	63	90	14	27
63.13.16.31	HSK-F63x16Sx 95	63	95	16	27
63.13.20.31	HSK-F63x20Sx 95	63	95	20	33
63.13.25.31	HSK-F63x25Sx100	63	100	25	44
63.13.32.31	HSK-F63x32Sx100	63	100	32	44

Schrumpffutter ohne Kühlkanäle DIN 69882-8
Shrinking chucks without coolant channels DIN 69882-8

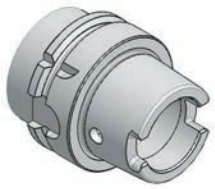
Rundlaufgenauigkeit HSK zu Werkzeugaufnahme < 0,005
Concentricity from the taper to the holding part < 0,005

Grundkörper gewuchtet G 2,5 - 15.000 U/min. oder U < 1 gmm
Base-body balanced G 2,5 - 15.000 r.p.m. or U < 1 gmm

Sonderausführungen / Inch-Ausführungen auf Anfrage
Special executions / inch-executions on inquiry



HSK - A



HSK - A 100

Art.-Nr.	Typ	D1	A	d	D
100.11.06.31	HSK-A100x06Sx 85	100	85	6	21
100.11.06.313	HSK-A100x06Sx160	100	160	6	21
100.11.08.31	HSK-A100x08Sx 85	100	85	8	21
100.11.08.313	HSK-A100x08Sx160	100	160	8	21
100.11.10.31	HSK-A100x10Sx 90	100	90	10	24
100.11.10.313	HSK-A100x10Sx160	100	160	10	24
100.11.12.31	HSK-A100x12Sx 95	100	95	12	24
100.11.12.313	HSK-A100x12Sx160	100	160	12	24
100.11.16.31	HSK-A100x16Sx100	100	100	16	27
100.11.16.313	HSK-A100x16Sx160	100	160	16	27
100.11.20.31	HSK-A100x20Sx105	100	105	20	33
100.11.20.313	HSK-A100x20Sx160	100	160	20	33
100.11.25.31	HSK-A100x25Sx115	100	115	25	44
100.11.25.313	HSK-A100x25Sx160	100	160	25	44
100.11.32.31	HSK-A100x32Sx120	100	120	32	44

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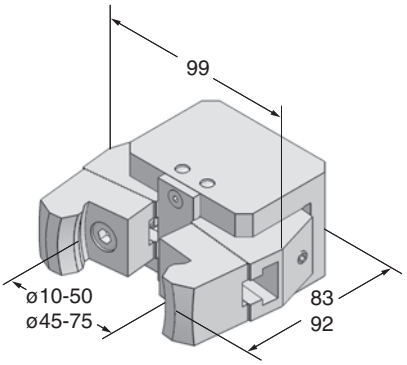
Stangengreifer Spannbereich ø10 - 75mm
Bar puller clamping range ø10 - 75mm

Incl. 2 Satz Spannbacken (ø10-50 & ø45-75)
Incl. 2 sets clamping jaws (ø10-50 & ø45-75)

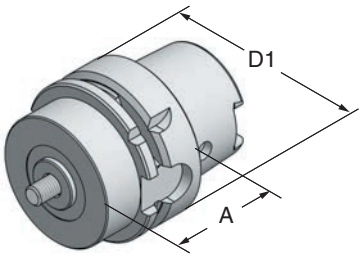
Die Aufnahme muss separat bestellt werden !
The holder has to be ordered separately !



Stangengreifer

Art.-Nr.	
30.0924	excl. Aufnahme / excl. holder

Aufnahme für Stangengreifer
Holder for bar puller



HSK - A 63

Art.-Nr.	D1	A
63.11.0924	63	43

HSK - A 100

100.11.0924	100	46

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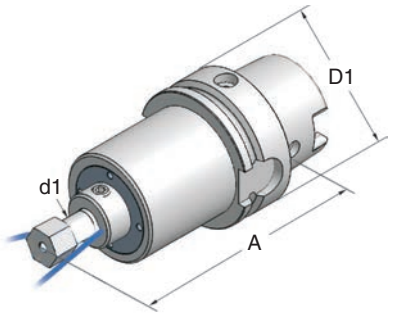
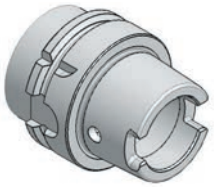
Räumwerkzeughalter für Innenprofile
Broaching toolholders for internal profiles

Lieferumfang ohne Räumstempel
Delivery without broaching cutter



HSK - A



HSK - A 40

Art.-Nr.	Typ	D1	A	d1
40.11.08.5000	HSK-A40x08 x 95	40	95	8

HSK - A 63

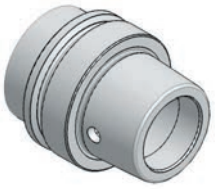
Art.-Nr.	Typ	D1	A	d1
63.11.12.5000	HSK-A63x12x115	63	115	12

HSK - C

HSK - C 50

Art.-Nr.	Typ	D1	A	d1
50.14.12.5000	HSK-C50x12x100	50	100	12

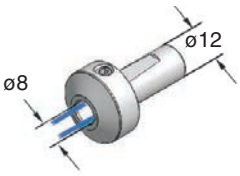
HSK - E



HSK - E 40

Art.-Nr.	Typ	D1	A	d1
40.12.08.5000	HSK-E40x08 x 95	40	95	8

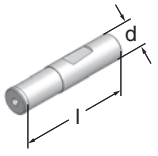
Reduzierung
Reduction



Reduzierung

Art.-Nr.	Typ
1208.5000	Reduzierung / Reduction ø12/ø8

Kontrolldorn
Control arbor



Kontrolldorn

Art.-Nr.	d	l
08.5000	8	28
12.5000	12	55

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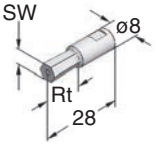
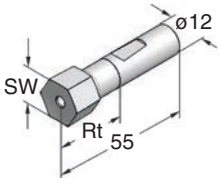
Räumstempel SW
Hexagon-broaching cutters

TiN beschichtet
TiN coated

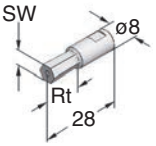


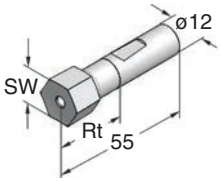


Art.-Nr.	SW	ø	Rt = Räumtiefe
08.015	1,5	8	3
08.020	2	8	4
08.025	2,5	8	4
08.030	3	8	5
08.040	4	8	7
08.050	5	8	9
08.060	6	8	11
08.070	7	8	11
08.080	8	8	11
08.100	10	8	14
12.040	4	12	7
12.050	5	12	9
12.060	6	12	11
12.070	7	12	13
12.080	8	12	15
12.090	9	12	16
12.100	10	12	19
12.110	11	12	19
12.120	12	12	19
12.130	13	12	19
12.140	14	12	24
12.150	15	12	24
12.160	16	12	24
12.170	17	12	24
12.190	19	12	24
12.220	22	12	24

Räumstempel SW INCH
Hexagon-broaching cutters INCH

TiN beschichtet
TiN coated

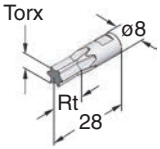


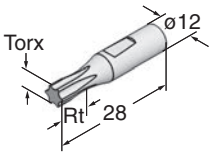


Art.-Nr.	SW INCH	ø	Rt = Räumtiefe
08.3/32	3/32“	8	4
08.7/64	7/64“	8	4
08.1/8	1/8“	8	5
08.3/16	3/16“	8	9
08.7/32	7/32“	8	9
08.1/4	1/4“	8	11
08.5/16	5/16“	8	11
08.3/8	3/8“	8	11
12.1/4	1/4“	12	11
12.3/8	3/8“	12	19
12.7/16	7/16“	12	19
12.1/2	1/2“	12	19

Räumstempel TORX EN ISO 10664
Broaching cutters TORX EN ISO 10664

TiN beschichtet
TiN coated



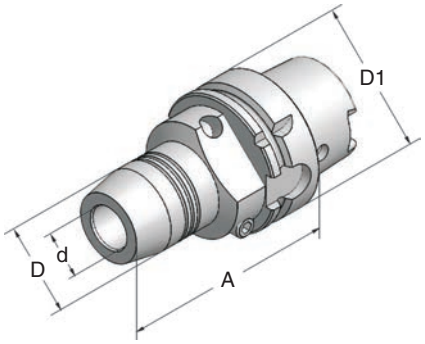


Art.-Nr.	TORX	ø	Rt = Räumtiefe
08.T05	5	8	3
08.T06	6	8	3
08.T07	7	8	3
08.T08	8	8	3
08.T09	9	8	3
08.T10	10	8	3
08.T15	15	8	3
08.T20	20	8	4
08.T25	25	8	4
08.T27	27	8	4
08.T30	30	8	4
08.T40	40	8	5
08.T45	45	8	5
12.T50	50	12	7
12.T55	55	12	10

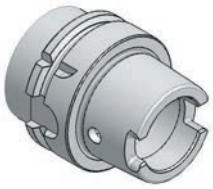
Dehnspannfutter DIN 69882-7
Expansion chucks DIN 69882-7

Rundlaufgenauigkeit HSK zu Werkzeugaufnahme < 0,005
Concentricity from the taper to the holding part < 0,005

Grundkörper gewuchtet G 2,5 - 25.000 U/min.
Base-body balanced G 2,5 - 25.000 r.p.m.



HSK - A



Art.-Nr.	Typ	D1	A	d	D
	HSK - A 40				
40.11.06.70	HSK-A40x06x80	40	80	6	26
40.11.08.70	HSK-A40x08x80	40	80	8	28
40.11.10.70	HSK-A40x10x85	40	85	10	30
40.11.12.70	HSK-A40x1290	40	90	12	32
	HSK - A 50				
50.11.06.70	HSK-A50x06x70	50	70	6	26
50.11.08.70	HSK-A50x08x70	50	70	8	28
50.11.10.70	HSK-A50x10x75	50	75	10	30
50.11.12.70	HSK-A50x12x85	50	85	12	32
50.11.16.70	HSK-A50x16x90	50	90	16	38
50.11.20.70	HSK-A50x20x90	50	90	20	42
	HSK - A 63				
63.11.06.70	HSK-A63x06x 70	63	70	6	26
63.11.08.70	HSK-A63x08x 70	63	70	8	28
63.11.10.70	HSK-A63x10x 80	63	80	10	30
63.11.12.70	HSK-A63x12x 85	63	85	12	32
63.11.14.70	HSK-A63x14x 85	63	85	14	34
63.11.16.70	HSK-A63x16x 90	63	90	16	38
63.11.18.70	HSK-A63x18x 90	63	90	18	40
63.11.20.70	HSK-A63x20x 90	63	90	20	42
63.11.20.71	HSK-A63x20x 80	63	80	20	52,5
63.11.25.70	HSK-A63x25x120	63	120	25	57
63.11.32.70	HSK-A63x32x125	63	125	32	64

Zwischenhülsen
Sleeves

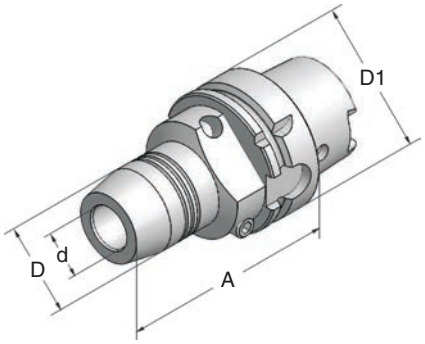
ø12		ø20		ø32	
Art.-Nr.	Typ	Art.-Nr.	Typ	Art.-Nr.	Typ
204370	GZB-S 12/03	203197	GZB-S 20/03	204320	GZB-S 32/06
204371	GZB-S 12/04	203198	GZB-S 20/04	204321	GZB-S 32/08
204372	GZB-S 12/05	203199	GZB-S 20/05	204322	GZB-S 32/10
204373	GZB-S 12/06	203200	GZB-S 20/06	204323	GZB-S 32/12
204374	GZB-S 12/08	203201	GZB-S 20/08	204324	GZB-S 32/14
204375	GZB-S 12/10	203202	GZB-S 20/10	204325	GZB-S 32/16
		203203	GZB-S 20/12	204326	GZB-S 32/18
		203204	GZB-S 20/14	204327	GZB-S 32/20
		203205	GZB-S 20/16	204328	GZB-S 32/25

Dehnspannfutter DIN 69882-7
Expansion chucks DIN 69882-7

Rundlaufgenauigkeit HSK zu Werkzeugaufnahme < 0,005
Concentricity from the taper to the holding part < 0,005

Grundkörper gewuchtet G 2,5 - 25.000 U/min.
Base-body balanced G 2,5 - 25.000 r.p.m.

