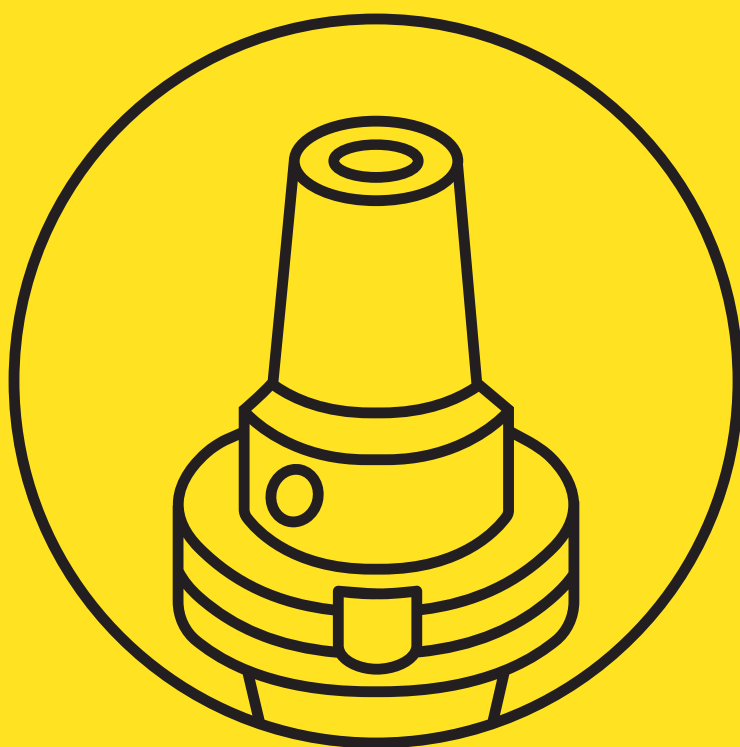


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INTERFACE
machine-side



Hydraulic chucks

Hydraulic chucks
HSK-A
e.g. # 4299
p. 7

Hydraulic chucks
HSK-C
e.g. # 4267
p. 13

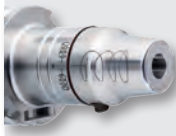


Shrink fit chucks

Shrink fit chucks
HSK-A
e.g. # 4736
p. 34

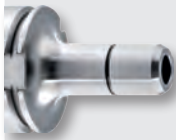
Shrink fit chucks
HSK-C
e.g. # 4758
p. 36

Shrink fit chucks
HSK-E
e.g. # 4737
p. 39



Tapping chucks

Gührosync
HSK-A
e.g. # 4601
p. 77



Tool holders for micro tools

Precision collet chuck holders
HSK-A
e.g. # 4476
p. 128

Precision collet chuck holders
HSK-A
e.g. # 4475
p. 129



Precision clamping chucks

Precision clamping chucks
HSK-A
e.g. # 4300
p. 133



Side lock holders

Side lock holders
Weldon
e.g. # 4232
p. 140

Side lock holders
Whisite Notch
e.g. # 4333
p. 145



Collet holders

Collet holders
HSK-A
e.g. # 4304
p. 156

Collet holders
HSK-C
e.g. # 4303
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Collet holders
HSK-E
e.g. # 4397
p. 160



INTERFACE

machine-side



SK

Hydraulic chucks

SK

e.g. # 4213
p. 15

MAS-BT

Hydraulic chucks

MAS/BT

e.g. # 4221
p. 19

MAS-BT DC

Hydraulic chucks

MAS/BT DC

e.g. # 4598
p. 22

CAT



Cyl

Shrink fit chucks

CYL

e.g. # 4719
p. 49**Shrink fit chucks**

SK

e.g. # 4738
p. 42**Shrink fit chucks**

MAS/BT

e.g. # 4739
p. 48**Shrink fit chucks**

MAS/BT DC

e.g. # 4790
p. 47**Gührosync**

SK

e.g. # 4576
p. 77**Gührosync**

MAS/BT

e.g. # 4577
p. 78**Gührosync**

CYL

e.g. # 4525
p. 78**Precision clamping chucks**

SK

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p. 133**Precision clamping chucks**

MAS/BT

e.g. # 4244
p. 134**Precision clamping chucks**

CAT

e.g. # 4243
p. 134**Extensions HPC**

CYL

e.g. # 4208
p. 135**Side lock holders**

Weldon

e.g. # 4824
p. 146**Side lock holders**

Weldon

e.g. # 4234
p. 151**Collet holders**

SK

e.g. # 4827
p. 161**Collet holders**

MAS/BT

e.g. # 4245
p. 162



SELECTION TOOL HOLDERS

Shrink fit chucks / shrink fit extensions	Hydraulic chucks / HMC 3000 / reduction bushes	GÜHROSYNC Hydraulic synchro tapping chucks
---	--	--



Main feature	For applications requiring slim interference contours and precision with good clamping force and rigidity at a moderate price.	Easy handling when stiffness and damping are required.	Combines the advantages of hydraulic expansion and synchroclamping technology. compensates deviations of the machine optimally.
Main application	HSC – universal Drilling, countersinking, milling, reaming	Reaming and drilling Countersinking, HSC application, light milling	Synchronized thread cutting and thread forming
Characteristics	<ul style="list-style-type: none"> highest concentricity accuracy thanks to patented damping screw high stiffness and clamping force <ul style="list-style-type: none"> modularly extendable 	<ul style="list-style-type: none"> high damping with high concentricity accuracy <ul style="list-style-type: none"> simple handling flexible use thanks to reducing bushes also with GÜHROJet 	<ul style="list-style-type: none"> perfect combination of hydraulic expansion chuck and synchro <ul style="list-style-type: none"> tapping chuck simple handling flexible use thanks to reducing bushes also with GÜHROJet <ul style="list-style-type: none"> long-lasting axial and radial balancing
Interfaces			
Clamping diameter range	3 - 32 mm	3 - 32 mm	Holder Ø 12: M2 - M12 (Mt max.: 26 Nm) Holder Ø 20: M4.5 - M20 (Mt max.: 90 Nm)
Concentricity	< 3 µm	< 3 µm	< 50 µm
Balance quality	G 2.5 with 25.000 1/min or U < 1 gmm	G 2.5 with 25.000 1/min or U < 1 gmm	G 6.3 with 15.000 1/min
Concentricity with 5xD	< 5 µm	< 5 µm	-
Clamping force	very high	very high	very high
Rigidity	very high	high	medium
Dampening	low	very high	very high
Interference contour	no/smallest	medium	medium
Handling	good	very good / very flexible	very good / very flexible
Actuation	Shrink fit device e. g. GSS 2000 article no. 4742	Hexagon key e. g. article no. 4912	Hexagon key e. g. article no. 4912



HPC precision power chucks / clamping sleeves	Collet chucks ER	Straight shank holders "Weldon" / "Whistle-Notch"
---	------------------	---



Main feature	Provides extreme clamping force and rigidity to compensate lateral forces acting on the tool during HPC milling.	All-rounder for universal use in the low accuracy range.	Simple handling with safe clamping for applications involving large machining volumes.
Main application	HPC milling heavy HPC and fast, accurate HSC milling, drilling, universal application	Flexible – universal light machining, centering, chamfering, drilling, threading; intermediate shank dimensions	Roughing Milling, drilling
Characteristics	<ul style="list-style-type: none"> extreme clamping force and stability thanks to mechanical clamping transmission high precision and balancing quality flexible use thanks to reducing bushes also with GÜHROJet 	<ul style="list-style-type: none"> flexible chuck for various shank dimensions and tolerances for conventional machining operations 	<ul style="list-style-type: none"> robust, low cost chuck for heavy machining in the lower speed and accuracy range
Interfaces			
Clamping diameter range	3 - 32 mm 1-6 mm (HPC extensions)	ER 11: 0.5 - 7.0 mm ER 16: 0.5 - 10.0 mm ER 20: 0.5 - 13.0 mm ER 25: 0.5 - 16.0 mm ER 32: 1.0 - 20.0 mm ER 40: 3.0 - 26.0 mm	6 - 40 mm
Concentricity	< 3 µm	< 10 µm	< 10 µm
Balance quality	G 2.5 with 20,000 1/min or U < 1.2 gmm	G 2.5 with 25,000 1/min or U < 1 gmm	G 6.3 with 15,000 1/min
Concentricity with 5xD	< 8 µm	< 20 µm	< 25 µm
Clamping force	extremely high	medium	very safe thanks to threaded pin
Rigidity	extremely high	medium	very high
Dampening	high	high	low
Interference contour	medium	large	large
Handling	very good/very flexible	good	good
Actuation	Hexagon key / torque wrench e. g. article no. 4987 + 4916 Type D	Hook spanner max. torque: information at at clamping screw article no. 4903	Hexagon key max. torque: information at clamping screw article no. 4903



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HPC chucks

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		239	Measuring/inspection instruments spindle holders
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	General accessories	244	General accessories



HSK-A hydraulic chucks with increased clamping force

Article no. **4299**



Product information:

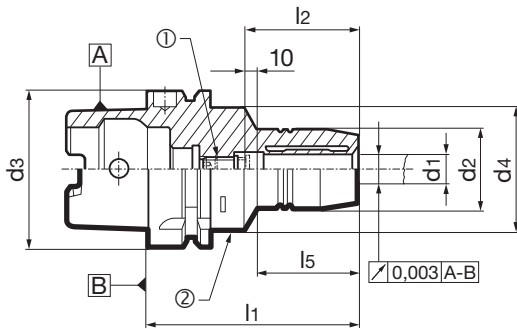
- HSK-A according to ISO 12164-1 / DIN 69893-1
- dimensions according to DIN 69882-7
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- axial length adjustment
- concentricity < 3 µm
l1 from 120 mm: max. 4 µm,
l1 from 150/160 mm: max. 5 µm,
l1 from 200 mm: max. 7 µm

Scope of delivery:

- incl. adjusting screw (1) art. no. 4900
- incl. clamping screw (2) art. no. 4241

Suitable accessories separately available:

- coolant supply set art. no. 4949
- replacement adjusting screw (1), art. no. 4900
- replacement clamping screw (2) art. no. 4241
- hexagonal key (2), art. no. 4912



Article no.

4299

d3	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	l5 mm	①	②	②	kg	Order no.
HSK-A 32	6	26.0	40.0	80.0	37.0	29.0	4900 6.014	4241 8.000	4912 4.000	0.4	4299 6.032
HSK-A 32	8	28.0	40.0	80.0	37.0	29.0	4900 8.014	4241 8.000	4912 4.000	0.4	4299 8.032
HSK-A 32	10	30.0	40.0	85.0	41.0	35.0	4900 8.014	4241 8.000	4912 4.000	0.4	4299 10.032
HSK-A 32	12	32.0	40.0	90.0	46.0	40.0	4900 8.014	4241 8.000	4912 4.000	0.4	4299 12.032
HSK-A 40	6	26.0	33.5	70.0	37.0	36.0	4900 6.014	4241 8.001	4912 4.000	0.6	4299 6.040
HSK-A 40	8	28.0	33.5	70.0	37.0	36.0	4900 8.014	4241 8.001	4912 4.000	0.6	4299 8.040
HSK-A 40	10	30.0	33.5	75.0	41.0	42.0	4900 8.014	4241 8.001	4912 4.000	0.6	4299 10.040
HSK-A 40	12	32.0	33.5	80.0	46.0	48.0	4900 8.014	4241 8.001	4912 4.000	0.6	4299 12.040
HSK-A 50	6	26.0	40.0	70.0	37.0	28.0	4900 6.014	4241 8.000	4912 4.000	0.8	4299 6.050
HSK-A 50	8	28.0	40.0	70.0	37.0	28.0	4900 8.014	4241 8.000	4912 4.000	0.8	4299 8.050
HSK-A 50	10	30.0	40.0	75.0	41.0	34.0	4900 10.014	4241 8.000	4912 4.000	0.8	4299 10.050
HSK-A 50	12	32.0	40.0	85.0	46.0	44.0	4900 12.014	4241 8.000	4912 4.000	0.8	4299 12.050
HSK-A 50	14	34.0	40.0	85.0	46.0	44.0	4900 12.014	4241 8.000	4912 4.000	0.8	4299 14.050
HSK-A 50	16	38.0	53.0	90.0	49.0	30.0	4900 16.014	4241 10.002	4912 5.000	1.1	4299 16.050
HSK-A 50	18	40.0	57.0	90.0	49.0	30.0	4900 16.014	4241 10.002	4912 5.000	1.1	4299 18.050
HSK-A 50	20	42.0	60.0	90.0	51.0	29.0	4900 20.114	4241 10.001	4912 5.000	1.1	4299 20.050
HSK-A 63	6	26.0	50.0	70.0	37.0	24.5	4900 6.014	4241 10.002	4912 5.000	1.1	4299 6.063
HSK-A 63	6	26.0	50.0	150.0	37.0	103.0	4900 6.014	4241 10.002	4912 5.000	1.5	4299 6.163
HSK-A 63	6	26.0	50.0	200.0	37.0	153.0	4900 6.014	4241 10.002	4912 5.000	1.7	4299 6.263
HSK-A 63	8	28.0	50.0	70.0	37.0	25.5	4900 8.014	4241 10.002	4912 5.000	1.1	4299 8.063
HSK-A 63	8	28.0	50.0	150.0	37.0	104.0	4900 8.014	4241 10.002	4912 5.000	1.5	4299 8.163
HSK-A 63	8	28.0	50.0	200.0	37.0	154.0	4900 8.014	4241 10.002	4912 5.000	1.7	4299 8.263
HSK-A 63	10	30.0	50.0	80.0	41.0	35.5	4900 10.014	4241 10.002	4912 5.000	1.1	4299 10.063
HSK-A 63	10	30.0	50.0	150.0	41.0	104.0	4900 10.014	4241 10.002	4912 5.000	1.5	4299 10.163
HSK-A 63	10	30.0	50.0	200.0	41.0	154.0	4900 10.014	4241 10.002	4912 5.000	1.8	4299 10.263
HSK-A 63	12	32.0	50.0	85.0	46.0	41.5	4900 12.014	4241 10.002	4912 5.000	1.1	4299 12.063
HSK-A 63	12	32.0	50.0	150.0	46.0	105.0	4900 12.014	4241 10.002	4912 5.000	1.5	4299 12.163
HSK-A 63	12	32.0	50.0	200.0	46.0	155.0	4900 12.014	4241 10.002	4912 5.000	1.8	4299 12.263
HSK-A 63	14	34.0	50.0	85.0	46.0	41.5	4900 12.014	4241 10.002	4912 5.000	1.2	4299 14.063
HSK-A 63	14	34.0	50.0	150.0	46.0	105.0	4900 12.014	4241 10.002	4912 5.000	1.7	4299 14.163
HSK-A 63	14	34.0	50.0	200.0	46.0	155.0	4900 12.014	4241 10.002	4912 5.000	2.1	4299 14.263
HSK-A 63	16	38.0	50.0	90.0	49.0	45.5	4900 16.014	4241 10.002	4912 5.000	1.3	4299 16.063
HSK-A 63	16	38.0	50.0	150.0	49.0	106.0	4900 16.014	4241 10.002	4912 5.000	1.8	4299 16.163
HSK-A 63	16	38.0	50.0	200.0	49.0	156.0	4900 16.014	4241 10.002	4912 5.000	2.2	4299 16.263
HSK-A 63	18	40.0	50.0	90.0	49.0	48.5	4900 16.014	4241 10.002	4912 5.000	1.3	4299 18.063
HSK-A 63	18	40.0	50.0	150.0	49.0	107.0	4900 16.014	4241 10.002	4912 5.000	1.9	4299 18.163
HSK-A 63	18	40.0	50.0	200.0	49.0	157.0	4900 16.014	4241 10.002	4912 5.000	2.3	4299 18.263
HSK-A 63	20	42.0	50.0	90.0	51.0	47.5	4900 20.114	4241 10.001	4912 5.000	1.3	4299 20.063
HSK-A 63	20	42.0	50.0	150.0	51.0	108.0	4900 20.114	4241 10.002	4912 5.000	1.9	4299 20.163
HSK-A 63	20	42.0	50.0	200.0	51.0	158.0	4900 20.114	4241 10.002	4912 5.000	2.5	4299 20.263
HSK-A 63	25	57.0	63.0	120.0	57.0	55.3	4900 20.114	4241 12.000	4912 6.000	2.3	4299 25.063
HSK-A 63	32	64.0	75.0	125.0	61.0	63.0	4900 20.114	4241 12.000	4912 6.000	2.9	4299 32.063
HSK-A 80	6	26.0	50.0	70.0	37.0	24.0	4900 6.014	4241 10.002	4912 5.000	1.5	4299 6.080
HSK-A 80	8	28.0	50.0	70.0	37.0	24.0	4900 8.014	4241 10.002	4912 5.000	1.5	4299 8.080
HSK-A 80	10	30.0	50.0	80.0	41.0	35.0	4900 10.014	4241 10.002	4912 5.000	1.5	4299 10.080
HSK-A 80	12	32.0	50.0	85.0	46.0	40.0	4900 12.014	4241 10.002	4912 5.000	1.6	4299 12.080
HSK-A 80	14	34.0	50.0	85.0	46.0	40.0	4900 12.014	4241 10.002	4912 5.000	1.6	4299 14.080
HSK-A 80	16	38.0	50.0	95.0	49.0	51.0	4900 16.014	4241 10.002	4912 5.000	1.7	4299 16.080

Hydraulic chucks



Article no.

4299

d3	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	l5 mm	①	②	②	kg	Order no.
HSK-A 80	18	40.0	50.0	95.0	49.0	51.0	4900 16.014	4241 10.002	4912 5.000	1.8	4299 18.080
HSK-A 80	20	42.0	50.0	95.0	51.0	52.0	4900 20.114	4241 10.001	4912 5.000	1.8	4299 20.080
HSK-A 80	25	57.0	63.0	110.0	57.0	65.0	4900 20.114	4241 12.000	4912 6.000	2.6	4299 25.080
HSK-A 80	32	64.0	75.0	125.0	61.0	63.0	4900 20.114	4241 12.000	4912 6.000	3.2	4299 32.080
HSK-A 100	6	26.0	50.0	75.0	37.0	24.0	4900 6.014	4241 10.002	4912 5.000	2.4	4299 6.100
HSK-A 100	8	28.0	50.0	75.0	37.0	26.0	4900 8.014	4241 10.002	4912 5.000	2.4	4299 8.100
HSK-A 100	10	30.0	50.0	90.0	41.0	42.0	4900 10.014	4241 10.002	4912 5.000	2.5	4299 10.100
HSK-A 100	12	32.0	50.0	95.0	46.0	47.0	4900 12.014	4241 10.002	4912 5.000	2.5	4299 12.100
HSK-A 100	14	34.0	50.0	95.0	46.0	47.0	4900 12.014	4241 10.002	4912 5.000	2.5	4299 14.100
HSK-A 100	16	38.0	50.0	100.0	49.0	53.0	4900 16.014	4241 10.002	4912 5.000	2.7	4299 16.100
HSK-A 100	18	40.0	50.0	100.0	49.0	53.0	4900 16.014	4241 10.002	4912 5.000	2.7	4299 18.100
HSK-A 100	20	42.0	50.0	105.0	51.0	59.0	4900 20.114	4241 10.001	4912 5.000	3.2	4299 20.100
HSK-A 100	25	57.0	63.0	110.0	57.0	62.0	4900 20.114	4241 12.000	4912 6.000	3.3	4299 25.100
HSK-A 100	32	64.0	75.0	110.0	61.0	62.0	4900 20.114	4241 12.000	4912 6.000	3.8	4299 32.100
HSK-A 100	6	26.0	50.0	160.0	37.0	104.0	4900 6.014	4241 10.002	4912 5.000	2.8	4299 106.100
HSK-A 100	8	28.0	50.0	160.0	37.0	104.0	4900 8.014	4241 10.002	4912 5.000	2.8	4299 108.100
HSK-A 100	10	30.0	50.0	160.0	41.0	105.0	4900 10.014	4241 10.002	4912 5.000	2.9	4299 110.100
HSK-A 100	12	32.0	50.0	160.0	46.0	105.0	4900 12.014	4241 10.002	4912 5.000	2.9	4299 112.100
HSK-A 100	14	34.0	50.0	160.0	46.0	107.0	4900 12.014	4241 10.002	4912 5.000	2.9	4299 114.100
HSK-A 100	16	38.0	50.0	160.0	49.0	107.0	4900 16.014	4241 10.002	4912 5.000	3.2	4299 116.100
HSK-A 100	18	40.0	50.0	160.0	49.0	108.0	4900 16.014	4241 10.002	4912 5.000	3.2	4299 118.100
HSK-A 100	20	42.0	50.0	160.0	51.0	108.0	4900 20.114	4241 10.001	4912 5.000	3.6	4299 120.100
HSK-A 100	25	57.0	63.0	160.0	57.0	110.0	4900 20.114	4241 12.000	4912 6.000	3.7	4299 125.100
HSK-A 100	32	64.0	75.0	160.0	61.0	110.0	4900 20.114	4241 12.000	4912 6.000	4.2	4299 132.100
HSK-A 100	6	26.0	50.0	200.0	37.0	144.0	4900 6.014	4241 10.002	4912 5.000	3.0	4299 206.100
HSK-A 100	8	28.0	50.0	200.0	37.0	144.0	4900 8.014	4241 10.002	4912 5.000	3.0	4299 208.100
HSK-A 100	10	30.0	50.0	200.0	41.0	145.0	4900 10.014	4241 10.002	4912 5.000	3.1	4299 210.100
HSK-A 100	12	32.0	50.0	200.0	46.0	145.0	4900 12.014	4241 10.002	4912 5.000	3.1	4299 212.100
HSK-A 100	14	34.0	50.0	200.0	46.0	147.0	4900 12.014	4241 10.002	4912 5.000	3.1	4299 214.100
HSK-A 100	16	38.0	50.0	200.0	49.0	147.0	4900 16.014	4241 10.002	4912 5.000	3.4	4299 216.100
HSK-A 100	18	40.0	50.0	200.0	49.0	148.0	4900 16.014	4241 10.002	4912 5.000	3.4	4299 218.100
HSK-A 100	20	42.0	50.0	200.0	51.0	148.0	4900 20.114	4241 10.001	4912 5.000	3.8	4299 220.100
HSK-A 100	25	57.0	63.0	200.0	57.0	150.0	4900 20.114	4241 12.000	4912 6.000	3.9	4299 225.100
HSK-A 100	32	64.0	75.0	200.0	61.0	150.0	4900 20.114	4241 12.000	4912 6.000	4.4	4299 232.100



Product information:

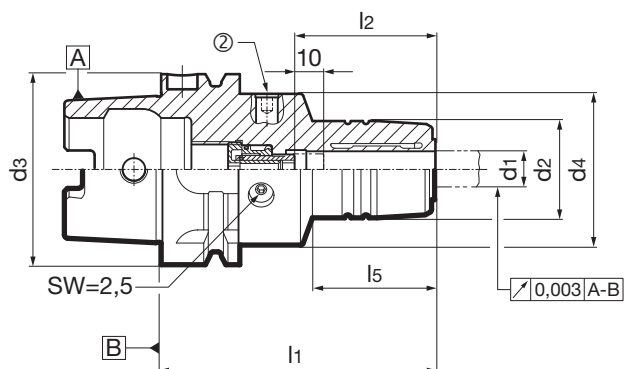
- HSK-A according to ISO 12164-1 / DIN 69893-1
- dimensions according to DIN 69882-7
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- robust, radially operated length setting
- concentricity < 3 µm
l1 to 120 mm: max. 4 µm

Scope of delivery:

- incl. clamping screw (2) art. no. 4241

Suitable accessories separately available:

- socket wrench for radial length adjustment art. no. 4912
- coolant supply set art. no. 4949
- replacement clamping screw (2) art. no. 4241
- hexagonal key (2), art. no. 4912
- MQL version available on request



Article no. **4296**

d3	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	l5 mm	②	②	kg	Order no.
HSK-A 50	6	26.0	40.0	80	37	35.0	4241 8.000	4912 4.000	0.6	4296 6.050
HSK-A 50	8	28.0	40.0	80	37	36.0	4241 8.000	4912 4.000	0.6	4296 8.050
HSK-A 50	10	30.0	40.0	85	41	38.0	4241 8.000	4912 4.000	0.7	4296 10.050
HSK-A 50	12	32.0	40.0	90	46	43.0	4241 8.000	4912 4.000	0.7	4296 12.050
HSK-A 50	14	34.0	40.0	90	46	46.0	4241 8.000	4912 4.000	0.7	4296 14.050
HSK-A 50	16	38.0	53.0	95	49	36.5	4241 10.002	4912 5.000	0.9	4296 16.050
HSK-A 50	18	40.0	57.0	95	49	36.5	4241 10.002	4912 5.000	1.0	4296 18.050
HSK-A 50	20	42.0	60.0	100	51	39.0	4241 10.001	4912 5.000	1.1	4296 20.050
HSK-A 63	6	26.0	50.0	80	37	33.0	4241 10.001	4912 5.000	0.9	4296 6.063
HSK-A 63	8	28.0	50.0	80	37	33.0	4241 10.002	4912 5.000	1.0	4296 8.063
HSK-A 63	10	30.0	50.0	85	41	38.0	4241 10.002	4912 5.000	1.0	4296 10.063
HSK-A 63	12	32.0	50.0	90	46	40.0	4241 10.002	4912 5.000	1.1	4296 12.063
HSK-A 63	14	34.0	50.0	90	46	46.0	4241 10.001	4912 5.000	1.0	4296 14.063
HSK-A 63	16	38.0	50.0	95	49	51.0	4241 10.001	4912 5.000	1.1	4296 16.063
HSK-A 63	18	40.0	50.0	95	49	52.0	4241 10.001	4912 5.000	1.1	4296 18.063
HSK-A 63	20	42.0	50.0	100	51	58.0	4241 10.001	4912 5.000	1.2	4296 20.063
HSK-A 63	25	57.0	63.0	120	57	59.5	4241 12.000	4912 6.000	2.1	4296 25.063
HSK-A 63	32	64.0	75.0	125	61	62.5	4241 12.000	4912 6.000	2.5	4296 32.063
HSK-A 80	6	26.0	50.0	85	37	35.0	4241 10.001	4912 5.000	1.4	4296 6.080
HSK-A 80	8	28.0	50.0	85	37	36.0	4241 10.001	4912 5.000	1.5	4296 8.080
HSK-A 80	10	30.0	50.0	90	41	38.0	4241 10.002	4912 5.000	1.5	4296 10.080
HSK-A 80	12	32.0	50.0	95	46	46.0	4241 10.001	4912 5.000	1.5	4296 12.080
HSK-A 80	14	34.0	50.0	95	46	47.0	4241 10.001	4912 5.000	1.5	4296 14.080
HSK-A 80	16	38.0	50.0	100	49	53.0	4241 10.001	4912 5.000	1.6	4296 16.080
HSK-A 80	18	40.0	50.0	100	49	54.0	4241 10.001	4912 5.000	1.7	4296 18.080
HSK-A 80	20	42.0	50.0	105	51	58.0	4241 10.001	4912 5.000	1.7	4296 20.080
HSK-A 80	25	57.0	63.0	115	57	66.0	4241 12.000	4912 6.000	2.5	4296 25.080
HSK-A 80	32	64.0	75.0	125	61	63.0	4241 12.000	4912 6.000	3.0	4296 32.080
HSK-A 100	6	26.0	50.0	85	37	33.0	4241 10.001	4912 5.000	2.3	4296 6.100
HSK-A 100	8	28.0	50.0	85	37	33.0	4241 10.002	4912 5.000	2.4	4296 8.100
HSK-A 100	10	30.0	50.0	90	41	36.0	4241 10.002	4912 5.000	2.4	4296 10.100
HSK-A 100	12	32.0	50.0	95	46	40.0	4241 10.002	4912 5.000	2.5	4296 12.100
HSK-A 100	14	34.0	50.0	95	46	46.0	4241 10.001	4912 5.000	2.4	4296 14.100
HSK-A 100	16	38.0	50.0	100	49	51.0	4241 10.001	4912 5.000	2.5	4296 16.100
HSK-A 100	18	40.0	50.0	100	49	52.0	4241 10.001	4912 5.000	2.5	4296 18.100
HSK-A 100	20	42.0	50.0	105	51	58.0	4241 10.001	4912 5.000	2.6	4296 20.100
HSK-A 100	25	57.0	63.0	115	57	60.0	4241 12.000	4912 6.000	3.3	4296 25.100
HSK-A 100	32	64.0	75.0	120	61	68.0	4241 12.000	4912 6.000	3.8	4296 32.100

Hydraulic chucks



HSK-A hydraulic chucks

Article no. **4662**



Product information:

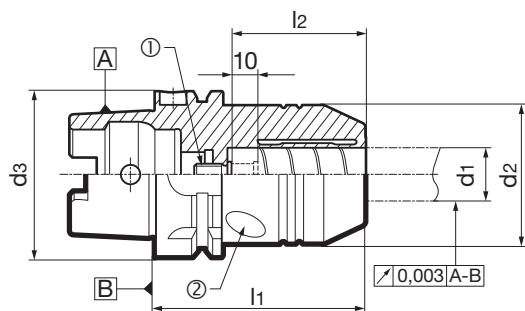
- HSK-A according to ISO 12164-1 / DIN 69893-1
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- axial length adjustment

Scope of delivery:

- incl. adjusting screw (1) art. no. 4900
- incl. clamping screw (2) art. no. 4241

Suitable accessories separately available:

- coolant supply set art. no. 4949
- replacement adjusting screw (1), art. no. 4900
- replacement clamping screw (2) art. no. 4241
- hexagonal key (2), art. no. 4912



Article no.

4662

d3	d1 mm	d2 mm	l1 mm	l2 mm	①	②	②	kg
HSK-A 63	20	52.5	80.0	51.0	4900 10.014	4241 10.001	4912 5.000	1.3

Order no.

4662 20.063



HSK-A hydraulic chucks, slim design 3°

Article no. **4596**



Product information:

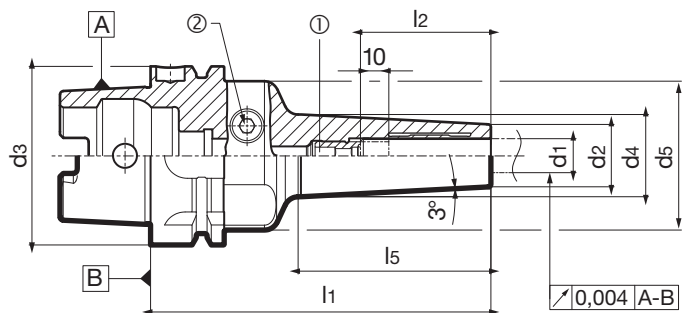
- HSK-A according to ISO 12164-1 / DIN 69893-1
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- axial length adjustment
- concentricity < 3 µm
l1 to 120 mm: max. 4 µm

Scope of delivery:

- incl. adjusting screw (1) art. no. 4941
- incl. clamping screw (2) art. no. 4241

Suitable accessories separately available:

- coolant supply set art. no. 4949
- replacement adjusting screw (1), art. no. 4941
- replacement clamping screw (2) art. no. 4241
- hexagonal key (2), art. no. 4912
- MQL version available on request



Article no.