HSK-E63 + HSK-F63 auf Anfrage
HSK-E63 + HSK-F63 on inquiry



HSK - C

Art.-Nr.	Typ	D1	A	d	D
	HSK - C 40				
40.14.06.70	HSK-C40x06x60	40	60	6	26
40.14.08.70	HSK-C40x08x60	40	60	8	28
40.14.10.70	HSK-C40x10x65	40	65	10	30
40.14.12.70	HSK-C40x12x70	40	70	12	32
	HSK - C 50				
50.14.06.70	HSK-C50x06x60	50	60	6	26
50.14.08.70	HSK-C50x08x60	50	60	8	28
50.14.10.70	HSK-C50x10x65	50	65	10	30
50.14.12.70	HSK-C50x12x75	50	75	12	32
50.14.16.70	HSK-C50x16x80	50	80	16	38
50.14.20.70	HSK-C50x20x80	50	80	20	42

HSK - E

	HSK - E 40				
40.12.06.70	HSK-E40x06x70	40	70	6	26
40.12.08.70	HSK-E40x08x70	40	70	8	26
40.12.10.70	HSK-E40x10x75	40	75	10	30
40.12.12.70	HSK-E40x12x80	40	80	12	32
	HSK - E 50				
50.12.06.70	HSK-E50x06x70	50	70	6	26
50.12.08.70	HSK-E50x08x70	50	70	8	28
50.12.10.70	HSK-E50x10x75	50	75	10	30
50.12.12.70	HSK-E50x12x85	50	85	12	32
50.12.16.70	HSK-E50x16x90	50	90	16	38
50.12.20.70	HSK-E50x20x90	50	90	20	42

Zwischenhülsen siehe Seite 38
Sleeves see page 38

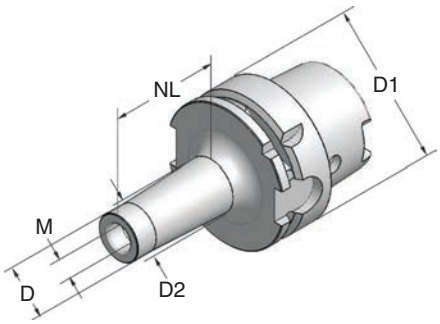
Aufnahmen für Einschraubfräser HSK - A63
Adaptors for end mills with thread shank

Rundlaufgenauigkeit HSK zu Werkzeugaufnahme < 0,005
Concentricity from the taper to the holding part < 0,005

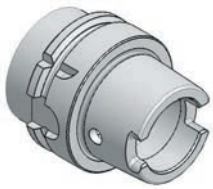
Grundkörper gewuchtet G 2,5 - 20.000 U/min. oder U < 1 gmm
Base-body balanced G 2,5 - 20.000 r.p.m. or U < 1 gmm

Sonderausführungen auf Anfrage
Special executions on inquiry

Lieferumfang ohne Fräser
Delivery without tool



HSK - A



HSK - A 63

Art.-Nr.	Typ	D1	M	NL	D	D2
63.11.06.025	HSK-A63xM 6x 25	63	6	25	9,7	10
63.11.06.050	HSK-A63xM 6x 50	63	6	50	9,7	20
63.11.06.075	HSK-A63xM 6x 75	63	6	75	9,7	23
63.11.06.100	HSK-A63xM 6x100	63	6	100	9,7	25
63.11.08.025	HSK-A63xM 8x 25	63	8	25	13	15
63.11.08.050	HSK-A63xM 8x 50	63	8	50	13	23
63.11.08.075	HSK-A63xM 8x 75	63	8	75	13	23
63.11.08.100	HSK-A63xM 8x100	63	8	100	13	25
63.11.10.025	HSK-A63xM10x 25	63	10	25	18	20
63.11.10.050	HSK-A63xM10x 50	63	10	50	18	25
63.11.10.075	HSK-A63xM10x 75	63	10	75	18	28
63.11.10.100	HSK-A63xM10x100	63	10	100	18	30
63.11.12.025	HSK-A63xM12x 25	63	12	25	21	24
63.11.12.050	HSK-A63xM12x 50	63	12	50	21	24
63.11.12.075	HSK-A63xM12x 75	63	12	75	21	31
63.11.12.100	HSK-A63xM12x100	63	12	100	21	31
63.11.12.150	HSK-A63xM12x150	63	12	150	21	36
63.11.12.200	HSK-A63xM12x200	63	12	200	21	36
63.11.16.025	HSK-A63xM16x 25	63	16	25	29	34
63.11.16.050	HSK-A63xM16x 50	63	16	50	29	34
63.11.16.075	HSK-A63xM16x 75	63	16	75	29	34
63.11.16.100	HSK-A63xM16x100	63	16	100	29	39
63.11.16.150	HSK-A63xM16x150	63	16	150	29	39
63.11.16.200	HSK-A63xM16x200	63	16	200	29	39

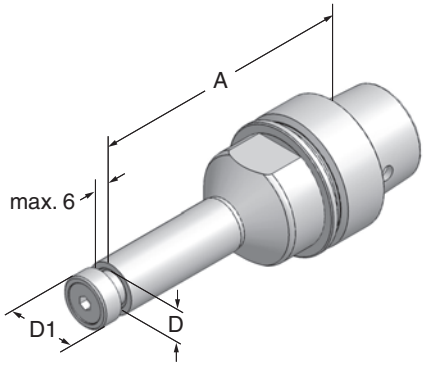
HSK - F

HSK - F 63

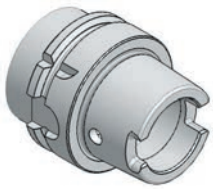
63.13.10.050	HSK-F63xM10x 50	63	10	50	18	25
63.13.10.075	HSK-F63xM10x 75	63	10	75	18	28
63.13.12.050	HSK-F63xM12x 50	63	12	50	21	24
63.13.12.075	HSK-F63xM12x 75	63	12	75	21	31
63.13.16.050	HSK-F63xM16x 50	63	16	50	29	34
63.13.16.075	HSK-F63xM16x 75	63	16	75	29	34

Sägeblattaufnahmen ø8, 10, 13, 16, 22
Sawblade holders ø8, 10, 13, 16, 22

Lieferumfang ohne Werkzeug
Delivery without tool



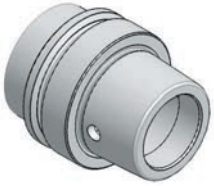
HSK - A



HSK - A 63

Art.-Nr.	Typ	A	D	D1
40.11.08.906	HSK-A40x08x85	85	8	14
40.11.10.906	HSK-A40x10x85	85	10	16
40.11.13.906	HSK-A40x13x85	85	13	19
40.11.16.906	HSK-A40x16x85	85	16	22
40.11.22.906	HSK-A40x22x85	85	22	32

HSK - E



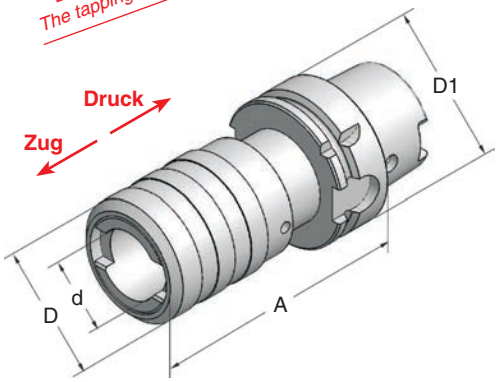
HSK - E 40

40.12.08.906	HSK-E40x08x85	85	8	14
40.12.10.906	HSK-E40x10x85	85	10	16
40.12.13.906	HSK-E40x13x85	85	13	19
40.12.16.906	HSK-E40x16x85	85	16	22
40.12.22.906	HSK-E40x22x85	85	22	32

Gewindeschneid-Schnellwechselfutter mit elastischem Längenausgleich auf Druck und Zug

Thread cutting quick-change chucks with smooth-action length compensation for pressure and tension

Der Einsatz muss separat bestellt werden !
The tapping collet has to be ordered separately !



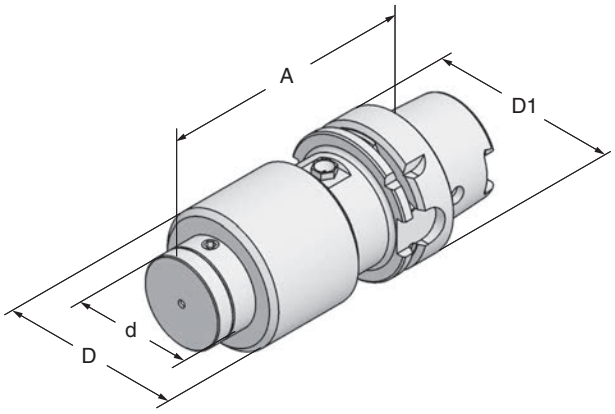
Größe 1 M3 - M12							Größe 2 M8 - M20						
Art.-Nr.	Typ	D1	A	d	D		Art.-Nr.	Typ	D1	A	d	D	
	HSK - A 50							HSK - A 50					
50.11.12.14	HSK-A 50xM3-M14	50	72	19	38		50.11.20.14	HSK-A 50xM8-M22	50	110	31	54	
	HSK - A 63							HSK - A 63					
63.11.12.14	HSK-A 63xM3-M14	63	72	19	38		63.11.20.14	HSK-A 63xM8-M22	63	110	31	54	
	HSK - A 100							HSK - A 100					
100.11.12.14	HSK-A100xM3-M14	100	80	19	38		100.11.20.14	HSK-A100xM8-M22	100	112	31	54	

Einsätze mit Rutschkupplung

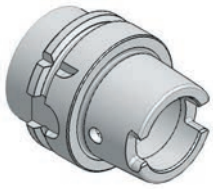
Tapping collets with cluth

Größe 1 M3 - M12		Größe 2 M8 - M20	
Art.-Nr.	Typ	Art.-Nr.	Typ
100035	ø 3,50 - M3+M4	200080	ø 8,00 - M8+M11
100045	ø 4,50 - M4+M6	200090	ø 9,00 - M9+M12
100060	ø 6,00 - M5+M6+M8	200100	ø10,00 - M10
100070	ø 7,00 - M7+M9+M10	200110	ø11,00 - M14
100080	ø 8,00 - M8+M11	200120	ø12,00 - M12+M16
100090	ø 9,00 - M9+M12	200140	ø14,00 - M18
100100	ø10,00 - M10	200160	ø16,00 - M20

Mitlaufender Anschlag gefedert
Rotary stop spring mounted



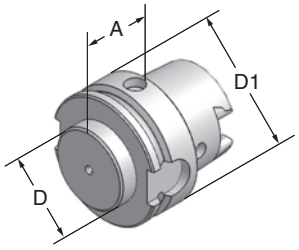
HSK - A



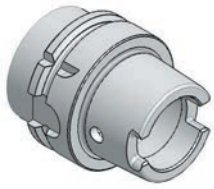
HSK - A 63

Art.-Nr.	Typ	D1	A	d	D
63.11.60.355		63	115	40	60

Schutzstopfen
Blind toolings



HSK - A



HSK - A 40

Art.-Nr.	Typ	D1	A	D
40.11.00.500	HSK-A40	40	25	25
		HSK - A 50		
50.11.00.500	HSK-A50	50	31	30
		HSK - A 63		
63.11.00.500	HSK-A63	63	35	40
		HSK - A 100		
100.11.00.500	HSK-A100	100	45	50

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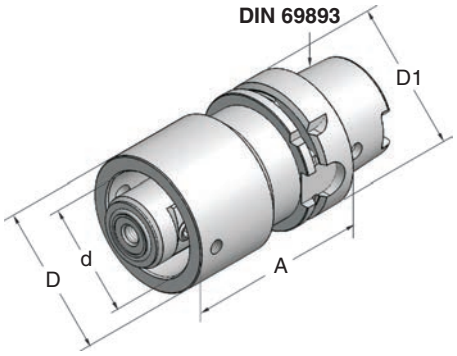
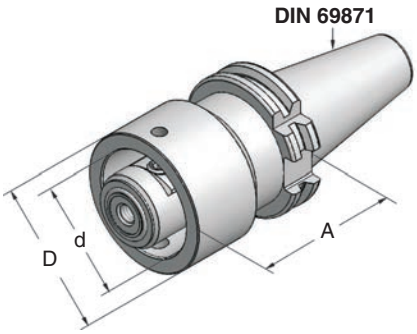
Verlängerungen
Extensions
HSK DIN 69893 – HSK DIN 69893



HSK - A 63

Art.-Nr.	Typ	D1	HSK	A	D
63.11.63A- 90	HSK-A63xA63x 90	63	A63	90	63
63.11.63A-120	HSK-A63xA63x120	63	A63	120	63

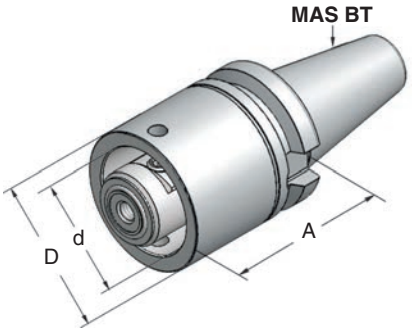
Adapter
Adaptors
SK DIN 69871 – HSK DIN 69893



DIN 69871

Art.-Nr.	Typ	SK	HSK	A	D
40.01.50A	SK40xHSK-A50-AD+B	40	A50	50	50
40.01.50E	SK40xHSK-E50-AD+B	40	E50	50	50
40.01.63A	SK40xHSK-A63-AD+B	40	A63	75	63
40.01.63E	SK40xHSK-E63-AD+B	40	E63	75	63
50.01.50A	SK50xHSK-A50-AD+B	50	A50	50	50
50.01.50E	SK50xHSK-E50-AD+B	50	E50	50	50
50.01.63A	SK50xHSK-A63-AD+B	50	A63	50	63

Adapter
Adaptors
MAS BT – HSK DIN 69893



MAS BT

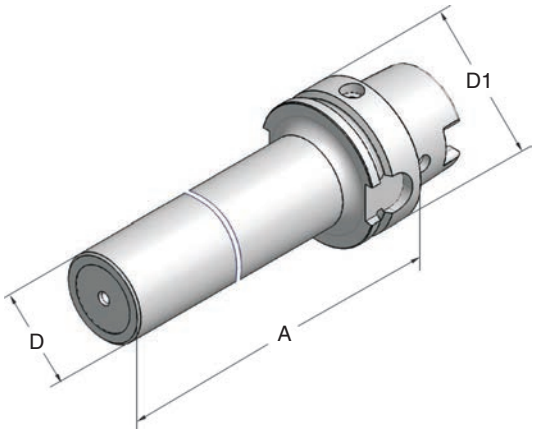
Art.-Nr.	Typ	BT	HSK	A	D
40.05.40A	BT40xHSK-A40-AD+B	40	A40	50	40
40.05.50A	BT40xHSK-A50-AD+B	40	A50	50	50
40.05.63A	BT40xHSK-A63-AD+B	40	A63	75	63

Prüfdorne in Holzetui
Control arbors in wooden case

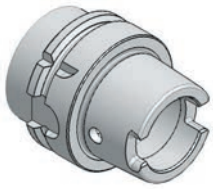
inkl. Prüfprotokoll
incl. Certificate

Rundlaufgenauigkeit < 0,005
Concentricity < 0,005

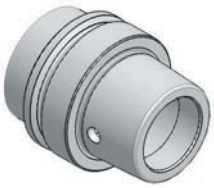
Sondergrößen auf Anfrage !
Special size on inquiry !



HSK - A



HSK - E

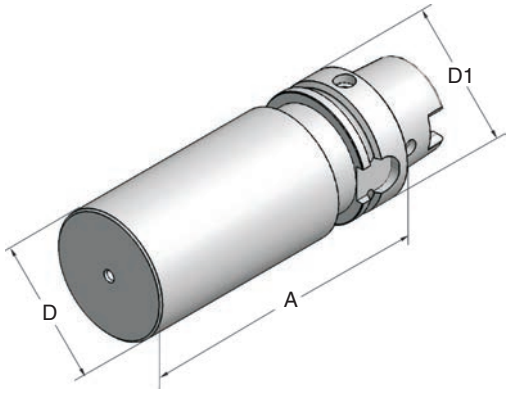


HSK - F

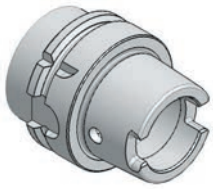
Art.-Nr.	Typ	D1	A	D
	HSK - A 40			
40.11.180	HSK-A40xø24x180	40	180	24
	HSK - A 50			
50.11.225	HSK-A50xø32x225	50	225	32
	HSK - A 63			
63.11.345	HSK-A63xø40x345	63	345	40
	HSK - A 100			
100.11.300	HSK-A100xø50x300	100	300	50
	HSK - E 40			
40.12.180	HSK-E40xø24x180	40	180	24
	HSK - E 50			
50.12.225	HSK-E50xø32x225	50	225	32
	HSK - F 63			
63.13.345	HSK-F63xø40x345	63	345	40

Rohlinge
Blanks

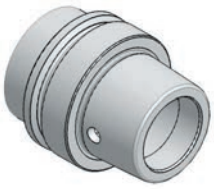
Sondergrößen auf Anfrage !
Special size on inquiry !



HSK - A

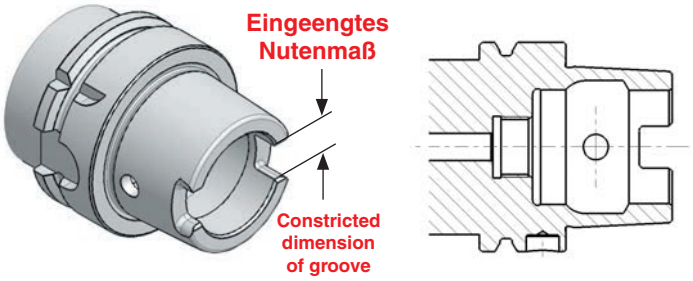


HSK - E



Art.-Nr.	Typ	D1	A	D
		HSK - A 40		
40.11.120.15	HSK-A40x44x120	40	120	44
		HSK - A 50		
50.11.150.15	HSK-A50x50x150	50	150	50
		HSK - A 63		
63.11.200.15	HSK-A63x64x200	63	200	64
		HSK - E 40		
40.12.120.15	HSK-E40x44x120	40	120	44
		HSK - E 50		
50.12.150.15	HSK-E50x50x150	50	150	50

HSK - T

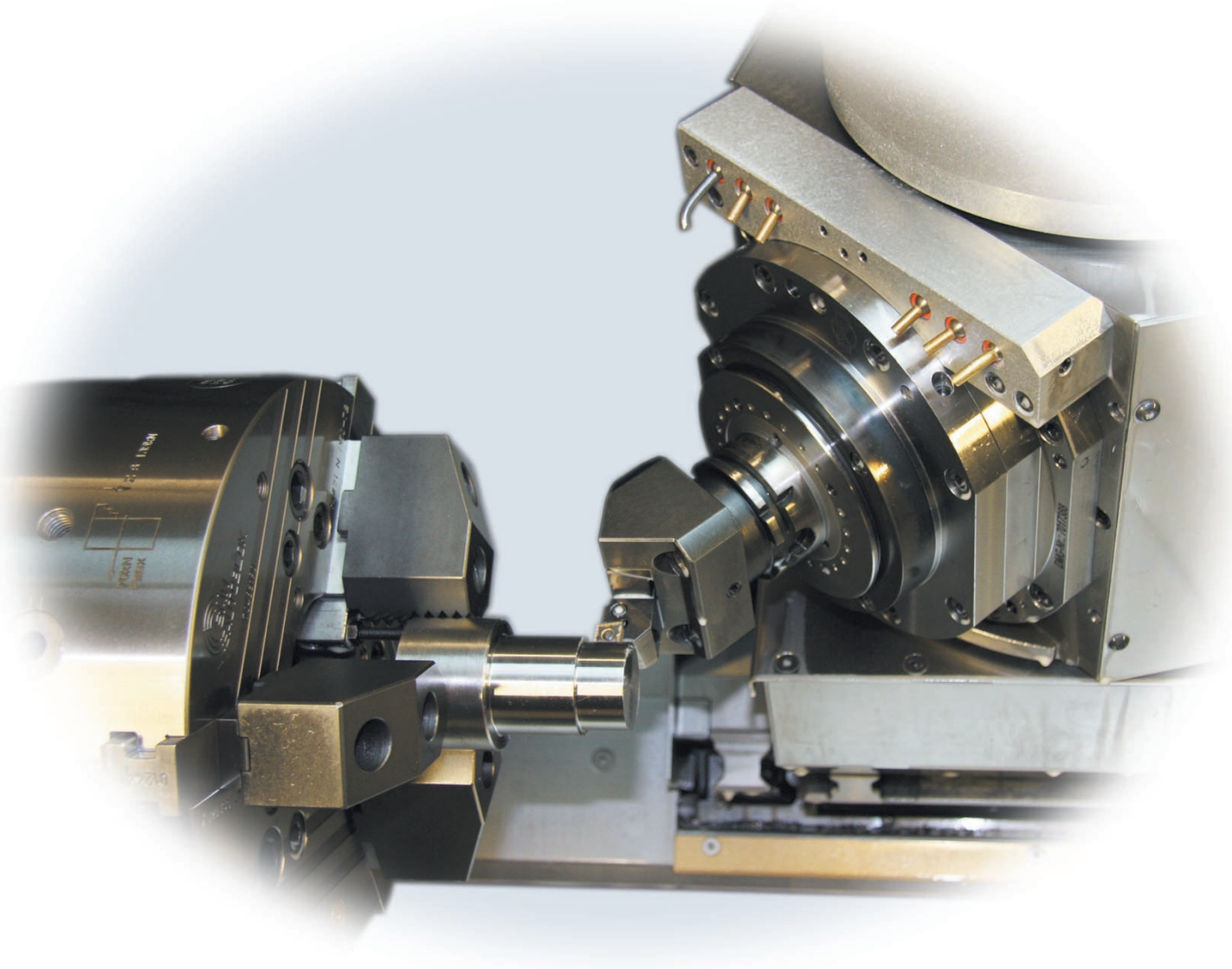


Bevorzugte Ausführung für Multi-Task Dreh-Fräszentren

- Automatischer Werkzeugwechsel
- Mitnehmernuten am Kegelende
- Kühlmittelzufuhr zentral durch den Automatikspanner mittels Kühlmittelrohr

Prefered type for multi-task-machining

- Automatic tool change
- Driving slots at cone end
- Central coolant supply through the automatic clamping part by means of coolant tubes



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HSK-T Multi-Drehhalter mit Innenkühlung
- für Klemmhalter mit Kühlmittelzufuhr direkt zur Schneide
- für ISO-Klemmhalter mit Pratzenklemmung zur optimalen Kühlung der Schneide
- Kühlmitteldruck bis 100 bar

HSK-T multi-turning-toolholders with internal coolant
- for clamping holders with coolant channels directly to the cutting edge
- for ISO-clamping holders with claw clamping for best possible coolant supply
- coolant pressure up to 100 bar

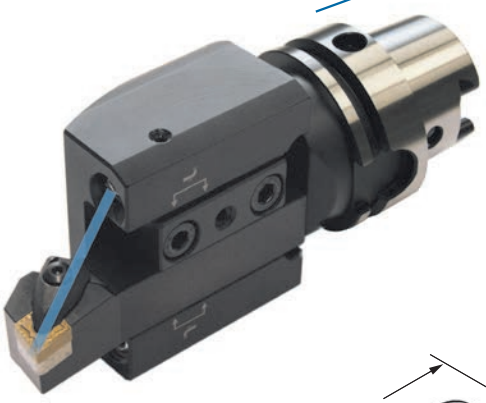
Lieferumfang ohne Werkzeug
Delivery without tool

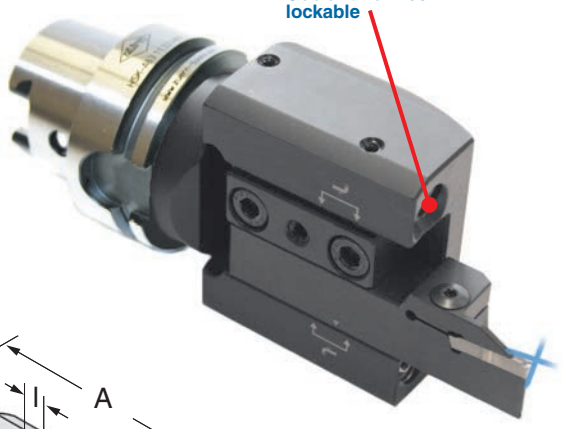
NEWS

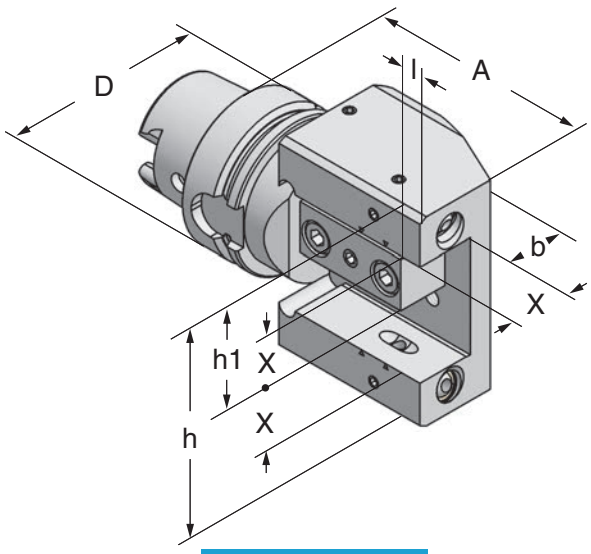
Ein Drehhalter - vier Einsatzmöglichkeiten:
links - rechts - vorkopf - überkopf

One turning-toolholder - four possibilities:
left - right - forehead - overhead

Spritzdüsen verschließbar
Coolant nozzles lockable







Art.-Nr.	Typ	D	A	X	h	h1	b	l
			HSK - T 40					
40.11.10.043	HSK-T 40x10x 70	40	70	10	55	27,5	10	-
Kühlmittelzufuhr nur über Spritzdüse / Coolant supply only with coolant nozzle								
			HSK - T 63					
63.11.20.043	HSK-T 63x20x112	63	112	20	80	40	31,5	10
63.11.25.043	HSK-T 63x25x112	63	112	25	90	45	31,5	10
			HSK - T 100					
100.11.25.043	HSK-T100x25x125	100	125	25	90	45	31,5	-

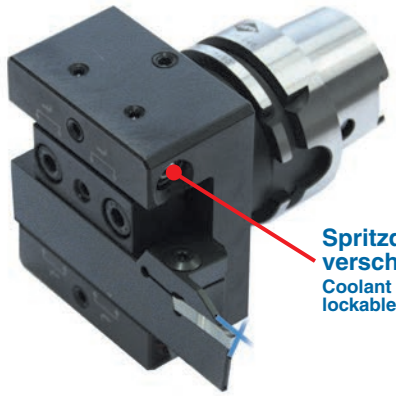
HSK-T Multi-Drehhalter 90° mit Innenkühlung
- für Klemmhalter mit Kühlmittelzufuhr direkt zur Schneide
- für ISO-Klemmhalter mit Pratzenklemmung zur optimalen Kühlung der Schneide
- Kühlmitteldruck bis 100 bar

HSK-T multi-turning-toolholders 90° with internal coolant
- for clamping holders with coolant channels directly to the cutting edge
- for ISO-clamping holders with claw clamping for best possible coolant supply
- coolant pressure up to 100 bar

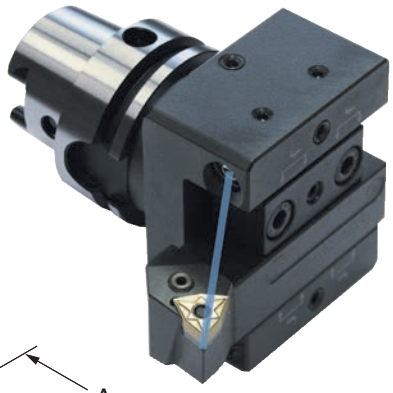
Lieferumfang ohne Werkzeug
Delivery without tool

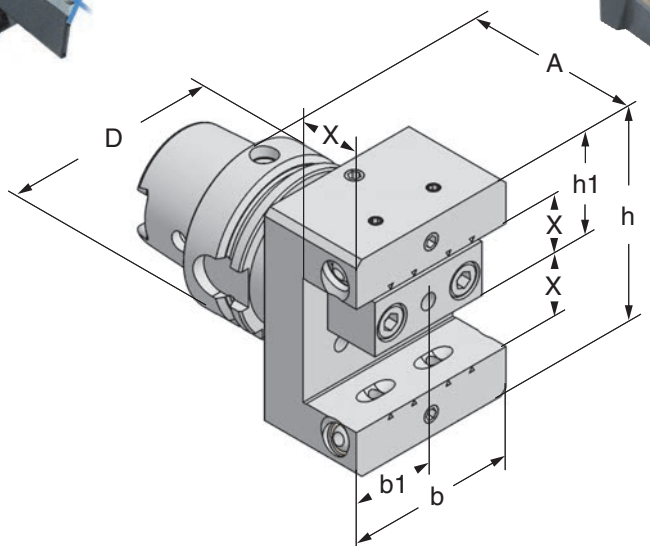
NEWS

Ein Drehhalter - vier Einsatzmöglichkeiten:
links - rechts - vorkopf - überkopf
One turning-toolholder - four possibilities:
left - right - forehead - overhead