4596

d3	d1 mm	d2 mm	d4 mm	d5 mm	l1 mm	l2 mm	l5 mm	①	②	②	kg
HSK-A 63	6	16	23.0	52.5	120	37	67.5	4941 6.041	4241 10.002	4912 5.000	1.1
HSK-A 63	8	18	25.0	52.5	120	37	67.5	4941 8.040	4241 10.002	4912 5.000	1.1
HSK-A 63	10	20	27.0	52.5	120	41	67.5	4941 10.050	4241 10.002	4912 5.000	1.1
HSK-A 63	12	22	29.0	52.5	120	46	68.0	4941 12.100	4241 10.002	4912 5.000	1.2
HSK-A 63	14	24	31.0	52.5	120	46	68.4	4941 14.100	4241 10.002	4912 5.000	1.2
HSK-A 63	16	26	33.0	52.5	120	49	68.9	4941 16.100	4241 10.002	4912 5.000	1.2
HSK-A 63	18	28	35.0	52.5	120	49	69.4	4941 18.100	4241 10.002	4912 5.000	1.2
HSK-A 63	20	30	37.0	52.5	120	51	69.7	4941 20.100	4241 10.002	4912 5.000	1.3
HSK-A 63	6	16	27.2	52.5	160	37	108.4	4941 6.041	4241 10.002	4912 5.000	1.2
HSK-A 63	8	18	29.2	52.5	160	37	108.4	4941 8.040	4241 10.002	4912 5.000	1.3
HSK-A 63	10	20	31.2	52.5	160	41	108.4	4941 10.050	4241 10.002	4912 5.000	1.3
HSK-A 63	12	22	33.3	52.5	160	46	109.0	4941 12.100	4241 10.002	4912 5.000	1.4
HSK-A 63	14	24	35.3	52.5	160	46	109.4	4941 14.100	4241 10.002	4912 5.000	1.5
HSK-A 63	16	26	37.4	52.5	160	49	110.0	4941 16.100	4241 10.002	4912 5.000	1.5
HSK-A 63	18	28	39.4	52.5	160	49	110.4	4941 18.100	4241 10.002	4912 5.000	1.6
HSK-A 63	20	30	41.5	52.5	160	51	112.0	4941 20.100	4241 10.002	4912 5.000	1.6

Order no.
4596 6.163
4596 8.163
4596 10.163
4596 12.163
4596 14.163
4596 16.163
4596 18.163
4596 20.163
4596 6.263
4596 8.263
4596 10.263
4596 12.263
4596 14.263
4596 16.263
4596 18.263
4596 20.263



HSK-A hydraulic chucks HMC 3000

Article no. **4618**



Product information:

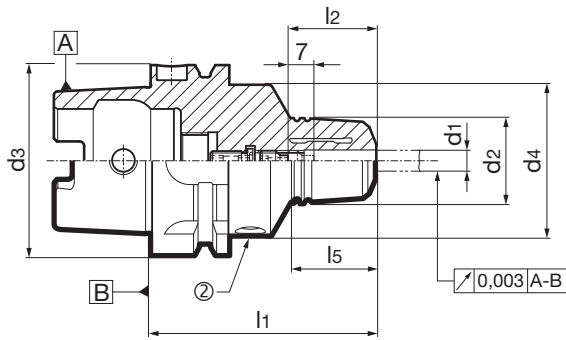
- HSK-A according to ISO 12164-1 / DIN 69893-1
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- perfect concentricity: < 3 µm bei 10xd1
- high clamping force
- quick, easy handling and precise length adjustment only possible from the front
- IC and Gührojet peripheral cooling ensure optimal chip removal and tool lubrication
- for tool shanks d1 h6
- for small clamping diameters

Scope of delivery:

- incl. adjusting screw

Suitable accessories separately available:

- coolant supply set art. no. 4949
- replacement clamping screw (2) art. no. 4241
- hexagonal key (2), art. no. 4912



Article no. **4618**

d3	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	l5 mm	②	②	kg	Order no.
HSK-A 32	3	28.0	40.0	84	34	33.0	4241 8.000	4912 4.000	0.5	4618 3.032
HSK-A 32	4	28.0	40.0	84	34	33.0	4241 8.000	4912 4.000	0.4	4618 4.032
HSK-A 32	5	28.0	40.0	84	34	33.0	4241 8.000	4912 4.000	0.4	4618 5.032
HSK-A 40	3	28.0	33.5	74	34	40.0	4241 8.001	4912 4.000	0.6	4618 3.040
HSK-A 40	4	28.0	33.5	74	34	40.0	4241 8.001	4912 4.000	0.6	4618 4.040
HSK-A 40	5	28.0	33.5	74	34	40.0	4241 8.001	4912 4.000	0.6	4618 5.040
HSK-A 50	3	28.0	40.0	74	34	32.0	4241 8.000	4912 4.000	0.8	4618 3.050
HSK-A 50	4	28.0	40.0	74	34	32.0	4241 8.000	4912 4.000	0.8	4618 4.050
HSK-A 50	5	28.0	40.0	74	34	32.0	4241 8.000	4912 4.000	0.8	4618 5.050
HSK-A 63	3	28.0	50.0	74	34	29.5	4241 10.002	4912 5.000	1.0	4618 3.063
HSK-A 63	4	28.0	50.0	74	34	29.5	4241 10.002	4912 5.000	1.0	4618 4.063
HSK-A 63	5	28.0	50.0	74	34	29.5	4241 10.002	4912 5.000	1.0	4618 5.063
HSK-A 100	3	28.0	50.0	79	34	30.0	4241 10.002	4912 5.000	2.4	4618 3.100
HSK-A 100	4	28.0	50.0	79	34	30.0	4241 10.002	4912 5.000	2.4	4618 4.100
HSK-A 100	5	28.0	50.0	79	34	30.0	4241 10.002	4912 5.000	2.4	4618 5.100



HSK-C hydraulic chucks with increased clamping force

Article no. **4267**



Product information:

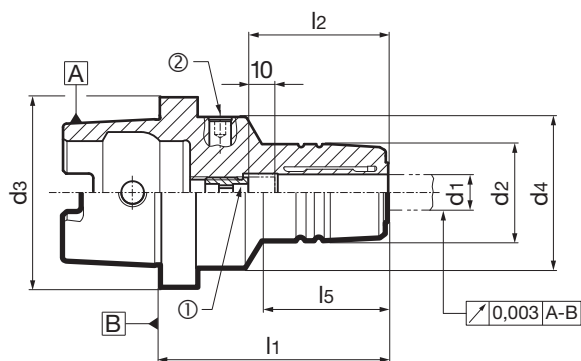
- HSK-C according to ISO 12164-1/DIN 69893-1
- HSK-C 32 with clamping groove, threaded hole for coolant transfer set and hole for data medium
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6

Scope of delivery:

- incl. adjusting screw (1) art. no. 4900
- incl. clamping screw (2) art. no. 4241

Suitable accessories separately available:

- replacement adjusting screw (1), art. no. 4900
- replacement clamping screw (2) art. no. 4241
- hexagonal key (2), art. no. 4912



Article no.

4267

d3	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	l5 mm	①	②	②	kg
HSK-C 32	6	26.0	32.0	65.0	37.5	33.0	4900 6.014	4241 8.001	4912 4.000	0.3
HSK-C 32	8	28.0	32.0	67.0	37.5	34.0	4900 8.014	4241 8.001	4912 4.000	0.3
HSK-C 32	10	30.0	32.0	72.7	42.5	39.0	4900 8.014	4241 8.001	4912 4.000	0.3
HSK-C 32	12	31.5	32.0	76.0	46.0	45.0	4900 8.014	4241 8.001	4912 4.000	0.3
HSK-C 40	6	26.0	40.0	60.0	37.0	35.0	4900 6.014	4241 8.000	4912 4.000	0.3
HSK-C 40	8	28.0	40.0	60.0	37.0	36.0	4900 8.014	4241 8.000	4912 4.000	0.3
HSK-C 40	10	30.0	40.0	65.0	41.0	41.0	4900 8.014	4241 8.000	4912 4.000	0.4
HSK-C 40	12	32.0	40.0	70.0	46.0	47.0	4900 8.014	4241 8.000	4912 4.000	0.4
HSK-C 50	6	26.0	50.0	60.0	37.0	30.0	4900 6.014	4241 10.002	4912 5.000	0.5
HSK-C 50	8	28.0	50.0	60.0	37.0	30.0	4900 8.014	4241 10.002	4912 5.000	0.5
HSK-C 50	10	30.0	50.0	65.0	41.0	35.0	4900 10.014	4241 10.002	4912 5.000	0.5
HSK-C 50	12	32.0	50.0	75.0	46.0	44.0	4900 12.014	4241 10.002	4912 5.000	0.6
HSK-C 50	14	34.0	50.0	75.0	46.0	46.0	4900 12.014	4241 10.002	4912 5.000	0.6
HSK-C 50	16	38.0	50.0	80.0	49.0	51.0	4900 16.014	4241 10.002	4912 5.000	0.7
HSK-C 50	18	40.0	50.0	80.0	49.0	51.0	4900 16.014	4241 10.002	4912 5.000	0.7
HSK-C 50	20	42.0	50.0	80.0	51.0	52.0	4900 20.114	4241 10.001	4912 5.000	0.8
HSK-C 63	6	26.0	50.0	60.0	37.0	25.0	4900 6.014	4241 10.002	4912 5.000	0.7
HSK-C 63	8	28.0	50.0	60.0	37.0	26.0	4900 8.014	4241 10.002	4912 5.000	0.7
HSK-C 63	10	30.0	50.0	65.0	41.0	31.0	4900 10.014	4241 10.002	4912 5.000	0.7
HSK-C 63	12	32.0	50.0	75.0	46.0	41.0	4900 12.014	4241 10.002	4912 5.000	0.8
HSK-C 63	14	34.0	50.0	75.0	46.0	42.0	4900 12.014	4241 10.002	4912 5.000	0.8
HSK-C 63	16	38.0	50.0	80.0	49.0	48.0	4900 16.014	4241 10.002	4912 5.000	0.9
HSK-C 63	18	40.0	50.0	80.0	49.0	48.0	4900 16.014	4241 10.002	4912 5.000	0.9
HSK-C 63	20	42.0	50.0	80.0	51.0	49.0	4900 20.114	4241 10.001	4912 5.000	0.9
HSK-C 63	25	57.0	63.0	95.0	57.0	63.0	4900 20.114	4241 12.000	4912 6.000	1.7
HSK-C 63	32	62.5	75.0	100.0	61.0	60.3	4900 20.114	4241 12.000	4912 6.000	2.1

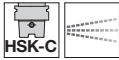
Order no.
4267 6.032
4267 8.032
4267 10.032
4267 12.032
4267 6.040
4267 8.040
4267 10.040
4267 12.040
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4267 8.050
4267 10.050
4267 12.050
4267 14.050
4267 16.050
4267 18.050
4267 20.050
4267 6.063
4267 8.063
4267 10.063
4267 12.063
4267 14.063
4267 16.063
4267 18.063
4267 20.063
4267 25.063
4267 32.063

Hydraulic chucks



HSK-C hydraulic chucks with radial length adjustment

Article no. 4295



Product information:

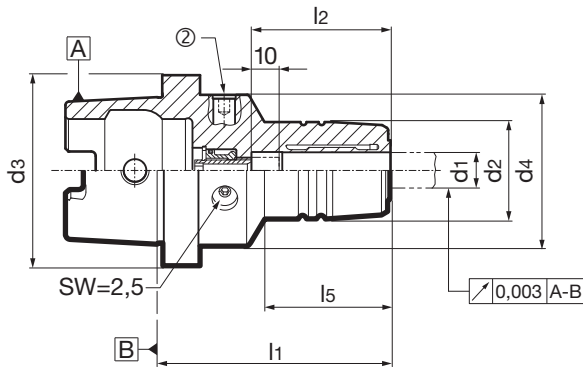
- HSK-C according to ISO 12164-1/DIN 69893-1
- dimensions according to DIN 69882-7
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm

Scope of delivery:

- incl. clamping screw (2) art. no. 4241

Suitable accessories separately available:

- socket wrench for radial length adjustment art. no. 4912
- replacement clamping screw (2) art. no. 4241
- hexagonal key (2), art. no. 4912



Article no.

4295

d3	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	l5 mm	②	②	kg	Order no.
HSK-C 40	6	26.0	40.0	60	37	30.0	4241 8.000	4912 4.000	0.5	4295 6.040
HSK-C 40	8	28.0	40.0	60	37	30.0	4241 8.000	4912 4.000	0.5	4295 8.040
HSK-C 40	10	30.0	40.0	65	41	35.0	4241 8.000	4912 4.000	0.5	4295 10.040
HSK-C 40	12	32.0	40.0	70	46	40.0	4241 8.000	4912 4.000	0.6	4295 12.040
HSK-C 50	6	26.0	50.0	60	37	30.0	4241 8.000	4912 4.000	0.6	4295 6.050
HSK-C 50	8	28.0	50.0	60	37	30.0	4241 10.002	4912 5.000	0.6	4295 8.050
HSK-C 50	10	30.0	50.0	65	41	35.5	4241 10.002	4912 5.000	0.6	4295 10.050
HSK-C 50	12	32.0	50.0	75	46	45.0	4241 10.002	4912 5.000	0.8	4295 12.050
HSK-C 50	14	34.0	50.0	75	46	45.0	4241 10.002	4912 5.000	0.9	4295 14.050
HSK-C 50	16	38.0	50.0	80	49	50.0	4241 10.002	4912 5.000	0.9	4295 16.050
HSK-C 50	18	40.0	50.0	80	49	50.0	4241 10.002	4912 5.000	1.0	4295 18.050
HSK-C 50	20	42.0	50.0	80	51	50.0	4241 10.001	4912 5.000	1.0	4295 20.050
HSK-C 63	6	26.0	50.0	60	37	26.0	4241 10.002	4912 5.000	1.0	4295 6.063
HSK-C 63	8	28.0	50.0	60	37	26.0	4241 10.002	4912 5.000	1.1	4295 8.063
HSK-C 63	10	30.0	50.0	65	41	32.0	4241 10,002	4912 5.000	1.1	4295 10.063
HSK-C 63	12	32.0	50.0	75	46	42.5	4241 10.002	4912 5.000	1.1	4295 12.063
HSK-C 63	14	34.0	50.0	75	46	43.0	4241 10.002	4912 5.000	1.1	4295 14.063
HSK-C 63	16	38.0	50.0	80	49	49.0	4241 10.002	4912 5.000	1.2	4295 16.063
HSK-C 63	18	40.0	50.0	80	49	50.0	4241 10.002	4912 5.000	1.2	4295 18.063
HSK-C 63	20	42.0	50.0	80	51	50.5	4241 10.001	4912 5.000	1.2	4295 20.063
HSK-C 63	25	57.0	63.0	95	57	59.5	4241 12.000	4912 6.000	1.8	4295 25.063
HSK-C 63	32	62.5	63.0	100	61	60.0	4241 12.000	4912 6.000	2.3	4295 32.063



ISO taper hydraulic chucks with increased clamping force

Article no. **4213**



Product information:

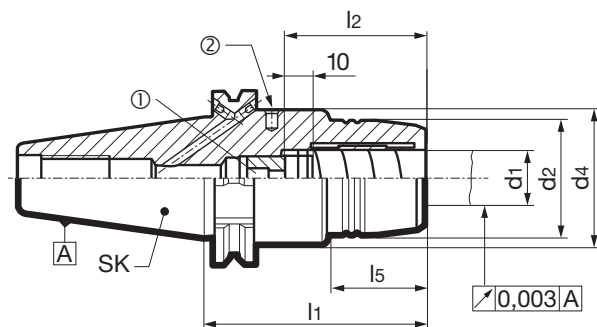
- ISO taper to DIN ISO 7388-1 form AD/AF
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- axial length adjustment
- holes for AF form closed with threaded pins on delivery

Scope of delivery:

- incl. adjusting screw (1) art. no. 4900
- incl. clamping screw (2) art. no. 4241

Suitable accessories separately available:

- ISO pull studs art. no. 4925, 4926
- replacement adjusting screw (1), art. no. 4900
- replacement clamping screw (2) art. no. 4241
- hexagonal key (2), art. no. 4912



Article no.

4213

SK	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	l5 mm	①	②	②	kg	Order no.
SK 40	6	26.0	49.5	80.5	37.0	29.5	4900 6.014	4241 10.002	4912 5.000	1.2	4213 6.040
SK 40	8	28.0	49.5	80.5	37.0	30.0	4900 8.014	4241 10.002	4912 5.000	1.2	4213 8.040
SK 40	10	30.0	49.5	80.5	41.0	31.0	4900 10.014	4241 10.002	4912 5.000	1.3	4213 10.040
SK 40	12	32.0	49.5	80.5	46.0	31.5	4900 12.014	4241 10.002	4912 5.000	1.3	4213 12.040
SK 40	14	34.0	49.5	80.5	46.0	31.5	4900 12.014	4241 10.002	4912 5.000	1.3	4213 14.040
SK 40	16	38.0	49.5	80.5	49.0	33.0	4900 16.014	4241 10.002	4912 5.000	1.3	4213 16.040
SK 40	18	40.0	49.5	80.5	49.0	33.0	4900 16.014	4241 10.002	4912 5.000	1.3	4213 18.040
SK 40	20	49.5	49.5	64.5	51.0	45.4	4900 20.114	4241 10.001	4912 5.000	1.7	4213 20.040
SK 40	20	42.0	49.5	80.5	51.0	34.0	4900 20.114	4241 10.001	4912 5.000	1.3	4213 20.140
SK 40	20	42.0	49.5	110.0	51.0	34.0	4900 20.114	4241 10.001	4912 5.000	1.7	4213 20.240
SK 40	25	49.5	49.5	80.5	57.0	61.4	4900 20.114	4241 12.000	4912 6.000	1.3	4213 25.040
SK 40	32	63.0	80.0	80.5	61.0	25.5	4900 20.114	4241 12.000	4912 6.000	1.8	4213 32.040
SK 50	12	32.0	49.5	80.5	46.0	31.5	4900 12.014	4241 10.002	4912 5.000	3.1	4213 12.050
SK 50	20	42.0	49.5	80.5	51.0	34.0	4900 20.114	4241 10.001	4912 5.000	3.1	4213 20.050
SK 50	20	42.0	49.5	110.0	51.0	34.0	4900 20.114	4241 10.001	4912 5.000	3.6	4213 20.150
SK 50	32	72.0	72.0	81.0	61.0	61.9	4900 20.114	4241 12.000	4912 6.000	3.8	4213 32.050



ISO taper hydraulic chucks

Article no. 4663



Product information:

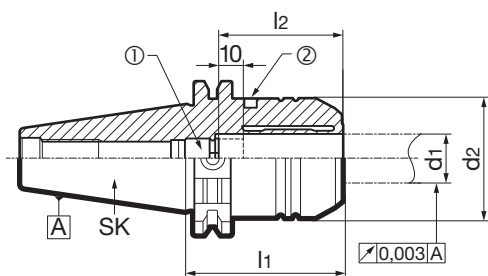
- ISO taper to DIN ISO 7388-1 form AD/AF
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- axial length adjustment

Scope of delivery:

- incl. adjusting screw (1) art. no. 4900
- incl. clamping screw (2) art. no. 4241

Suitable accessories separately available:

- ISO pull studs art. no. 4925, 4926
- replacement adjusting screw (1), art. no. 4900
- replacement clamping screw (2) art. no. 4241
- hexagonal key (2), art. no. 4912



Article no.

4663

SK	d1 mm	d2 mm	l1 mm	l2 mm	①	②	②	kg
SK 40	20	49.3	64.5	51.0	4900 20.114	4241 10.001	4912 5.000	1.2

Order no.
4663 20.040



Product information:

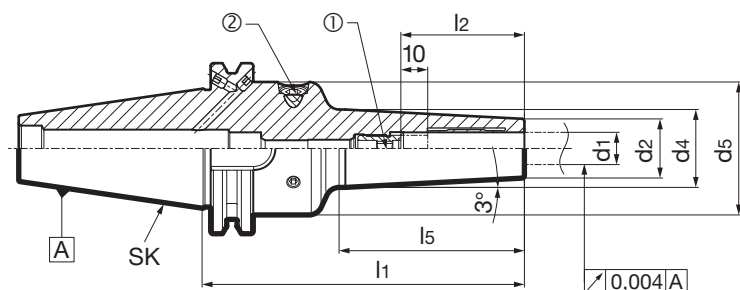
- ISO taper to DIN ISO 7388-1 form AD/AF
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- axial length adjustment
- concentricity < 3 µm
l1 from 120 mm: max. 4 µm
l1 from 160 mm: = 5 µm

Scope of delivery:

- incl. adjusting screw (1) art. no. 4941
- incl. clamping screw (2) art. no. 4241

Suitable accessories separately available:

- ISO pull studs art. no. 4925, 4926
- replacement adjusting screw (1), art. no. 4941
- replacement clamping screw (2) art. no. 4241
- hexagonal key (2), art. no. 4912



Article no.

4597

SK	d1 mm	d2 mm	d4 mm	d5 mm	l1 mm	l2 mm	l5 mm	①	②	②	kg	Order no.
SK 40	6	16	23.0	49.5	120	37	68.0	4941 6.041	4241 10.002	4912 5.000	1.3	4597 6.140
SK 40	8	18	25.0	49.5	120	37	68.0	4941 8.040	4241 10.002	4912 5.000	1.3	4597 8.140
SK 40	10	20	27.0	49.5	120	41	68.5	4941 10.050	4241 10.002	4912 5.000	1.3	4597 10.140
SK 40	12	22	29.0	49.5	120	46	69.0	4941 12.100	4241 10.002	4912 5.000	1.4	4597 12.140
SK 40	14	24	31.0	49.5	120	46	69.0	4941 14.100	4241 10.002	4912 5.000	1.4	4597 14.140
SK 40	16	26	33.0	49.5	120	49	69.5	4941 16.100	4241 10.002	4912 5.000	1.4	4597 16.140
SK 40	18	28	35.0	49.5	120	49	70.0	4941 18.100	4241 10.002	4912 5.000	1.4	4597 18.140
SK 40	20	30	37.0	49.5	120	51	70.0	4941 20.100	4241 10.002	4912 5.000	1.5	4597 20.140
SK 40	6	16	27.3	49.5	160	37	109.0	4941 6.041	4241 10.002	4912 5.000	1.4	4597 6.240
SK 40	8	18	29.3	49.5	160	37	109.0	4941 8.040	4241 10.002	4912 5.000	1.5	4597 8.240
SK 40	10	20	31.4	49.5	160	41	110.0	4941 10.050	4241 10.002	4912 5.000	1.5	4597 10.240
SK 40	12	22	33.5	49.5	160	46	111.0	4941 12.100	4241 10.002	4912 5.000	1.6	4597 12.240
SK 40	14	24	35.6	49.5	160	46	112.0	4941 14.100	4241 10.002	4912 5.000	1.7	4597 14.240
SK 40	16	26	37.6	49.5	160	49	112.0	4941 16.100	4241 10.002	4912 5.000	1.7	4597 16.240
SK 40	18	28	39.8	49.5	160	49	114.0	4941 18.100	4241 10.002	4912 5.000	1.8	4597 18.240
SK 40	20	30	41.8	49.5	160	51	114.0	4941 20.100	4241 10.002	4912 5.000	1.8	4597 20.240



ISO taper hydraulic chucks HMC 3000

Article no. 4619



GÜHROJET

Product information:

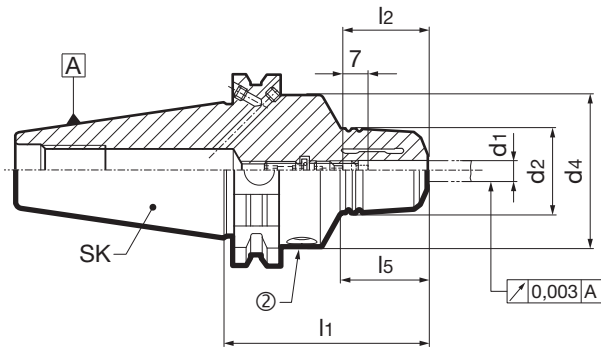
- ISO taper to DIN ISO 7388-1 form AD/AF
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- perfect concentricity: < 3 µm bei 10xd1
- high clamping force
- quick, easy handling and precise length adjustment only possible from the front
- IC and Gührojet peripheral cooling ensure optimal chip removal and tool lubrication
- for tool shanks d1 h6
- for small clamping diameters

Scope of delivery:

- incl. adjusting screw

Suitable accessories separately available:

- ISO pull studs art. no. 4925, 4926
- replacement clamping screw (2) art. no. 4241
- hexagonal key (2), art. no. 4912



Article no.

4619

SK	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	l5 mm	②	②	kg
SK 40	3	28.0	49.5	84	34	34.0	4241 10.002	4912 5.000	0.5
SK 40	4	28.0	49.5	84	34	34.0	4241 10.002	4912 5.000	0.5
SK 40	5	28.0	49.5	84	34	34.0	4241 10.002	4912 5.000	0.5

Order no.

4619 3.040

4619 4.040

4619 5.040



Product information:

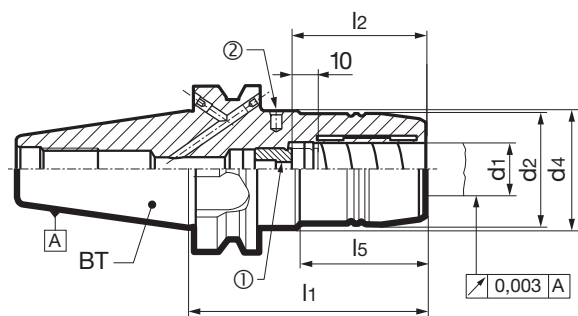
- MAS/BT to DIN ISO 7388-2 Form JD/JF
- BT30 in JD design without coolant supply via the collar
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- axial length adjustment

Scope of delivery:

- incl. adjusting screw (1) art. no. 4900
- incl. clamping screw (2) art. no. 4241

Suitable accessories separately available:

- BT pull studs art. nr. 4927, 4928
- replacement adjusting screw (1), art. no. 4900
- replacement clamping screw (2) art. no. 4241
- hexagonal key (2), art. no. 4912



Article no.

4221

BT	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	l5 mm	①	②	②	kg	Order no.
BT 30	6	26.0	26.0	51.0	37.0		4900 6.014	4241 8.000	4912 4.000	0.4	4221 6.030
BT 30	8	28.0	28.0	51.0	37.0		4900 8.014	4241 8.000	4912 4.000	0.4	4221 8.030
BT 30	10	30.0	30.0	51.0	41.0		4900 10.014	4241 8.000	4912 4.000	0.4	4221 10.030
BT 30	12	32.0	32.0	51.0	46.0	19.5	4900 12.014	4241 8.000	4912 4.000	0.5	4221 12.030
BT 30	16	38.0	38.0	90.0	49.0	50.0	4900 16.014	4241 8.000	4912 4.000	0.8	4221 16.030
BT 30	20	42.0	42.0	90.0	51.0	50.0	4900 8.014	4241 10.001	4912 5.000	0.9	4221 20.030
BT 40	6	26.0	44.5	90.0	37.0	43.0	4900 6.014	4241 10.002	4912 5.000	1.2	4221 6.040
BT 40	8	28.0	44.5	90.0	37.0	44.5	4900 8.014	4241 10.002	4912 5.000	1.3	4221 8.040
BT 40	10	30.0	44.5	90.0	41.0	44.5	4900 10.014	4241 10.001	4912 5.000	1.3	4221 10.040
BT 40	12	32.0	44.5	90.0	46.0	44.5	4900 12.014	4241 10.001	4912 5.000	1.3	4221 12.040
BT 40	14	34.0	44.5	90.0	46.0	44.5	4900 12.014	4241 10.002	4912 5.000	1.3	4221 14.040
BT 40	16	38.0	44.5	90.0	49.0	47.5	4900 16.014	4241 10.002	4912 5.000	1.3	4221 16.040
BT 40	18	40.0	44.5	90.0	49.0	47.5	4900 16.014	4241 10.002	4912 5.000	1.4	4221 18.040
BT 40	20	49.5	49.5	72.5	51.0		4900 20.114	4241 10.001	4912 5.000	1.4	4221 20.040
BT 40	20	42.0	44.5	90.0	51.0	47.5	4900 20.114	4241 10.001	4912 5.000	1.4	4221 20.140
BT 40	25	49.5	49.5	83.0	57.0		4900 20.114	4241 12.000	4912 6.000	1.4	4221 25.040
BT 40	32	63.0	80.0	83.0	61.0	25.5	4900 20.114	4241 12.000	4912 6.000	1.9	4221 32.040
BT 50	12	32.0	44.5	90.0	46.0	34.0	4900 12.014	4241 10.002	4912 5.000	3.9	4221 12.050
BT 50	20	42.0	44.5	90.0	51.0	34.0	4900 20.114	4241 10.001	4912 5.000	3.9	4221 20.050
BT 50	32	72.0	72.0	90.0	61.0		4900 20.114	4241 12.000	4912 6.000	4.6	4221 32.050



MAS/BT hydraulic chucks

Article no. 4664



Product information:

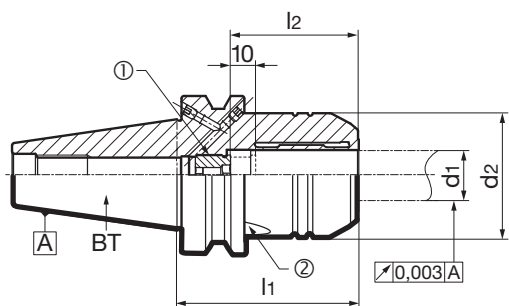
- MAS/BT to DIN ISO 7388-2 Form JD/JF
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- axial length adjustment

Scope of delivery:

- incl. adjusting screw (1) art. no. 4900
- incl. clamping screw (2) art. no. 4241

Suitable accessories separately available:

- BT pull studs art. nr. 4927, 4928
- replacement adjusting screw (1), art. no. 4900
- replacement clamping screw (2) art. no. 4241
- hexagonal key (2), art. no. 4912
- reduction bush art. no. 4665



Article no.

4664

BT	d1 mm	d2 mm	l1 mm	l2 mm	①	②	②	kg
BT 40	20	49.3	72.5	51.0	4900 20.114	4241 10.001	4912 5.000	1.2

Order no.

4664 20.040



Product information:

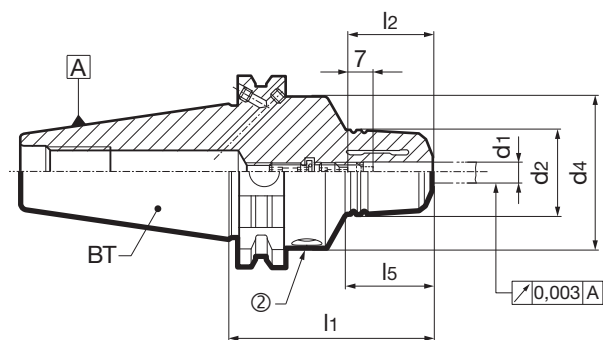
- MAS/BT according to DIN ISO 7388-2 form JD/JF (AD/B)
- BT30 in JD design without coolant supply via the collar
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- perfect concentricity: < 3 µm bei 10xd1
- high clamping force
- quick, easy handling and precise length adjustment only possible from the front
- IC and Gührojet peripheral cooling ensure optimal chip removal and tool lubrication
- for tool shanks d1 h6
- for small clamping diameters

Scope of delivery:

- incl. adjusting screw

Suitable accessories separately available:

- BT pull studs art. nr. 4927, 4928
- replacement clamping screw (2) art. no. 4241
- hexagonal key (2), art. no. 4912



Article no. **4620**

BT	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	l5 mm	②	②	kg	Order no.
BT 30	3	28.0	28.0	55	34		4241 8.000	4912 4.000	0.6	4620 3.030
BT 30	4	28.0	28.0	55	34		4241 8.000	4912 4.000	0.6	4620 4.030
BT 30	5	28.0	28.0	55	34		4241 8.000	4912 4.000	0.4	4620 5.030
BT 40	3	28.0	44.5	94	34	48.5	4241 10.002	4912 5.000	0.6	4620 3.040
BT 40	4	28.0	44.5	94	34	48.5	4241 10.002	4912 5.000	0.6	4620 4.040
BT 40	5	28.0	44.5	94	34	48.5	4241 10.002	4912 5.000	0.6	4620 5.040



MAS/BT DC hydraulic chucks with axial plane

Article no. **4598**



Product information:

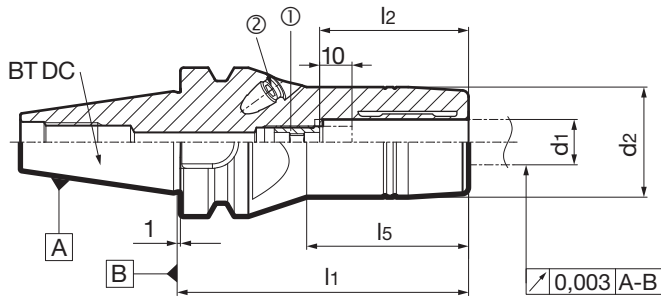
- MAS/BT DC with axial plane, sim. ISO 7388-2, form JD
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- axial length adjustment

Scope of delivery:

- incl. adjusting screw (1) art. no. 4900
- incl. clamping screw (2) art. no. 4241

Suitable accessories separately available:

- BT pull studs art. nr. 4927, 4928
- replacement adjusting screw (1), art. no. 4900
- replacement clamping screw (2) art. no. 4241
- hexagonal key (2), art. no. 4912



Article no. **4598**

BT DC	d1 mm	d2 mm	l1 mm	l2 mm	l5 mm	①	②	②	kg	Order no.
BT 30	6	26.0	51	37	29.0	4900 6.014	4241 8.000	4912 4.000	0.4	4598 6.030
BT 30	8	28.0	51	37	29.0	4900 8.014	4241 8.000	4912 4.000	0.4	4598 8.030
BT 30	10	30.0	51	41	29.0	4900 10.014	4241 8.000	4912 4.000	0.5	4598 10.030
BT 30	12	32.0	51	46	19.5	4900 12.014	4241 8.000	4912 4.000	0.5	4598 12.030
BT 30	14	34.0	90	46	50.0	4900 12.014	4241 8.000	4912 4.000	0.8	4598 14.030
BT 30	16	38.0	90	49	50.0	4900 16.014	4241 8.000	4912 4.000	0.8	4598 16.030
BT 30	18	40.0	90	49	50.0	4900 16.014	4241 10.002	4912 5.000	0.9	4598 18.030
BT 30	20	42.0	90	51	50.0	4900 20.114	4241 10.002	4912 5.000	0.9	4598 20.030

Hydraulic chuck set

Article no. **4666**

Product information:

- Case set 1, order no. 4666 20.063: Hydraulic chuck HSK-A 63, art. no. 4662
- Case set 2, order no. 4666 20.040: Hydraulic chuck SK 40, art. no. 4663
- Case set 3, order no. 4666 20.140: Hydraulic chuck MAS/BT 40, art. no. 4664
- further information can be found under the respective art. no.