Spritzdüsen verschließbar
Coolant nozzles lockable





Art.-Nr.	Typ	D	A	X	h	h1	b	b1
			HSK - T 63					
63.11.20.046	HSK-T 63x20x90°	63	85	20	80	40	35	70
63.11.25.046	HSK-T 63x25x90°	63	85	25	90	45	35	70
			HSK - T 100					
100.11.25.046	HSK-T100x25x90°	100	125	25	90	45	40	60

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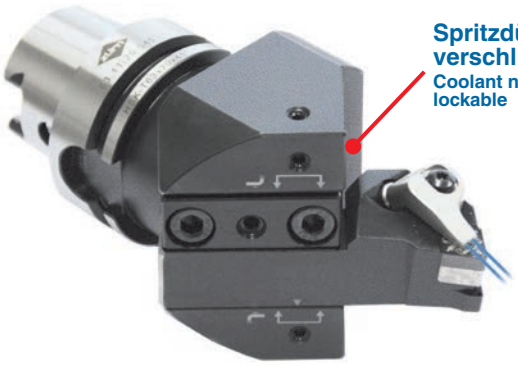
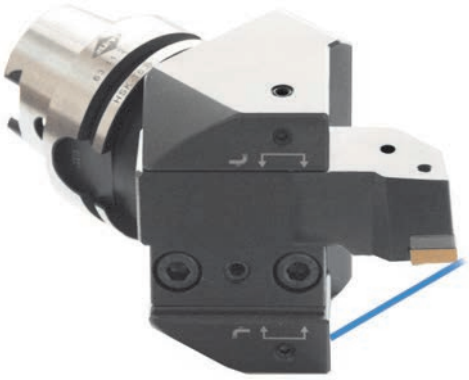
HSK-T Multi-Drehhalter 45° mit Innenkühlung
- für Klemmhalter mit Kühlmittelzufuhr direkt zur Schneide
- für ISO-Klemmhalter mit Pratzenklemmung
zur optimalen Kühlung der Schneide
- Kühlmitteldruck bis 100 bar

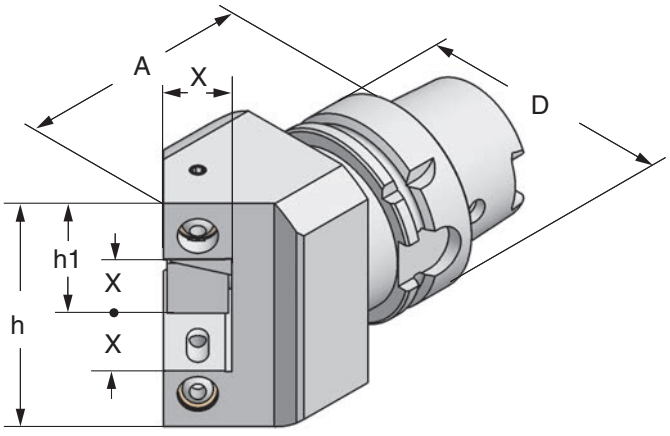
HSK-T multi-turning-toolholders 45° with internal coolant
- for clamping holders with coolant channels directly to the cutting edge
- for ISO-clamping holders with claw clamping
for best possible coolant supply
- coolant pressure up to 100 bar

Lieferumfang ohne Werkzeug
Delivery without tool

NEWS







Art.-Nr.	Typ	D	A	X	h	h1
			HSK - T 63			
63.11.20.045	HSK-T 63x20x45°	63	93	20	80	40
63.11.25.045	HSK-T 63x25x45°	63	97	25	90	45
			HSK - T 100			
100.11.25.045	HSK-T100x25x45°	100	128	25	88	44

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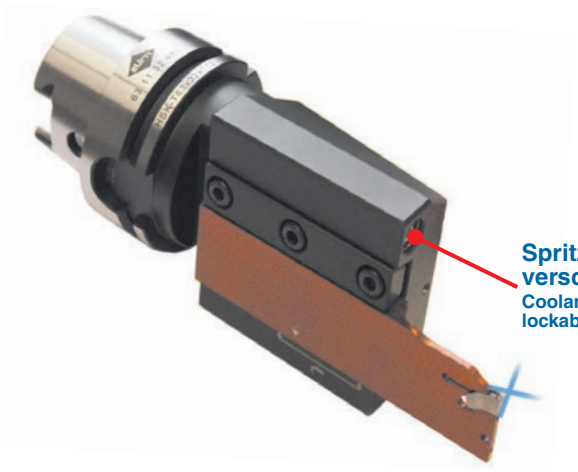
HSK-T Abstechhalter mit Innenkühlung
- für Abstechhalter mit Kühlmittelzufuhr direkt zur Schneide
- Kühlmitteldruck bis 100 bar

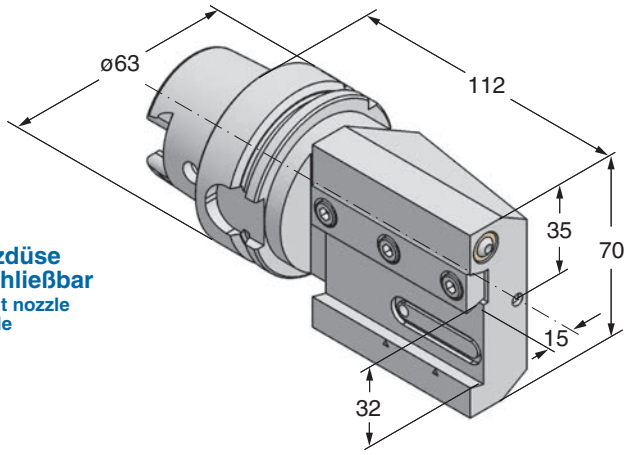
HSK-T infeed-toolholders with internal coolant
- for infeed-toolholders with coolant channels directly to the cutting edge
- coolant pressure up to 100 bar

Lieferumfang ohne Werkzeug
Delivery without tool

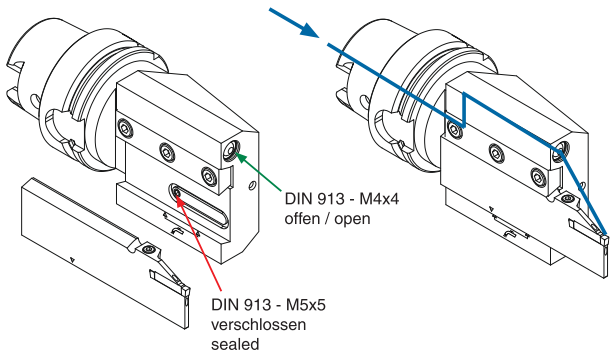
NEWS



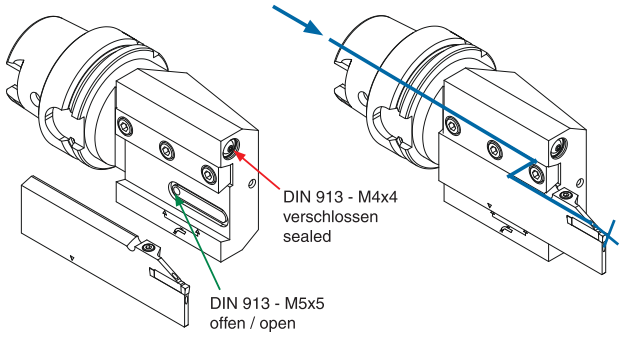
Spritzdüse verschließbar
Coolant nozzle lockable



Version 1 **Kühlmittelzufuhr mittels schwenkbarer Spritzdüse**
Coolant supply with swivelling coolant nozzle



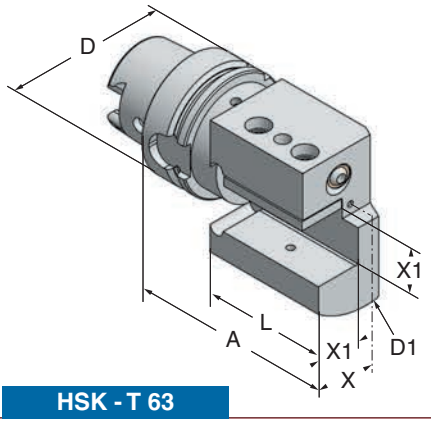
Version 2 **Kühlmittelzufuhr intern durch das Abstechschwert**
Coolant supply internal through the infeed toolholder

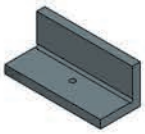


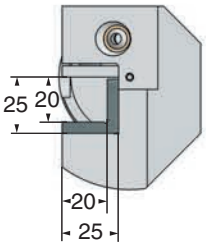
HSK - T 63	
Art.-Nr.	**Typ**
63.11.32.480	HSK-T63x32x112

HSK-T Drehhalter 1-fach
HSK-T single turning toolholder

Lieferumfang ohne Werkzeug
Delivery without tool





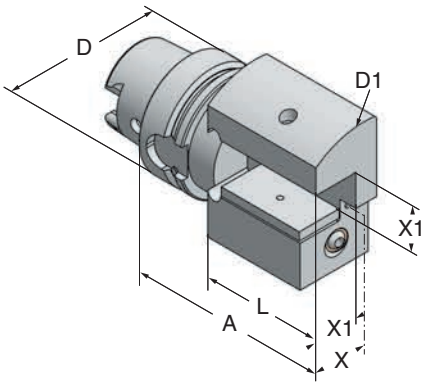


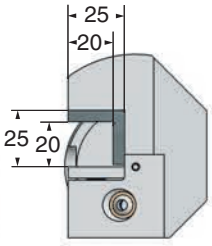
Reduzierung
Art.- Nr. 631101

HSK - T 63						
Art.-Nr.	**D**	**D1**	**A**	**L**	**X**	**X1**
63.11.25.050	63	100	110	68	30	25
631101	Reduzierung / Reduction □ 25/20x60					

HSK-T Drehhalter 1-fach
HSK-T single turning toolholder

Lieferumfang ohne Werkzeug
Delivery without tool





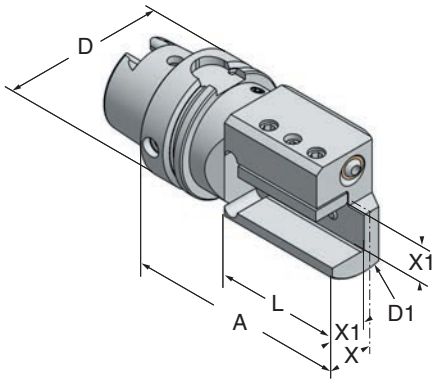
Reduzierung
Art.- Nr. 631101

HSK - T 63						
Art.-Nr.	**D**	**D1**	**A**	**L**	**X**	**X1**
63.11.25.040	63	100	110	68	30	25
631101	Reduzierung / Reduction □ 25/20x60					

HSK-T Drehhalter 1-fach
HSK-T single turning toolholder

Lieferumfang ohne Werkzeug
Delivery without tool

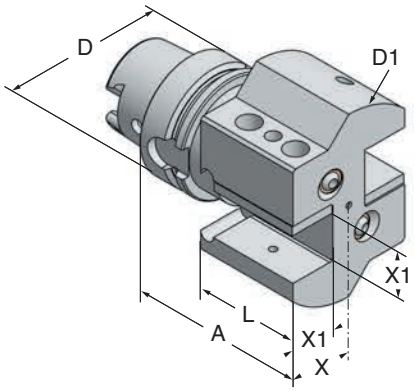
63.11.20.0501
HSK um 90° gedreht

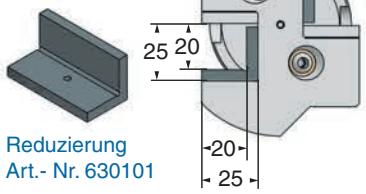


HSK - T 63						
Art.-Nr.	**D**	**D1**	**A**	**L**	**X**	**X1**
63.11.20.0501	63	65	110	68	20	20

HSK-T Drehhalter 2-fach
HSK-T double turning toolholder

Lieferumfang ohne Werkzeuge
Delivery without tools



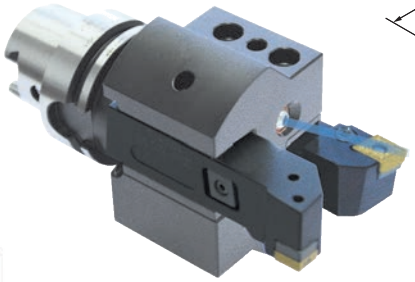


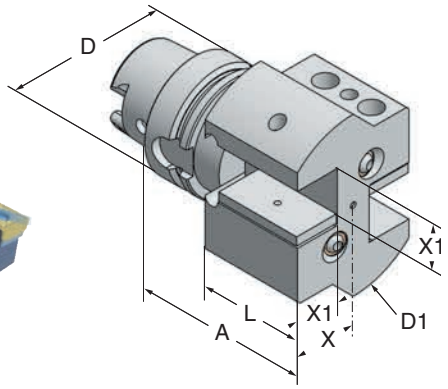
Reduzierung
Art.- Nr. 630101

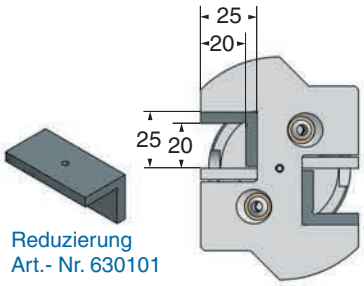
HSK - T 63						
Art.-Nr.	**D**	**D1**	**A**	**L**	**X**	**X1**
63.11.25.151	63	100	100	58	35	25
630101	Reduzierung / Reduction □ 25/20x50					

HSK-T Drehhalter 2-fach
HSK-T double turning toolholder

Lieferumfang ohne Werkzeuge
Delivery without tools







Reduzierung
Art.- Nr. 630101

HSK - T 63						
Art.-Nr.	**D**	**D1**	**A**	**L**	**X**	**X1**
63.11.25.171	63	100	100	58	35	25
630101	Reduzierung / Reduction □ 25/20x50					