Scope of delivery:

- 1 hydraulic chuck, 5 reduction bushes (Ø 6/8/10/12/16 mm), art. no. 4665, 1 clamping wrench, art. no. 4912, 1 adjusting screw, art. no. 4900

Suitable accessories separately available:

- coolant supply set art. no. 4949
- ISO pull studs art. no. 4925, 4926
- BT pull studs art. nr. 4927, 4928
- replacement adjusting screw (1), art. no. 4900
- hexagonal key art. no. 4912



Article no. **4666**

HSK/SK/BT	for shank Ø mm	Order no.
HSK-A 63	20.00	4666 20.063
SK 40	20.00	4666 20.040
BT 40	20.00	4666 20.140

Hydraulic chucks



Reduction bushes, sealed, for hydraulic chucks

Article no. **4368**

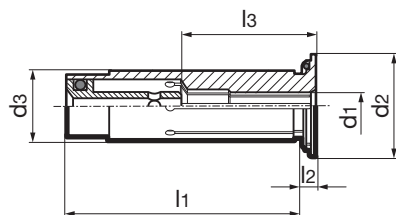


Product information:

- for clamping smaller shank \varnothing in hydraulic chucks
- clamping- \varnothing for tool shank tolerance h6
- end face closed, therefore coolant-proof up to 80 bar
- concentricity $\leq 2 \mu\text{m}$
- with adjustable limit stop
- when applying reduction bushings, the permissible transferable torque can be increased by approx. 25% in contrast to direct clamping

Scope of delivery:

- incl. stop element



Article no.

4368

d3 mm	d1 mm	d2 mm	l1 mm	l2 mm	l3 mm	Order no.
12	3	16.5	45.0	2	25.5	4368 3.012
12	4	16.5	45.0	2	25.5	4368 4.012
12	5	16.5	45.0	2	25.5	4368 5.012
12	6	16.5	45.0	2	33.5	4368 6.012
12	8	16.5	45.0	2	33.5	4368 8.012
20	3	24.1	50.5	2	28.5	4368 3.020
20	4	24.1	50.5	2	28.5	4368 4.020
20	5	24.1	50.5	2	28.5	4368 5.020
20	6	24.1	50.5	2	37.5	4368 6.020
20	7	24.1	50.5	2	37.5	4368 7.020
20	8	24.1	50.5	2	37.5	4368 8.020
20	9	24.1	50.5	2	42.5	4368 9.020
20	10	24.1	50.5	2	42.5	4368 10.020
20	11	24.1	50.5	2	42.5	4368 11.020
20	12	24.1	50.5	2	47.5	4368 12.020
20	13	24.1	50.5	2	47.5	4368 13.020
20	14	24.1	50.5	2	47.5	4368 14.020
20	15	24.1	50.5	2	47.5	4368 15.020
20	16	24.1	50.5	2	47.5	4368 16.020
32	6	35.5	60.5	3	34.5	4368 6.032
32	8	35.5	60.5	3	34.5	4368 8.032
32	10	35.5	60.5	3	39.5	4368 10.032
32	12	35.5	60.5	3	41.5	4368 12.032
32	14	35.5	60.5	3	41.5	4368 14.032
32	16	35.5	60.5	3	49.5	4368 16.032
32	18	35.5	60.5	3	49.5	4368 18.032
32	20	35.5	60.5	3	49.5	4368 20.032
32	25	35.5	60.5	3	57.5	4368 25.032

Hydraulic chucks



Reduction bushes GÜHROJET for hydraulic chucks

Article no. 4369

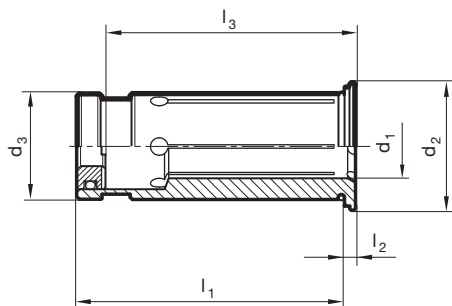


Product information:

- for clamping smaller shank Ø in hydraulic chucks
- clamping-Ø for tool shank tolerance h6
- with coolant slots for peripheral cooling, therefore process and tool life improvement
- concentricity $\leq 2 \mu\text{m}$
- when applying reduction bushings, the permissible transferable torque can be increased by approx. 25% in contrast to direct clamping
- with adjustable limit stop

Scope of delivery:

- incl. stop element



Article no.

4369

d3 mm	d1 mm	d2 mm	l1 mm	l2 mm	l3 mm	Order no.
12	3	16.5	45.0	2	25.5	4369 3.012
12	4	16.5	45.0	2	26.5	4369 4.012
12	5	16.5	45.0	2	26.5	4369 5.012
12	6	16.5	45.0	2	34.5	4369 6.012
12	8	16.5	45.0	2	34.5	4369 8.012
20	3	24.1	50.5	2	28.5	4369 3.020
20	4	24.1	50.5	2	28.5	4369 4.020
20	5	24.1	50.5	2	28.5	4369 5.020
20	6	24.1	50.5	2	37.5	4369 6.020
20	7	24.1	50.5	2	37.5	4369 7.020
20	8	24.1	50.5	2	37.5	4369 8.020
20	9	24.1	50.5	2	42.5	4369 9.020
20	10	24.1	50.5	2	42.5	4369 10.020
20	11	24.1	50.5	2	42.5	4369 11.020
20	12	24.1	50.5	2	47.5	4369 12.020
20	13	24.1	50.5	2	47.5	4369 13.020
20	14	24.1	50.5	2	47.5	4369 14.020
20	15	24.1	50.5	2	47.5	4369 15.020
20	16	24.1	50.5	2	47.5	4369 16.020
32	6	35.5	60.5	3	35.5	4369 6.032
32	8	35.5	60.5	3	35.5	4369 8.032
32	10	35.5	60.5	3	40.5	4369 10.032
32	12	35.5	60.5	3	42.5	4369 12.032
32	14	35.5	60.5	3	42.5	4369 14.032
32	16	35.5	60.5	3	49.5	4369 16.032
32	18	35.5	60.5	3	49.5	4369 18.032
32	20	35.5	60.5	3	49.5	4369 20.032
32	25	35.5	60.5	3	57.5	4369 25.032

Hydraulic chucks



Reduction bushes, sealed, for hydraulic chucks

Article no. **4665**

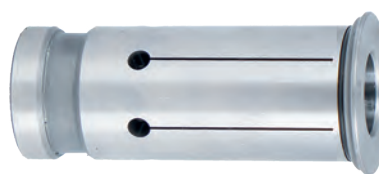
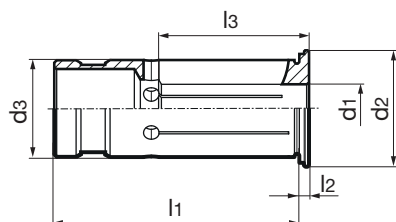


Product information:

- for clamping smaller shank Ø in hydraulic chucks
- clamping-Ø for tool shank tolerance h6
- concentricity $\leq 5 \mu\text{m}$
- for a coolant pressure up to 80 bar

Scope of delivery:

- incl. stop element



Article no.

4665

d3 mm	d1 mm	d2 mm	l1 mm	l2 mm	l3 mm	Order no.
20	6	24.0	50.5	2	27.0	4665 6.020
20	8	24.0	50.5	2	27.0	4665 8.020
20	10	24.0	50.5	2	31.0	4665 10.020
20	12	24.0	50.5	2	32.5	4665 12.020
20	16	24.0	50.5	2	35.0	4665 16.020

Extraction keys for reduction bushes

Article no. **4099**

Product information:

- for reduction bushes art. no. 4368 and 4369
- for the simple disassembly of reduction bushes

Hydraulic chucks



Article no.

4099

Size	Order no.
12-32	4099 1.000



Clamping force measuring instrument Senso 3000

Article no. **4038**

Product information:

- accurate, quick and simple measuring of the clamping force of hydraulic chucks
- mobility allows measuring within machines and fixtures
- determines clamping force via a pressure sensitive plug gauge
- indication as clamping force in percentage relative to the reference value

Scope of delivery:

- clamping force tester in sturdy case and instruction manual, incl. test mandrel, test report and battery type CR 2430

Suitable accessories separately available:

- clamping force tester Senso 3000
- master recording on request



Article no. **4038**

Clamping diameter mm	Order no.
6	4038 6.000
8	4038 8.000
10	4038 10.000
12	4038 12.000
14	4038 14.000
16	4038 16.000
18	4038 18.000
20	4038 20.000
25	4038 25.000
32	4038 32.000



HSK-C universal length pre-setting adaptors

Article no. **4316**

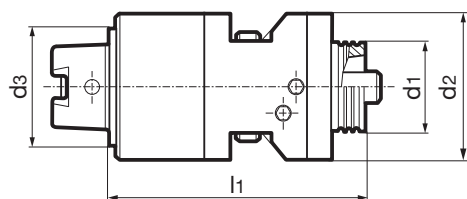


Product information:

- HSK-C according to ISO 12164-1/DIN 69893-1
- for the application on pre-setting equipment for precise length pre-setting of axially adjustable chucks
- thanks to precise clamping also suitable for measuring and setting the diameter
- for HSK-A/C/E 50/63

Suitable accessories separately available:

- plug inserts art. no. 4993



Article no. **4316**

d3	d1	d2 mm	l1 mm	Order no.
HSK-C 63	HSK-A/C/E 50	63	104.5	4316 63.050
HSK-C 63	HSK-A/C/E 63	63	111.6	4316 63.063

ISO taper universal length pre-setting adaptors

Article no. **4319**

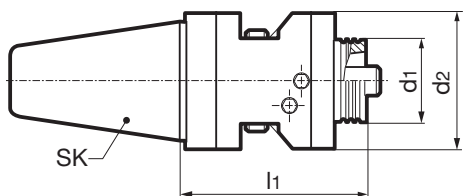


Product information:

- ISO taper to DIN ISO 7388-1
- for the application on pre-setting equipment for precise length pre-setting of axially adjustable chucks
- thanks to precise clamping also suitable for measuring and setting the diameter

Suitable accessories separately available:

- plug inserts art. no. 4993



Article no. **4319**

SK	d1	d2 mm	l1 mm	Order no.
SK 40	HSK-A/C/E 50	82	99.3	4319 40.050
SK 40	HSK-A/C/E 63	82	106.3	4319 40.063
SK 50	HSK-A/C/E 32	82	90.5	4319 50.032
SK 50	HSK-A/C/E 40	82	93.8	4319 50.040
SK 50	HSK-A/C/E 50	82	99.3	4319 50.050
SK 50	HSK-A/C/E 63	82	106.3	4319 50.063
SK 50	HSK-A/C/E 100	122	128.3	4319 50.100

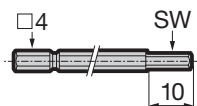


Plug inserts

Article no. **4993**

Product information:

- for length pre-setting adaptors, art. no. 4316, 4319 and 4315



Article no.

4993

for	SW	Order no.
HSK-C	2.5/3/4/5/6	4993 100.000
HSK-A/E	2.5/3/4/5/6	4993 200.000
HSK-A(MMS)	3/4/5	4993 300.000



Clamping screws for hydraulic chucks and synchro tapping chucks

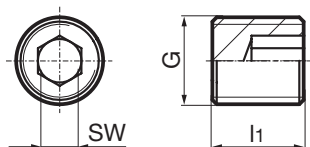
Article no. **4241**

Product information:

- replacement clamping screw for actuation of hydraulic chuck and hydro-synchronous chuck
- set screw spec. for hydraulic chucks to suit hex.key size
- tightening torque max. 10 Nm

Suitable accessories separately available:

- hexagonal key art. no. 4912



Article no. **4241**

G	l1 mm	SW mm	Order no.
M 8	10.0	4.0	4241 8.000
M 8	8.5	4.0	4241 8.001
M10	10.5	5.0	4241 10.001
M10	12.0	5.0	4241 10.002
M10	9.0	5.0	4241 10.003
M12	12.0	6.0	4241 12.000

Adjusting screws

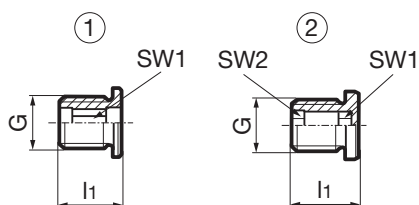
Article no. **4900**

Product information:

- for hydraulic chucks
- for conventional internal cooling
- with plane stop for standard shank ends
- for HSK 32/40 with clamping-Ø 10.0 and 12.0 mm use code no. 8.014

Suitable accessories separately available:

- hexagonal key art. no. 4912



Article no. **4900**

for holder Ø	l1 mm	G	SW1 mm	SW2 mm	Order no.
6	14	M 5	2.5		4900 6.014
8	14	M 6	3.0		4900 8.014
10	14	M8 x 1	4.0		4900 10.014
12/14	14	M10X1	5.0		4900 12.014
16/18	14	M12X1	6.0		4900 16.014
20/25/32	14	M16X1	6.0		4900 20.014
20/25/32	14	M16X1	8.0	6.0	4900 20.114



MQL length pre-adjusting screws for conversion

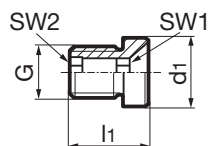
Article no. **4919**

Product information:

- for hydraulic chucks and shrink fit chucks
- with special geometry optimised for MQL
- with tapered stop for MQL conical shank ends

Suitable accessories separately available:

- hexagonal key art. no. 4912



Article no. **4919**

d1 mm	l1 mm	G	SW1 mm	SW2 mm	Order no.
6	14.8	M 6	2.5	2.5	4919 6.000
8	15.6	M 6	3.0	3.0	4919 8.000
10	16.1	M 8X1	4.0	4.0	4919 10.000
10	16.6	M 6	3.0	3.0	4919 10.032
10	16.6	M 8X1	3.0	3.0	4919 10.040
12	16.6	M10X1	5.0	5.0	4919 12.000
12	17.6	M 6	3.0	3.0	4919 12.032
14	17.6	M10X1	5.0	5.0	4919 14.000
14	18.6	M 6	3.0	3.0	4919 14.040
16	18.6	M12X1	5.0	5.0	4919 16.000
16	19.6	M 6	3.0	3.0	4919 16.040
18	19.6	M12X1	5.0	5.0	4919 18.000
20	20.6	M16X1	5.0	5.0	4919 20.000
25	22.6	M16X1	8.0	6.0	4919 25.000
32	26.1	M16X1	8.0	6.0	4919 32.000



Product information:

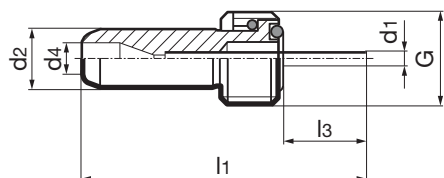
- for hydraulic chucks according to DIN 69882-7
- for shrink fit chucks according to DIN 69882-8
- replaces conventional coolant supply sets, art. no. 4949, when applying MQL
- Please note: Not suitable for use in machines with delivery neck in accordance with DIN 69090-2, observe hole diameter d4

Scope of delivery:

- complete MQL coolant supply set consisting of: coolant pipe, cap nut, MQL tube and O-rings

Suitable accessories separately available:

- socket wrench art. no. 4911



Article no. **4924**

for	d1 mm	d2 mm	d4 mm	l1 mm	l3 mm	G	Order no.
HSK-A 32	2.5	6	3.5	54.2	28.0	M10X1	4924 32.010
HSK-A 32	2.5	6	3.5	45.1	18.9	M10X1	4924 32.020
HSK-A 32	3.0	6	3.5	54.3	28.1	M10X1	4924 32.030
HSK-A 32	3.0	6	3.5	55.8	29.6	M10X1	4924 32.050
HSK-A 32	3.0	6	3.5	45.7	19.5	M10X1	4924 32.060
HSK-A 32	3.0	6	3.5	56.6	30.4	M10X1	4924 32.070
HSK-A 32	3.0	6	3.5	45.2	19.0	M10X1	4924 32.080
HSK-A 40	2.5	8	4.0	45.1	16.0	M12X1	4924 40.010
HSK-A 40	2.5	8	4.0	56.0	26.9	M12X1	4924 40.020
HSK-A 40	3.0	8	4.0	56.2	15.8	M12X1	4924 40.030
HSK-A 40	3.0	8	4.0	56.2	27.0	M12X1	4924 40.040
HSK-A 40	3.0	8	4.0	46.3	17.1	M12X1	4924 40.050
HSK-A 40	3.0	8	4.0	51.7	22.5	M12X1	4924 40.060
HSK-A 40	3.0	8	4.0	46.7	17.5	M12X1	4924 40.070
HSK-A 40	3.0	8	4.0	57.2	28.0	M12X1	4924 40.100
HSK-A 40	3.0	8	4.0	54.2	25.0	M12X1	4924 40.120
HSK-A 50	2.5	10	4.0	44.6	11.9	M16X1	4924 50.010
HSK-A 50	2.5	10	4.0	55.4	22.7	M16X1	4924 50.020
HSK-A 50	3.0	10	4.0	46.1	13.4	M16X1	4924 50.030
HSK-A 50	3.0	10	4.0	46.5	13.8	M16X1	4924 50.040
HSK-A 50	4.0	10	4.0	45.7	13.0	M16X1	4924 50.050
HSK-A 50	4.0	10	4.0	46.1	13.4	M16X1	4924 50.060
HSK-A 50	5.0	10	4.0	46.1	13.4	M16X1	4924 50.070
HSK-A 50	5.0	10	4.0	55.7	23.0	M16X1	4924 50.080
HSK-A 50	5.0	10	4.0	51.5	18.8	M16X1	4924 50.090
HSK-A 50	5.0	10	4.0	55.7	22.9	M16X1	4924 50.100
HSK-A 50	5.0	10	4.0	52.8	20.1	M16X1	4924 50.110
HSK-A 50	5.0	10	4.0	53.2	20.5	M16X1	4924 50.130
HSK-A 50	5.0	10	4.0	57.7	25.0	M16X1	4924 50.140
HSK-A 50	5.0	10	4.0	51.5	18.8	M16X1	4924 50.150
HSK-A 50	5.0	10	4.0	60.7	28.0	M16X1	4924 50.160
HSK-A 63	2.5	12	4.0	45.7	9.5	M18X1	4924 63.010
HSK-A 63	2.5	12	4.0	126.9	90.6	M18X1	4924 63.011
HSK-A 63	2.5	12	4.0	176.9	140.6	M18X1	4924 63.012
HSK-A 63	2.5	12	4.0	56.7	20.5	M18X1	4924 63.020
HSK-A 63	2.5	12	4.0	137.7	101.4	M18X1	4924 63.021
HSK-A 63	3.0	12	4.0	46.0	9.8	M18X1	4924 63.030
HSK-A 63	3.0	12	4.0	126.1	89.9	M18X1	4924 63.031
HSK-A 63	3.0	12	4.0	176.2	139.9	M18X1	4924 63.032
HSK-A 63	3.0	12	4.0	57.0	20.8	M18X1	4924 63.040
HSK-A 63	3.0	12	4.0	137.0	100.7	M18X1	4924 63.041
HSK-A 63	4.0	12	4.0	51.7	15.5	M18X1	4924 63.050
HSK-A 63	4.0	12	4.0	122.2	86.0	M18X1	4924 63.051
HSK-A 63	4.0	12	4.0	172.2	135.9	M18X1	4924 63.052
HSK-A 63	4.0	12	4.0	55.7	19.5	M18X1	4924 63.060
HSK-A 63	4.0	12	4.0	132.2	95.9	M18X1	4924 63.061
HSK-A 63	5.0	12	4.0	52.1	15.9	M18X1	4924 63.070
HSK-A 63	5.0	12	4.0	55.7	19.5	M18X1	4924 63.080
HSK-A 63	5.0	12	4.0	127.1	90.8	M18X1	4924 63.081
HSK-A 63	5.0	12	4.0	53.8	17.6	M18X1	4924 63.090
HSK-A 63	5.0	12	4.0	117.6	81.4	M18X1	4924 63.091
HSK-A 63	5.0	12	4.0	167.6	131.3	M18X1	4924 63.092
HSK-A 63	5.0	12	4.0	57.5	21.3	M18X1	4924 63.100
HSK-A 63	5.0	12	4.0	60.7	24.5	M18X1	4924 63.110

Hydraulic chucks



Article no.							4924
for	d1 mm	d2 mm	d4 mm	l1 mm	l3 mm	G	Order no.
HSK-A 63	5.0	12	4.0	114.3	78.0	M18X1	4924 63.111
HSK-A 63	6.0	12	4.0	77.0	40.8	M18X1	4924 63.120
HSK-A 63	6.0	12	4.0	69.0	32.8	M18X1	4924 63.130
HSK-A 63	5.0	12	4.0	114.6	78.3	M18X1	4924 63.131
HSK-A 63	5.0	12	4.0	164.6	128.3	M18X1	4924 63.132
HSK-A 63	6.0	12	4.0	70.7	34.5	M18X1	4924 63.140
HSK-A 63	5.0	12	4.0	124.3	88.0	M18X1	4924 63.141
HSK-A 63	5.0	12	4.0	112.9	76.6	M18X1	4924 63.151
HSK-A 63	5.0	12	4.0	162.9	126.6	M18X1	4924 63.152
HSK-A 63	5.0	12	4.0	122.1	85.8	M18X1	4924 63.161
HSK-A 63	6.0	12	4.0	116.2	79.9	M18X1	4924 63.181
HSK-A 63	6.0	12	4.0	112.2	75.9	M18X1	4924 63.201
HSK-A 80	2.5	14	4.0	44.8	5.5	M20X1.5	4924 80.010
HSK-A 80	2.5	14	4.0	61.2	21.9	M20X1.5	4924 80.020
HSK-A 80	3.0	14	4.0	44.9	5.6	M20X1.5	4924 80.030
HSK-A 80	3.0	14	4.0	61.3	22.0	M20X1.5	4924 80.040
HSK-A 80	4.0	14	4.0	50.9	11.6	M20X1.5	4924 80.050
HSK-A 80	4.0	14	4.0	61.3	22.0	M20X1.5	4924 80.060
HSK-A 80	5.0	14	4.0	51.3	12.0	M20X1.5	4924 80.070
HSK-A 80	5.0	14	4.0	51.6	12.3	M20X1.5	4924 80.090
HSK-A 80	5.0	14	4.0	61.3	22.0	M20X1.5	4924 80.100
HSK-A 80	5.0	14	4.0	57.9	18.6	M20X1.5	4924 80.110
HSK-A 80	5.0	14	4.0	58.3	19.0	M20X1.5	4924 80.130
HSK-A 80	5.0	14	4.0	63.3	24.0	M20X1.5	4924 80.140
HSK-A 80	5.0	14	4.0	56.6	17.3	M20X1.5	4924 80.150
HSK-A 80	5.0	14	4.0	66.3	78.0	M20X1.5	4924 80.160
HSK-A 80	6.0	14	4.0	53.1	13.8	M20X1.5	4924 80.170
HSK-A 80	6.0	14	4.0	70.3	78.0	M20X1.5	4924 80.180
HSK-A 80	6.0	14	4.0	77.2	37.9	M20X1.5	4924 80.190
HSK-A 80	6.0	14	4.0	71.3	78.0	M20X1.5	4924 80.200
HSK-A 100	2.5	16	4.0	53.0	9.2	M24X1.5	4924 100.010
HSK-A 100	2.5	16	4.0	63.9	78.0	M24X1.5	4924 100.020
HSK-A 100	3.0	16	4.0	53.7	9.9	M24X1.5	4924 100.030
HSK-A 100	3.0	16	4.0	64.6	78.0	M24X1.5	4924 100.040
HSK-A 100	4.0	16	4.0	63.3	19.5	M24X1.5	4924 100.050
HSK-A 100	4.0	16	4.0	63.3	78.0	M24X1.5	4924 100.060
HSK-A 100	5.0	16	4.0	63.8	20.0	M24X1.5	4924 100.070
HSK-A 100	5.0	16	4.0	64.2	20.4	M24X1.5	4924 100.090
HSK-A 100	5.0	16	4.0	63.3	78.0	M24X1.5	4924 100.100
HSK-A 100	5.0	16	4.0	65.4	21.6	M24X1.5	4924 100.110
HSK-A 100	5.0	16	4.0	65.8	22.0	M24X1.5	4924 100.130
HSK-A 100	5.0	16	4.0	65.3	78.0	M24X1.5	4924 100.140
HSK-A 100	5.0	16	4.0	69.2	25.4	M24X1.5	4924 100.150
HSK-A 100	5.0	16	4.0	68.3	78.0	M24X1.5	4924 100.160
HSK-A 100	6.0	16	4.0	68.6	24.8	M24X1.5	4924 100.170
HSK-A 100	6.0	16	4.0	72.3	78.0	M24X1.5	4924 100.180
HSK-A 100	6.0	16	4.0	64.6	20.8	M24X1.5	4924 100.190
HSK-A 100	6.0	16	4.0	73.3	78.0	M24X1.5	4924 100.200



Product information:

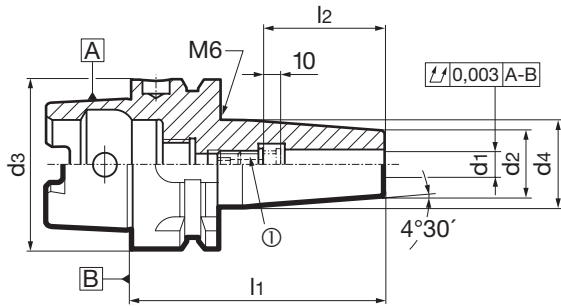
- HSK-A according to ISO 12164-1 / DIN 69893-1
- dimensions according to DIN 69882-8
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- concentricity < 3 µm
- l1 from 120 mm < 4 µm
- with axial damping screw for optimal concentricity
- design for 6xM6 balancing screws for maximum accuracy and running smoothness
- coating for protection against oxidation cleanliness and longevity
- safety colour ring for maximum operator safety

Scope of delivery:

- incl. adjusting screw with axial force damping (1), art. no. 4941 for conventional cooling

Suitable accessories separately available:

- coolant supply set art. no. 4949
- replacement adjusting screw with axial force damping (1), art. no. 4941
- MQL version available on request



Article no.

4726

d3	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	①	kg	Order no.
HSK-A 63	6	21	27.0	80	36	4941 6.100	1.0	4726 6.063
HSK-A 63	8	21	27.0	80	36	4941 8.100	1.0	4726 8.063
HSK-A 63	10	24	32.0	85	41	4941 10.100	1.0	4726 10.063
HSK-A 63	12	24	32.0	90	46	4941 12.100	0.9	4726 12.063
HSK-A 63	14	27	34.0	90	46	4941 14.100	1.0	4726 14.063
HSK-A 63	16	27	34.0	95	49	4941 16.100	1.0	4726 16.063
HSK-A 63	18	33	42.0	95	49	4941 18.100	1.0	4726 18.063
HSK-A 63	20	33	42.0	100	51	4941 20.100	1.0	4726 20.063
HSK-A 63	25	44	53.0	115	57	4941 25.100	2.0	4726 25.063
HSK-A 63	32	44	53.0	120	61	4941 32.100	2.0	4726 32.063
HSK-A 100	6	21	27.0	85	36	4941 6.100	2.0	4726 6.100
HSK-A 100	8	21	27.0	85	36	4941 8.100	2.0	4726 8.100
HSK-A 100	10	24	32.0	90	41	4941 10.100	2.0	4726 10.100
HSK-A 100	12	24	32.0	95	46	4941 12.100	2.0	4726 12.100
HSK-A 100	14	27	34.0	95	46	4941 14.100	2.0	4726 14.100
HSK-A 100	16	27	34.0	100	49	4941 16.100	2.0	4726 16.100
HSK-A 100	18	33	42.0	100	49	4941 18.100	2.5	4726 18.100
HSK-A 100	20	33	42.0	105	51	4941 20.100	2.5	4726 20.100
HSK-A 100	25	44	53.0	115	57	4941 25.100	3.0	4726 25.100
HSK-A 100	32	44	53.0	120	61	4941 32.100	3.0	4726 32.100



HSK-A shrink fit chucks

Article no. 4736



Product information:

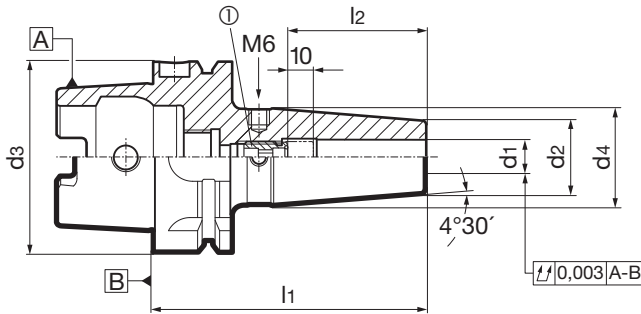
- HSK-A according to ISO 12164-1 / DIN 69893-1
- dimensions according to DIN 69882-8
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- axial length adjustment
- balancing thread 4xM6/6xM6
- concentricity < 3 µm
l1 from 120 mm = 4 µm
l1 from 160 mm = 5 µm
l1 from 200 mm = 7 µm

Scope of delivery:

- incl. adjusting screw (1) art. no. 4977 or 4904

Suitable accessories separately available:

- coolant supply set art. no. 4949
- replacement adjusting screw (1), art. no. 4977 or 4904



Article no.

4736

d3	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	①	kg	Order no.
HSK-A 32	6	21	26.0	70	36	4977 6.014	0.2	4736 6.032
HSK-A 32	8	21	26.0	70	36	4977 8.014	0.2	4736 8.032
HSK-A 32	10	24	30.0	75	41	4977 10.014	0.3	4736 10.032
HSK-A 32	12	24	30.0	80	46	4977 12.014	0.3	4736 12.032
HSK-A 40	6	21	27.0	80	36	4977 6.014	0.4	4736 6.040
HSK-A 40	8	21	27.0	80	36	4977 8.014	0.4	4736 8.040
HSK-A 40	10	24	32.0	80	41	4977 10.014	0.4	4736 10.040
HSK-A 40	12	24	32.0	90	46	4977 12.014	0.5	4736 12.040
HSK-A 40	14	27	34.0	90	46	4977 12.014	0.5	4736 14.040
HSK-A 40	16	27	34.0	90	49	4977 16.014	0.5	4736 16.040
HSK-A 40	18	33	42.0	95	49	4977 16.014	0.7	4736 18.040
HSK-A 40	20	33	42.0	100	51	4977 20.114	0.7	4736 20.040
HSK-A 50	6	21	27.0	80	36	4977 6.014	0.5	4736 6.050
HSK-A 50	8	21	27.0	80	36	4977 8.014	0.5	4736 8.050
HSK-A 50	10	24	32.0	85	41	4977 10.014	0.6	4736 10.050
HSK-A 50	12	24	32.0	90	46	4977 12.014	0.6	4736 12.050
HSK-A 50	14	27	34.0	90	46	4977 12.014	0.7	4736 14.050
HSK-A 50	16	27	34.0	95	49	4977 16.014	0.7	4736 16.050
HSK-A 50	18	33	42.0	95	49	4977 16.014	0.8	4736 18.050
HSK-A 50	20	33	42.0	100	51	4977 20.114	0.9	4736 20.050
HSK-A 63	3	10	18.0	80	30	4904 5.016	0.7	4736 3.063
HSK-A 63	4	10	18.0	80	35	4904 6.016	0.7	4736 4.063
HSK-A 63	5	10	18.0	80	40	4904 8.018	0.7	4736 5.063
HSK-A 63	6	21	27.0	80	36	4977 6.014	0.8	4736 6.063
HSK-A 63	8	21	27.0	80	36	4977 8.014	0.8	4736 8.063
HSK-A 63	10	24	32.0	85	41	4977 10.014	0.9	4736 10.063
HSK-A 63	12	24	32.0	90	46	4977 12.014	0.9	4736 12.063
HSK-A 63	14	27	34.0	90	46	4977 12.014	0.9	4736 14.063
HSK-A 63	16	27	34.0	95	49	4977 16.014	0.9	4736 16.063
HSK-A 63	18	33	42.0	95	49	4977 16.014	1.1	4736 18.063
HSK-A 63	20	33	42.0	100	51	4977 20.114	1.1	4736 20.063
HSK-A 63	25	44	53.0	115	57	4977 20.114	1.7	4736 25.063
HSK-A 63	32	44	53.0	120	61	4977 20.114	1.6	4736 32.063
HSK-A 63	3	10	31.1	160	30	4904 5.016	0.9	4736 103.063
HSK-A 63	4	10	31.1	160	35	4904 6.016	0.9	4736 104.063
HSK-A 63	5	10	31.1	160	40	4904 8.018	0.9	4736 105.063
HSK-A 63	6	21	27.0	160	36	4977 6.014	1.1	4736 106.063
HSK-A 63	8	21	27.0	160	36	4977 8.014	1.1	4736 108.063
HSK-A 63	10	24	32.0	160	41	4977 10.014	1.3	4736 110.063
HSK-A 63	12	24	32.0	160	46	4977 12.014	1.3	4736 112.063
HSK-A 63	14	27	34.0	160	46	4977 12.014	1.4	4736 114.063
HSK-A 63	16	27	34.0	160	49	4977 16.014	1.4	4736 116.063
HSK-A 63	18	33	42.0	160	49	4977 16.014	1.8	4736 118.063
HSK-A 63	20	33	42.0	160	51	4977 20.114	1.7	4736 120.063
HSK-A 63	25	44	53.0	160	57	4977 20.114	2.4	4736 125.063
HSK-A 63	32	44	53.0	160	61	4977 20.114	2.3	4736 132.063
HSK-A 63	3	10	25.0	120	30	4904 5.016	0.8	4736 203.063
HSK-A 63	4	10	25.0	120	35	4904 6.016	0.8	4736 204.063

Shrink fit technology



Article no.