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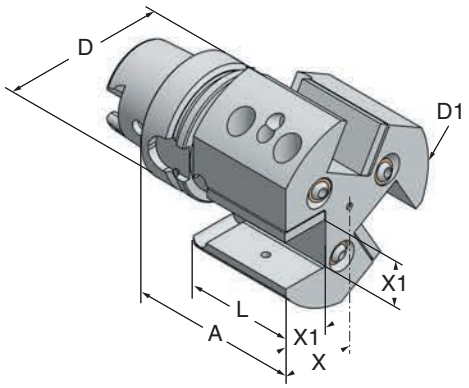
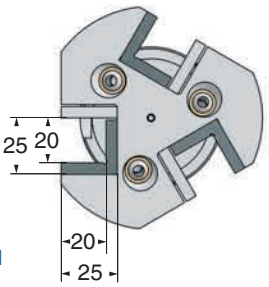
HSK-T Drehhalter 3-fach
HSK-T triple turning toolholder

Lieferumfang ohne Werkzeuge
Delivery without tools



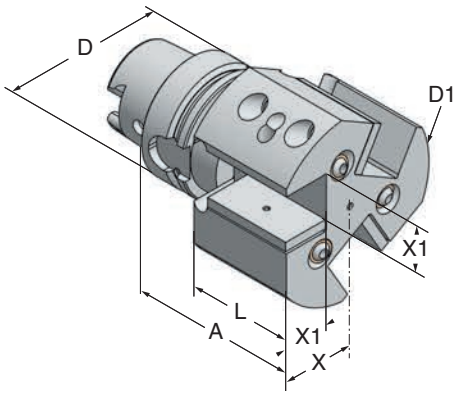


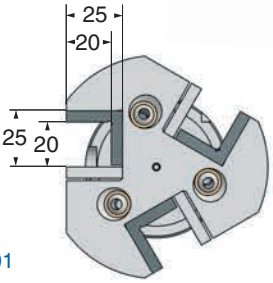
Reduzierung
Art.- Nr. 630101

HSK - T 63						
Art.-Nr.	**D**	**D1**	**A**	**L**	**X**	**X1**
63.11.25.190	63	100	100	58	40	25
630101	Reduzierung / Reduction □ 25/20x50					
HSK - T 100						
100.11.25.190	100	100	125	80	40	25

HSK-T Drehhalter 3-fach
HSK-T triple turning toolholder

Lieferumfang ohne Werkzeuge
Delivery without tools





Reduzierung
Art.- Nr. 630101

HSK - T 63						
Art.-Nr.	**D**	**D1**	**A**	**L**	**X**	**X1**
63.11.25.180	63	100	100	58	40	25
630101	Reduzierung / Reduction □ 25/20x50					
HSK - T 100						
100.11.25.180	100	100	125	80	40	25

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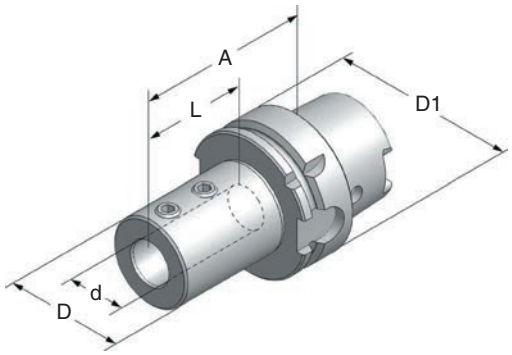
HSK-T Bohrerhalter für Wendeplattenbohrer
HSK-T holders for insert drills

Lieferumfang ohne Werkzeug
Delivery without tool



Art.-Nr.	Typ	d	D	D1	L	A
	HSK - T 63					
63.11.16.220	HSK-T63x16x 80	16	34	63	54	80
63.11.20.220	HSK-T63x20x 80	20	40	63	54	80
63.11.25.220	HSK-T63x25x 85	25	45	63	59	85
63.11.32.220	HSK-T63x32x 90	32	52	63	63	90
63.11.40.220	HSK-T63x40x100	40	60	63	73	100
	HSK - T 100					
100.11.25.220	HSK-T100x25x100	25	45	100	59	100
100.11.32.220	HSK-T100x32x100	32	52	100	63	100
100.11.40.220	HSK-T100x40x110	40	60	100	73	110
100.11.50.220	HSK-T100x50x120	50	70	100	83	120

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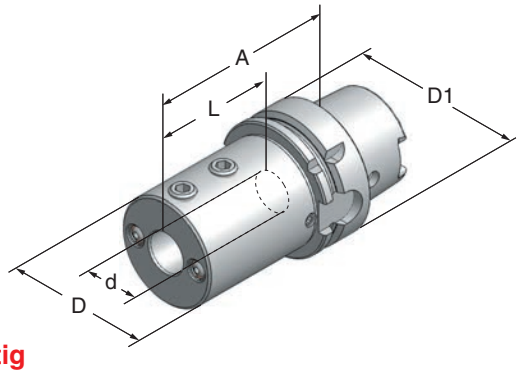
HSK-T Bohrstangenaufnahme ø6 - 32
HSK-T boring bar holders ø6 - 32

Lieferumfang ohne Werkzeug
Delivery without tool

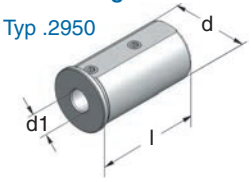


Spannmöglichkeit beidseitig
Clamping possible on both sides

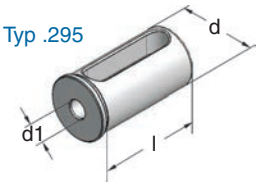
Art.-Nr.	Typ	d	D	D1	L	A
	HSK - T 40					
40.11.06.290	HSK-T40x06x 55	6	34	40	36	55
40.11.08.290	HSK-T40x08x 55	8	34	40	36	55
40.11.10.290	HSK-T40x10x 55	10	34	40	36	55
40.11.12.290	HSK-T40x12x 55	12	36	40	36	55
40.11.16.290	HSK-T40x16x 70	16	40	40	52	70
	HSK - T 63					
63.11.06.290	HSK-T63x06x 90	6	38	63	55	90
63.11.08.290	HSK-T63x08x 90	8	40	63	55	90
63.11.10.290	HSK-T63x10x 90	10	42	63	55	90
63.11.12.290	HSK-T63x12x 90	12	44	63	55	90
63.11.16.290	HSK-T63x16x 90	16	48	63	65	90
63.11.20.290	HSK-T63x20x 90	20	52	63	65	90
63.11.25.290	HSK-T63x25x 90	25	57	63	65	90
63.11.32.290	HSK-T63x32x 90	32	64	63	65	90
63.11.40.290	HSK-T63x40x100	40	74	63	75	100
	HSK - T 100					
100.11.32.290	HSK-T100x32x100	32	68	100	65	100
100.11.40.290	HSK-T100x40x110	40	80	100	77	110
100.11.50.290	HSK-T100x50x120	50	90	100	86	120

Reduzierbuchse für Bohrstangenaufnahme
Reduction bushes for boring bar holder

Typ .2950



Typ .295

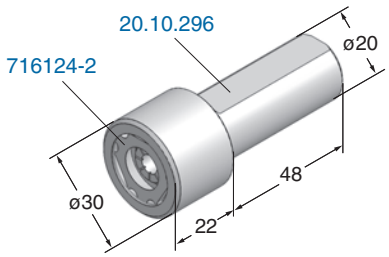


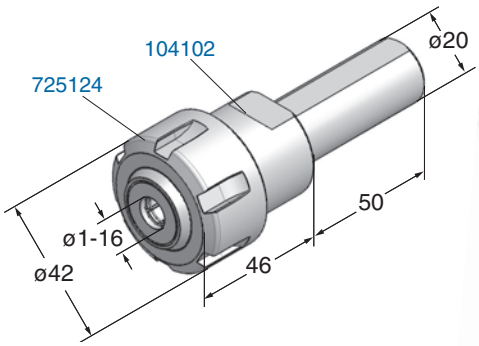
Art.-Nr.	für Typ	d	d1	l
32.06.2950	63.11.32.290, 100.11.32.290	32	6	60
32.08.2950	63.11.32.290, 100.11.32.290	32	8	60
32.10.2950	63.11.32.290, 100.11.32.290	32	10	60
32.12.295	63.11.32.290, 100.11.32.290	32	12	60
32.14.295	63.11.32.290, 100.11.32.290	32	14	60
32.16.295	63.11.32.290, 100.11.32.290	32	16	60
32.18.295	63.11.32.290, 100.11.32.290	32	18	60
32.20.295	63.11.32.290, 100.11.32.290	32	20	60
32.25.295	63.11.32.290, 100.11.32.290	32	25	60

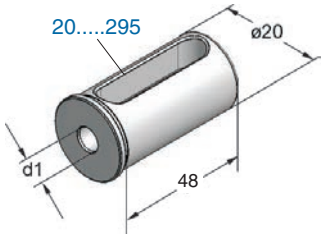
Art.-Nr.	für Typ	d	d1	l
40.06.2950	100.11.40.290	40	6	72
40.08.2950	100.11.40.290	40	8	72
40.10.2950	100.11.40.290	40	10	72
40.12.2950	100.11.40.290	40	12	72
40.14.295	100.11.40.290	40	14	72
40.16.295	100.11.40.290	40	16	72
40.18.295	100.11.40.290	40	18	72
40.20.295	100.11.40.290	40	20	72
40.25.295	100.11.40.290	40	25	72
40.32.295	100.11.40.290	40	32	72

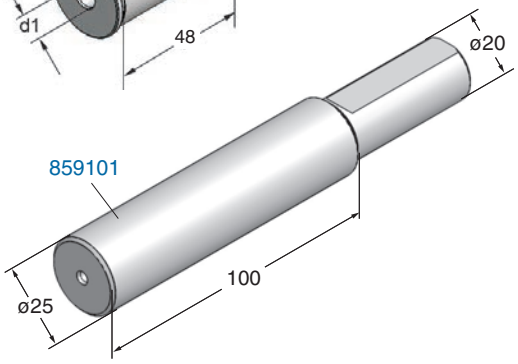
HSK-T Bohrstangenaufnahme 3-fach - 3x ø20
HSK-T triple boring bar holder - 3x ø20

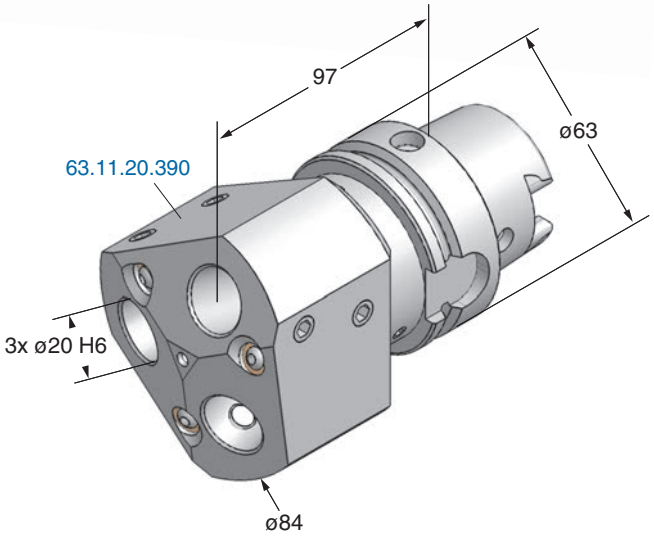
Lieferumfang ohne Werkzeuge
Delivery without tools







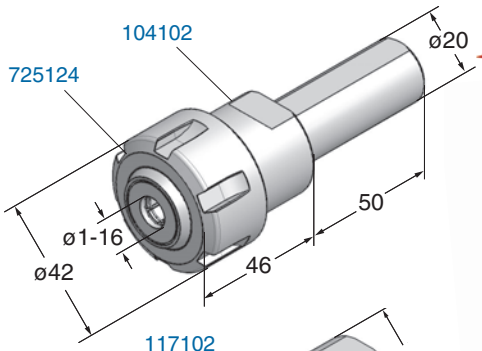


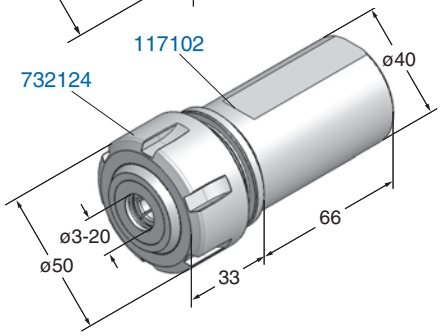


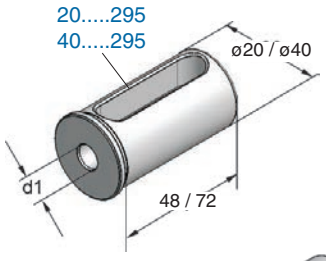
HSK - T 63		Reduzierbuchse Reduction bush	
Art.-Nr.	**Typ**	**Art.-Nr.**	**d1**
63.11.20.390	HSK-T63x20x97	20.06.295	6
859101	Kontrolldorn / Control arbor ø20xø25x100	20.08.295	8
		20.10.295	10
20.10.296	Spannzangenfutter / Collet chuck ER16 ø1-10	20.12.295	12
716124-2	Spannmutter für Dichtscheiben / Clamping nut for sealing disc 316 . . .	20.16.295	16
916160-Z2	Spannschlüssel / Key		
104102	Spannzangenfutter / Collet chuck ER25 ø1-16		
725124	Spannmutter für Dichtscheiben / Clamping nut for sealing disc 325 . . .		

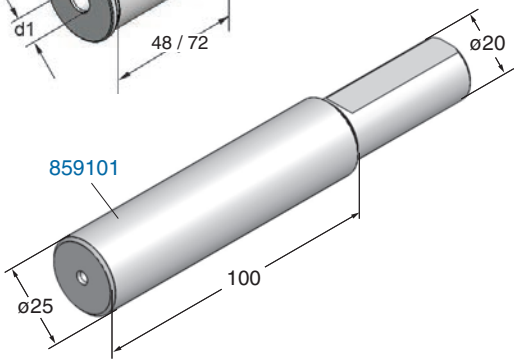
HSK-T63 Bohrstangenaufnahme 3-fach - 2x ø20, 1x ø40
HSK-T63 triple boring bar holder - 2x ø20, 1x ø40

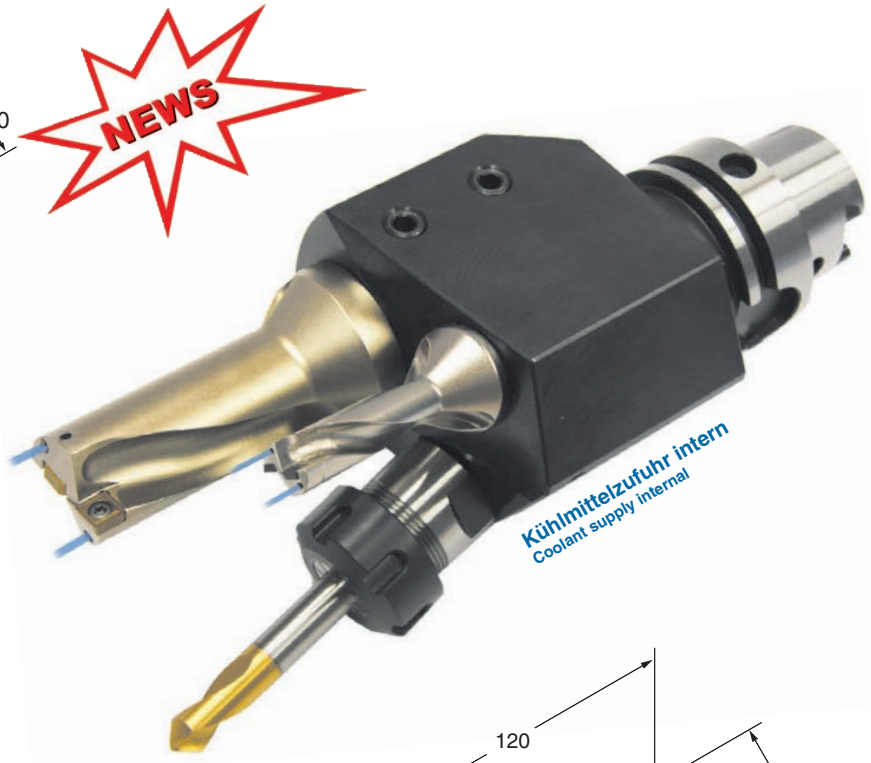
Lieferumfang ohne Werkzeuge
Delivery without tools

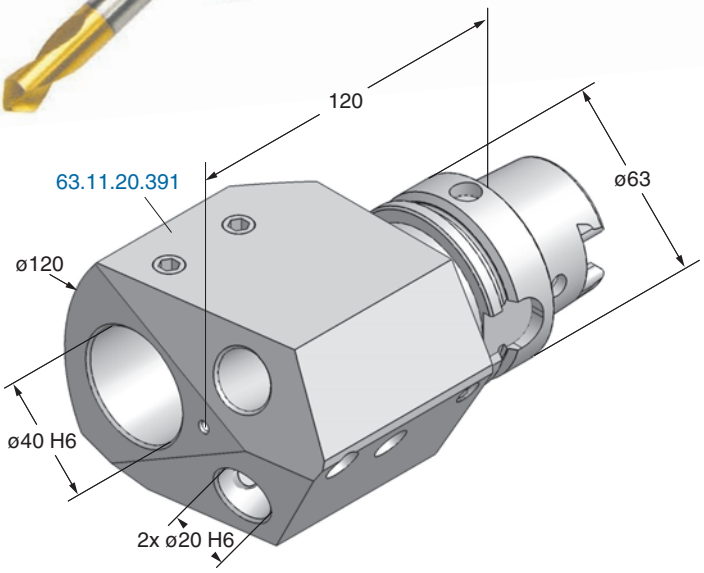






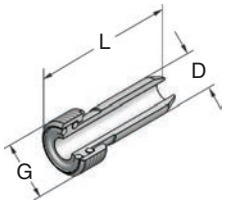






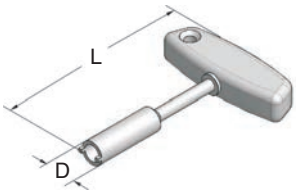
HSK - T 63		Reduzierbuchse Reduction bush	
Art.-Nr.	**Typ**	**Art.-Nr.**	**d1**
63.11.20.391	HSK-T63x20/40x120	20.06.295	6
859101	Kontrolldorn / Control arbor ø20xø25x100	20.08.295	8
		20.10.295	10
104102	Spannzangenfutter / Collet chuck ø20xER25 ø1-16	20.12.295	12
725124	Spannmutter für Dichtscheiben / Clamping nut for sealing disc 325 . . .	20.16.295	16
117102	Spannzangenfutter / Collet chuck ø40xER32 ø3-20	40.25.295	25
732124	Spannmutter für Dichtscheiben / Clamping nut for sealing disc 332 . . .	40.32.295	32

Kühlmittelübergaberohre
Connections for coolant tube



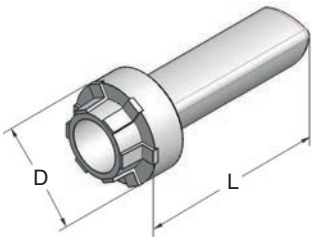
Art.-Nr.	Typ	G	D	L
460101	HSK- 40	M12x1	8	30
461101	HSK- 50	M16x1	10	33
462101	HSK- 63	M18x1	12	37
464101	HSK-100	M24x1,5	16	44

Steckschlüssel für Kühlmittelübergaberohr
Socket wrench for connection



Art.-Nr.	Typ	D	L
469101	HSK- 40	10,5	115
465101	HSK- 50	14,5	115
466101	HSK- 63	16,5	132
468101	HSK-100	22,0	135

Wischer für Konus und Stirnseite
Cone cleaners



Art.-Nr.	Typ	D	L
269100	HSK- 40	45	127
281100	HSK- 50	53	135
282100	HSK- 63	65	145
283100	HSK-100	105	160

Wischer für MK
Cone cleaners MK

Art.-Nr.	Typ
341100	MK 2
342100	MK 3
343100	MK 4
344100	MK 5

Fräseranzugschrauben DIN 6367
Drawn-in bolts DIN 6367

Art.-Nr.	Typ	Spann-ø
163100	M 8	ø16
164100	M10	ø22
165100	M12	ø27
166100	M16	ø32
167100	M20	ø40
168100	M24	ø50

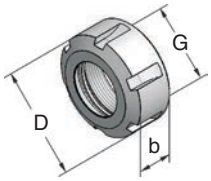
Schlüssel DIN 6368
Keys DIN 6368

Art.-Nr.	Spann-ø
170101	ø16
171101	ø22
172101	ø27
173101	ø32
174101	ø40

Spannschrauben Weldon
Clamping screws Weldon

Art.-Nr.	Typ	Weldon-ø
147100	M 6x10	ø6
148100	M 8x10	ø8
149100	M10x12	ø10
150100	M12x16	ø12, ø14
151100	M14x16	ø16, ø18
152100	M16x16	ø20
153100	M18x2x20	ø25
154100	M20x2x20	ø32, ø40
329100	M24x2x25	ø50, ø60

Spannmuttern DIN 6499
Clamping nuts DIN 6499

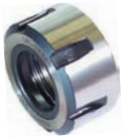
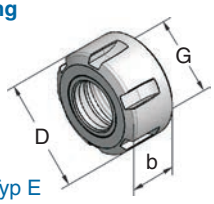


Art.-Nr. 711120 - SW17
Art.-Nr. 716120 - SW25
Spannschlüssel Typ EP

Art.-Nr. 720120 - 750120
Spannschlüssel Typ E

Art.-Nr.	Typ	D	b	G	Nm max.
711120	UMQ / ER11	19	11	M14x0,75	30
716120	UMQ / ER16	28	17	M22x1,50	70
720120	UMQ / ER20	34	19	M25x1,50	100
725120	UMQ / ER25	42	20	M32x1,50	130
732120	UMQ / ER32	50	22	M40x1,50	170
740120	UMQ / ER40	63	25	M50x1,50	220
750120	UMQ / ER50	78	35	M64x2,00	300

Spannmuttern DIN 6499 gleitgelagert
Clamping nuts DIN 6499 friction bearing

Spannschlüssel Typ E

Art.-Nr.	Typ	D	b	G	Nm max.
716123	GMG / ER16	28	18	M22x1,50	70
720123	GMG / ER20	35	20	M25x1,50	100
725123	GMG / ER25	42	20	M32x1,50	130
732123	GMG / ER32	50	23	M40x1,50	170
740123	GMG / ER40	63	26	M50x1,50	220

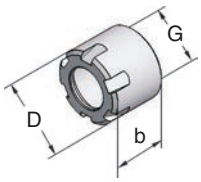
Spannschlüssel
Key

Typ EP

Typ E

Art.-Nr.	Typ	für Spannmutter	SW
911180	E 11 P	711120	17
916180	E 16 P	716120	25
920180	E 20 P		30
916181	E 16	716123, 716124, 716130	
920181	E 20	720120, 720123, 720124, 720130	
925180	E 25	725120, 725123, 725124, 725130	
932180	E 32	732120, 732123, 732124, 732130	
940180	E 40	740120, 740123, 740124, 740130	
950180	E 50	750120	

Spannmuttern DIN 6499 mini
Clamping nuts DIN 6499 mini

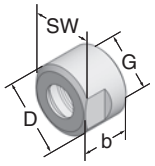


Art.-Nr.	Typ	D	b	G	Nm max.
908100	ER 8M	12	11	M10x0,75	6
911100	ER11M	16	11	M13x0,75	20
916100	ER16M	22	17	M19x1,00	30
920100	ER20M	28	19	M24x1,00	35
925100	ER25M	35	20	M30x1,00	40

Spannschlüssel mini
Key mini

Art.-Nr.	Typ	für Spannmutter
908160	E 8 mini	908100
911160	E 11 mini	911100
916160	E 16 mini	916100
920160	E 20 mini	920100
925160	E 25 mini	925100

Spannmuttern DIN 6499 mini
Clamping nuts DIN 6499 mini



Art.-Nr.	Typ	D	b	G	SW	Nm max.
716120-2	ER16	25	17,5	M20x1,00	22	30

916162	Spannschlüssel ER16	22

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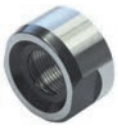
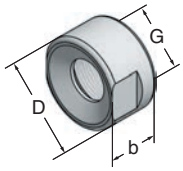
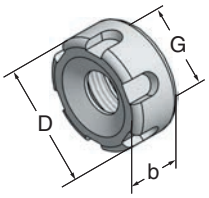
Spannmuttern ETS
Clamping nuts ETS





Art.-Nr.	Typ	D	b	G	Spannschlüssel	Nm max.
709130	ETS 9	13,5	8	M10x0,75	762101	10
712130	ETS12	19	12	M14x0,75	912163	10
716120-2ETS	ETS16	27	15	M20x1,00	916163	30

Art.-Nr	Typ	für Spannmutter
762101	Spannschlüssel ETS 9	709130
912163	Spannschlüssel ETS12	712130
916163	Spannschlüssel ETS16	716120-2ETS

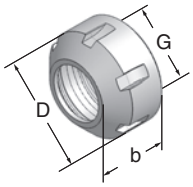


Art.-Nr.	Typ	D	b	G	Spannschlüssel	Nm max.
716130	ETS16	32	15	M22x1,50	916181	30
720130	ETS20	35	16,5	M25x1,50	920181	30
725130	ETS25	42	18,5	M32x1,50	925180	120
732130	ETS32	50	22	M40x1,50	932180	150
740130	ETS40	63	25	M50x1,50	940180	200

Spannschlüssel Typ E siehe Seite 60
Key Type E see page 60

Spannmuttern DIN 6499 gleitgelagert für Dichtscheiben
Clamping nuts DIN 6499 friction bearing for sealing discs

Lieferumfang ohne Dichtscheibe
Delivery without sealing disc

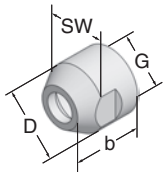


Art.-Nr.	Typ	D	b	G	Nm max.	Dichtscheibe
716124	GMGC / ER16	28	23	M22x1,5	70	excl. DS / ER16
720124	GMGC / ER20	34	25	M25x1,5	100	excl. DS / ER20
725124	GMGC / ER25	42	26	M32x1,5	130	excl. DS / ER25
732124	GMGC / ER32	50	28	M40x1,5	170	excl. DS / ER32
740124	GMGC / ER40	63	31	M50x1,5	220	excl. DS / ER40

Spannschlüssel Typ E siehe Seite 60
Key Type E see page 60

Spannmuttern DIN 6499 mini für Dichtscheiben
Clamping nuts DIN 6499 for sealing discs

Lieferumfang ohne Dichtscheibe
Delivery without sealing disc



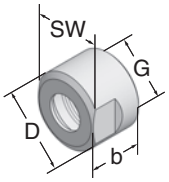
Art.-Nr.	Typ	D	b	G	SW	Nm max.
716124-2	ER16C mini	25	22	M20x1,0	22	30

excl. Dichtscheibe/Sealing disc DS / ER16

916162	Spannschlüssel ER16	22

Spannmuttern ETS mini für Dichtscheiben
Clamping nuts ETS mini for sealing discs

Lieferumfang ohne Dichtscheibe
Delivery without sealing disc



Art.-Nr.	Typ	D	b	G	SW	Nm max.
716124-2ETS	ETS16C	27	22,5	M20x1,00	24	30

excl. Dichtscheibe/Sealing disc DS / ER16

916163	Spannschlüssel ETS16	24

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Spannmuttern DIN 6499 / DIN 6388 zum Auswuchten
incl. 2 Wuchtgewichten Art.- Nr. 600101

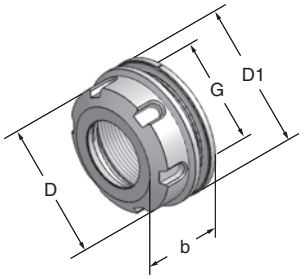
Clamping nuts DIN 6499 / DIN 6388 for balancing
incl. 2 balancing weights Art.- Nr. 600101

Lieferumfang ohne Spannzange und Werkzeug
Delivery without collet and tool

NEWS

Spannzangenfutter in ausgewuchteter Ausführung garantieren zusammen mit dem gespannten Werkzeug nicht unbedingt die gewünschte Wuchtqualität für die Zerspanung im hohen Drehzahlbereich.
Die neuen Spannmutter-Typen ermöglichen nach der Spannung des Werkzeuges die Auswuchtung als komplette Einheit.