4736

d3	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	①	kg	Order no.
HSK-A 63	5	10	25.0	120	40	4904 8.018	0.8	4736 205.063
HSK-A 63	6	21	27.0	120	36	4977 6.014	0.9	4736 206.063
HSK-A 63	8	21	27.0	120	36	4977 8.014	0.9	4736 208.063
HSK-A 63	10	24	32.0	120	41	4977 10.014	1.1	4736 210.063
HSK-A 63	12	24	32.0	120	46	4977 12.014	1.0	4736 212.063
HSK-A 63	14	27	34.0	120	46	4977 12.014	1.1	4736 214.063
HSK-A 63	16	27	34.0	120	49	4977 16.014	1.1	4736 216.063
HSK-A 63	18	33	42.0	120	49	4977 16.014	1.4	4736 218.063
HSK-A 63	20	33	42.0	120	51	4977 20.114	1.3	4736 220.063
HSK-A 63	6	21	27.0	200	36	4977 6.014	1.3	4736 306.063
HSK-A 63	8	21	27.0	200	36	4977 8.014	1.3	4736 308.063
HSK-A 63	10	24	32.0	200	41	4977 10.014	1.5	4736 310.063
HSK-A 63	12	24	32.0	200	46	4977 12.014	1.5	4736 312.063
HSK-A 63	14	27	34.0	200	46	4977 12.014	1.7	4736 314.063
HSK-A 63	16	27	34.0	200	49	4977 16.014	1.6	4736 316.063
HSK-A 63	18	33	42.0	200	49	4977 16.014	2.2	4736 318.063
HSK-A 63	20	33	42.0	200	51	4977 20.114	2.2	4736 320.063
HSK-A 63	25	44	53.0	200	57	4977 20.114	3.1	4736 325.063
HSK-A 63	32	44	53.0	200	61	4977 20.114	2.9	4736 332.063
HSK-A 80	6	21	27.0	85	36	4977 6.014	1.2	4736 6.080
HSK-A 80	8	21	27.0	85	36	4977 8.014	1.2	4736 8.080
HSK-A 80	10	24	32.0	90	41	4977 10.014	1.3	4736 10.080
HSK-A 80	12	24	32.0	95	46	4977 12.014	1.3	4736 12.080
HSK-A 80	14	27	34.0	95	46	4977 12.014	1.4	4736 14.080
HSK-A 80	16	27	34.0	100	49	4977 16.014	1.4	4736 16.080
HSK-A 80	18	33	42.0	100	49	4977 16.014	1.6	4736 18.080
HSK-A 80	20	33	42.0	105	51	4977 20.114	1.6	4736 20.080
HSK-A 80	25	44	53.0	115	57	4977 20.114	2.2	4736 25.080
HSK-A 80	32	44	53.0	120	61	4977 20.114	2.1	4736 32.080
HSK-A 80	6	21	27.0	160	36	4977 6.014	1.5	4736 106.080
HSK-A 80	8	21	27.0	160	36	4977 8.014	1.5	4736 108.080
HSK-A 80	10	24	32.0	160	41	4977 10.014	1.7	4736 110.080
HSK-A 80	12	24	32.0	160	46	4977 12.014	1.7	4736 112.080
HSK-A 80	14	27	34.0	160	46	4977 12.014	1.8	4736 114.080
HSK-A 80	16	27	34.0	160	49	4977 16.014	1.8	4736 116.080
HSK-A 80	18	33	42.0	160	49	4977 16.014	2.2	4736 118.080
HSK-A 80	20	33	42.0	160	51	4977 20.114	2.2	4736 120.080
HSK-A 80	25	44	53.0	160	57	4977 20.114	2.9	4736 125.080
HSK-A 80	32	44	53.0	160	61	4977 20.114	2.7	4736 132.080
HSK-A 100	6	21	27.0	85	36	4977 6.014	2.1	4736 6.100
HSK-A 100	8	21	27.0	85	36	4977 8.014	2.1	4736 8.100
HSK-A 100	10	24	32.0	90	41	4977 10.014	2.2	4736 10.100
HSK-A 100	12	24	32.0	95	46	4977 12.014	2.2	4736 12.100
HSK-A 100	14	27	34.0	95	46	4977 12.014	2.3	4736 14.100
HSK-A 100	16	27	34.0	100	49	4977 16.014	2.3	4736 16.100
HSK-A 100	18	33	42.0	100	49	4977 16.014	2.5	4736 18.100
HSK-A 100	20	33	42.0	105	51	4977 20.114	2.5	4736 20.100
HSK-A 100	25	44	53.0	115	57	4977 20.114	3.0	4736 25.100
HSK-A 100	32	44	53.0	120	61	4977 20.114	2.9	4736 32.100
HSK-A 100	6	21	27.0	160	36	4977 6.014	2.4	4736 106.100
HSK-A 100	8	21	27.0	160	36	4977 8.014	2.4	4736 108.100
HSK-A 100	10	24	32.0	160	41	4977 10.014	2.6	4736 110.100
HSK-A 100	12	24	32.0	160	46	4977 12.014	2.6	4736 112.100
HSK-A 100	14	27	34.0	160	46	4977 12.014	2.7	4736 114.100
HSK-A 100	16	27	34.0	160	49	4977 16.014	2.7	4736 116.100
HSK-A 100	18	33	42.0	160	49	4977 16.014	3.1	4736 118.100
HSK-A 100	20	33	42.0	160	51	4977 20.114	3.1	4736 120.100
HSK-A 100	25	44	53.0	160	57	4977 20.114	3.8	4736 125.100
HSK-A 100	32	44	53.0	160	61	4977 20.114	3.6	4736 132.100
HSK-A 100	6	21	27.0	200	36	4977 6.014	2.6	4736 306.100
HSK-A 100	8	21	27.0	200	36	4977 8.014	2.6	4736 308.100
HSK-A 100	10	24	32.0	200	41	4977 10.014	2.9	4736 310.100
HSK-A 100	12	24	32.0	200	46	4977 12.014	2.9	4736 312.100
HSK-A 100	14	27	34.0	200	46	4977 12.014	3.0	4736 314.100
HSK-A 100	16	27	34.0	200	49	4977 16.014	3.0	4736 316.100
HSK-A 100	18	33	42.0	200	49	4977 16.014	3.5	4736 318.100
HSK-A 100	20	33	42.0	200	51	4977 20.114	3.5	4736 320.100
HSK-A 100	25	44	53.0	200	57	4977 20.114	4.5	4736 325.100
HSK-A 100	32	44	53.0	200	61	4977 20.114	4.3	4736 332.100

Shrink fit technology


HSK-A shrink fit chucks GÜHROJET with peripheral cooling
Article no. **4755**
GÜHROJET
Product information:

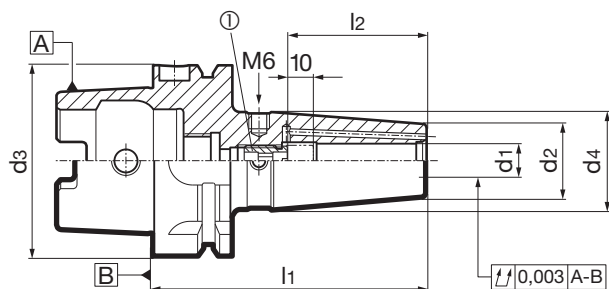
- HSK-A according to ISO 12164-1 / DIN 69893-1
- dimensions according to DIN 69882-8
- balancing quality: G 2.5 / 25,000 rpm
or rev. < 1 gmm
- for tool shanks d1 h6
- axial length adjustment
- concentricity < 3 µm
l1 from 120 mm: = 4 µm
- balancing thread 4xM6/6xM6
- optimised cooling lubrication for tools without internal coolant
- good chip evacuation and increased process reliability
- coolant ducts: d1 = 6 - 10 mm with two coolant ducts, d1 = 12 - 32 mm
with four coolant ducts

Scope of delivery:

- incl. adjusting screw (1) art. no. 4938

Suitable accessories separately available:

- coolant supply set art. no. 4949
- replacement adjusting screw (1), art. no. 4938



Article no.

4755

d3	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	①	kg	Order no.
HSK-A 40	6	21	27.0	80	36	4938 6.000	0.5	4755 6.040
HSK-A 40	8	21	27.0	80	36	4938 8.000	0.5	4755 8.040
HSK-A 40	10	24	32.0	80	41	4938 10.000	0.5	4755 10.040
HSK-A 40	12	24	32.0	90	46	4938 12.000	0.5	4755 12.040
HSK-A 40	14	27	33.5	90	46	4938 12.000	0.5	4755 14.040
HSK-A 40	16	27	33.5	90	49	4938 16.000	0.5	4755 16.040
HSK-A 50	6	21	27.0	80	36	4938 6.000	0.6	4755 6.050
HSK-A 50	8	21	27.0	80	36	4938 8.000	0.6	4755 8.050
HSK-A 50	10	24	32.0	85	41	4938 10.000	0.6	4755 10.050
HSK-A 50	12	24	32.0	90	46	4938 12.000	0.7	4755 12.050
HSK-A 50	14	27	34.0	90	46	4938 12.000	0.7	4755 14.050
HSK-A 50	16	27	34.0	95	49	4938 16.000	0.7	4755 16.050
HSK-A 50	18	33	41.5	95	49	4938 16.000	0.9	4755 18.050
HSK-A 50	20	33	41.5	100	51	4938 20.000	0.9	4755 20.050
HSK-A 63	6	21	27.0	80	36	4938 6.000	0.8	4755 6.063
HSK-A 63	8	21	27.0	80	36	4938 8.000	0.8	4755 8.063
HSK-A 63	10	24	32.0	85	41	4938 10.000	0.9	4755 10.063
HSK-A 63	12	24	32.0	90	46	4938 12.000	0.9	4755 12.063
HSK-A 63	14	27	34.0	90	46	4938 12.000	1.0	4755 14.063
HSK-A 63	16	27	34.0	95	49	4938 16.000	1.0	4755 16.063
HSK-A 63	18	33	42.0	95	49	4938 16.000	1.2	4755 18.063
HSK-A 63	20	33	42.0	100	51	4938 20.000	1.2	4755 20.063
HSK-A 63	6	21	27.0	120	36	4938 6.000	0.9	4755 206.063
HSK-A 63	8	21	27.0	120	36	4938 8.000	1.0	4755 208.063
HSK-A 63	10	24	32.0	120	41	4938 10.000	1.1	4755 210.063
HSK-A 63	12	24	32.0	120	46	4938 12.000	1.2	4755 212.063
HSK-A 63	14	27	34.0	120	46	4938 12.000	1.2	4755 214.063
HSK-A 63	16	27	34.0	120	49	4938 16.000	1.1	4755 216.063
HSK-A 63	18	33	42.0	120	49	4938 16.000	1.2	4755 218.063
HSK-A 63	20	33	42.0	120	51	4938 20.000	1.4	4755 220.063
HSK-A 100	6	21	27.0	85	36	4938 6.000	2.2	4755 6.100
HSK-A 100	8	21	27.0	85	36	4938 8.000	2.2	4755 8.100
HSK-A 100	10	24	32.0	90	41	4938 10.000	2.3	4755 10.100
HSK-A 100	12	24	32.0	95	46	4938 12.000	2.3	4755 12.100
HSK-A 100	14	27	34.0	95	46	4938 12.000	2.3	4755 14.100
HSK-A 100	16	27	34.0	100	49	4938 16.000	2.3	4755 16.100
HSK-A 100	18	33	42.0	100	49	4938 16.000	2.5	4755 18.100
HSK-A 100	20	33	42.0	105	51	4938 20.000	2.5	4755 20.100
HSK-A 100	25	44	53.0	115	57	4938 20.000	3.0	4755 25.100
HSK-A 100	32	44	53.0	120	61	4938 20.000	3.0	4755 32.100



Product information:

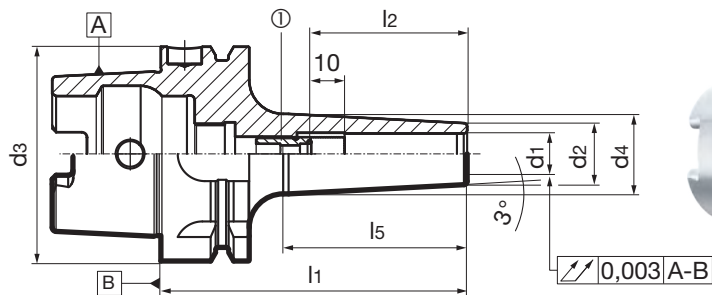
- HSK-A according to ISO 12164-1 / DIN 69893-1
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for carbide tool shanks in tolerance h6 (from d1 14 mm also HSS possible)
- axial length adjustment
- Concentricity < 3 µm
l1 up to 120 mm: max. 4 µm
l1 up to 160 mm: max. 5 µm

Scope of delivery:

- incl. adjusting screw (1) with axial force damping art. no. 4941 or 4904

Suitable accessories separately available:

- coolant supply set art. no. 4949
- replacement adjusting screw with axial force damping (1), art. no. 4941 or 4904
- MQL version available on request



Article no.

4787

d3	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	l5 mm	①	kg	Order no.
HSK-A 63	3	9	13.0	80	30	40	4904 5.016	0.6	4787 3.063
HSK-A 63	4	10	14.0	80	35	41	4904 6.016	0.7	4787 4.063
HSK-A 63	5	11	15.0	80	40	41	4904 8.018	0.7	4787 5.063
HSK-A 63	6	12	16.0	80	36	42	4941 6.100	0.7	4787 6.063
HSK-A 63	8	14	18.0	80	36	42	4941 8.100	0.7	4787 8.063
HSK-A 63	10	16	21.0	85	41	49	4941 10.100	0.7	4787 10.063
HSK-A 63	12	18	23.5	90	46	54	4941 12.100	0.7	4787 12.063
HSK-A 63	14	20	25.5	90	46	54	4941 14.100	0.7	4787 14.063
HSK-A 63	16	22	28.0	95	49	59	4941 16.100	0.8	4787 16.063
HSK-A 63	18	24	30.0	95	49	59	4941 18.100	0.8	4787 18.063
HSK-A 63	20	26	32.5	100	51	64	4941 20.100	0.9	4787 20.063
HSK-A 63	3	9	17.0	120	30	80	4904 5.016	0.7	4787 3.163
HSK-A 63	4	10	18.0	120	35	81	4904 6.016	0.7	4787 4.163
HSK-A 63	5	11	19.0	120	40	81	4904 8.018	0.7	4787 5.163
HSK-A 63	6	12	20.5	120	36	82	4941 6.041	0.8	4787 6.163
HSK-A 63	8	14	22.5	120	36	82	4941 8.040	0.8	4787 8.163
HSK-A 63	10	16	24.5	120	41	82	4941 10.050	0.8	4787 10.163
HSK-A 63	12	18	26.5	120	46	83	4941 12.100	0.9	4787 12.163
HSK-A 63	14	20	28.5	120	46	83	4941 14.100	0.9	4787 14.163
HSK-A 63	16	22	30.5	120	49	83	4941 16.100	0.9	4787 16.163
HSK-A 63	18	24	32.7	120	49	84	4941 18.100	1.0	4787 18.163
HSK-A 63	20	26	34.7	120	51	85	4941 20.100	1.0	4787 20.163
HSK-A 63	3	9	21.5	160	30	121	4904 5.016	0.8	4787 3.263
HSK-A 63	4	10	22.5	160	35	121	4904 6.016	0.8	4787 4.263
HSK-A 63	5	11	23.5	160	40	121	4904 8.018	0.9	4787 5.263
HSK-A 63	6	12	24.5	160	36	122	4941 6.041	0.9	4787 6.263
HSK-A 63	8	14	26.5	160	36	122	4941 8.040	1.0	4787 8.263
HSK-A 63	10	16	28.5	160	41	122	4941 10.050	1.0	4787 10.263
HSK-A 63	12	18	30.5	160	46	123	4941 12.100	1.1	4787 12.263
HSK-A 63	14	20	32.8	160	46	124	4941 14.100	1.1	4787 14.263
HSK-A 63	16	22	34.8	160	49	125	4941 16.100	1.2	4787 16.263
HSK-A 63	18	24	37.0	160	49	126	4941 18.100	1.3	4787 18.263
HSK-A 63	20	26	39.0	160	51	127	4941 20.100	1.3	4787 20.263



HSK-C shrink fit chucks

Article no. 4758



Product information:

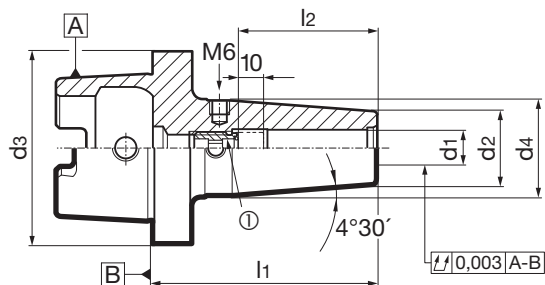
- HSK-C according to ISO 12164-1/DIN 69893-1
- dimensions according to DIN 69882-8
- balancing quality: G 2.5 / 25,000 rpm
or rev. < 1 gmm
- for tool shanks d1 h6
- balancing thread 4xM6/6xM6
- concentricity < 3 µm

Scope of delivery:

- incl. adjusting screw (1) art. no. 4977

Suitable accessories separately available:

- replacement adjusting screw (1), art. no. 4977



Article no.

4758

d3	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	①	kg	Order no.
HSK-C 32	6	21	26.0	65	36	4977 6.014	0.2	4758 6.032
HSK-C 32	8	21	26.0	65	36	4977 8.014	0.2	4758 8.032
HSK-C 32	10	24	30.0	65	41	4977 10.014	0.3	4758 10.032
HSK-C 32	12	24	32.0	75	46	4977 12.014	0.3	4758 12.032
HSK-C 40	6	21	30.0	70	36	4977 6.014	0.4	4758 6.040
HSK-C 40	8	21	30.0	70	36	4977 8.014	0.3	4758 8.040
HSK-C 40	10	24	32.7	70	41	4977 10.014	0.3	4758 10.040
HSK-C 40	12	24	34.1	80	46	4977 12.014	0.4	4758 12.040
HSK-C 40	14	27	37.2	80	46	4977 12.014	0.4	4758 14.040
HSK-C 40	16	27	37.2	80	49	4977 16.014	0.4	4758 16.040
HSK-C 50	6	21	30.0	70	36	4977 6.014	0.4	4758 6.050
HSK-C 50	8	21	47.0	70	36	4977 8.014	0.4	4758 8.050
HSK-C 50	10	24	33.0	75	41	4977 10.014	0.5	4758 10.050
HSK-C 50	12	24	34.0	80	46	4977 12.014	0.5	4758 12.050
HSK-C 50	14	27	37.0	80	46	4977 12.014	0.6	4758 14.050
HSK-C 50	16	27	38.5	85	49	4977 16.014	0.6	4758 16.050
HSK-C 50	18	33	44.5	85	49	4977 16.014	0.7	4758 18.050
HSK-C 50	20	33	45.0	90	51	4977 20.114	0.8	4758 20.050
HSK-C 63	6	21	29.2	70	36	4977 6.014	0.6	4758 6.063
HSK-C 63	8	21	29.2	70	36	4977 8.014	0.6	4758 8.063
HSK-C 63	10	24	33.0	75	41	4977 10.014	0.7	4758 10.063
HSK-C 63	12	24	34.0	80	46	4977 12.014	0.7	4758 12.063
HSK-C 63	14	27	36.0	80	46	4977 12.014	0.7	4758 14.063
HSK-C 63	16	27	36.0	85	49	4977 16.014	0.7	4758 16.063
HSK-C 63	18	33	43.5	85	49	4977 16.014	0.9	4758 18.063
HSK-C 63	20	33	44.3	90	51	4977 20.114	0.9	4758 20.063
HSK-C 63	25	44	53.0	100	57	4977 20.114	1.5	4758 25.063
HSK-C 63	32	44	53.0	110	61	4977 20.114	1.5	4758 32.063



HSK-E shrink fit chucks

Article no. **4737**



Product information:

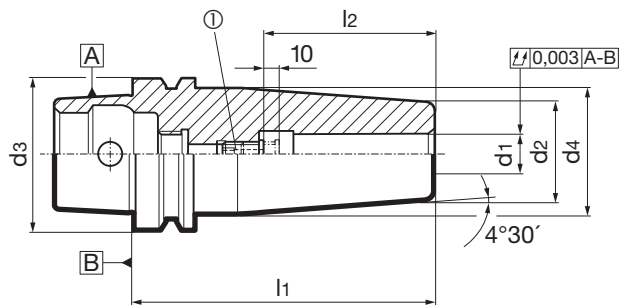
- HSK-E according to DIN 69893-5 with access hole in taper for manual tool change
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- axial length adjustment
- concentricity < 3 µm

Scope of delivery:

- incl. adjusting screw (1) art. no. 4977 or 4904

Suitable accessories separately available:

- coolant supply set art. no. 4949
- replacement adjusting screw (1), art. no. 4977 or 4904



Article no. **4737**

d3	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	①	kg	Order no.
HSK-E 32	3	10	15.9	60			0.1	4737 3.032
HSK-E 32	4	10	15.9	60			0.1	4737 4.032
HSK-E 32	5	10	15.9	60			0.1	4737 5.032
HSK-E 32	6	21	26.0	70	36	4977 6.014	0.1	4737 6.032
HSK-E 32	8	21	26.0	70	36	4977 8.014	0.2	4737 8.032
HSK-E 32	10	24	29.0	75	41	4977 10.014	0.2	4737 10.032
HSK-E 32	12	24	29.0	80	46	4977 12.014	0.2	4737 12.032
HSK-E 40	3	10	19.0	80			0.2	4737 3.040
HSK-E 40	4	10	19.0	80			0.2	4737 4.040
HSK-E 40	5	10	19.0	80			0.2	4737 5.040
HSK-E 40	6	21	27.0	80	36	4977 6.014	0.4	4737 6.040
HSK-E 40	8	21	27.0	80	36	4977 8.014	0.4	4737 8.040
HSK-E 40	10	24	32.0	80	41	4977 10.014	0.4	4737 10.040
HSK-E 40	12	24	32.0	90	46	4977 12.014	0.5	4737 12.040
HSK-E 40	14	27	34.0	90	46	4977 12.014	0.5	4737 14.040
HSK-E 40	16	27	34.0	90	49	4977 16.014	0.5	4737 16.040
HSK-E 50	3	10	18.0	80	30	4904 5.016	0.4	4737 3.050
HSK-E 50	4	10	18.0	80	35	4904 6.016	0.4	4737 4.050
HSK-E 50	5	10	18.0	80			0.4	4737 5.050
HSK-E 50	6	21	27.0	80	36	4977 6.014	0.5	4737 6.050
HSK-E 50	8	21	27.0	80	36	4977 8.014	0.5	4737 8.050
HSK-E 50	10	24	32.0	85	41	4977 10.014	0.5	4737 10.050
HSK-E 50	12	24	32.0	90	46	4977 12.014	0.6	4737 12.050
HSK-E 50	14	27	34.0	90	46	4977 12.014	0.7	4737 14.050
HSK-E 50	16	27	34.0	95	49	4977 16.014	0.7	4737 16.050
HSK-E 50	18	33	42.0	95	49	4977 16.014	0.9	4737 18.050
HSK-E 50	20	33	42.0	100	51	4977 20.114	0.9	4737 20.050
HSK-E 63	6	21	27.0	80	36	4977 6.014	0.8	4737 6.063
HSK-E 63	8	21	27.0	80	36	4977 8.014	0.8	4737 8.063
HSK-E 63	10	24	32.0	85	41	4977 10.014	0.9	4737 10.063
HSK-E 63	12	24	32.0	90	46	4977 12.014	0.9	4737 12.063
HSK-E 63	14	27	34.0	90	46	4977 12.014	1.0	4737 14.063
HSK-E 63	16	27	34.0	95	49	4977 16.014	1.0	4737 16.063
HSK-E 63	18	33	42.0	95	49	4977 16.014	1.1	4737 18.063
HSK-E 63	20	33	42.0	100	51	4977 20.114	1.2	4737 20.063
HSK-E 63	25	44	53.0	115	57	4977 20.114	1.8	4737 25.063
HSK-E 63	32	44	53.0	120	61	4977 20.114	1.7	4737 32.063



HSK-E shrink fit chucks, slim design 3°

Article no. **4789**



Product information:

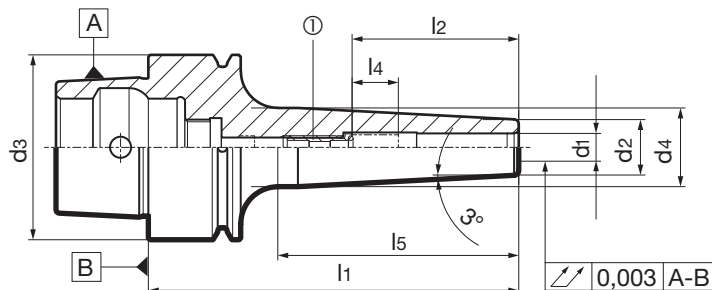
- HSK-E according to DIN 69893-5 with access hole in taper for manual tool change
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for carbide tool shanks in tolerance h6 (from d1 14 mm also HSS possible)
- axial length adjustment
- concentricity < 3 μm

Scope of delivery:

- incl. adjusting screw (1) art. no. 4904 or 4977

Suitable accessories separately available:

- coolant supply set art. no. 4949
- replacement adjusting screw (1), art. no. 4904 or 4977



Article no. **4789**

d3	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	l4 mm	l5 mm	①	kg	Order no.
HSK-E 40	3	9	12.0	60	30	10	30.0	4904 5.007	0.2	4789 3.040
HSK-E 40	4	10	13.0	60	35	10	31.0	4904 5.007	0.2	4789 4.040
HSK-E 40	5	11	14.0	60	36	10	31.0	4904 6.007	0.2	4789 5.040
HSK-E 40	6	12	15.0	60	36	5	32.0	4977 5.009	0.2	4789 6.040
HSK-E 40	8	14	17.0	60	36	5	32.0	4977 5.009	0.2	4789 8.040
HSK-E 40	10	16	19.5	60	38	5	34.0	4904 5.007	0.2	4789 10.040
HSK-E 40	12	18	21.5	60	40	3	34.5	4904 5.005	0.2	4789 12.040
HSK-E 40	3	9	14.0	80	30	10	50.0	4904 5.016	0.2	4789 3.140
HSK-E 40	4	10	15.0	80	35	10	51.0	4904 5.016	0.2	4789 4.140
HSK-E 40	5	11	16.0	80	40	10	51.0	4904 6.016	0.2	4789 5.140
HSK-E 40	6	12	17.0	80	36	10	52.0	4977 6.014	0.2	4789 6.140
HSK-E 40	8	14	19.0	80	36	10	52.5	4977 8.014	0.8	4789 8.140
HSK-E 40	10	16	21.5	80	41	10	54.0	4977 10.014	0.3	4789 10.140
HSK-E 40	12	18	23.5	80	46	10	55.0	4977 8.014	0.3	4789 12.140
HSK-E 50	3	9	13.0	80	30	10	40.0	4904 5.016	0.4	4789 3.050
HSK-E 50	4	10	14.0	80	35	10	41.0	4904 6.016	0.4	4789 4.050
HSK-E 50	5	11	15.0	80	40	10	41.0	4904 6.016	0.4	4789 5.050
HSK-E 50	6	12	16.0	80	36	10	42.0	4977 6.014	0.4	4789 6.050
HSK-E 50	8	14	18.0	80	36	10	42.0	4977 8.014	0.5	4789 8.050
HSK-E 50	10	16	20.5	80	41	10	44.0	4977 10.014	0.5	4789 10.050
HSK-E 50	12	18	22.5	80	46	10	44.5	4977 8.014	0.5	4789 12.050
HSK-E 50	14	20	24.5	80	46	10	45.5	4977 8.014	0.5	4789 14.050
HSK-E 50	16	22	26.5	80	49	10	46.5	4977 8.014	0.5	4789 16.050



Product information:

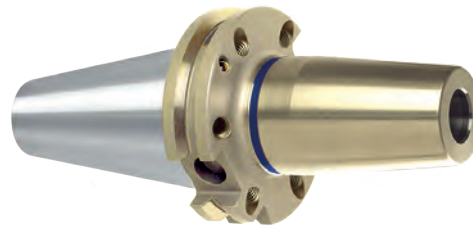
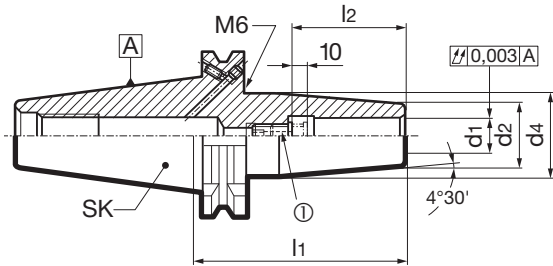
- ISO taper to DIN ISO 7388-1 form AD/AF
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- concentricity < 3 µm
- with axial damping screw for optimal concentricity
- design for 6xM6 balancing screws for maximum accuracy and running smoothness
- coating for protection against oxidation cleanliness and longevity
- safety colour ring for maximum operator safety

Scope of delivery:

- incl. adjusting screw with axial force damping (1), art. no. 4941 for conventional cooling

Suitable accessories separately available:

- ISO pull studs art. no. 4925, 4926
- replacement adjusting screw with axial force damping (1), art. no. 4941
- MQL version available on request



Article no.

4727

SK	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	①	kg	Order no.
SK 40	6	21	27.0	80	36	4941 6.041	1.0	4727 6.040
SK 40	8	21	27.0	80	36	4941 8.040	1.0	4727 8.040
SK 40	10	24	32.0	80	41	4941 10.050	1.0	4727 10.040
SK 40	12	24	32.0	80	46	4941 12.100	1.0	4727 12.040
SK 40	14	27	34.0	80	46	4941 14.100	1.0	4727 14.040
SK 40	16	27	34.0	80	49	4941 16.100	1.0	4727 16.040
SK 40	18	33	42.0	80	49	4941 18.100	1.0	4727 18.040
SK 40	20	33	42.0	80	51	4941 20.100	1.5	4727 20.040
SK 40	25	44	53.0	100	51	4941 25.100	1.5	4727 25.040
SK 40	32	44	53.0	100	61	4941 32.100	1.5	4727 32.040



ISO taper shrink fit chucks

Article no. 4738



Product information:

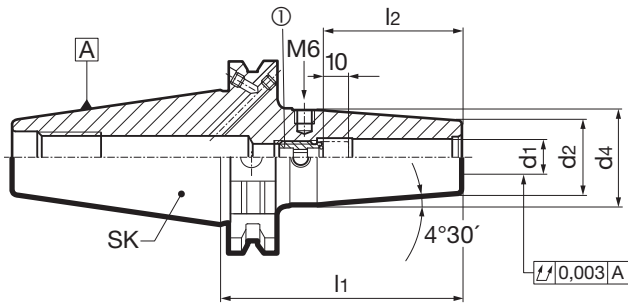
- ISO taper to DIN ISO 7388-1 form AD/AF
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- axial length adjustment
- balancing thread 4xM6/6xM6
- concentricity < 3 µm
- l1 from 120 mm = 4 µm
- l1 from 160 mm = 5 µm
- l1 from 200 mm = 7 µm

Scope of delivery:

- incl. adjusting screw (1) art. no. 4977 or 4904

Suitable accessories separately available:

- ISO pull studs art. no. 4925, 4926
- replacement adjusting screw (1), art. no. 4977 or 4904



Article no. 4738

SK	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	①	kg	Order no.
SK 40	3	10	18.0	80	30	4904 5.016	0.9	4738 3.040
SK 40	4	10	18.0	80	35	4904 6.016	0.9	4738 4.040
SK 40	5	10	18.0	80	40	4904 8.018	0.9	4738 5.040
SK 40	6	21	27.0	80	36	4977 6.014	1.0	4738 6.040
SK 40	8	21	27.0	80	36	4977 8.014	1.0	4738 8.040
SK 40	10	24	32.0	80	41	4977 10.014	1.1	4738 10.040
SK 40	12	24	32.0	80	46	4977 12.014	1.0	4738 12.040
SK 40	14	27	34.0	80	46	4977 12.014	1.1	4738 14.040
SK 40	16	27	34.0	80	49	4977 16.014	1.1	4738 16.040
SK 40	18	33	42.0	80	49	4977 16.014	1.2	4738 18.040
SK 40	20	33	42.0	80	51	4977 20.114	1.5	4738 20.040
SK 40	25	44	53.0	100	57	4977 20.114	1.5	4738 25.040
SK 40	32	44	53.0	100	61	4977 20.114	1.5	4738 32.040
SK 40	3	10	31.0	160	30	4904 5.016	1.1	4738 103.040
SK 40	4	10	31.0	160	35	4904 6.016	1.1	4738 104.040
SK 40	5	10	31.0	160	40	4904 8.018	1.1	4738 105.040
SK 40	6	21	27.0	160	36	4977 6.014	1.3	4738 106.040
SK 40	8	21	27.0	160	36	4977 8.014	1.3	4738 108.040
SK 40	10	24	32.0	160	41	4977 10.014	1.5	4738 110.040
SK 40	12	24	32.0	160	46	4977 12.014	1.5	4738 112.040
SK 40	14	27	34.0	160	46	4977 12.014	1.7	4738 114.040
SK 40	16	27	34.0	160	49	4977 16.014	1.7	4738 116.040
SK 40	18	33	42.0	160	49	4977 16.014	1.9	4738 118.040
SK 40	20	33	42.0	160	51	4977 20.114	1.9	4738 120.040
SK 40	25	44	53.0	160	57	4977 20.114	2.2	4738 125.040
SK 40	3	10	24.0	120	30	4904 5.016	1.0	4738 203.040
SK 40	4	10	24.0	120	35	4904 6.016	1.0	4738 204.040
SK 40	5	10	24.0	120	40	4904 8.018	1.0	4738 205.040
SK 40	6	21	27.0	120	36	4977 6.014	1.1	4738 206.040
SK 40	8	21	27.0	120	36	4977 8.014	1.1	4738 208.040
SK 40	10	24	32.0	120	41	4977 10.014	1.2	4738 210.040
SK 40	12	24	32.0	120	46	4977 12.014	1.2	4738 212.040
SK 40	14	27	34.0	120	46	4977 12.014	1.4	4738 214.040
SK 40	16	27	34.0	120	49	4977 16.014	1.4	4738 216.040
SK 40	18	33	42.0	120	49	4977 16.014	1.5	4738 218.040
SK 40	20	33	42.0	120	51	4977 20.114	1.5	4738 220.040
SK 40	6	21	27.0	200	36	4977 6.014	1.6	4738 306.040
SK 40	8	21	27.0	200	36	4977 8.014	1.6	4738 308.040
SK 40	10	24	32.0	200	41	4977 10.014	1.8	4738 310.040
SK 40	12	24	32.0	200	46	4977 12.014	1.8	4738 312.040
SK 40	14	27	34.0	200	46	4977 12.014	2.1	4738 314.040
SK 40	16	27	34.0	200	49	4977 16.014	2.1	4738 316.040
SK 40	18	33	42.0	200	49	4977 16.014	2.3	4738 318.040
SK 40	20	33	42.0	200	51	4977 20.114	2.3	4738 320.040
SK 40	25	44	53.0	200	57	4977 20.114	2.6	4738 325.040
SK 40	32	44	53.0	200	61	4977 20.114	2.5	4738 332.040
SK 50	3	10	18.0	80	30	4904 5.016	2.6	4738 3.050
SK 50	4	10	18.0	80	35	4904 6.016	2.6	4738 4.050

Shrink fit technology



Shrink fit chucks

Article no.

4738

SK	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	①	kg	Order no.
SK 50	5	10	18.0	80	40	4904 8.018	2.6	4738 5.050
SK 50	6	21	27.0	80	36	4977 6.014	2.9	4738 6.050
SK 50	8	21	27.0	80	36	4977 8.014	2.9	4738 8.050
SK 50	10	24	32.0	80	41	4977 10.014	2.9	4738 10.050
SK 50	12	24	32.0	80	46	4977 12.014	2.9	4738 12.050
SK 50	14	27	34.0	80	46	4977 12.014	3.0	4738 14.050
SK 50	16	27	34.0	80	49	4977 16.014	3.0	4738 16.050
SK 50	18	33	42.0	80	49	4977 16.014	3.0	4738 18.050
SK 50	20	33	42.0	80	51	4977 20.114	3.0	4738 20.050
SK 50	25	44	53.0	100	57	4977 20.114	3.6	4738 25.050
SK 50	32	44	53.0	100	61	4977 20.114	3.5	4738 32.050
SK 50	6	21	27.0	160	36	4977 6.014	3.1	4738 106.050
SK 50	8	21	27.0	160	36	4977 8.014	3.1	4738 108.050
SK 50	10	24	32.0	160	41	4977 10.014	3.4	4738 110.050
SK 50	12	24	32.0	160	46	4977 12.014	3.4	4738 112.050
SK 50	14	27	34.0	160	46	4977 12.014	3.7	4738 114.050
SK 50	16	27	34.0	160	49	4977 16.014	3.7	4738 116.050
SK 50	18	33	42.0	160	49	4977 16.014	4.1	4738 118.050
SK 50	20	33	42.0	160	51	4977 20.114	4.1	4738 120.050
SK 50	25	44	53.0	160	57	4977 20.114	4.7	4738 125.050
SK 50	32	44	53.0	160	61	4977 20.114	4.6	4738 132.050
SK 50	6	21	27.0	200	36	4977 6.014	3.4	4738 306.050
SK 50	8	21	27.0	200	36	4977 8.014	3.4	4738 308.050
SK 50	10	24	32.0	200	41	4977 10.014	3.7	4738 310.050
SK 50	12	24	32.0	200	46	4977 12.014	3.7	4738 312.050
SK 50	14	27	34.0	200	46	4977 12.014	4.0	4738 314.050
SK 50	16	27	34.0	200	49	4977 16.014	4.0	4738 316.050
SK 50	18	33	42.0	200	49	4977 16.014	4.4	4738 318.050
SK 50	20	33	42.0	200	51	4977 20.114	4.4	4738 320.050
SK 50	25	44	53.0	200	57	4977 20.114	5.0	4738 325.050
SK 50	32	44	53.0	200	61	4977 20.114	4.9	4738 332.050



ISO taper shrink fit chucks GÜHROJET

Article no. 4729



GÜHROJET

Product information:

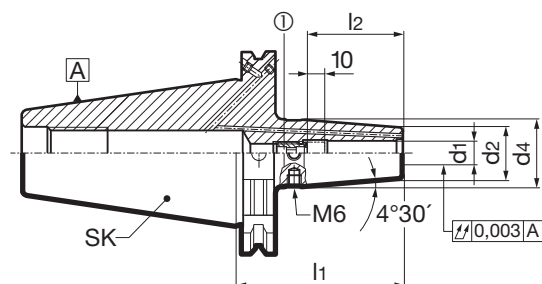
- ISO taper to DIN ISO 7388-1 form AD/AF
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- axial length adjustment
- concentricity < 3 µm
- incl. balancing thread 4xM6/6xM6
- optimised cooling lubrication for tools without internal coolant
- good chip evacuation and increased process reliability
- coolant ducts: d1 = 6 - 10 mm with two coolant ducts, d1 = 12 - 32 mm with four coolant ducts

Scope of delivery:

- incl. adjusting screw (1) art. no. 4977

Suitable accessories separately available:

- ISO pull studs art. no. 4925, 4926
- replacement adjusting screw (1), art. no. 4977



Article no.

4729

SK	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	①	kg	Order no.
SK 40	6	21	27.0	80	36	4977 6.014	1.0	4729 6.040
SK 40	8	21	27.0	80	36	4977 8.014	1.0	4729 8.040
SK 40	10	24	32.0	80	41	4977 10.014	1.1	4729 10.040
SK 40	12	24	32.0	80	46	4977 12.014	1.0	4729 12.040
SK 40	14	27	34.0	80	46	4977 12.014	1.1	4729 14.040
SK 40	16	27	34.0	80	49	4977 16.014	1.1	4729 16.040
SK 40	18	33	42.0	80	49	4977 16.014	1.2	4729 18.040
SK 40	20	33	42.0	80	51	4977 20.114	1.5	4729 20.040
SK 50	6	21	27.0	80	36	4977 6.014	2.8	4729 6.050
SK 50	8	21	27.0	80	36	4977 8.014	2.8	4729 8.050
SK 50	10	24	32.0	80	41	4977 10.014	2.8	4729 10.050
SK 50	12	24	32.0	80	46	4977 12.014	2.8	4729 12.050
SK 50	14	27	34.0	80	46	4977 12.014	2.8	4729 14.050
SK 50	16	27	34.0	80	49	4977 16.014	2.8	4729 16.050
SK 50	18	33	42.0	80	49	4977 16.014	3.0	4729 18.050
SK 50	20	33	42.0	80	51	4977 20.114	3.0	4729 20.050
SK 50	25	44	53.0	100	57	4977 20.114	3.5	4729 25.050
SK 50	32	44	53.0	100	61	4977 20.114	3.3	4729 32.050



Product information:

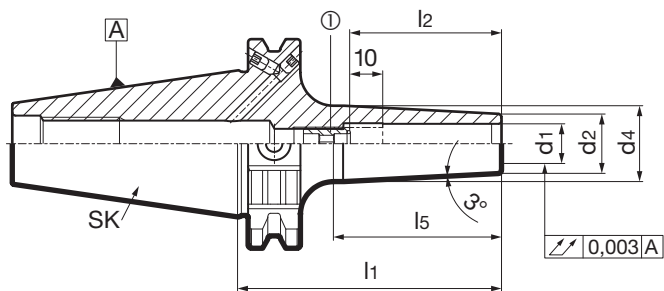
- ISO taper to DIN ISO 7388-1 form AD/AF
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for carbide tool shanks in tolerance h6 (from d1 14 mm also HSS possible)
- axial length adjustment
- Concentricity < 3 μm
l1 up to 120 mm: max. 4 μm
l1 up to 160 mm: max. 5 μm

Scope of delivery:

- incl. adjusting screw (1) art. no. 4904 or 4977

Suitable accessories separately available:

- ISO pull studs art. no. 4925, 4926
- replacement adjusting screw (1), art. no. 4904 or 4977



Article no.

4788

SK	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	l5 mm	①	kg	Order no.
SK 40	3	9	13.5	80	30	46	4904 5.016	0.8	4788 3.040
SK 40	4	10	14.5	80	35	46	4904 6.016	0.8	4788 4.040
SK 40	5	11	15.5	80	40	47	4904 8.018	0.8	4788 5.040
SK 40	6	12	16.5	80	36	48	4977 6.014	0.8	4788 6.040
SK 40	8	14	19.0	80	36	49	4977 8.014	0.8	4788 8.040
SK 40	10	16	21.0	80	41	50	4977 10.014	0.9	4788 10.040
SK 40	12	18	23.0	80	46	51	4977 12.014	0.9	4788 12.040
SK 40	14	20	25.0	80	46	52	4977 12.014	0.9	4788 14.040
SK 40	16	22	27.0	80	49	53	4977 16.014	0.9	4788 16.040
SK 40	18	24	29.5	80	49	54	4977 16.014	0.9	4788 18.040
SK 40	20	26	31.5	80	51	55	4977 20.114	0.9	4788 20.040
SK 40	3	9	18.0	120	30	88	4904 5.016	0.9	4788 3.140
SK 40	4	10	19.0	120	35	88	4904 6.016	0.9	4788 4.140
SK 40	5	11	20.0	120	40	89	4904 8.018	0.9	4788 5.140
SK 40	6	12	21.0	120	36	90	4977 6.014	0.9	4788 6.140
SK 40	8	14	23.5	120	36	92	4977 8.014	1.0	4788 8.140
SK 40	10	16	25.5	120	41	92	4977 10.014	1.0	4788 10.140
SK 40	12	18	27.5	120	46	93	4977 12.014	1.0	4788 12.140
SK 40	14	20	29.5	120	46	94	4977 12.014	1.1	4788 14.140
SK 40	16	22	31.5	120	49	95	4977 16.014	1.1	4788 16.140
SK 40	18	24	33.5	120	49	96	4977 16.014	1.1	4788 18.140
SK 40	20	26	36.0	120	51	97	4977 20.114	1.2	4788 20.140
SK 40	3	9	22.5	160	30	130	4904 5.016	1.0	4788 3.240
SK 40	4	10	23.5	160	35	130	4904 6.016	1.0	4788 4.240
SK 40	5	11	24.5	160	40	131	4904 8.018	1.0	4788 5.240
SK 40	6	12	25.5	160	36	132	4977 6.014	1.1	4788 6.240
SK 40	8	14	27.5	160	36	132	4977 8.014	1.1	4788 8.240
SK 40	10	16	30.0	160	41	134	4977 10.014	1.2	4788 10.240
SK 40	12	18	32.0	160	46	135	4977 12.014	1.2	4788 12.240
SK 40	14	20	34.0	160	46	136	4977 12.014	1.3	4788 14.240
SK 40	16	22	36.0	160	49	137	4977 16.014	1.4	4788 16.240
SK 40	18	24	38.0	160	49	137	4977 16.014	1.4	4788 18.240
SK 40	20	26	40.5	160	51	139	4977 20.114	1.5	4788 20.240

Shrink fit technology



MAS/BT shrink fit chucks TSG 3000

Article no. 4728



Product information:

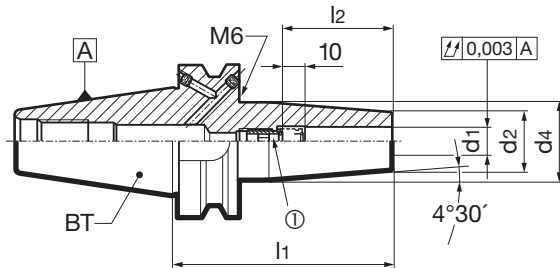
- MAS/BT according to DIN ISO 7388-2 form JD/JF (AD/B)
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- concentricity < 3 µm
- with axial damping screw for optimal concentricity
- design for 6xM6 balancing screws for maximum accuracy
- coating for protection against oxidation cleanliness and longevity
- safety colour ring for maximum operator safety

Scope of delivery:

- incl. adjusting screw with axial force damping (1), art. no. 4941 for conventional cooling

Suitable accessories separately available:

- BT pull studs art. nr. 4927, 4928
- replacement adjusting screw with axial force damping (1), art. no. 4941
- MQL version available on request



Article no.

4728

BT	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	①	kg	Order no.
BT 40	6	21	27	90	36	4941 6.041	1.0	4728 6.040
BT 40	8	21	27	90	36	4941 8.040	1.1	4728 8.040
BT 40	10	24	32	90	41	4941 10.050	1.0	4728 10.040
BT 40	12	24	32	90	46	4941 12.100	1.0	4728 12.040
BT 40	14	27	34	90	46	4941 14.100	1.5	4728 14.040
BT 40	16	27	34	90	49	4941 16.100	1.5	4728 16.040
BT 40	18	33	42	90	49	4941 18.100	2.0	4728 18.040
BT 40	20	33	42	90	51	4941 20.100	2.0	4728 20.040
BT 40	25	44	53	100	57	4941 25.100	2.0	4728 25.040
BT 40	32	44	53	100	57	4941 32.100	2.0	4728 32.040



Product information:

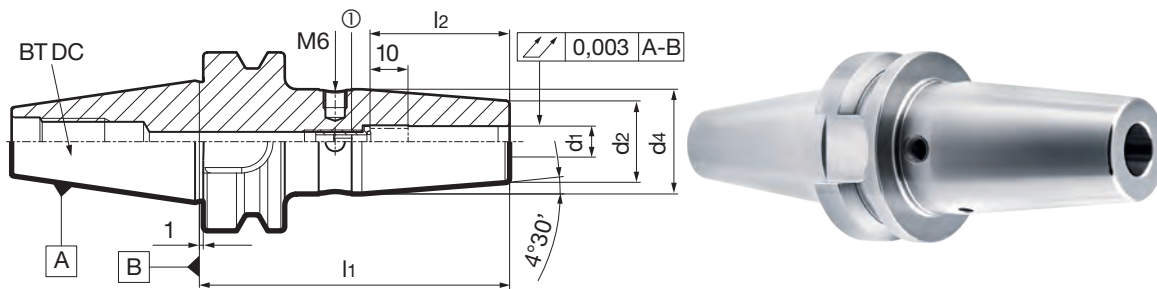
- MAS/BT DC with axial plane, sim. ISO 7388-2, form JD
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- axial length adjustment
- concentricity < 3 µm
- balancing thread 4xM6

Scope of delivery:

- incl. adjusting screw (1) art. no. 4904 or 4977

Suitable accessories separately available:

- BT pull studs art. nr. 4927, 4928
- replacement adjusting screw (1), art. no. 4904 or 4977



Article no. **4790**

BT DC	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	①	kg	Order no.
BT 30	3	10	18	80	30	4904 5.016	0.6	4790 3.030
BT 30	4	10	18	80	35	4904 6.016	0.6	4790 4.030
BT 30	5	10	18	80	40	4904 8.018	0.6	4790 5.030
BT 30	6	21	27	80	36	4977 6.014	0.7	4790 6.030
BT 30	8	21	27	80	36	4977 8.014	0.7	4790 8.030
BT 30	10	24	32	80	41	4977 10.014	0.8	4790 10.030
BT 30	12	24	32	80	46	4977 12.014	0.8	4790 12.030
BT 30	14	27	34	80	46	4977 12.014	0.8	4790 14.030
BT 30	16	27	34	80	49	4977 16.014	0.8	4790 16.030
BT 30	18	33	42	90	49	4977 16.014	0.9	4790 18.030
BT 30	20	33	42	90	51	4977 20.114	0.9	4790 20.030



MAS/BT shrink fit chucks

Article no. 4739



Product information:

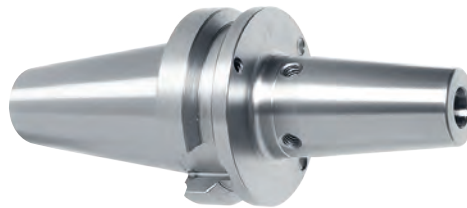
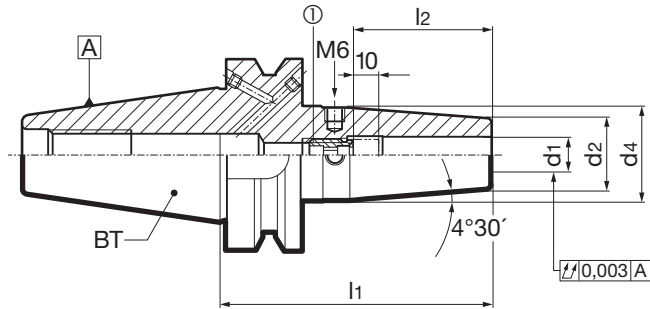
- MAS/BT to DIN ISO 7388-2 Form JD/JF
- BT30 in JD design with coolant supply via the collar
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- axial length adjustment
- balancing thread 4xM6/6xM6
- concentricity < 3 µm
l1 from 130 mm = 4 µm

Scope of delivery:

- incl. adjusting screw (1) art. no. 4977 or 4904

Suitable accessories separately available:

- BT pull studs art. nr. 4927, 4928
- replacement adjusting screw (1), art. no. 4977 or 4904



Article no.

4739

BT	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	①	kg	Order no.
BT 30	3	10	18	80	30	4904 5.016	0.6	4739 3.030
BT 30	4	10	18	80	35	4904 6.016	0.6	4739 4.030
BT 30	5	10	18	80	40	4904 8.018	0.6	4739 5.030
BT 30	6	21	27	80	36	4977 6.014	0.7	4739 6.030
BT 30	8	21	27	80	36	4977 8.014	0.7	4739 8.030
BT 30	10	24	32	80	41	4977 10.014	0.8	4739 10.030
BT 30	12	24	32	80	46	4977 12.014	0.8	4739 12.030
BT 30	14	27	34	80	46	4977 12.014	0.8	4739 14.030
BT 30	16	27	34	80	49	4977 16.014	0.8	4739 16.030
BT 30	18	33	42	90	49	4977 16.014	0.9	4739 18.030
BT 30	20	33	42	90	51	4977 20.114	0.9	4739 20.030
BT 40	3	10	18	85	30	4904 5.016	1.0	4739 3.040
BT 40	4	10	18	85	35	4904 6.016	1.0	4739 4.040
BT 40	5	10	18	85	40	4904 8.018	1.0	4739 5.040
BT 40	6	21	27	90	36	4977 6.014	1.2	4739 6.040
BT 40	8	21	27	90	36	4977 8.014	1.2	4739 8.040
BT 40	10	24	32	90	41	4977 10.014	1.2	4739 10.040
BT 40	12	24	32	90	46	4977 12.014	1.2	4739 12.040
BT 40	14	27	34	90	46	4977 12.014	1.4	4739 14.040
BT 40	16	27	34	90	49	4977 16.014	1.4	4739 16.040
BT 40	18	33	42	90	49	4977 16.014	1.7	4739 18.040
BT 40	20	33	42	90	51	4977 20.114	1.7	4739 20.040
BT 40	25	44	53	100	57	4977 20.114	1.8	4739 25.040
BT 40	32	44	53	100	61	4977 20.114	1.7	4739 32.040
BT 40	6	21	27	130	36	4977 6.014	1.3	4739 6.140
BT 40	8	21	27	130	36	4977 8.014	1.2	4739 8.140
BT 40	10	24	32	130	41	4977 10.014	1.4	4739 10.140
BT 40	12	24	32	130	46	4977 12.014	1.3	4739 12.140
BT 40	14	27	34	130	46	4977 12.014	1.4	4739 14.140
BT 40	16	27	34	130	49	4977 16.014	1.4	4739 16.140
BT 40	18	33	42	130	49	4977 16.014	1.5	4739 18.140
BT 40	20	33	42	130	51	4977 20.114	1.8	4739 20.140
BT 40	25	44	53	130	57	4977 20.114	2.0	4739 25.140
BT 40	32	44	53	130	61	4977 20.114	2.2	4739 32.140
BT 50	6	21	27	100	36	4977 6.014	2.9	4739 6.050
BT 50	8	21	27	100	36	4977 8.014	2.9	4739 8.050
BT 50	10	24	32	100	41	4977 10.014	3.8	4739 10.050
BT 50	12	24	32	100	46	4977 12.014	2.9	4739 12.050
BT 50	14	27	34	100	46	4977 12.014	3.3	4739 14.050
BT 50	16	27	34	100	49	4977 16.014	3.0	4739 16.050
BT 50	18	33	42	100	49	4977 16.014	1.9	4739 18.050
BT 50	20	33	42	100	51	4977 20.114	3.5	4739 20.050
BT 50	25	44	53	110	57	4977 20.114	4.3	4739 25.050
BT 50	32	44	53	110	61	4977 20.114	3.7	4739 32.050

Shrink fit technology



Shrink fit extensions

Article no. **4719**



Product information:

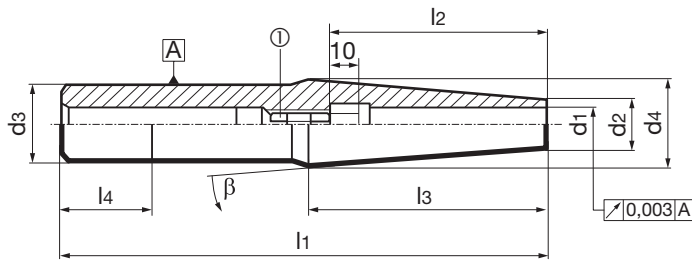
- for clamping in hydraulic chucks or shrink fit chucks
- for carbide tool shanks d1 h6 (from d1 14 mm HSS also possible)
- with adjusting screw 10 mm adjustment range
- suitable for internal cooling
- we recommend the use of special cooling adaptors art. no. 4419
- concentricity < 3 µm
l1 from 115 mm = 5 µm
l1 from 150 mm = 7 µm
l1 from 200 mm = 9 µm

Scope of delivery:

- incl. adjusting screw (1) art. no. 4977 or 4904

Suitable accessories separately available:

- replacement adjusting screw (1), art. no. 4904 or 4977



Article no.

4719

d1 mm	d2 mm	d3 mm	d4 mm	l1 mm	l2 mm	l3 mm	l4 mm	①	β °	kg	Order no.
3	7	16	16	115	30	64.4	50	4904 5.016	4	0.1	4719 3.016
4	7	16	16	115	35	64.4	50	4904 6.016	4	0.1	4719 4.016
5	8	16	16	115	40	57.2	57	4904 8.018	4	0.1	4719 5.016
6	10	16	16	115	36	42.9	72	4977 6.014	4	0.1	4719 6.016
8	12	16	16	115	36	28.6	86	4977 8.014	4	0.1	4719 8.016
10	14	16	16	115	41	14.3	100	4977 10.014	4	0.1	4719 10.016
12	16	16	23	115	46	51.5	55	4977 12.014	4	0.1	4719 12.016
3	7	20	16	115	30	65.0	48	4904 5.016	4	0.1	4719 3.020
4	8	20	17	115	35	65.0	48	4904 6.016	4	0.1	4719 4.020
5	9	20	18	115	40	65.0	49	4904 8.018	4	0.1	4719 5.020
6	10	20	19	115	36	65.0	49	4977 6.014	4	0.1	4719 6.020
8	12	20	20	115	36	57.2	57	4977 8.014	4	0.1	4719 8.020
10	14	20	20	115	41	42.9	72	4977 10.014	4	0.2	4719 10.020
12	16	20	20	115	46	28.6	86	4977 12.014	4	0.2	4719 12.020
14	20	20	28	150	46	62.9	82	4977 12.014	4	0.3	4719 14.020
14	20	25	28	150	46	62.9	85	4977 12.014	4	0.4	4719 14.025
16	24	25	33	150	49	64.4	81	4977 16.014	4	0.5	4719 16.025
3	10	20	20	160	30	71.5	88	4904 5.016	4	0.2	4719 3.120
4	10	20	20	160	35	71.5	88	4904 6.016	4	0.2	4719 4.120
5	10	20	20	160	40	71.5	88	4904 8.018	4	0.2	4719 5.120
6	14	20	20	160	36	42.9	117	4977 6.014	4	0.3	4719 6.120
8	14	20	20	160	36	42.9	117	4977 8.014	4	0.3	4719 8.120
10	20	25	25	160	41	35.8	124	4977 10.014	4	0.5	4719 10.125
12	20	25	25	160	46	35.8	124	4977 12.014	4	0.4	4719 12.125
14	20	25	29	160	46	62.9	85	4977 12.014	4	0.4	4719 14.125
16	22	25	33	160	49	78.7	77	4977 16.014	4	0.5	4719 16.125
18	27	32	32	160	49	35.8	124	4977 16.014	4	0.8	4719 18.132
20	27	32	32	160	51	35.8	124	4977 20.114	4	0.8	4719 20.132
3	10	20	20	200	30	71.5	128	4904 5.016	4	0.3	4719 3.220
4	10	20	20	200	35	71.5	128	4904 6.016	4	0.3	4719 4.220
5	10	20	20	200	40	71.5	128	4904 8.018	4	0.3	4719 5.220
6	14	20	20	200	36	42.9	157	4977 6.014	4	0.4	4719 6.220
8	14	20	20	200	36	42.9	157	4977 8.014	4	0.3	4719 8.220
10	20	25	25	200	41	35.8	164	4977 10.014	4	0.6	4719 10.225
12	20	25	25	200	46	35.8	164	4977 12.014	4	0.6	4719 12.225
14	20	32	32	200	46	85.8	114	4977 12.014	4	0.9	4719 14.232
16	24	32	32	200	49	57.2	142	4977 16.014	4	1.0	4719 16.232
18	27	32	32	200	49	35.8	164	4977 16.014	4	1.0	4719 18.232
20	27	32	32	200	51	35.8	164	4977 20.114	4	1.0	4719 20.232
6	10	12	12	125	38	19.1	105		3	0.0	4719 6.012
8	12	14	14	125	38	19.1	105		3	0.1	4719 8.014
10	14	16	16	160	42	19.1	140		3	0.2	4719 10.116
12	16	20	20	160	47	38.2	121		3	0.3	4719 12.120
16	22	25	25	160	50	28.6	131		3	0.5	4719 16.225
20	27	32	32	160	52	47.7	112		3	0.8	4719 20.332
6	10	12	12	200	38	21.0	47		3	0.1	4719 6.312
8	12	14	14	200	38	21.0	47		3	0.1	4719 8.314
10	14	16	16	250	42	21.0	50		3	0.3	4719 10.316

Shrink fit technology



Article no.

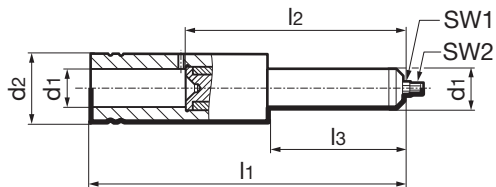
4719

d1 mm	d2 mm	d3 mm	d4 mm	l1 mm	l2 mm	l3 mm	l4 mm	①	β °	kg	Order no.
12	16	20	20	250	47	40.1	52		3	0.4	4719 12.320
16	22	25	25	250	50	30.5	58		3	0.8	4719 16.325
20	27	32	32	250	52	49.6	62		3	1.3	4719 20.432



Product information:

- for shrink fit and hydraulic chucks
- for length pre-setting of the adjusting screw with the cutting tool (less difference dimension l2, see sketch)
- flexibly mounted hexagonal key SW1/SW2 (*only available as rigid design)
- with standard screws suitable for wet application art. no. 4900, 4941, 4977
- with standard screws suitable for wet application art. no. 4900, 4941, 4977



Article no.