Collet chucks in a balanced execution together with the clamped tools cannot absolutely guarantee the balance quality as desired for the cutting process in a high revolution speed range
The newlydeveloped collet nut types allow the balancing as a complete unit after the clamping of the tool.



Art.-Nr.	Typ	D	D1	b	G	Spannschlüssel	Nm max.
725120-B	ER25	42	46	24	M32x1,5	925180	130
732120-B	ER32	50	54	25	M40x1,5	932180	170
740120-B	ER40	63	64	27	M50x1,5	940180	220
825120-B	OZ25	63	63	30	M48x2,0	54668	200

Spannschlüssel
Key

Art.-Nr.	Typ	für Spannmutter
925180	E 25	725120-B
932180	E 32	732120-B
940180	E 40	740120-B
54668	Hakenschlüssel	825120-B

Katalog Nr. 164
Werkzeughalter
mit Polygonalschaft
ISO 26623

Katalog Nr. 165
VDI-Werkzeughalter
DIN 69880
DIN ISO 10889

Katalog Nr. 166
SK-Werkzeughalter
DIN 2080 / DIN 69871
MAS BT

Katalog Nr. 167
HSK-Werkzeughalter
DIN 69893
ISO 12164

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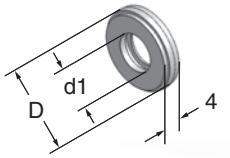
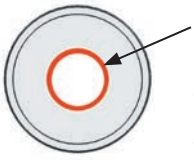
Dichtscheiben für Spannmuttern DIN 6499, DIN 6388 + ETS für Werkzeuge mit interner Kühlmittelzufuhr

Sealing discs for clamping nuts DIN 6499, DIN 6388 + ETS for tools with internal coolant supply

Kühlmitteldruck / Coolant pressure min. 5 bar - max. 100 bar





Der eingelegte O-Ring gewährleistet interne Kühlmittelzufuhr durch das gespannte Werkzeug direkt zur Werkzeugschneide

The inserted O-ring seal ensures a coolant supply internally through the clamped tool directly to the cutting edge

Art.-Nr.	Typ	D	d1
316040	DS/ER16	13	ø4 - 3
316050	DS/ER16	13	ø5 - 4
316060	DS/ER16	13	ø6 - 5
316070	DS/ER16	13	ø7 - 6
316080	DS/ER16	13	ø8 - 7
316090	DS/ER16	13	ø9 - 8
316100	DS/ER16	13	ø10 - 9
320040	DS/ER20	16	ø4 - 3
320050	DS/ER20	16	ø5 - 4
320060	DS/ER20	16	ø6 - 5
320070	DS/ER20	16	ø7 - 6
320080	DS/ER20	16	ø8 - 7
320090	DS/ER20	16	ø9 - 8
320100	DS/ER20	16	ø10 - 9
320110	DS/ER20	16	ø11-10
320120	DS/ER20	16	ø12-11
320130	DS/ER20	16	ø13-12
325040	DS/ER25	21	ø4 - 3
325050	DS/ER25	21	ø5 - 4
325060	DS/ER25	21	ø6 - 5
325070	DS/ER25	21	ø7 - 6
325080	DS/ER25	21	ø8 - 7
325090	DS/ER25	21	ø9 - 8
325100	DS/ER25	21	ø10 - 9
325110	DS/ER25	21	ø11-10
325120	DS/ER25	21	ø12-11
325130	DS/ER25	21	ø13-12
325140	DS/ER25	21	ø14-13
325150	DS/ER25	21	ø15-14
325160	DS/ER25	21	ø16-15

Art.-Nr.	Typ	D	d1
332040	DS/ER32	27	ø4 - 3
332050	DS/ER32	27	ø5 - 4
332060	DS/ER32	27	ø6 - 5
332070	DS/ER32	27	ø7 - 6
332080	DS/ER32	27	ø8 - 7
332090	DS/ER32	27	ø9 - 8
332100	DS/ER32	27	ø10 - 9
332110	DS/ER32	27	ø11-10
332120	DS/ER32	27	ø12-11
332130	DS/ER32	27	ø13-12
332140	DS/ER32	27	ø14-13
332150	DS/ER32	27	ø15-14
332160	DS/ER32	27	ø16-15
332170	DS/ER32	27	ø17-16
332180	DS/ER32	27	ø18-17
332190	DS/ER32	27	ø19-18
332200	DS/ER32	27	ø20-19
340050	DS/ER40	33,5	ø5 - 4
340060	DS/ER40	33,5	ø6 - 5
340070	DS/ER40	33,5	ø7 - 6
340080	DS/ER40	33,5	ø8 - 7
340090	DS/ER40	33,5	ø9 - 8
340100	DS/ER40	33,5	ø10 - 9
340110	DS/ER40	33,5	ø11-10
340120	DS/ER40	33,5	ø12-11
340130	DS/ER40	33,5	ø13-12
340140	DS/ER40	33,5	ø14-13
340150	DS/ER40	33,5	ø15-14
340160	DS/ER40	33,5	ø16-15
340170	DS/ER40	33,5	ø17-16
340180	DS/ER40	33,5	ø18-17
340190	DS/ER40	33,5	ø19-18
340200	DS/ER40	33,5	ø20-19
340210	DS/ER40	33,5	ø21-20
340220	DS/ER40	33,5	ø22-21
340230	DS/ER40	33,5	ø23-22
340240	DS/ER40	33,5	ø24-23
340250	DS/ER40	33,5	ø25-24
340260	DS/ER40	33,5	ø26-25

Dichtscheiben für Spannmuttern Ortlieb DIN 6388 für Werkzeuge mit interner Kühlmittelzufuhr

Sealing discs for clamping nuts Ortlieb DIN 6388 for tools with internal coolant supply

Art.-Nr.	Typ	D	d1
350050	DS/OZ25	31	ø5 - 4
350060	DS/OZ25	31	ø6 - 5
350070	DS/OZ25	31	ø7 - 6
350080	DS/OZ25	31	ø8 - 7
350090	DS/OZ25	31	ø9 - 8
350100	DS/OZ25	31	ø10 - 9
350110	DS/OZ25	31	ø11-10
350120	DS/OZ25	31	ø12-11
350130	DS/OZ25	31	ø13-12
350140	DS/OZ25	31	ø14-13
350150	DS/OZ25	31	ø15-14
350160	DS/OZ25	31	ø16-15
350170	DS/OZ25	31	ø17-16
350180	DS/OZ25	31	ø18-17
350190	DS/OZ25	31	ø19-18
350200	DS/OZ25	31	ø20-19
350210	DS/OZ25	31	ø21-20
350220	DS/OZ25	31	ø22-21
350230	DS/OZ25	31	ø23-22
350240	DS/OZ25	31	ø24-23
350250	DS/OZ25	31	ø25-24

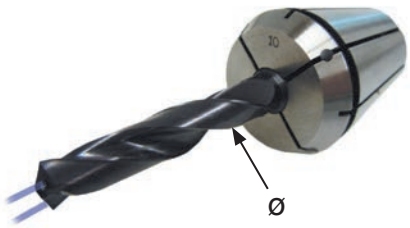
Spannzangen ER/ESX DIN 6499-B rego-fix
Collets type ER/ESX DIN 6499-B rego-fix

Sätze / Sets 111002, 116002, 120002, 125002, 132002, 140002
nicht Original rego-fix / **not** original rego-fix

ER 8		ER 11/424 E		ER 16/426 E		ER 20/428 E	
Art.-Nr.	Spannbereich	Art.-Nr.	Spannbereich	Art.-Nr.	Spannbereich	Art.-Nr.	Spannbereich
108001	Satz / Set	111001	Satz / Set	116001	Satz / Set	120001	Satz / Set
		111002	Satz / Set	116002	Satz / Set	120002	Satz / Set
9 Stück/pcs. ø1-ø5		13 Stück/pcs. ø1-ø7		10 Stück/pcs. ø1-ø10		12 Stück/pcs. ø2-ø13	
108010	ø1,0 - 0,5	111010	ø1,0 - 0,5	116010	ø1,0 - 0,5	120010	ø1,0 - 0,5
108015	ø1,5 - 1,0	111015	ø1,5 - 1,0	116020	ø2,0 - 1,0	120020	ø2,0 - 1,0
108020	ø2,0 - 1,5	111020	ø2,0 - 1,5	116030	ø3,0 - 2,0	120030	ø3,0 - 2,0
108025	ø2,5 - 2,0	111025	ø2,5 - 2,0	116040	ø4,0 - 3,0	120040	ø4,0 - 3,0
108030	ø3,0 - 2,5	111030	ø3,0 - 2,5	116050	ø5,0 - 4,0	120050	ø5,0 - 4,0
108035	ø3,5 - 3,0	111035	ø3,5 - 3,0	116060	ø6,0 - 5,0	120060	ø6,0 - 5,0
108040	ø4,0 - 3,5	111040	ø4,0 - 3,5	116070	ø7,0 - 6,0	120070	ø7,0 - 6,0
108045	ø4,5 - 4,0	111045	ø4,5 - 4,0	116080	ø8,0 - 7,0	120080	ø8,0 - 7,0
108050	ø5,0 - 4,5	111050	ø5,0 - 4,5	116090	ø9,0 - 8,0	120090	ø9,0 - 8,0
		111055	ø5,5 - 5,0	116100	ø10,0 - 9,0	120100	ø10,0 - 9,0
		111060	ø6,0 - 5,5	ER 40/472 E		120110	ø11,0 - 10,0
		111065	ø6,5 - 6,0	140001	Satz / Set	120120	ø12,0 - 11,0
		111070	ø7,0 - 6,5	140002	Satz / Set	120130	ø13,0 - 12,0
ER 25/430 E		ER 32/470 E		23 Stück/pcs. ø3-ø26		ER 50/474 E	
125001	Satz / Set	132001	Satz / Set	140030	ø3,0 - 2,0	150001	Satz / Set
125002	Satz / Set	132002	Satz / Set	140040	ø4,0 - 3,0	12 Stück/pcs. ø10-ø34	
15 Stück/pcs. ø2-ø16		18 Stück/pcs. ø2-ø20		140050	ø6,0 - 5,0	150060	ø6,0 - 5,0
125010	ø1,0 - 0,5			140060	ø6,0 - 5,0	150080	ø8,0 - 6,0
125020	ø2,0 - 1,0	132020	ø2,0 - 1,0	140070	ø7,0 - 6,0	150100S	ø10,0 - 8,0
125030	ø3,0 - 2,0	132030	ø3,0 - 2,0	140080	ø8,0 - 7,0	150120	ø12,0 - 10,0
125040	ø4,0 - 3,0	132040	ø4,0 - 3,0	140090	ø9,0 - 8,0	150140	ø14,0 - 12,0
125050	ø5,0 - 4,0	132050	ø5,0 - 4,0	140100	ø10,0 - 9,0	150160	ø16,0 - 14,0
125060	ø6,0 - 5,0	132060	ø6,0 - 5,0	140110	ø11,0 - 10,0	150180	ø18,0 - 16,0
125070	ø7,0 - 6,0	132070	ø7,0 - 6,0	140120	ø12,0 - 11,0	150200	ø20,0 - 18,0
125080	ø8,0 - 7,0	132080	ø8,0 - 7,0	140130	ø13,0 - 12,0	150220	ø22,0 - 20,0
125090	ø9,0 - 8,0	132090	ø9,0 - 8,0	140140	ø14,0 - 13,0	150240	ø24,0 - 22,0
125100	ø10,0 - 9,0	132100	ø10,0 - 9,0	140150	ø15,0 - 14,0	150250	ø25,0 - 23,0
125110	ø11,0 - 10,0	132110	ø11,0 - 10,0	140160	ø16,0 - 15,0	150260	ø26,0 - 24,0
125120	ø12,0 - 11,0	132120	ø12,0 - 11,0	140170	ø17,0 - 16,0	150280	ø28,0 - 26,0
125130	ø13,0 - 12,0	132130	ø13,0 - 12,0	140180	ø18,0 - 17,0	150300	ø30,0 - 28,0
125140	ø14,0 - 13,0	132140	ø14,0 - 13,0	140190	ø19,0 - 18,0	150320	ø32,0 - 30,0
125150	ø15,0 - 14,0	132150	ø15,0 - 14,0	140200	ø20,0 - 19,0	150340	ø34,0 - 32,0
125160	ø16,0 - 15,0	132160	ø16,0 - 15,0	140210	ø21,0 - 20,0		
		132170	ø17,0 - 16,0	140220	ø22,0 - 21,0		
		132180	ø18,0 - 17,0	140230	ø23,0 - 22,0		
		132190	ø19,0 - 18,0	140240	ø24,0 - 23,0		
		132200	ø20,0 - 19,0	140250	ø25,0 - 24,0		
				140260	ø26,0 - 25,0		
				140270	ø27,0 - 26,0		
				140280	ø28,0 - 27,0		
				140290	ø29,0 - 28,0		
				140300	ø30,0 - 29,0		

Spannzangen DIN 6499 abgedichtet
für Werkzeuge mit Innenkühlung
Nur Nennmaßspannung

Collets DIN 6499 sealed
for tools with inner cooling systems
Only for nominal diameter