4718

d1 mm	d2 mm	l1 mm	l2 mm	l3 mm	SW1 mm	SW2 mm	Order no.
6	25	115	80	50	3.0	2.5	4718 6.000
6	25	115	80	50	2.0	1.5	4718 6.001
6	25	115	80	50	4.0		4718 6.002
8	25	115	80	50	3.0		4718 8.000
8	25	115	80	50	2.0	1.5	4718 8.001
8	25	115	80	50	4.0		4718 8.002
10	25	115	80	50	4.0	3.0	4718 10.000
10	25	115	80	50	2.0	1.5	4718 10.001
12	25	115	80	50	5.0		4718 12.000
12	25	115	80	50	2.0	1.5	4718 12.001
12	25	115	80	50	4.0	3.0	4718 12.002
14	25	115	80	50	5.0		4718 14.000
14	25	115	80	50	2.0	1.5	4718 14.001
14	25	115	80	50	4.0	3.0	4718 14.002
16	25	120	85	55	6.0	5.0	4718 16.000
16	25	120	85	55	2.0	1.5	4718 16.001
16	25	120	85	55	4.0	3.0	4718 16.002
18	30	120	85	65	6.0	5.0	4718 18.000
18	30	120	85	65	2.0	1.5	4718 18.001
18	30	120	85	65	4.0	3.0	4718 18.002
20	30	135	90	65	8.0	5.0	4718 20.000
20	30	135	90	65	4.0	3.0	4718 20.001
20	30	135	90	65	4.0		4718 20.002
25	35	140	100	70	8.0	5.0	4718 25.000
25	35	140	100	70	3.0	2.0	4718 25.001
25	35	140	100	70	4.0		4718 25.002
32	45	150	100	70	8.0	5.0	4718 32.000
32	45	150	100	70	3.0	2.0	4718 32.001
32	45	150	100	70	4.0		4718 32.002

Shrink fit technology



Adjusting screws for GÜHROJET shrink fit chucks

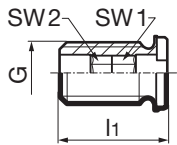
Article no. **4938**

Product information:

- adjusting screws for Gührojet shrink fit chucks art. no. 4755
- with transverse groove for reliable coolant delivery

Suitable accessories separately available:

- hexagonal key art. no. 4912



Article no. **4938**

for holder Ø	l1 mm	G	SW1 mm	SW2 mm	Order no.
6	14	M 5	2.5	2.5	4938 6.000
8	14	M 6	3.0	3.0	4938 8.000
10	14	M8 x 1	4.0	4.0	4938 10.000
12/14	14	M10X1	5.0	5.0	4938 12.000
16/18	14	M12X1	6.0	6.0	4938 16.000
20/25/32	14	M16X1	8.0	6.0	4938 20.000

Shrink fit chuck length adjusting screws with axial force damping

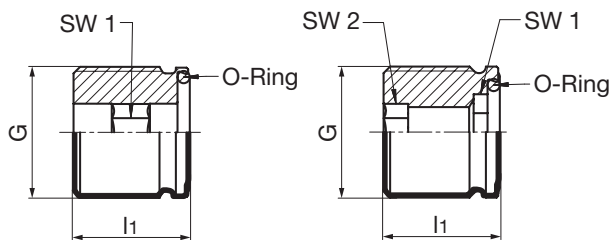
Article no. **4977**

Product information:

- for shrink fit chucks
- for conventional internal cooling
- with plane stop for standard shank ends
- with smooth, bearing-led length compensation, which compensates for differences between the spindle feed and thread pitch

Suitable accessories separately available:

- hexagonal key art. no. 4912



Article no. **4977**

for holder Ø	l1 mm	G	SW1 mm	SW2 mm	Order no.
6	14.0	M 5	2.5		4977 6.014
8	14.0	M 6	3.0		4977 8.014
10	14.0	M8 x 1	4.0		4977 10.014
12/14	14.0	M10X1	5.0		4977 12.014
16/18	14.0	M12X1	6.0		4977 16.014
20/25	14.0	M16X1	6.0		4977 20.014
20/25/32	14.0	M16X1	8.0	6.0	4977 20.114

Shrink fit technology

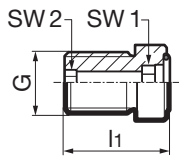


Product information:

- to adapt MQL tool holders to meet the requirements of conventional wet machining. For plain end shanks. The height of screw head compensates the height of MQL taper.
- for use with shank according to DIN 6535 with plain shank end for conventional cooling
- with patented axial force damping; the o-ring on the face prevents temperature-related warping and concentricity errors
- for MQL HSK-A shrink fit and hydraulic chucks

Suitable accessories separately available:

- hexagonal key art. no. 4912



Article no.

4941

for HSK-A	for clamping Ø mm	l1 mm	G	SW1 mm	SW2 mm	Order no.
40	6	15.0	M7	2.5	2.5	4941 6.040
40	6	14.9	M 5	2.5	2.5	4941 6.041
50	6	14.0	M 8X1	2.5	2.5	4941 6.050
63-100	6	17.0	M10X1	2.5	2.5	4941 6.100
40	8	16.2	M7	3.0	3.0	4941 8.040
50	8	18.0	M 8X1	3.0	3.0	4941 8.050
63-100	8	17.0	M10X1	3.0	3.0	4941 8.100
40-50	10	16.2	M 8X1	4.0	4.0	4941 10.050
63-100	10	16.2	M10X1	4.0	4.0	4941 10.100
40-100	12	16.0	M10X1	5.0	5.0	4941 12.100
40-100	14	17.2	M10X1	5.0	5.0	4941 14.100
50-100	16	18.2	M12X1	6.0	6.0	4941 16.100
50-100	18	19.2	M12X1	6.0	6.0	4941 18.100
50-100	20	19.2	M16X1	6.0	8.0	4941 20.100
63-100	25	22.7	M16X1	6.0	8.0	4941 25.100
63-100	32	26.7	M16X1	6.0	8.0	4941 32.100

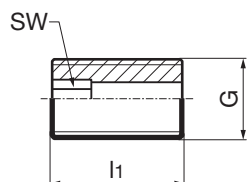


Adjusting screws

Article no. **4904**

Product information:

- for side lock holders HSK-A with mounting hole DIN 1835–2, form E, shrink fit chuck and shrink fit extension
- minimum order quantity 5 units

Article no. **4904**

G	l1 mm	SW mm	Order no.
M 5	5	2.5	4904 5.005
M 5	7	2.5	4904 5.007
M 5	16	2.5	4904 5.016
M 5	20	2.5	4904 5.020
M 6	7	3.0	4904 6.007
M 6	16	3.0	4904 6.016
M 6	20	3.0	4904 6.020
M 8	12	3.0	4904 8.012
M 8	18	4.0	4904 8.018
M10	17	3.0	4904 10.017
M10	20	5.0	4904 10.020
M12	14	3.0	4904 12.014
M12	20	5.0	4904 12.020
M16	25	5.0	4904 16.025
M20	25	6.0	4904 20.025



MQL length pre-adjusting screws for conversion

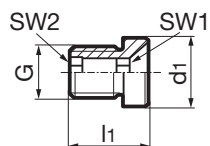
Article no. **4919**

Product information:

- for hydraulic chucks and shrink fit chucks
- with special geometry optimised for MQL
- with tapered stop for MQL conical shank ends

Suitable accessories separately available:

- hexagonal key art. no. 4912



Article no.

4919

d1 mm	l1 mm	G	SW1 mm	SW2 mm	Order no.
6	14.8	M 6	2.5	2.5	4919 6.000
8	15.6	M 6	3.0	3.0	4919 8.000
10	16.1	M 8X1	4.0	4.0	4919 10.000
10	16.6	M 6	3.0	3.0	4919 10.032
10	16.6	M 8X1	3.0	3.0	4919 10.040
12	16.6	M10X1	5.0	5.0	4919 12.000
12	17.6	M 6	3.0	3.0	4919 12.032
14	17.6	M10X1	5.0	5.0	4919 14.000
14	18.6	M 6	3.0	3.0	4919 14.040
16	18.6	M12X1	5.0	5.0	4919 16.000
16	19.6	M 6	3.0	3.0	4919 16.040
18	19.6	M12X1	5.0	5.0	4919 18.000
20	20.6	M16X1	5.0	5.0	4919 20.000
25	22.6	M16X1	8.0	6.0	4919 25.000
32	26.1	M16X1	8.0	6.0	4919 32.000



MQL coolant supply set with tube, HSK-A, for conversion

Article no. 4924

Product information:

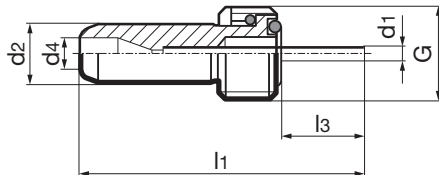
- for hydraulic chucks according to DIN 69882-7
- for shrink fit chucks according to DIN 69882-8
- replaces conventional coolant supply sets, art. no. 4949, when applying MQL
- Please note: Not suitable for use in machines with delivery neck in accordance with DIN 69090-2, observe hole diameter d4

Scope of delivery:

- complete MQL coolant supply set consisting of: coolant pipe, cap nut, MQL tube and O-rings

Suitable accessories separately available:

- socket wrench art. no. 4911



Article no.

4924

for	d1 mm	d2 mm	d4 mm	l1 mm	l3 mm	G	Order no.
HSK-A 32	2.5	6	3.5	54.2	28.0	M10X1	4924 32.010
HSK-A 32	2.5	6	3.5	45.1	18.9	M10X1	4924 32.020
HSK-A 32	3.0	6	3.5	54.3	28.1	M10X1	4924 32.030
HSK-A 32	3.0	6	3.5	55.8	29.6	M10X1	4924 32.050
HSK-A 32	3.0	6	3.5	45.7	19.5	M10X1	4924 32.060
HSK-A 32	3.0	6	3.5	56.6	30.4	M10X1	4924 32.070
HSK-A 32	3.0	6	3.5	45.2	19.0	M10X1	4924 32.080
HSK-A 40	2.5	8	4.0	45.1	16.0	M12X1	4924 40.010
HSK-A 40	2.5	8	4.0	56.0	26.9	M12X1	4924 40.020
HSK-A 40	3.0	8	4.0	56.2	15.8	M12X1	4924 40.030
HSK-A 40	3.0	8	4.0	56.2	27.0	M12X1	4924 40.040
HSK-A 40	3.0	8	4.0	46.3	17.1	M12X1	4924 40.050
HSK-A 40	3.0	8	4.0	51.7	22.5	M12X1	4924 40.060
HSK-A 40	3.0	8	4.0	46.7	17.5	M12X1	4924 40.070
HSK-A 40	3.0	8	4.0	57.2	28.0	M12X1	4924 40.100
HSK-A 40	3.0	8	4.0	54.2	25.0	M12X1	4924 40.120
HSK-A 50	2.5	10	4.0	44.6	11.9	M16X1	4924 50.010
HSK-A 50	2.5	10	4.0	55.4	22.7	M16X1	4924 50.020
HSK-A 50	3.0	10	4.0	46.1	13.4	M16X1	4924 50.030
HSK-A 50	3.0	10	4.0	46.5	13.8	M16X1	4924 50.040
HSK-A 50	4.0	10	4.0	45.7	13.0	M16X1	4924 50.050
HSK-A 50	4.0	10	4.0	46.1	13.4	M16X1	4924 50.060
HSK-A 50	5.0	10	4.0	46.1	13.4	M16X1	4924 50.070
HSK-A 50	5.0	10	4.0	55.7	23.0	M16X1	4924 50.080
HSK-A 50	5.0	10	4.0	51.5	18.8	M16X1	4924 50.090
HSK-A 50	5.0	10	4.0	55.7	22.9	M16X1	4924 50.100
HSK-A 50	5.0	10	4.0	52.8	20.1	M16X1	4924 50.110
HSK-A 50	5.0	10	4.0	53.2	20.5	M16X1	4924 50.130
HSK-A 50	5.0	10	4.0	57.7	25.0	M16X1	4924 50.140
HSK-A 50	5.0	10	4.0	51.5	18.8	M16X1	4924 50.150
HSK-A 50	5.0	10	4.0	60.7	28.0	M16X1	4924 50.160
HSK-A 63	2.5	12	4.0	45.7	9.5	M18X1	4924 63.010
HSK-A 63	2.5	12	4.0	126.9	90.6	M18X1	4924 63.011
HSK-A 63	2.5	12	4.0	176.9	140.6	M18X1	4924 63.012
HSK-A 63	2.5	12	4.0	56.7	20.5	M18X1	4924 63.020
HSK-A 63	2.5	12	4.0	137.7	101.4	M18X1	4924 63.021
HSK-A 63	3.0	12	4.0	46.0	9.8	M18X1	4924 63.030
HSK-A 63	3.0	12	4.0	126.1	89.9	M18X1	4924 63.031
HSK-A 63	3.0	12	4.0	176.2	139.9	M18X1	4924 63.032
HSK-A 63	3.0	12	4.0	57.0	20.8	M18X1	4924 63.040
HSK-A 63	3.0	12	4.0	137.0	100.7	M18X1	4924 63.041
HSK-A 63	4.0	12	4.0	51.7	15.5	M18X1	4924 63.050
HSK-A 63	4.0	12	4.0	122.2	86.0	M18X1	4924 63.051
HSK-A 63	4.0	12	4.0	172.2	135.9	M18X1	4924 63.052
HSK-A 63	4.0	12	4.0	55.7	19.5	M18X1	4924 63.060
HSK-A 63	4.0	12	4.0	132.2	95.9	M18X1	4924 63.061
HSK-A 63	5.0	12	4.0	52.1	15.9	M18X1	4924 63.070
HSK-A 63	5.0	12	4.0	55.7	19.5	M18X1	4924 63.080
HSK-A 63	5.0	12	4.0	127.1	90.8	M18X1	4924 63.081
HSK-A 63	5.0	12	4.0	53.8	17.6	M18X1	4924 63.090
HSK-A 63	5.0	12	4.0	117.6	81.4	M18X1	4924 63.091
HSK-A 63	5.0	12	4.0	167.6	131.3	M18X1	4924 63.092
HSK-A 63	5.0	12	4.0	57.5	21.3	M18X1	4924 63.100
HSK-A 63	5.0	12	4.0	60.7	24.5	M18X1	4924 63.110



Article no.							4924
for	d1 mm	d2 mm	d4 mm	l1 mm	l3 mm	G	Order no.
HSK-A 63	5.0	12	4.0	114.3	78.0	M18X1	4924 63.111
HSK-A 63	6.0	12	4.0	77.0	40.8	M18X1	4924 63.120
HSK-A 63	6.0	12	4.0	69.0	32.8	M18X1	4924 63.130
HSK-A 63	5.0	12	4.0	114.6	78.3	M18X1	4924 63.131
HSK-A 63	5.0	12	4.0	164.6	128.3	M18X1	4924 63.132
HSK-A 63	6.0	12	4.0	70.7	34.5	M18X1	4924 63.140
HSK-A 63	5.0	12	4.0	124.3	88.0	M18X1	4924 63.141
HSK-A 63	5.0	12	4.0	112.9	76.6	M18X1	4924 63.151
HSK-A 63	5.0	12	4.0	162.9	126.6	M18X1	4924 63.152
HSK-A 63	5.0	12	4.0	122.1	85.8	M18X1	4924 63.161
HSK-A 63	6.0	12	4.0	116.2	79.9	M18X1	4924 63.181
HSK-A 63	6.0	12	4.0	112.2	75.9	M18X1	4924 63.201
HSK-A 80	2.5	14	4.0	44.8	5.5	M20X1.5	4924 80.010
HSK-A 80	2.5	14	4.0	61.2	21.9	M20X1.5	4924 80.020
HSK-A 80	3.0	14	4.0	44.9	5.6	M20X1.5	4924 80.030
HSK-A 80	3.0	14	4.0	61.3	22.0	M20X1.5	4924 80.040
HSK-A 80	4.0	14	4.0	50.9	11.6	M20X1.5	4924 80.050
HSK-A 80	4.0	14	4.0	61.3	22.0	M20X1.5	4924 80.060
HSK-A 80	5.0	14	4.0	51.3	12.0	M20X1.5	4924 80.070
HSK-A 80	5.0	14	4.0	51.6	12.3	M20X1.5	4924 80.090
HSK-A 80	5.0	14	4.0	61.3	22.0	M20X1.5	4924 80.100
HSK-A 80	5.0	14	4.0	57.9	18.6	M20X1.5	4924 80.110
HSK-A 80	5.0	14	4.0	58.3	19.0	M20X1.5	4924 80.130
HSK-A 80	5.0	14	4.0	63.3	24.0	M20X1.5	4924 80.140
HSK-A 80	5.0	14	4.0	56.6	17.3	M20X1.5	4924 80.150
HSK-A 80	5.0	14	4.0	66.3	78.0	M20X1.5	4924 80.160
HSK-A 80	6.0	14	4.0	53.1	13.8	M20X1.5	4924 80.170
HSK-A 80	6.0	14	4.0	70.3	78.0	M20X1.5	4924 80.180
HSK-A 80	6.0	14	4.0	77.2	37.9	M20X1.5	4924 80.190
HSK-A 80	6.0	14	4.0	71.3	78.0	M20X1.5	4924 80.200
HSK-A 100	2.5	16	4.0	53.0	9.2	M24X1.5	4924 100.010
HSK-A 100	2.5	16	4.0	63.9	78.0	M24X1.5	4924 100.020
HSK-A 100	3.0	16	4.0	53.7	9.9	M24X1.5	4924 100.030
HSK-A 100	3.0	16	4.0	64.6	78.0	M24X1.5	4924 100.040
HSK-A 100	4.0	16	4.0	63.3	19.5	M24X1.5	4924 100.050
HSK-A 100	4.0	16	4.0	63.3	78.0	M24X1.5	4924 100.060
HSK-A 100	5.0	16	4.0	63.8	20.0	M24X1.5	4924 100.070
HSK-A 100	5.0	16	4.0	64.2	20.4	M24X1.5	4924 100.090
HSK-A 100	5.0	16	4.0	63.3	78.0	M24X1.5	4924 100.100
HSK-A 100	5.0	16	4.0	65.4	21.6	M24X1.5	4924 100.110
HSK-A 100	5.0	16	4.0	65.8	22.0	M24X1.5	4924 100.130
HSK-A 100	5.0	16	4.0	65.3	78.0	M24X1.5	4924 100.140
HSK-A 100	5.0	16	4.0	69.2	25.4	M24X1.5	4924 100.150
HSK-A 100	5.0	16	4.0	68.3	78.0	M24X1.5	4924 100.160
HSK-A 100	6.0	16	4.0	68.6	24.8	M24X1.5	4924 100.170
HSK-A 100	6.0	16	4.0	72.3	78.0	M24X1.5	4924 100.180
HSK-A 100	6.0	16	4.0	64.6	20.8	M24X1.5	4924 100.190
HSK-A 100	6.0	16	4.0	73.3	78.0	M24X1.5	4924 100.200

Power milling with

PINLOCK

**Volume machining without tool drawout:
perfect combination of HPC clamping chuck with
Gührojet cooling and PinLock drawout safety**



PINLOCK

- no tool drawout;
no component damage
- process reliable
- simple handling
- standard milling tools therefore
no licenses required
- for long tool life and best
surface quality

GÜHROJET

Thanks to the application of a PinLock clamping sleeve with securing pin any drawout of the applied standard milling tools with HB shank to DIN 6535 is safely prevented. The combination of HPC clamping technology with perfect concentricity and the efficient Gührojet peripheral cooling achieves, until now, unachieved metal removal rates, tool life and surface quality. All this with standard tools and absolute protection against unwanted drawout effects.





Induction shrink fit system GSS 2000

SIMPLE, QUICK AND SECURE TOOL CLAMPING



EFFICIENT OPERATION

The turntable allows simultaneous preparation, heating and cooling of the shrink fit chucks. Subsequently, there is no waiting time, tool clamping is seamless and with maximum efficiency.



QUICK COOLING

The water-cooled cooling elements cool down the shrink fit chuck quickly and safely. The shrink fit chuck remains clean and dry, so that it can be applied again without drying and without rusting. Hot spots remain safely screened during the cooling process in order to prevent burns.



SAFE SHRINK FITTING

The minimal heating of the shrink fit chuck ensures maximum operating safety on the one hand, on the other the controlled heating ensures the long life of the shrink fit chuck.



ALL UNDER CONTROL

Practical locations and compartments provide room for accessories such as stop discs or gloves in close proximity to the equipment. Thus all the necessary components are always at hand.



THE CONTROL PANEL

The clear control panel with display makes the operation of the GSS 2000 very user-friendly.



SIMPLE OPERATION

The movement of the spindle and its heating is a single handed operation. Tool clamping cannot be simpler and quicker!





HIGH-PERFORMANCE SPINDLE
hence quick change time



OVERHEATING PROTECTION
for holder



AUTOMATIC MODE
possible (equipment automati-
cally selects the correct heating
programme)



ERROR DETECTION
choosing wrong chuck/
programme



HEATING PROGRAMMES
for standard/reinforced and
very small holder/shrink fit
extensions

Shrink fit technology



GSS 2000 Basic

Article no. **4730**

Product information:

- 1-place system
- version 50/60 Hz / 400-480 V

Scope of delivery:

- incl. base system
- incl. induction coil art. no. 4743 / version 2008
- incl. 1 limit stop collar set art. no. 4769 / version 2008
- incl. 1 pair of gloves art. no. 4750

Suitable accessories separately available:

- HSK holders GSS 2000 art. no. 4761
- ISO taper holders GSS 2000 art. no. 4762



Article no.	4730
Order no.	4730 10.000

Europa Version

GSS 2000 Eco-Plus

Article no. **4752**

Product information:

- 1-place system
- Europe version 50/60 Hz / 400-480 V, SpeedCooler 230V
- US version 50/60 Hz / 400-480 V, SpeedCooler 115V

Scope of delivery:

- incl. base system
- incl. induction coil art. no. 4743 / version 2008
- incl. 1 limit stop collar set art. no. 4769 / version 2008
- incl. SpeedCooler art. no. 4747
- incl. 1 pair of gloves art. no. 4750
- with integrated SpeedCooler manager

Suitable accessories separately available:

- HSK holders GSS 2000 art. no. 4761
- ISO taper holders GSS 2000 art. no. 4762



Article no.	4752
Order no.	4752 10.000
	4752 20.000

Europa Version
US Version

Shrink fit technology



GSS 2000 Comfort version

Article no. **4742**

Product information:

- 3-station system with turntable
- Europe version 50/60 Hz / 400-480 V, SpeedCooler 230V
US version 50/60 Hz / 400-480 V, SpeedCooler 115V

Scope of delivery:

- incl. base system with turntable
- incl. induction coil art. no. 4743 / version 2008
- incl. 1 limit stop collar set art. no. 4769 / version 2008
- incl. SpeedCooler art. no. 4747
- incl. 1 pair of gloves art. no. 4750
- with integrated SpeedCooler manager

Suitable accessories separately available:

- HSK holders GSS 2000 art. no. 4745
- ISO taper holders GSS 2000 art. no. 4744



Article no. **4742**

	Article no.	4742
		Order no.
Europa Version		4742 10.000
US Version		4742 20.000

Shrink fit technology



HSK holders GSS 2000

Article no. **4761**

Product information:

- for GSS 2000 Basic and ECO Plus art. no. 4730 and 4752
- holders for HSK shrink fit chucks



Article no. **4761**

for form A/C/E		Order no.
HSK32		4761 32.000
HSK40		4761 40.000
HSK50		4761 50.000
HSK63		4761 63.000
HSK80		4761 80.000
HSK100		4761 100.000

HSK holders GSS 2000

Article no. **4745**

Product information:

- for GSS 2000 Comfort Plus art. no. 4742
- for turn-table for holding 3 SK or MAS/BT shrink fit chucks each



Article no. **4745**

for form A/C/E		Order no.
HSK32		4745 32.000
HSK40		4745 40.000
HSK50		4745 50.000
HSK63		4745 63.000
HSK80		4745 80.000
HSK100		4745 100.000

Shrink fit technology



ISO taper holders GSS 2000

Article no. **4762**

Product information:

- for GSS 2000 Basic and ECO Plus art. no. 4730 and 4752
- holders can also be used for MAS/BT and CAT shrink fit chucks



Article no. **4762**

for SK/BT/CAT		Order no.
SK-BT-CAT-30		4762 30.000
SK-BT-CAT-40		4762 40.000
SK-BT-CAT-50		4762 50.000

ISO taper holders GSS 2000

Article no. **4744**

Product information:

- for GSS 2000 Comfort Plus art. no. 4742
- holders can also be used for MAS/BT and CAT shrink fit chucks
- for turntables to hold max. 3 shrink fit chucks



Article no. **4744**

for SK/BT/CAT		Order no.
SK-BT-CAT-30		4744 30.000
SK-BT-CAT-40		4744 40.000
SK-BT-CAT-50		4744 50.000

Shrink fit technology



Limit stop collars

Article no. **4769**

Product information:

- for induction coil
- suitable for all GSS systems
- for extra short standard shrink fit chucks with Code no.,100



Article no. **4769**

for tool Ø mm	Order no.
3-5	4769 5.000
6-12	4769 12.000
6-12	4769 12.100
14-16	4769 16.000
18-20	4769 20.000
14-20	4769 20.100
25-32	4769 32.000
25-32	4769 32.100

Cooling adaptor set, complete

Article no. **4419**

Product information:

- cooling adaptor set for shrink fit system GSS 2000 Comfort Plus and ECO Plus art. no. 4742 and 4752
- for inserting in the cooling adaptor Ø14-16, in order to effectively and safely cool the small shrink fit holders with clamping diameter Ø 3-5

Shrink fit technology



Article no. **4419**

Ø range mm	Order no.
3-5	4419 5.000



Induction coil

Article no. **4743**

Product information:

- for GSS 2000
- HSS for Ø 6...32 mm, carbide for Ø 3...32 mm



Article no. **4743**

Ø range mm	Order no.
3..32	4743 32.000

Induction unit

Article no. **4757**

Product information:

- power electronics for shrink fit system
Version 50/60 Hz / 400–480 V



Article no. **4757**

Complete set	Order no.
	4757 1.000

Shrink fit technology



System cart

Article no. **4748**

Product information:

for GSS 2000 • for mobile and stationary application • continuous Ø-range



Article no. **4748**

Order no.

4748 1.000

Swivel compartments for GSS 2000

Article no. **4763**

Product information:

- for the clean storage of GSS shrink fit system accessories, i.e. limit stop washers, gloves, measuring instruments etc.
- for GSS 2000 Comfort Plus and ECO Plus art. no. 4742 and 4752

Scope of delivery:

- swivel compartment does not include accessories shown



Shrink fit technology

Article no. **4763**

Order no.

4763 1.000



Tongs

Article no. **4749**

Product information:
for the safe handling of hot tools



Article no. **4749**

Order no.
4749 1.000

Protective gloves

Article no. **4750**

Product information:
kevlar gloves providing protection against sharp cutting edges and high temperatures • as specified for all shrink fit applications



Article no. **4750**

Order no.
4750 1.000

Shrink fit technology



SpeedCooler cooling system

Article no. **4747**

Product information:

- for GSS 2000 Comfort Version and Eco-Plus
- Europe version 50/60 Hz, 230 V
- US Version 50/60 Hz, 115 V



Article no. **4747**

	Order no.
Europa Version	4747 1.000
US Version	4747 2.000

Speed Cooler manager

Article no. **4759**

Product information:

- for automatic switch on and off of the SpeedCooler
- preserves the cooling system and reduce the service intervals
- Europe version 50/60 Hz, 230 V
- US Version 50/60 Hz, 115 V



Article no. **4759**

	Order no.
Europa Version	4759 1.000
US Version	4759 2.000

Shrink fit technology



Coolant protection

Article no. **4767**

Product information:

- for GSS cooling systems
Contents: 2 litres



Article no. **4767**

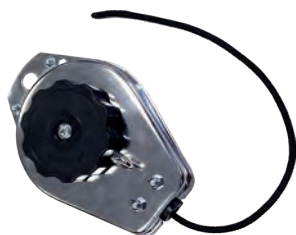
Order no.
4767 1.000

Cable hoist

Article no. **4746**

Product information:

- to relieve the coil weight on the guide pillar



Article no. **4746**

Order no.
4746 1.000

Shrink fit technology



Induction shrink fit system GSS 3001

SETTING, SHRINK FITTING AND MEASURING WITH ONE SYSTEM



SHRINK FIT PROCESS

Vapours produced during the shrink fit process are removed and filtered under controlled conditions by the fume extraction system.

During the shrink fit process the tool is pre-set to the required length with the assistance of an adjustment rod.



QUICK COOLING

The water-cooled cooling elements cool down the shrink fit chuck quickly and safely. The shrink fit chuck remains clean and dry, so that it can be applied again without drying and without rusting. Hot spots remain safely screened during the cooling process in order to prevent burns.



SAFE SHRINK FITTING

The minimal heating of the shrink fit chuck ensures maximum operating safety on the one hand, on the other the controlled heating ensures the long life of the shrink fit chuck.



LABEL PRINTER

Print data such as article no., current setting dimension, date, operator etc. on an adhesive label for your pre-set tool.



USABILITY SOFTWARE

Intuitive menu navigation similar to the well-established Gühring TM-Software GTMS via touch-screen monitor.



CODIER-CHIP

The read and write function of the Codier-Chip art. no. 4955 simplifies tool identification. Tool life can be managed.





YOU BENEFIT FROM:



HIGH ECONOMIC EFFICIENCY
thanks to effective operation mode



FULL TRANSPARENCY
due to process analysis



ABSOLUTELY USER-FRIENDLY



Induction shrink fit system GSS 5000

YOU CAN'T GET MORE INTO A SYSTEM!

In addition to the functions pre-setting, shrink fitting and measuring GSS 5000 also offers the possibility of a fully automatic cutting edge form recognition and length presetting. Depending on the configuration a measuring range up to 800 mm and a measuring diameter up to 600 mm can be covered.

GSS 5000
can be
adapted to
customer
requirements.



Shrink fit technology



Shrink fit technology



CONFIGURATION OF GÜHROSync SYNCHRO TAPPING CHUCKS WITH STRAIGHT SHANK FOR INTERNAL COOLING

GÜHROSync

Hydraulic synchro tapping chucks with increased clamping force

Shrink fit chucks

- 4736** HSK-A **4221** MAS-BT
- 4726** TSG 3000 HSK-A **4299** HSK-A
- 4758** HSK-C **4267** HSK-C
- 4738** ISO taper **4213** ISO taper

4949 Coolant supply set HSK-A for conventional cooling



Hydraulic synchro tapping chucks
4601 HSK-A

4925 Pull studs for ISO taper
4926



Hydraulic synchro tapping chucks
4576 ISO taper

4927 Pull studs for MAS/BT
4928



Hydraulic synchro tapping chucks
4577



4525
Hydro-Ø 12 / Ø 20
Cylindrical hydraulic synchro tapping chucks Ø 20 with internal cooling



4364
Setting screws "face" synchro tapping chucks, with conventional int. cooling

4605 Reduction bush sealed

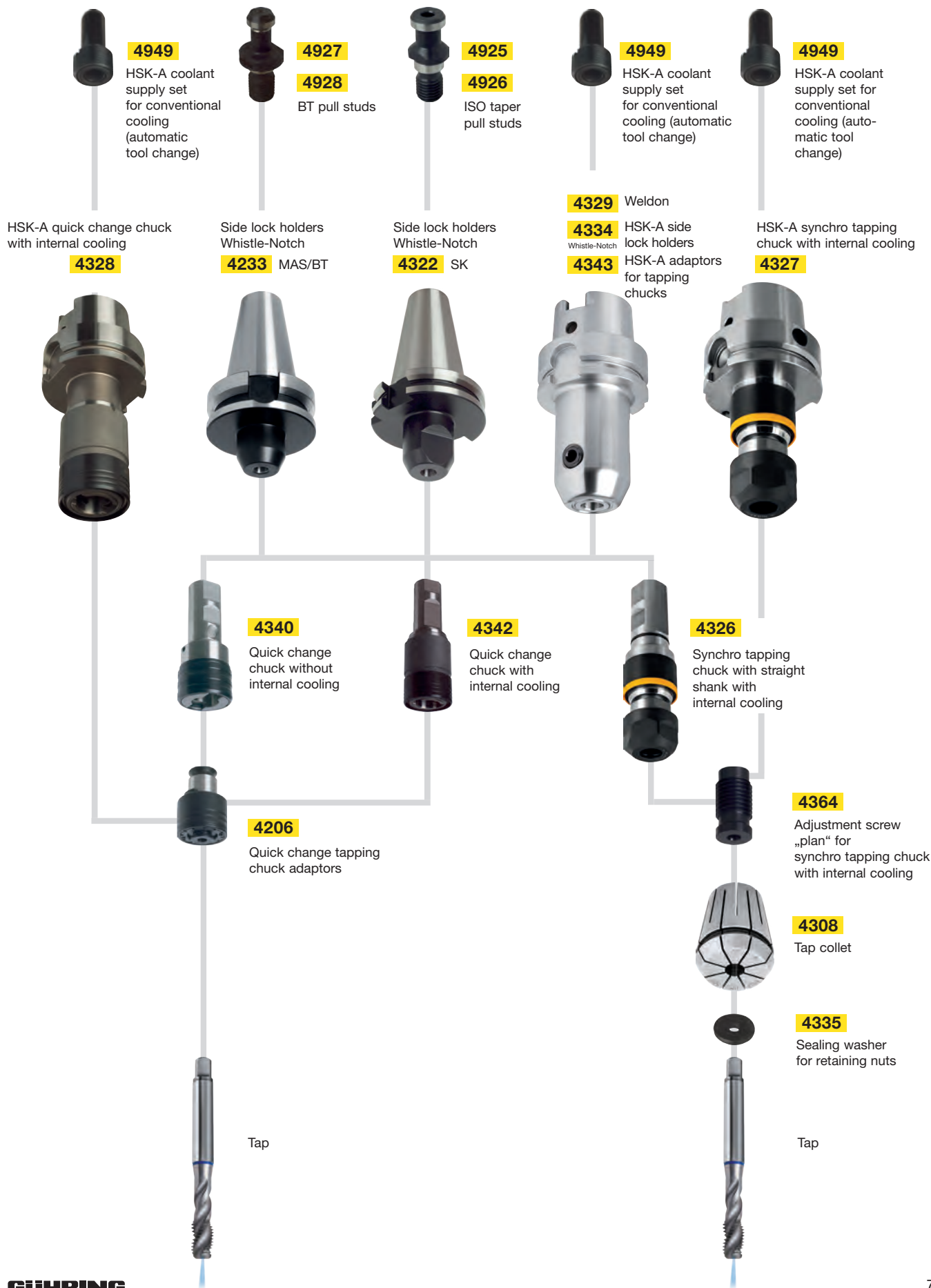
4606 GÜHROJET reduction bush

Threading tool:
shank diameter x square

Tapping chucks



CONFIGURATION OF SYNCHRO TAPPING CHUCKS FOR CONVENTIONAL COOLING



Tapping chucks



HSK-A hydraulic synchro tapping chucks with internal cooling

Article no. **4601**

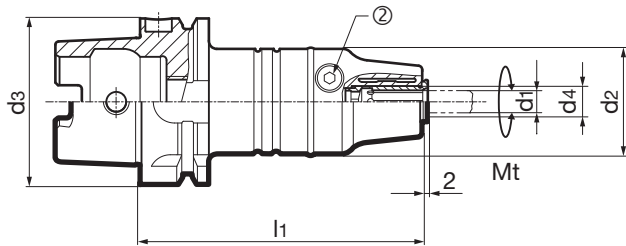


Product information:

- HSK-A according to ISO 12164-1 / DIN 69893-1
- balancing quality: G 6.3 / 15,000 rpm
- coolant pressure up to max. 80 bar
- compensates synchronisation errors
- minimum length compensation ± 0.3 mm in pushing and pulling direction
- convenient hydraulic clamping using reduction bushes with active drive

Suitable accessories separately available:

- adjusting screws “face” art. no. 4364
- adjustment key, art. no. 4912, type B for adjusting screws
- replacement clamping screw (2) art. no. 4241
- hexagonal key (2), art. no. 4912
- reduction bushes art. no. 4605 or 4606
- coolant supply set art. no. 4949



Article no. **4601**

d3	for threads	d1 mm	d2 mm	d4 mm	l1 mm	Mt max. Nm	②	②	kg	Order no.
HSK-A 63	M2-M12	2.8-10.0	40.0	12	106.5	26	4241 8.000	4912 4.600	1.2	4601 12.063
HSK-A 63	M4,5-M20	6.0-16.0	40.0	20	120.5	90	4241 10.003	4912 5.000	1.3	4601 20.063
HSK-A 100	M2-M12	2.8-10.0	40.0	12	113.0	26	4241 8.000	4912 4.600	2.6	4601 12.100
HSK-A 100	M4,5-M20	6.0-16.0	40.0	20	127.0	90	4241 10.003	4912 5.000	2.7	4601 20.100

ISO taper hydraulic synchro tapping chucks with internal cooling

Article no. **4576**

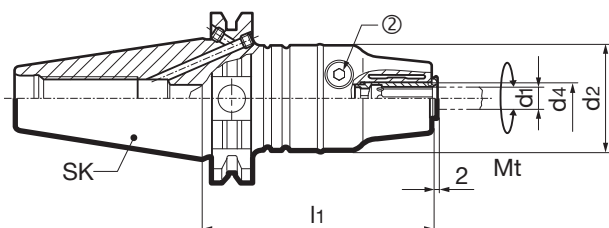


Product information:

- SK30 according to DIN ISO 7388-1
- SK40 according to DIN ISO 7388-1 form AD/AF
- balancing quality: G 6.3 / 15,000 rpm
- coolant pressure up to max. 80 bar
- compensates synchronisation errors
- minimum length compensation ± 0.3 mm in pushing and pulling direction
- convenient hydraulic clamping using reduction bushes with active drive

Suitable accessories separately available:

- adjusting screws “face” art. no. 4364
- adjustment key, art. no. 4912, type B for adjusting screws
- replacement clamping screw (2) art. no. 4241
- hexagonal key (2), art. no. 4912
- reduction bushes art. no. 4605 or 4606
- pull studs art. no. 4925, 4926



Article no. **4576**

SK	for threads	d1 mm	d2 mm	d4 mm	l1 mm	Mt max. Nm	②	②	kg	Order no.
SK 30	M2-M12	2.8-10.0	40.0	12	81.0	26	4241 8.000	4912 4.600	0.8	4576 12.030
SK 30	M4,5-M20	6.0-16.0	40.0	20	95.0	90	4241 10.003	4912 5.000	0.9	4576 20.030
SK 40	M2-M12	2.8-10.0	40.0	12	85.0	26	4241 8.000	4912 4.600	1.3	4576 12.040
SK 40	M4,5-M20	6.0-16.0	40.0	20	99.0	90	4241 10.003	4912 5.000	1.5	4576 20.040



MAS/BT hydraulic synchro tapping chucks with internal cooling

Article no. **4577**

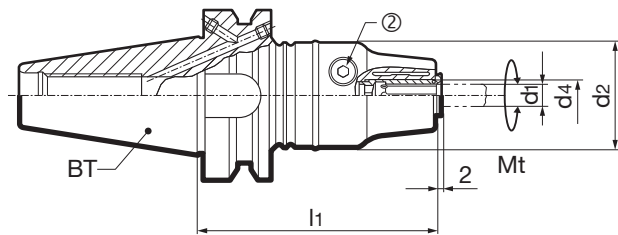


Product information:

- MAS/BT30 according to DIN ISO 7388-2 form JD without coolant supply over collar
- MAS/BT according to DIN ISO 7388-2 form JD/JF (AD/B)
- balancing quality: G 6.3 / 15,000 rpm
- coolant pressure up to max. 80 bar
- compensates synchronisation errors
- minimum length compensation ± 0.3 mm in pushing and pulling direction
- convenient hydraulic clamping using reduction bushes with active drive

Suitable accessories separately available:

- adjusting screws “face” art. no. 4364
- adjustment key, art. no. 4912, type B for adjusting screws
- replacement clamping screw (2) art. no. 4241
- hexagonal key (2), art. no. 4912
- reduction bushes art. no. 4605 or 4606
- BT pull studs art. nr. 4927, 4928



Article no. **4577**

BT	for threads	d1 mm	d2 mm	d4 mm	l1 mm	Mt max. Nm	②	②	kg	Order no.
BT 30	M2-M12	2.8-10.0	40.0	12	81.0	26	4241 8.000	4912 4.600	0.9	4577 12.030
BT 30	M4,5-M20	6.0-16.0	40.0	20	95.0	90	4241 10.003	4912 5.000	0.9	4577 20.030
BT 40	M2-M12	2.8-10.0	40.0	12	85.0	26	4241 8.000	4912 4.600	1.3	4577 12.040
BT 40	M4,5-M20	6.0-16.0	40.0	20	99.0	90	4241 10.003	4912 5.000	1.4	4577 20.040

Straight shank hydraulic synchro tapping chucks for internal cooling

Article no. **4525**

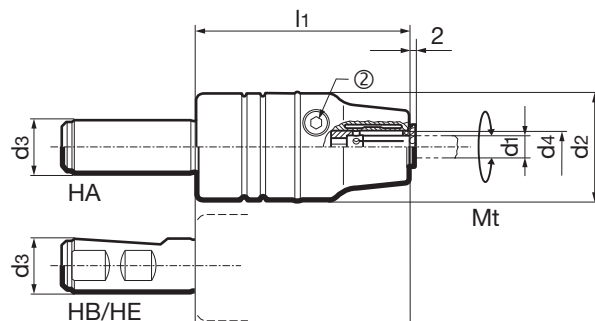


Product information:

- type 1: Straight shank similar to DIN 6535 HA
Type 2: Straight shank similar to DIN 1835 HB/HE
- balancing quality: G 6.3 / 15,000 rpm
- coolant pressure up to max. 80 bar
- compensates synchronisation errors
- minimum length compensation ± 0.3 mm in pushing and pulling direction
- convenient hydraulic clamping using reduction bushes with active drive
- adjusting screw enables 3 mm axial length readjustment

Suitable accessories separately available:

- adjusting screws “face” art. no. 4364
- adjustment key, art. no. 4912, type B for adjusting screws
- replacement clamping screw (2) art. no. 4241
- hexagonal key (2), art. no. 4912
- reduction bushes art. no. 4605 or 4606



Article no. **4525**

d3 h6 mm	Shank	for threads	d1 mm	d2 mm	d4 mm	l1 mm	Mt max. Nm	②	②	kg	Order no.
20	HA	M2-M12	2.8-10.0	40	12	80	26	4241 8.000	4912 4.600	0.7	4525 12.020
20	HA	M4,5-M20	6.0-16.0	40	20	94	90	4241 10.003	4912 5.000	0.8	4525 20.020
25	HB	M2-M12	2.8-10.0	40	12	80	26	4241 8.000	4912 4.600	0.7	4525 12.025
25	HB	M4,5-M20	6.0-16.0	40	20	94	90	4241 10.003	4912 5.000	1.0	4525 20.025

Tapping chucks



Reduction bushes, sealed, for hydraulic synchro tapping chucks

Article no. **4605**

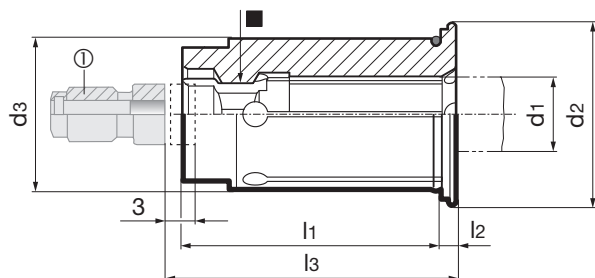


Product information:

- for clamping taps with square shank in GühringSynchro tapping chucks
- clamping Ø for tool shank tolerance h6-h9
- face side closed, therefore coolant leakproof for threading tools with IC
- positive drive of reduction bush in GühringSynchro tapping chucks
- position adjusting screw on the shank of the tap
- adjusting screw enables 3 mm axial length readjustment

Suitable accessories separately available:

- IC adjusting screw "face" (1), art. no. 4364
- adjustment key, art. no. 4912, type B for adjusting screws
- MQL axial adjusting screw, art. no. 4305



Tapping chucks

Article no.

4605

d3 mm	d1 mm	■ mm	Standard	d2 mm	l1 mm	l2 mm	l3 mm	①	for threads	Order no.
12	2.8	2.1	DIN	16.5	29.0	2.0			M2/M2.2/M2.5/M4	4605 2.812
12	3.5	2.7	DIN	16.5	29.0	2.0			M3/M4/M5	4605 3.512
12	4.0	3.2	JIS	16.5	29.0	2.0			M3/M3,5	4605 4.012
12	4.5	3.4	DIN	16.5	29.0	2.0	26.0	4364 5.020	M4/M6	4605 4.512
12	4.9	3.8	ANSI	16.5	29.0	2.0	26.0	4364 5.020	10-24 / 10-32	4605 4.912
12	5.0	4.0	JIS	16.5	29.0	2.0	26.0	4364 5.020	M4/M4,5/M5	4605 5.012
12	5.5	4.5	JIS	16.5	29.0	2.0	26.0	4364 5.020	M5	4605 5.512
12	6.0	4.9	DIN	16.5	29.0	2.0	26.0	4364 6.020	M4,5/M5/M6/M7/M8	4605 6.012
12	6.2	5.0	JIS	16.5	29.0	2.0	26.0	4364 6.020	M7/M8	4605 6.212
12	6.4	4.8	ANSI	16.5	29.0	2.0	26.0	4364 6.020	1/4-20 / 1/4-28	4605 6.412
12	7.0	5.5	DIN/JIS	16.5	29.0	2.0	26.0	4364 7.020	M7/M9/M10	4605 7.012
12	7.9	5.9	ANSI	16.5	29.0	2.0	26.0	4364 8.020	1/16-27 / 1/8-27	4605 7.912
12	8.0	6.2	DIN	16.5	29.0	2.0	31.0	4364 8.020	M8/M11	4605 8.012
12	8.2	6.1	ANSI	16.5	29.0	2.0	31.0	4364 8.020	7/16-14 / 7/16-20	4605 8.212
12	8.5	6.5	JIS	16.5	29.0	2.0	31.0	4364 8.020	M12	4605 8.512
12	9.0	7.0	DIN	16.5	29.0	2.0	32.0	4364 9.020	M9/M12	4605 9.012
12	9.3	6.9	ANSI	16.5	29.0	2.0	32.0	4364 9.020	1/2-13 / 1/2-20	4605 9.312
12	9.6	7.2	ANSI	16.5	29.0	2.0	33.0	4364 9.020	3/8-16 / 3/8-24	4605 9.612
12	10.0	8.0	DIN	16.5	29.0	2.0	36.0	4364 10.020	M10	4605 10.012
12	5.5	4.1	ANSI	16.5	29.0	2.0	26.0	4364 5.020	12-24 / 12-28	4605 15.512
12	6.0	4.5	JIS	16.5	29.0	2.0	26.0	4364 6.020	M6	4605 16.012
12	8.0	6.5	JIS	16.5	29.0	2.0	31.0	4364 8.020	M11	4605 18.012
12	8.0	6.0	ANSI	16.5	29.0	2.0	31.0	4364 8.020	5/16-18 / 5/16-24	4605 28.012
20	6.0	4.9	DIN	24.1	34.0	2.0	26.0	4364 6.032	M4,5/M5/M6/M7/M8	4605 6.020
20	6.2	5.0	JIS	24.1	34.0	2.0	26.0	4364 6.032	M7/M8	4605 6.220
20	6.4	4.8	ANSI	24.1	34.0	2.0	26.0	4364 6.032	1/4-20 / 1/4-28	4605 6.420
20	7.0	5.5	DIN/JIS	24.1	34.0	2.0	26.0	4364 7.032	M7/M9/M10	4605 7.020
20	7.9	5.9	ANSI	24.1	34.0	2.0	34.0	4364 8.032	1/16-27 / 1/8-27	4605 7.920
20	8.0	6.2	DIN	24.1	34.0	2.0	31.0	4364 8.032	M8/M11	4605 8.020
20	8.2	6.1	ANSI	24.1	34.0	2.0	31.0	4364 8.032	7/16-14 / 7/16-20	4605 8.220
20	8.5	6.5	JIS	24.1	34.0	2.0	31.0	4364 8.032	M12	4605 8.520
20	9.0	7.0	DIN	24.1	34.0	2.0	32.0	4364 9.032	M9/M12	4605 9.020
20	9.3	6.9	ANSI	24.1	34.0	2.0	32.0	4364 9.032	1/2-13 / 1/2-20	4605 9.320
20	9.6	7.2	ANSI	24.1	34.0	2.0	33.0	4364 9.032	3/8-16 / 3/8-24	4605 9.620
20	10.0	8.0	DIN	24.1	34.0	2.0	36.0	4364 10.032	M10	4605 10.020
20	10.5	8.0	JIS	24.1	34.0	2.0	36.0	4364 10.032	M14	4605 10.520
20	10.8	8.1	ANSI	24.1	34.0	2.0	35.0	4364 10.032	9/16-12 / 9/16-18	4605 10.820
20	11.0	9.0	DIN	24.1	34.0	2.0	37.0	4364 11.032	M14	4605 11.020
20	12.0	9.0	DIN	24.1	34.0	2.0	37.0	4364 11.032	M16	4605 12.020
20	12.1	9.1	ANSI	24.1	34.0	2.0	36.0	4364 11.032	5/8-11 / 5/8-18	4605 12.120
20	12.5	10.0	JIS	24.1	34.0	2.0	38.0	4364 11.032	M16	4605 12.520
20	13.0	10.0	JIS	24.1	34.0	2.0	38.0	4364 11.032	M17	4605 13.020
20	14.0	11.0	DIN/JIS	24.1	34.0	2.0	39.0	4364 14.032	M18	4605 14.020
20	14.2	10.6	ANSI	24.1	34.0	2.0	38.0	4364 14.032	1/4-18	4605 14.220
20	14.9	11.2	ANSI	24.1	34.0	2.0	39.0	4364 14.032	3/4-10 / 3/4-16	4605 14.920
20	15.0	12.0	JIS	24.1	34.0	2.0	40.0	4364 16.032	M20	4605 15.020
20	16.0	12.0	DIN	24.1	34.0	2.0	41.0	4364 16.032	M20	4605 16.020
20	8.0	6.5	JIS	24.1	34.0	2.0	31.0	4364 8.032	M11	4605 18.020



									Article no.	4605
d3 mm	d1 mm	■ mm	Standard	d2 mm	l1 mm	l2 mm	l3 mm	①	for threads	Order no.
20	6.0	4.5	JIS	24.1	34.0	2.0	26.0	4364 6.032	M6	4605 26.020
20	8.0	6.0	ANSI	24.1	34.0	2.0	31.0	4364 8.032	5/16-18 / 5/16-24	4605 28.020

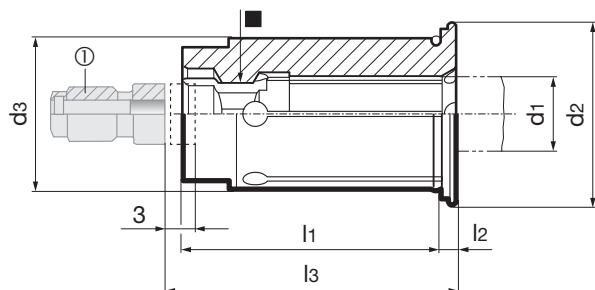


Product information:

- for clamping taps with square shank in Gühring synchro tapping chucks
- clamping Ø for tool shank tolerance h6-h9
- with coolant slots for peripheral cooling
- positive drive of reduction bush in Gühring synchro tapping chucks
- position adjusting screw on the shank of the tap
- adjusting screw enables 3 mm axial length readjustment

Suitable accessories separately available:

- IC adjusting screw "face" (1), art. no. 4364
- adjustment key, art. no. 4912, type B for adjusting screws
- MQL axial adjusting screw, art. no. 4305



Article no.

4606

d3 mm	d1 mm	■ mm	Standard	d2 mm	l1 mm	l2 mm	l3 mm	①	for threads	Order no.
12	2.8	2.1	DIN	16.5	29.0	2.0			M2/M2.2/M2.5/M4	4606 2.812
12	3.5	2.7	DIN	16.5	29.0	2.0			M3/M4/M5	4606 3.512
12	3.5	2.7	ANSI	16.5	29.0	2.0			6-32 / 6-40	4606 3.612
12	4.0	3.2	JIS	16.5	29.0	2.0			M3/M3,5	4606 4.012
12	4.2	3.3	ANSI	16.5	29.0	2.0			8-32 / 8-36	4606 4.312
12	4.5	3.4	DIN	16.5	29.0	2.0	26.0	4364 5.020	M4/M6	4606 4.512
12	4.9	3.8	ANSI	16.5	29.0	2.0	26.0	4364 5.020	10-24 / 10-32	4606 4.912
12	5.0	4.0	JIS	16.5	29.0	2.0	26.0	4364 5.020	M4/M4,5/M5	4606 5.012
12	5.5	4.5	JIS	16.5	29.0	2.0	26.0	4364 5.020	M5	4606 5.512
12	6.0	4.9	DIN	16.5	29.0	2.0	26.0	4364 6.020	M4,5/M5/M6/M7/M8	4606 6.012
12	6.2	5.0	JIS	16.5	29.0	2.0	26.0	4364 6.020	M7/M8	4606 6.212
12	6.4	4.8	ANSI	16.5	29.0	2.0	26.0	4364 6.020	1/4-20 / 1/4-28	4606 6.412
12	7.0	5.5	DIN/JIS	16.5	29.0	2.0	26.0	4364 7.020	M7/M9/M10	4606 7.012
12	7.9	5.9	ANSI	16.5	29.0	2.0	31.0	4364 8.020	1/16-27 / 1/8-27	4606 7.912
12	8.0	6.2	DIN	16.5	29.0	2.0	31.0	4364 8.020	M8/M11	4606 8.012
12	8.2	6.1	ANSI	16.5	29.0	2.0	31.0	4364 8.020	7/16-14 / 7/16-20	4606 8.212
12	8.5	6.5	JIS	16.5	29.0	2.0	31.0	4364 8.020	M12	4606 8.512
12	9.0	7.0	DIN	16.5	29.0	2.0	32.0	4364 9.020	M9/M12	4606 9.012
12	9.3	6.9	ANSI	16.5	29.0	2.0	32.0	4364 9.020	1/2-13 / 1/2-20	4606 9.312
12	9.6	7.2	ANSI	16.5	29.0	2.0	33.0	4364 9.020	3/8-16 / 3/8-24	4606 9.612
12	10.0	8.0	DIN	16.5	29.0	2.0	36.0	4364 10.020	M10	4606 10.012
12	5.5	4.1	ANSI	16.5	29.0	2.0	26.0	4364 5.020	12-24 / 12-28	4606 15.512
12	6.0	4.5	JIS	16.5	29.0	2.0	26.0	4364 6.020	M6	4606 16.012
12	8.0	6.5	JIS	16.5	29.0	2.0	31.0	4364 8.020	M11	4606 18.012
12	8.0	6.0	ANSI	16.5	29.0	2.0	31.0	4364 8.020	5/16-18 / 5/16-24	4606 28.012
20	6.0	4.9	DIN	24.1	34.0	2.0	26.0	4364 6.032	M4,5/M5/M6/M7/M8	4606 6.020
20	6.2	5.0	JIS	24.1	34.0	2.0	26.0	4364 6.032	M7/M8	4606 6.220
20	6.4	4.8	ANSI	24.1	34.0	2.0	26.0	4364 6.032	1/4-20 / 1/4-28	4606 6.420
20	7.0	5.5	DIN/JIS	24.1	34.0	2.0	26.0	4364 7.032	M7/M9/M10	4606 7.020
20	7.9	5.9	ANSI	24.1	34.0	2.0	31.0	4364 8.032	1/16-27 / 1/8-27	4606 7.920
20	8.0	6.2	DIN	24.1	34.0	2.0	31.0	4364 8.032	M8/M11	4606 8.020
20	8.2	6.1	ANSI	24.1	34.0	2.0	31.0	4364 8.032	7/16-14 / 7/16-20	4606 8.220
20	8.5	6.5	JIS	24.1	34.0	2.0	31.0	4364 8.032	M12	4606 8.520
20	9.0	7.0	DIN	24.1	34.0	2.0	32.0	4364 9.032	M9/M12	4606 9.020
20	9.3	6.9	ANSI	24.1	34.0	2.0	32.0	4364 9.032	1/2-13 / 1/2-20	4606 9.320
20	9.6	7.2	ANSI	24.1	34.0	2.0	33.0	4364 9.032	3/8-16 / 3/8-24	4606 9.620
20	10.0	8.0	DIN	24.1	34.0	2.0	36.0	4364 10.032	M10	4606 10.020
20	10.5	8.0	JIS	24.1	34.0	2.0	36.0	4364 10.032	M14	4606 10.520
20	10.8	8.1	ANSI	24.1	34.0	2.0	35.0	4364 10.032	9/16-12 / 9/16-18	4606 10.820
20	11.0	9.0	DIN	24.1	34.0	2.0	37.0	4364 11.032	M14	4606 11.020
20	12.0	9.0	DIN	24.1	34.0	2.0	37.0	4364 11.032	M16	4606 12.020
20	12.1	9.1	ANSI	24.1	34.0	2.0	36.0	4364 11.032	5/8-11 / 5/8-18	4606 12.120
20	12.5	10.0	JIS	24.1	34.0	2.0	38.0	4364 11.032	M16	4606 12.520
20	13.0	10.0	JIS	24.1	34.0	2.0	38.0	4364 11.032	M17	4606 13.020
20	14.0	11.0	DIN/JIS	24.1	34.0	2.0	39.0	4364 14.032	M18	4606 14.020
20	14.2	10.6	ANSI	24.1	34.0	2.0	38.0	4364 14.032	1/4-18	4606 14.220
20	14.9	11.2	ANSI	24.1	34.0	2.0	39.0	4364 14.032	3/4-10 / 3/4-16	4606 14.920
20	15.0	12.0	JIS	24.1	34.0	2.0	40.0	4364 16.032	M20	4606 15.020

Tapping chucks



Article no.

4606

d3 mm	d1 mm	■ mm	Standard	d2 mm	l1 mm	l2 mm	l3 mm	①	for threads	Order no.
20	16.0	12.0	DIN	24.1	34.0	2.0	41.0	4364 16.032	M20	4606 16.020
20	8.0	6.5	JIS	24.1	34.0	2.0	31.0	4364 8.032	M11	4606 18.020
20	6.0	4.5	JIS	24.1	34.0	2.0	26.0	4364 6.032	M6	4606 26.020
20	8.0	6.0	ANSI	24.1	34.0	2.0	31.0	4364 8.032	5/16-18 / 5/16-24	4606 28.020



Adjusting screws “faces” for synchro tapping chucks with int. coolant

Article no. **4364**

Product information:

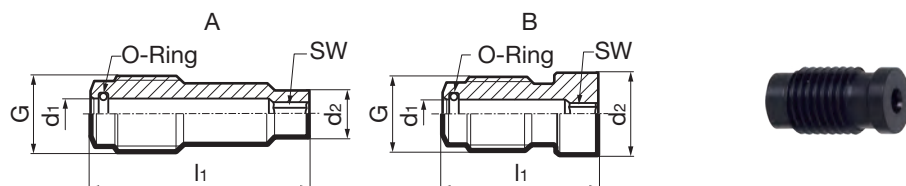
- for hydraulic synchro tapping chucks art. no. 4601, 4576, 4577 and 4525
- for synchro tapping chucks art. no. 4326 and 4327
- for conventional internal cooling
- with plane stop for standard shank ends
- position adjusting screw on the shank of the tap
- adjusting screw enables 3 mm axial length readjustment

Scope of delivery:

- with O-ring for secure seal

Suitable accessories separately available:

- adjustment key, art. no. 4912, type B for adjusting screws



Article no.

4364

Size	G	for shank Ø x ■ mm	d1 mm	d2 mm	l1 mm	SW mm	Type	Code no.	Order no.
ER20	M8 x 1	<6	3.6	3.3	23.7	2.0	A	5.020	4364 5.020
ER20	M8 x 1	6x4,9	3.6	4.8	23.7	2.5	A	6.020	4364 6.020
ER20	M8 x 1	7x5,5	3.6	5.4	23.7	2.5	A	7.020	4364 7.020
ER20	M8 x 1	8x6,2	3.6	5.8	18.7	2.5	A	8.020	4364 8.020
ER20	M8 x 1	9x7	3.6	6.9	17.7	2.5	A	9.020	4364 9.020
ER20	M8 x 1	10x8	3.6	7.8	13.7	2.5	B	10.020	4364 10.020
ER20	M8 x 1	11x9	3.6	8.8	14.8	2.5	B	11.020	4364 11.020
ER32	M10X1	6x4,9	4.1	3.3	33.0	2.0	A	5.032	4364 5.032
ER32	M10X1	6x4,9	4.1	4.8	34.0	3.0	A	6.032	4364 6.032
ER32	M10X1	7x5,5	4.1	5.4	33.8	3.0	A	7.032	4364 7.032
ER32	M10X1	8x6,2	4.1	6.1	28.8	3.0	A	8.032	4364 8.032
ER32	M10X1	9x7	4.1	6.9	28.2	3.0	A	9.032	4364 9.032
ER32	M10X1	10x8	4.1	7.8	23.8	3.0	A	10.032	4364 10.032
ER32	M10X1	11x9 & 12x9	4.1	8.8	22.9	3.0	A	11.032	4364 11.032
ER32	M10X1	14x11	4.1	10.8	20.6	3.0	B	14.032	4364 14.032
ER32	M10X1	16x12	4.1	11.8	19.6	3.0	B	16.032	4364 16.032
ER32	M10X1	18x14,5 & 20x16	4.1	14.3	18.0	3.0	B	18.032	4364 18.032



Synchro tapping chucks with straight shank and internal cooling

Article no. 4326



Product information:

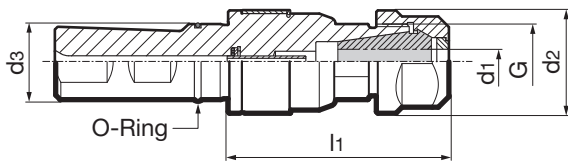
- combination shank similar to DIN 1835
- compensates synchronisation errors
- minimum length compensation ± 0.5 mm in pushing and pulling direction
- coolant pressure up to max. 80 bar

Scope of delivery:

- incl. sealed IC/ER clamping nut art. no. 4306 (*see torque)

Suitable accessories separately available:

- replacement IC/ER clamping nut, art. no. 4306
- thread tap collet chuck, art. no. 4308
- clamping key art. no. 4913
- sealing plug art. no. 4335
- adjusting screws "face" art. no. 4364
- adjustment key, art. no. 4912, type B for adjusting screws



Article no. 4326

d3 mm	Size	for threads	d1 mm	d2 mm	l1 mm	Torque Nm	G	kg	Order no.
25	ER20	M4-M14	4.0-11.0	34	73.0	35	M25 X1.5	0.5	4326 20.025
25	ER32	M4-M30	4.0-20.0	50	87.5	136	M40 X1.5	1.3	4326 32.025

HSK-A synchro tapping chucks with internal coolant

Article no. 4327



Product information:

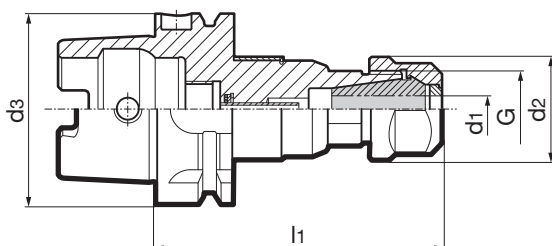
- HSK-A according to ISO 12164-1 / DIN 69893-1
- compensates synchronisation errors
- minimum length compensation ± 0.5 mm in pushing and pulling direction
- coolant pressure up to max. 80 bar

Scope of delivery:

- incl. sealed IC/ER clamping nut art. no. 4306 (*see torque)

Suitable accessories separately available:

- replacement IC/ER clamping nut, art. no. 4306
- thread tap collet chuck, art. no. 4308
- clamping key art. no. 4913
- sealing plug art. no. 4335
- coolant supply set art. no. 4949
- adjusting screws "face" art. no. 4364
- adjustment key, art. no. 4912, type B for adjusting screws



Article no. 4327

d3	Size	for threads	d1 mm	d2 mm	l1 mm	Torque Nm	G	kg	Order no.
HSK-A 63	ER20	M4-M14	4.0-11.0	34	95.5	35	M25 X1.5	0.5	4327 20.063
HSK-A 63	ER20	M4-M14	4.0-11.0	34	160.0	35	M25 X1.5	1.5	4327 20.163
HSK-A 63	ER32	M4-M30	4.0-20.0	50	109.0	136	M40 X1.5	1.5	4327 32.063
HSK-A 100	ER20	M4-M14	4.0-11.0	34	102.0	35	M25 X1.5	2.5	4327 20.100
HSK-A 100	ER32	M4-M30	4.0-20.0	50	115.5	136	M40 X1.5	2.7	4327 32.100

Tapping chucks

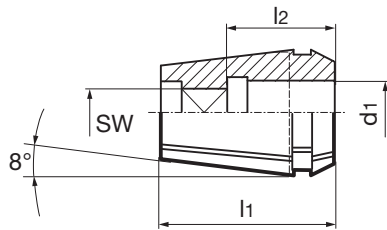


Tapping collets

Article no. **4308**

Product information:

- for clamping threading tools with square shank in synchro tapping chucks or collet chucks
- smaller Ø 4mm are clamped with collet, art. no. 4307 without sq. drive
- tightening torque see clamping nuts art. no. 4306
- clamping ranges:
 ER16: Ø 4.5 – Ø 8.0
 ER20: Ø 4.0 – Ø 11.0
 ER25: Ø 4.5 – Ø 12.0
 ER32: Ø 4.0 – Ø 20.0
 ER40: Ø 7.0 – Ø 22.0