ER 16 C	
Art.-Nr.	Spannbereich
116001C	Satz / Set
	8 Stück/pcs. ø3-ø10
116030C	ø3,0
116040C	ø4,0
116050C	ø5,0
116060C	ø6,0
116070C	ø7,0
116080C	ø8,0
116090C	ø9,0
116100C	ø10,0

ER 20 C	
Art.-Nr.	Spannbereich
120001C	Satz / Set
	10 Stück/pcs. ø4-ø13
120030C	ø3,0
120040C	ø4,0
120050C	ø5,0
120060C	ø6,0
120070C	ø7,0
120080C	ø8,0
120090C	ø9,0
120100C	ø10,0
120110C	ø11,0
120120C	ø12,0
120130C	ø13,0

ER 25 C	
Art.-Nr.	Spannbereich
125001C	Satz / Set
	13 Stück/pcs. ø4-ø16
125030C	ø3,0
125040C	ø4,0
125050C	ø5,0
125060C	ø6,0
125070C	ø7,0
125080C	ø8,0
125090C	ø9,0
125100C	ø10,0
125110C	ø11,0
125120C	ø12,0
125130C	ø13,0
125140C	ø14,0
125150C	ø15,0
125160C	ø16,0

ER 32 C	
Art.-Nr.	Spannbereich
132001C	Satz / Set
	17 Stück/pcs. ø4-ø20
132030C	ø3,0
132040C	ø4,0
132050C	ø5,0
132060C	ø6,0
132070C	ø7,0
132080C	ø8,0
132090C	ø9,0
132100C	ø10,0
132110C	ø11,0
132120C	ø12,0
132130C	ø13,0
132140C	ø14,0
132150C	ø15,0
132160C	ø16,0
132170C	ø17,0
132180C	ø18,0
132190C	ø19,0
132200C	ø20,0

ER 40 C	
Art.-Nr.	Spannbereich
140001C	Satz / Set
	23 Stück/pcs. ø4-ø26
140040C	ø4,0
140050C	ø5,0
140060C	ø6,0
140070C	ø7,0
140080C	ø8,0
140090C	ø9,0
140100C	ø10,0
140110C	ø11,0
140120C	ø12,0
140130C	ø13,0
140140C	ø14,0
140150C	ø15,0
140160C	ø16,0
140170C	ø17,0
140180C	ø18,0
140190C	ø19,0
140200C	ø20,0
140210C	ø21,0
140220C	ø22,0
140230C	ø23,0
140240C	ø24,0
140250C	ø25,0
140260C	ø26,0

ER 50 C	
Art.-Nr.	Spannbereich
150001C	Satz / Set
	7 Stück/pcs. ø8-ø32*
150120C	ø12,0
150130C	ø13,0
150140C	ø14,0
150150C	ø15,0
150160C	ø16,0
150170C	ø17,0
150180C	ø18,0
150190C	ø19,0
150200C	ø20,0
150210C	ø21,0
150220C	ø22,0
150230C	ø23,0
150240C	ø24,0
150250C	ø25,0
150260C	ø26,0
150270C	ø27,0
150280C	ø28,0
150290C	ø29,0
150300C	ø30,0
150310C	ø31,0
150320C	ø32,0
150330C	ø33,0
150340C	ø34,0

* ø8, 10, 12, 16, 20, 25, 32

Gewindebohrzangen rego-fix
Tapping collets rego-fix

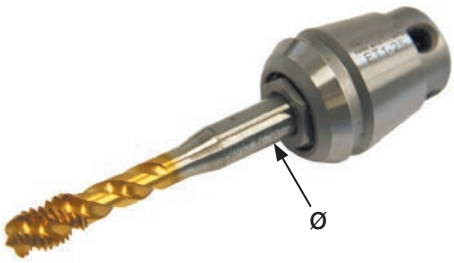
Lieferumfang ohne Werkzeug
Delivery without tool

ER 16-GB		ER 25-GB		ER 32-GB		ER 40-GB	
Art.-Nr.	Schaft ø x □	Art.-Nr.	Schaft ø x □	Art.-Nr.	Schaft ø x □	Art.-Nr.	Schaft ø x □
GB116045	ø4,5x3,4	GB125045	ø4,5x3,4	GB132045	ø4,5x 3,4	GB140070	ø7,0x 5,5
GB116055	ø5,5x4,3	GB125055	ø5,5x4,3	GB132055	ø5,5x 4,3	GB140080	ø8,0x 6,2
GB116060	ø6,0x4,9	GB125060	ø6,0x4,9	GB132060	ø6,0x 4,9	GB140090	ø9,0x 7,0
GB116070	ø7,0x5,5	GB125070	ø7,0x5,5	GB132070	ø7,0x 5,5	GB140100	ø10,0x 8,0
ER 20-GB		GB125080	ø8,0x6,2	GB132080	ø8,0x 6,2	GB140110	ø11,0x 9,0
GB120045	ø4,5x3,4	GB125090	ø9,0x7,0	GB132090	ø9,0x 7,0	GB140120	ø12,0x 9,0
GB120055	ø5,5x4,3	GB125100	ø10,0x8,0	GB132100	ø10,0x 8,0	GB140140	ø14,0x11,0
GB120060	ø6,0x4,9	GB125110	ø11,0x9,0	GB132110	ø11,0x 9,0	GB140160	ø16,0x12,0
GB120070	ø7,0x5,5	GB125120	ø12,0x9,0	GB132120	ø12,0x 9,0	GB140180	ø18,0x14,5
GB120080	ø8,0x6,2			GB132140	ø14,0x11,0	GB140200	ø20,0x16,0
GB120090	ø9,0x7,0			GB132160	ø16,0x12,0	GB140220	ø22,0x18,0
GB120100	ø10,0x8,0						

Gewindebohrzangen
PCM ET1 mit Längenausgleich

Tapping collets PCM ET1 with compensation

Lieferumfang ohne Werkzeug
Delivery without tool



ET1-16		ET1-20		ET1-25		ET1-32		ET1-40	
Art.-Nr.	Schaft	Art.-Nr.	Schaft	Art.-Nr.	Schaft	Art.-Nr.	Schaft	Art.-Nr.	Schaft
ET1-16280	ø2,8	ET1-20280	ø2,8	ET1-25280	ø2,8	ET1-32450	ø4,5	ET1-40600	ø6,0
ET1-16300	ø3,0	ET1-20300	ø3,0	ET1-25300	ø3,0	ET1-32500	ø5,0	ET1-40700	ø7,0
ET1-16350	ø3,5	ET1-20350	ø3,5	ET1-25350	ø3,5	ET1-32550	ø5,5	ET1-40800	ø8,0
ET1-16400	ø4,0	ET1-20400	ø4,0	ET1-25400	ø4,0	ET1-32600	ø6,0	ET1-40850	ø8,5
ET1-16450	ø4,5	ET1-20450	ø4,5	ET1-25450	ø4,5	ET1-32700	ø7,0	ET1-40900	ø9,0
ET1-16500	ø5,0	ET1-20500	ø5,0	ET1-25500	ø5,0	ET1-32800	ø8,0	ET1-40100	ø10,0
ET1-16550	ø5,5	ET1-20550	ø5,5	ET1-25550	ø5,5	ET1-32850	ø8,5	ET1-40105	ø10,5
ET1-16600	ø6,0	ET1-20600	ø6,0	ET1-25600	ø6,0	ET1-32900	ø9,0	ET1-40110	ø11,0
		ET1-20700	ø7,0	ET1-25700	ø7,0	ET1-32100	ø10,0	ET1-40120	ø12,0
				ET1-25800	ø8,0	ET1-32105	ø10,5	ET1-40125	ø12,5
				ET1-25850	ø8,5	ET1-32110	ø11,0	ET1-40140	ø14,0
				ET1-25900	ø9,0	ET1-32120	ø12,0	ET1-40150	ø15,0
				ET1-25100	ø10,0	ET1-32125	ø12,5	ET1-40160	ø16,0
								ET1-40170	ø17,0

TOOLFIX Werkzeugmontagegerät
TOOLFIX mounting equipment

Art.-Nr.	Typ	SK
250410	SK 30	30
251410	SK 40	40
252410	SK 50	50
		VDI
259410	VDI 20	20
260410	VDI 30	30
261410	VDI 40	40
262410	VDI 50	50
		HSK
253410	HSK-A40	A40
254410	HSK-E40	E40
255410	HSK-A50	A50
257410	HSK-A63	A63
258410	HSK-E63	E63
		POLYGON
263410	C4	C4
264410	C5	C5
265410	C6	C6
266410	C8	C8

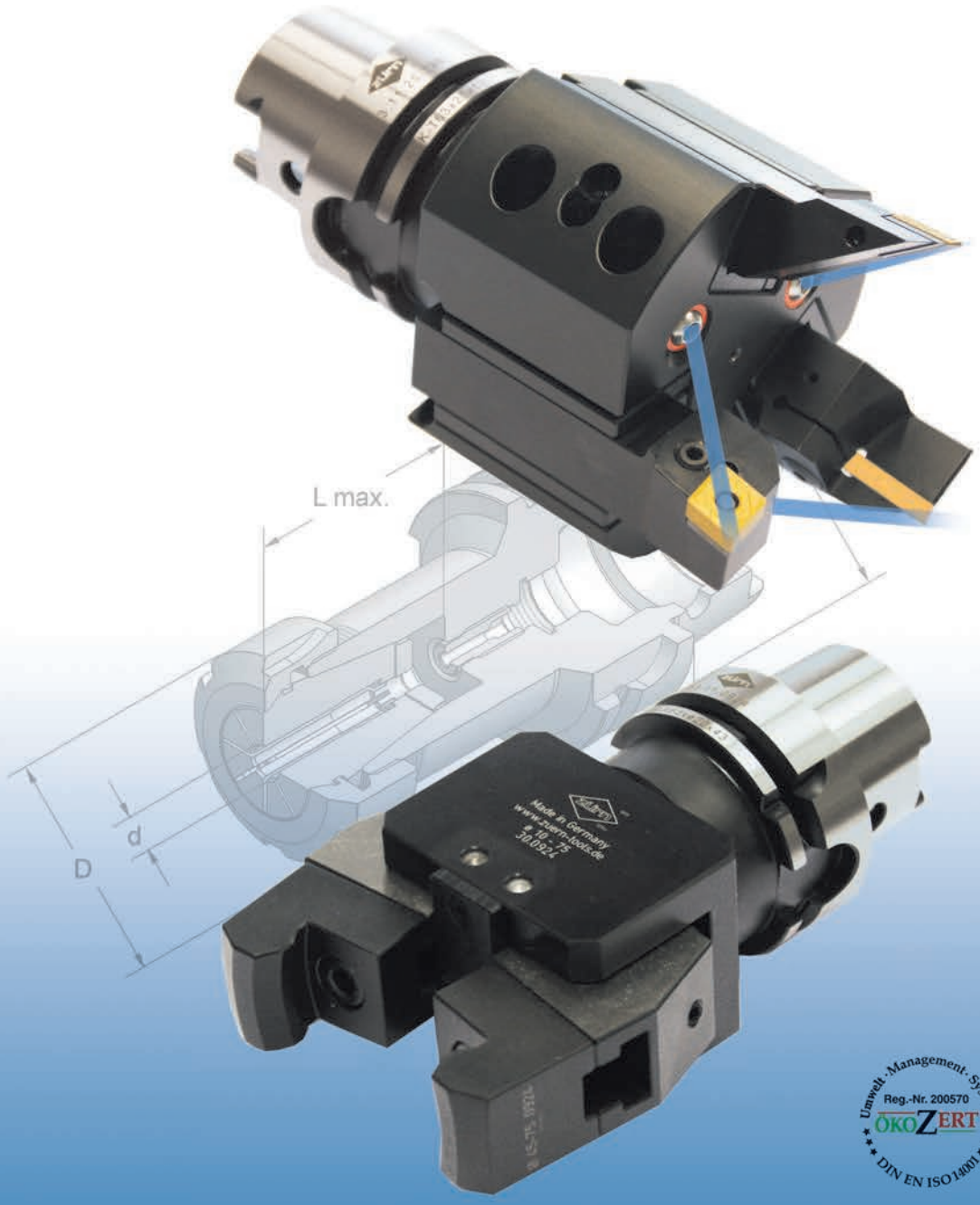
TOOLFIX VARIO Adaptersystem

VARIO ist die Version mit Schnellwechselverschluss zum Auswechseln von verschiedenen Werkzeugadaptern. Die VARIO-Version bietet Anwendern von verschiedenen Werkzeugaufnahmen die Möglichkeit verschiedene Adapterformen auf einem Basiskörper zu verwenden.

VARIO is a version with quick change lock for changing different tool adaptors. The VARIO-version makes possible to use different forms of adaptors on the same base-body for users with different toolholders.

Art.-Nr.	Typ	
31000	TOOLFIX VARIO Basiskörper / Base-body	
		SK
31030	VARIO-Adapter	30
31040	VARIO-Adapter	40
31050	VARIO-Adapter	50
		VDI
31116	VARIO-Adapter	16
31120	VARIO-Adapter	20
31125	VARIO-Adapter	25
31130	VARIO-Adapter	30
31140	VARIO-Adapter	40
31150	VARIO-Adapter	50

Art.-Nr.	Typ	
		HSK
31232	VARIO-Adapter	A 32
31240	VARIO-Adapter	A 40
31250	VARIO-Adapter	A 50
31263	VARIO-Adapter	A 63
31280	VARIO-Adapter	A 80
31210	VARIO-Adapter	A100
31632	VARIO-Adapter	E 32
31640	VARIO-Adapter	E 40
31650	VARIO-Adapter	E 50
31663	VARIO-Adapter	E 63
		POLYGON
31803	VARIO-Adapter	C 3
31804	VARIO-Adapter	C 4
31805	VARIO-Adapter	C 5
31806	VARIO-Adapter	C 6
31808	VARIO-Adapter	C 8

Werkzeugaufnahmen mit Hohlschaftkegel DIN 69893-1 / ISO 12164-3

Toolholders with HSK-taper shank DIN 69893-1 / ISO 12164-3