Article no. **4308**

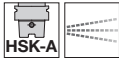
Size	for shank Ø d1 h9 mm	SW mm	l1 mm	l2 mm	Order no.
ER16	4.5	3.4	26.0	15	4308 4.516
ER16	5.5	4.3	27.5	18	4308 5.516
ER16	6.0	4.9	27.5	18	4308 6.016
ER16	7.0	5.5	27.5	18	4308 7.016
ER16	8.0	6.3	27.5	22	4308 8.016
ER20	4.0	3.2	31.5	15	4308 4.020
ER20	4.5	3.4	31.5	15	4308 4.520
ER20	5.5	4.3	31.5	18	4308 5.520
ER20	6.0	4.9	31.5	18	4308 6.020
ER20	7.0	5.5	31.5	18	4308 7.020
ER20	8.0	6.3	31.5	22	4308 8.020
ER20	9.0	7.1	31.5	22	4308 9.020
ER20	10.0	8.0	31.5	25	4308 10.020
ER20	11.0	9.0	31.5	25	4308 11.020
ER25	4.5	3.4	34.0	15	4308 4.525
ER25	5.5	4.3	34.0	18	4308 5.525
ER25	6.0	4.9	34.0	18	4308 6.025
ER25	7.0	5.5	34.0	18	4308 7.025
ER25	8.0	6.3	34.0	22	4308 8.025
ER25	9.0	7.1	34.0	22	4308 9.025
ER25	10.0	8.0	34.0	25	4308 10.025
ER25	11.0	9.0	34.0	25	4308 11.025
ER25	12.0	9.0	34.0	25	4308 12.025
ER32	4.0	3.2	40.0	15	4308 4.032
ER32	4.5	3.4	40.0	15	4308 4.532
ER32	5.5	4.3	40.0	18	4308 5.532
ER32	6.0	4.9	40.0	18	4308 6.032
ER32	7.0	5.5	40.0	18	4308 7.032
ER32	8.0	6.3	40.0	22	4308 8.032
ER32	9.0	7.1	40.0	22	4308 9.032
ER32	10.0	8.0	40.0	25	4308 10.032
ER32	11.0	9.0	40.0	25	4308 11.032
ER32	12.0	9.0	40.0	25	4308 12.032
ER32	14.0	11.2	40.0	25	4308 14.032
ER32	16.0	12.5	40.0	25	4308 16.032
ER32	18.0	14.5	40.0	25	4308 18.032
ER32	20.0	16.0	40.0	28	4308 20.032
ER40	7.0	5.5	46.0	18	4308 7.040
ER40	8.0	6.3	46.0	22	4308 8.040
ER40	9.0	7.1	46.0	22	4308 9.040
ER40	10.0	8.0	46.0	25	4308 10.040
ER40	11.0	9.0	46.0	25	4308 11.040
ER40	12.0	9.0	46.0	25	4308 12.040
ER40	14.0	11.2	46.0	25	4308 14.040
ER40	16.0	12.5	46.0	25	4308 16.040
ER40	18.0	14.5	46.0	25	4308 18.040
ER40	20.0	16.0	46.0	28	4308 20.040
ER40	22.0	18.0	46.0	28	4308 22.040

Tapping chucks



HSK-A basic adaptors for tapping chucks

Article no. **4343**



Product information:

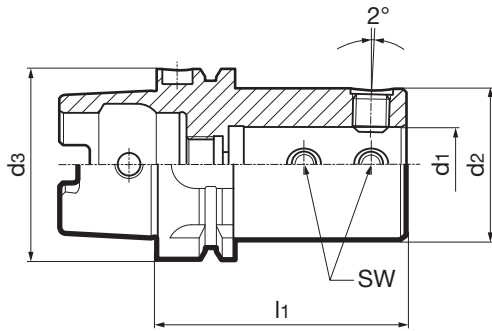
- HSK-A according to ISO 12164-1 / DIN 69893-1
- for quick change chucks and synchro tapping chucks with straight shank (except art. no. 4342)

Scope of delivery:

- clamping screw art. No. 4903 code no. 16.001

Suitable accessories separately available:

- coolant supply set art. no. 4949
- replacement clamping screw, art. no. 4903



Article no. **4343**

d3	d1 mm	d2 mm	l1 mm	SW mm	kg	Order no.
HSK-A 50	25	50	80	6	0.8	4343 25.050
HSK-A 63	25	50	82	6	1.2	4343 25.063
HSK-A 80	25	50	87	6	3.1	4343 25.080
HSK-A 100	25	50	89	6	2.8	4343 25.100

Quick change tapping chucks without internal coolant

Article no. **4340**

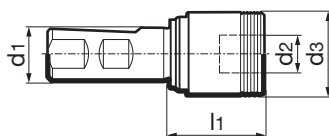


Product information:

- combination shank similar to DIN 1835
- bearing-led length compensation

Suitable accessories separately available:

- quick change tapping chucks art. no. 4206



Article no. **4340**

for threads	d1 mm	d2 mm	d3 mm	l1 mm	Tension/Pressure mm	Order no.
M3-M12	25	19	38.5	41.5	9,0	4340 19.025
M8-M20	25	31	55.3	63.7	9,0	4340 31.025



Quick change tapping chucks with internal coolant

Article no. **4342**

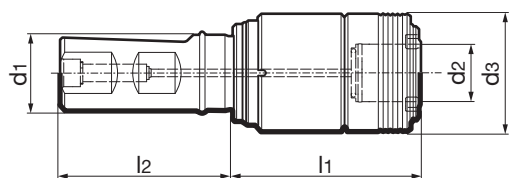


Product information:

- combination shank similar to DIN 1835
- sealed coolant functional elements
- coolant pressure max. 50 bar

Suitable accessories separately available:

- quick change tapping chucks art. no. 4206



Article no. **4342**

for threads	d1 mm	d2 mm	d3 mm	l1 mm	l2 mm	Tension/Pressure	Order no.
M 3-M12	25	19	39	62	57	7,5	4342 19.025
M 8-M20	25	31	60	98	57	10,0	4342 31.025

HSK-A quick change tapping chucks with internal coolant

Article no. **4328**

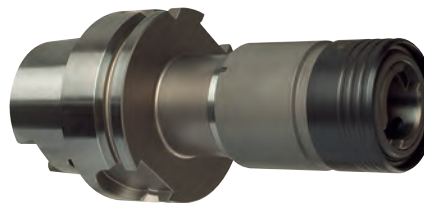
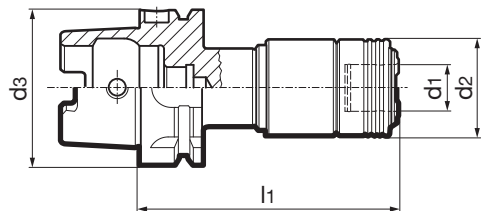


Product information:

- HSK-A according to ISO 12164-1 / DIN 69893-1
- bearing-led length compensation
- coolant pressure max. 50 bar

Suitable accessories separately available:

- quick change tapping chucks art. no. 4206



Article no. **4328**

d3	for threads	d1 mm	d2 mm	l1 mm	Tension/Pressure mm	Order no.
HSK-A 63	M3,5-M12	19	39	105	7,5	4328 19.063
HSK-A 63	M3,5-M20	31	60	140	10,0	4328 31.063



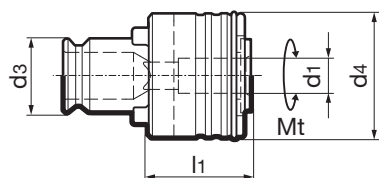
Quick change tapping chuck adaptors

Article no. 4206



Product information:

- suitable for HSS threading tools
- with safety clutch
- suitable for internal coolant supply max. 50 bar
- for solid carbide threading tools with a flute on the shank to ensure additional grip



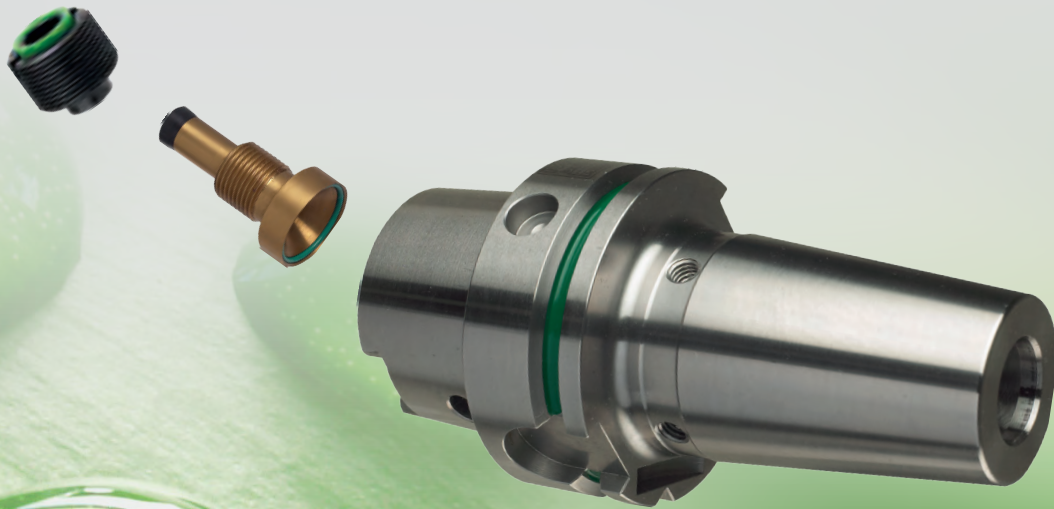
Article no.

4206

for thread	for shank \varnothing x \blacksquare d1 mm	d3 mm	Mt max. Nm	d4 mm	l1 mm	Order no.
M3-M12	2,2x1,8	19	32	32	25	4206 19.022
M3-M12	2,5x2,1	19	32	32	25	4206 19.025
M3-M12	2,8x2,1	19	32	32	25	4206 19.028
M3-M12	3,5x2,7	19	32	32	25	4206 19.035
M3-M12	4x3	19	32	32	25	4206 19.040
M3-M12	4,5x3,4	19	32	32	25	4206 19.045
M3-M12	5,5x4,5	19	32	32	25	4206 19.055
M3-M12	6x4,9	19	32	32	25	4206 19.060
M3-M12	7x5,5	19	32	32	25	4206 19.070
M3-M12	8x6,2	19	32	32	25	4206 19.080
M3-M12	9x7	19	32	32	25	4206 19.090
M3-M12	10x8	19	32	32	25	4206 19.100
M8-M20	6x4,9	31	120	50	34	4206 31.060
M8-M20	7x5,5	31	120	50	34	4206 31.070
M8-M20	8x6,2	31	120	50	34	4206 31.080
M8-M20	9x7	31	120	50	34	4206 31.090
M8-M20	10x8	31	120	50	34	4206 31.100
M8-M20	11x9	31	120	50	34	4206 31.110
M8-M20	12x9	31	120	50	34	4206 31.120
M8-M20	14x11	31	120	50	34	4206 31.140
M8-M20	16x12	31	120	50	34	4206 31.160

MQL

BY GÜHRING



1 MQL

BY GÜHRING

Our products for the MQL 1-channel technology are identified by this symbol.

Visual feature of the 1-channel system is the gold coloured MQL length setting screw.



2 MQL

BY GÜHRING

Our products for the MQL 2-channel technology are identified by this symbol.

Visual feature of the 2-channel system is the black coloured MQL length setting screw.





MQL SYSTEM FINDER

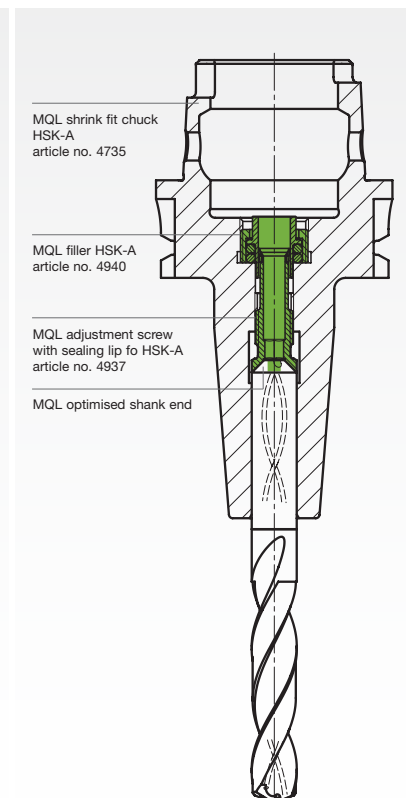
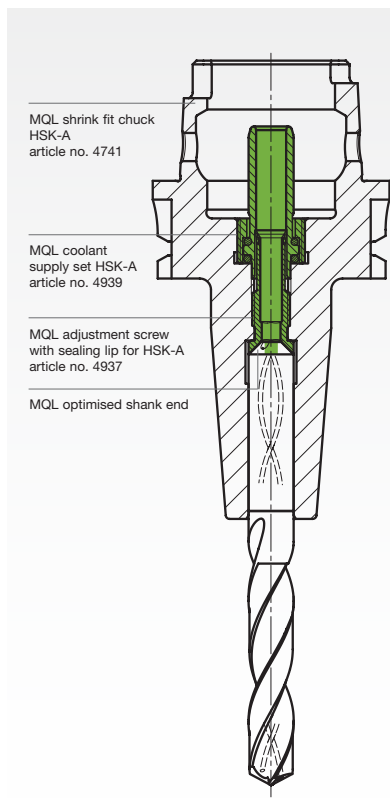
			HSK-A for automatic tool change	HSK-A for manual tool change
1 MQL BY GÜHRING	Hydraulic chucks		Art. no. 4210	Art. no. 4209
	Shrink fit chucks		Art. no. 4741	Art. no. 4735
	Synchro chucks		Art. no. 4330	Art. no. 4298
2 MQL BY GÜHRING	Hydraulic chucks		Art. no. 4612	Art. no. 4611
	Shrink fit chucks		Art. no. 4614	Art. no. 4613
	Synchro chucks		Art. no. 4341	Art. no. 4298

4:1

When selecting the tool holders please note: the ratio of cross-section A (mm²) of the supply pipe in the MQL 2-channel supply set to the sum of the cross-sections of the tool coolant duct exits should be maximum 4:1. This achieves quick reaction times when switching on the 2-channel MQL.

automatic tool change

manual tool change



MQL technology



CONFIGURATION OF GÜHROSYNC TAPPING CHUCKS FOR MQL



MQL shrink fit chucks
HSK-A
auto. tool change



man. tool change



MQL hydraulic tapping chucks
HSK-A
auto. tool change



man. tool change



4508
MQL coolant supply set
for single channel
HSK-A



MQL HSK-A hydraulic
synchro tapping chucks
for single channel
auto. tool change



4511
MQL coolant supply set
for 2 channel systems
HSK-A



MQL HSK-A hydraulic
synchro tapping chucks
for 2 channel systems
auto. tool change



4513
MQL coolant supply set
HSK-A (filler)



MQL HSK-A hydraulic
synchro tapping chucks
man. tool change



4524
MQL Hydro-Ø 12 / Ø 20
synchro tapping chucks with internal
cooling Ø 20



4305
MQL setting screws with internal cone
for MQL synchro tapping chucks



4605
Reduction bushes, sealed



4606
GÜHROJET reduction bushes




Threading tool with MQL shank:
shank diameter x square



CONFIGURATION OF MQL SYNCHRO TAPPING CHUCKS

4508 
Coolant supply set
for automatic tool change

4511 
MQL coolant supply set
for automatic tool change

4513 
MQL coolant supply set
for manual tool change



4330
HSK-A synchro
tapping chucks
for MQL single
channel systems
for automatic tool
change



4341
HSK-A synchro
tapping chucks
for MQL double
channel systems
for automatic tool
change



4298
HSK-A synchro
tapping chucks
for manual tool
change for MQL
single and double
channel systems



4305
MQL setting screw with internal taper
for MQL synchro tapping chucks



4308
tap collet



4335
sealing washer
for retaining nuts



tap



MQL 1-channel hydraulic chucks HSK-A (manual tool change)

Article no. 4209



Product information:

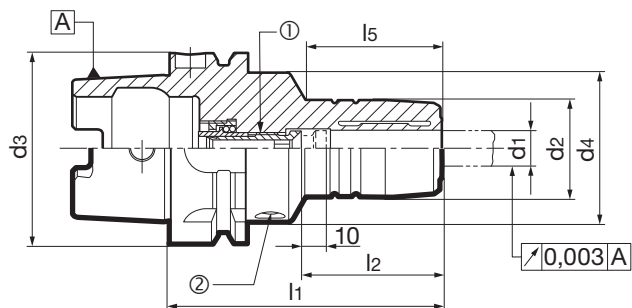
- HSK-A according to ISO 12164-1 / DIN 69893-1
- for MQL 1-channel systems, Gühring MQL identifiable by green colour ring
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- axial length adjustment

Scope of delivery:

- MQL length adjusting screw with sealing lip (1), art. no. 4937
- MQL 1-channel filler element, art. no. 4940

Suitable accessories separately available:

- hexagonal key (2), art. no. 4912
- replacement clamping screw (2) art. no. 4241
- MQL 1-channel filler element, art. no. 4940
- replacement sealing lip, art. no. 4617
- replacement MQL length adjusting screw with sealing lip (1), art. no. 4937



Article no. 4209

d3	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	l5 mm	①	②	②	Order no.
HSK-A 32	6	26.0	40.0	80.0	36.0	29.0	4937 6.032	4241 8.000	4912 4.000	4209 6.032
HSK-A 32	8	28.0	40.0	80.0	36.0	29.0	4937 8.032	4241 8.000	4912 4.000	4209 8.032
HSK-A 32	10	30.0	40.0	85.0	40.0	35.0	4937 10.032	4241 8.000	4912 4.000	4209 10.032
HSK-A 32	12	32.0	40.0	90.0	45.0	40.0	4937 12.032	4241 8.000	4912 4.000	4209 12.032
HSK-A 40	6	26.0	33.5	80.0	36.0	46.0	4937 6.040	4241 8.001	4912 4.000	4209 6.040
HSK-A 40	8	28.0	33.5	80.0	36.0	46.0	4937 8.040	4241 8.001	4912 4.000	4209 8.040
HSK-A 40	10	30.0	33.5	80.0	40.0	46.0	4937 10.040	4241 8.001	4912 4.000	4209 10.040
HSK-A 40	12	32.0	33.5	90.0	45.0	56.0	4937 12.040	4241 8.001	4912 4.000	4209 12.040
HSK-A 50	6	26.0	40.0	80.0	36.0	38.0	4937 6.050	4241 8.000	4912 4.000	4209 6.050
HSK-A 50	8	28.0	40.0	80.0	36.0	38.0	4937 8.050	4241 8.000	4912 4.000	4209 8.050
HSK-A 50	10	30.0	40.0	85.0	40.0	44.0	4937 10.050	4241 8.000	4912 4.000	4209 10.050
HSK-A 50	12	32.0	40.0	90.0	45.0	49.0	4937 12.050	4241 8.000	4912 4.000	4209 12.050
HSK-A 50	14	34.0	40.0	90.0	45.0	49.0	4937 14.050	4241 8.000	4912 4.000	4209 14.050
HSK-A 50	16	38.0	53.0	95.0	48.0	36.0	4937 16.050	4241 10.002	4912 5.000	4209 16.050
HSK-A 50	18	40.0	57.0	95.0	48.0	36.0	4937 18.050	4241 10.002	4912 5.000	4209 18.050
HSK-A 50	20	42.0	60.0	100.0	50.0	39.0	4937 20.050	4241 10.001	4912 5.000	4209 20.050
HSK-A 63	6	26.0	50.0	80.0	36.0	34.5	4937 6.100	4241 10.002	4912 5.000	4209 6.063
HSK-A 63	8	28.0	50.0	80.0	36.0	35.5	4937 8.100	4241 10.002	4912 5.000	4209 8.063
HSK-A 63	10	30.0	50.0	85.0	40.0	39.0	4937 10.100	4241 10.002	4912 5.000	4209 10.063
HSK-A 63	12	32.0	50.0	90.0	45.0	45.0	4937 12.100	4241 10.002	4912 5.000	4209 12.063
HSK-A 63	14	34.0	50.0	90.0	45.0	46.0	4937 14.100	4241 10.002	4912 5.000	4209 14.063
HSK-A 63	16	38.0	50.0	95.0	48.0	51.0	4937 16.100	4241 10.002	4912 5.000	4209 16.063
HSK-A 63	18	40.0	50.0	95.0	48.0	52.0	4937 18.100	4241 10.002	4912 5.000	4209 18.063
HSK-A 63	20	42.0	50.0	100.0	50.0	58.0	4937 20.100	4241 10.001	4912 5.000	4209 20.063
HSK-A 63	25	57.0	63.0	115.0	56.0	50.0	4937 25.100	4241 12.000	4912 6.000	4209 25.063
HSK-A 63	32	64.0	75.0	120.0	60.0	58.0	4937 32.100	4241 12.000	4912 6.000	4209 32.063
HSK-A 80	6	26.0	50.0	85.0	36.0	39.0	4937 6.100	4241 10.002	4912 5.000	4209 6.080
HSK-A 80	8	28.0	50.0	85.0	36.0	39.0	4937 8.100	4241 10.002	4912 5.000	4209 8.080
HSK-A 80	10	30.0	50.0	90.0	40.0	45.0	4937 10.100	4241 10.002	4912 5.000	4209 10.080
HSK-A 80	12	32.0	50.0	95.0	45.0	50.0	4937 12.100	4241 10.002	4912 5.000	4209 12.080
HSK-A 80	14	34.0	50.0	95.0	45.0	50.0	4937 14.100	4241 10.002	4912 5.000	4209 14.080
HSK-A 80	16	38.0	50.0	100.0	48.0	56.0	4937 16.100	4241 10.002	4912 5.000	4209 16.080
HSK-A 80	18	40.0	50.0	100.0	48.0	56.0	4937 18.100	4241 10.002	4912 5.000	4209 18.080
HSK-A 80	20	42.0	50.0	105.0	50.0	62.0	4937 20.100	4241 10.001	4912 5.000	4209 20.080
HSK-A 80	25	57.0	63.0	115.0	56.0	70.0	4937 25.100	4241 12.000	4912 6.000	4209 25.080
HSK-A 80	32	64.0	75.0	120.0	60.0	58.0	4937 32.100	4241 12.000	4912 6.000	4209 32.080
HSK-A 100	6	26.0	50.0	85.0	36.0	36.0	4937 6.100	4241 10.002	4912 5.000	4209 6.100
HSK-A 100	8	28.0	50.0	85.0	36.0	36.0	4937 8.100	4241 10.002	4912 5.000	4209 8.100
HSK-A 100	10	30.0	50.0	90.0	40.0	42.0	4937 10.100	4241 10.002	4912 5.000	4209 10.100
HSK-A 100	12	32.0	50.0	95.0	45.0	47.0	4937 12.100	4241 10.002	4912 5.000	4209 12.100
HSK-A 100	14	34.0	50.0	95.0	45.0	47.0	4937 14.100	4241 10.002	4912 5.000	4209 14.100
HSK-A 100	16	38.0	50.0	100.0	48.0	53.0	4937 16.100	4241 10.002	4912 5.000	4209 16.100
HSK-A 100	18	40.0	50.0	100.0	48.0	53.0	4937 18.100	4241 10.002	4912 5.000	4209 18.100
HSK-A 100	20	42.0	50.0	105.0	50.0	59.0	4937 20.100	4241 10.001	4912 5.000	4209 20.100
HSK-A 100	25	57.0	63.0	115.0	56.0	67.0	4937 25.100	4241 12.000	4912 6.000	4209 25.100
HSK-A 100	32	64.0	75.0	120.0	60.0	72.0	4937 32.100	4241 12.000	4912 6.000	4209 32.100

MQL technology



MQL 1-channel hydraulic chucks HSK-A (automatic tool change)

Article no. **4210**



Product information:

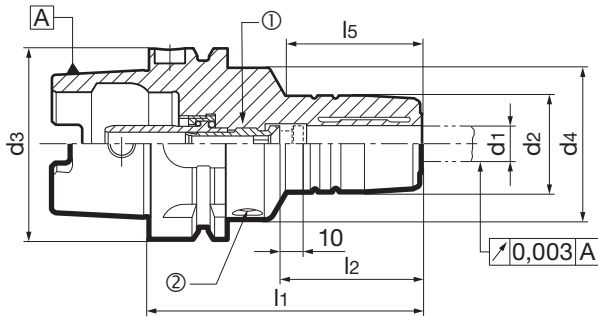
- HSK-A according to ISO 12164-1 / DIN 69893-1
- for MQL 1-channel systems, Gühring MQL identifiable by green colour ring
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- axial length adjustment

Scope of delivery:

- MQL length adjusting screw with sealing lip (1), art. no. 4937

Suitable accessories separately available:

- hexagonal key (2), art. no. 4912
- replacement clamping screw (2) art. no. 4241
- replacement MQL length adjusting screw with sealing lip (1), art. no. 4937
- MQL 1-channel transfer unit, art. no. 4939



Article no. **4210**

d3	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	l5 mm	①	②	②	Order no.
HSK-A 32	6	26.0	40.0	80.0	36.0	29.0	4937 6.032	4241 8.000	4912 4.000	4210 6.032
HSK-A 32	8	28.0	40.0	80.0	36.0	29.0	4937 8.032	4241 8.000	4912 4.000	4210 8.032
HSK-A 32	10	30.0	40.0	85.0	40.0	35.0	4937 10.032	4241 8.000	4912 4.000	4210 10.032
HSK-A 32	12	32.0	40.0	90.0	45.0	40.0	4937 12.032	4241 8.000	4912 4.000	4210 12.032
HSK-A 40	6	26.0	33.5	80.0	36.0	46.0	4937 6.040	4241 8.001	4912 4.000	4210 6.040
HSK-A 40	8	28.0	33.5	80.0	36.0	46.0	4937 8.040	4241 8.001	4912 4.000	4210 8.040
HSK-A 40	10	30.0	33.5	80.0	40.0	46.0	4937 10.040	4241 8.001	4912 4.000	4210 10.040
HSK-A 40	12	32.0	33.5	90.0	45.0	56.0	4937 12.040	4241 8.001	4912 4.000	4210 12.040
HSK-A 50	6	26.0	40.0	80.0	36.0	38.0	4937 6.050	4241 8.000	4912 4.000	4210 6.050
HSK-A 50	8	28.0	40.0	80.0	36.0	38.0	4937 8.050	4241 8.000	4912 4.000	4210 8.050
HSK-A 50	10	30.0	40.0	85.0	40.0	44.0	4937 10.050	4241 8.000	4912 4.000	4210 10.050
HSK-A 50	12	32.0	40.0	90.0	45.0	49.0	4937 12.050	4241 8.000	4912 4.000	4210 12.050
HSK-A 50	14	34.0	40.0	90.0	45.0	49.0	4937 14.050	4241 8.000	4912 4.000	4210 14.050
HSK-A 50	16	38.0	53.0	95.0	48.0	36.0	4937 16.050	4241 10.002	4912 5.000	4210 16.050
HSK-A 50	18	40.0	57.0	95.0	48.0	36.0	4937 18.050	4241 10.002	4912 5.000	4210 18.050
HSK-A 50	20	42.0	60.0	100.0	50.0	39.0	4937 20.050	4241 10.001	4912 5.000	4210 20.050
HSK-A 63	6	26.0	50.0	80.0	36.0	34.5	4937 6.100	4241 10.002	4912 5.000	4210 6.063
HSK-A 63	8	28.0	50.0	80.0	36.0	35.5	4937 8.100	4241 10.002	4912 5.000	4210 8.063
HSK-A 63	10	30.0	50.0	85.0	40.0	39.0	4937 10.100	4241 10.002	4912 5.000	4210 10.063
HSK-A 63	12	32.0	50.0	90.0	45.0	45.0	4937 12.100	4241 10.002	4912 5.000	4210 12.063
HSK-A 63	14	34.0	50.0	90.0	45.0	46.0	4937 14.100	4241 10.002	4912 5.000	4210 14.063
HSK-A 63	16	38.0	50.0	95.0	48.0	51.0	4937 16.100	4241 10.002	4912 5.000	4210 16.063
HSK-A 63	18	40.0	50.0	95.0	48.0	52.0	4937 18.100	4241 10.002	4912 5.000	4210 18.063
HSK-A 63	20	42.0	50.0	100.0	50.0	58.0	4937 20.100	4241 10.001	4912 5.000	4210 20.063
HSK-A 63	25	57.0	63.0	115.0	56.0	50.0	4937 25.100	4241 12.000	4912 6.000	4210 25.063
HSK-A 63	32	64.0	75.0	120.0	60.0	58.0	4937 32.100	4241 12.000	4912 6.000	4210 32.063
HSK-A 80	6	26.0	50.0	85.0	36.0	39.0	4937 6.100	4241 10.002	4912 5.000	4210 6.080
HSK-A 80	8	28.0	50.0	85.0	36.0	39.0	4937 8.100	4241 10.002	4912 5.000	4210 8.080
HSK-A 80	10	30.0	50.0	90.0	40.0	45.0	4937 10.100	4241 10.002	4912 5.000	4210 10.080
HSK-A 80	12	32.0	50.0	95.0	45.0	50.0	4937 12.100	4241 10.002	4912 5.000	4210 12.080
HSK-A 80	14	34.0	50.0	95.0	45.0	50.0	4937 14.100	4241 10.002	4912 5.000	4210 14.080
HSK-A 80	16	38.0	50.0	100.0	48.0	56.0	4937 16.100	4241 10.002	4912 5.000	4210 16.080
HSK-A 80	18	40.0	50.0	100.0	48.0	56.0	4937 18.100	4241 10.002	4912 5.000	4210 18.080
HSK-A 80	20	42.0	50.0	105.0	50.0	62.0	4937 20.100	4241 10.001	4912 5.000	4210 20.080
HSK-A 80	25	57.0	63.0	115.0	56.0	70.0	4937 25.100	4241 12.000	4912 6.000	4210 25.080
HSK-A 80	32	64.0	75.0	120.0	60.0	58.0	4937 32.100	4241 12.000	4912 6.000	4210 32.080
HSK-A 100	6	26.0	50.0	85.0	36.0	36.0	4937 6.100	4241 10.002	4912 5.000	4210 6.100
HSK-A 100	8	28.0	50.0	85.0	36.0	36.0	4937 8.100	4241 10.002	4912 5.000	4210 8.100
HSK-A 100	10	30.0	50.0	90.0	40.0	42.0	4937 10.100	4241 10.002	4912 5.000	4210 10.100
HSK-A 100	12	32.0	50.0	95.0	45.0	47.0	4937 12.100	4241 10.002	4912 5.000	4210 12.100
HSK-A 100	14	34.0	50.0	95.0	45.0	47.0	4937 14.100	4241 10.002	4912 5.000	4210 14.100
HSK-A 100	16	38.0	50.0	100.0	48.0	53.0	4937 16.100	4241 10.002	4912 5.000	4210 16.100
HSK-A 100	18	40.0	50.0	100.0	48.0	53.0	4937 18.100	4241 10.002	4912 5.000	4210 18.100
HSK-A 100	20	42.0	50.0	105.0	50.0	59.0	4937 20.100	4241 10.001	4912 5.000	4210 20.100
HSK-A 100	25	57.0	63.0	115.0	56.0	67.0	4937 25.100	4241 12.000	4912 6.000	4210 25.100
HSK-A 100	32	64.0	75.0	120.0	60.0	72.0	4937 32.100	4241 12.000	4912 6.000	4210 32.100

MQL technology



Product information:

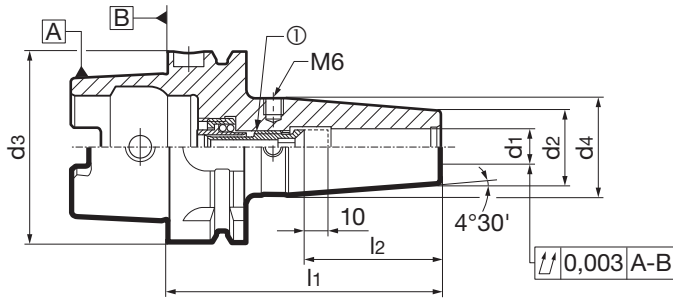
- HSK-A according to ISO 12164-1 / DIN 69893-1
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- for MQL 1-channel systems, Gühring MQL identifiable by green colour ring
- incl. balancing thread 4xM6/6xM6
- even in excess lengths l1 = 120 mm (concentricity 4 µm) and 160 mm (concentricity 5 µm)

Scope of delivery:

- MQL length adjusting screw with sealing lip (1), art. no. 4937
- MQL 1-channel filler element, art. no. 4940

Suitable accessories separately available:

- MQL length adjusting screw with sealing lip, art. no. 4937



Article no.

4735

d3	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	①	Order no.
HSK-A 32	6	21	25.5	80	36	4937 6.032	4735 6.032
HSK-A 32	8	21	25.5	80	36	4937 8.032	4735 8.032
HSK-A 32	10	24	31.7	85	40	4937 10.032	4735 10.032
HSK-A 32	12	24	32.3	90	45	4937 12.032	4735 12.032
HSK-A 40	6	21	27.0	80	36	4937 6.040	4735 6.040
HSK-A 40	8	21	27.0	80	36	4937 8.040	4735 8.040
HSK-A 40	10	24	32.0	80	40	4937 10.040	4735 10.040
HSK-A 40	12	24	32.0	90	45	4937 12.040	4735 12.040
HSK-A 40	14	27	34.0	90	45	4937 14.040	4735 14.040
HSK-A 40	16	27	34.0	90	48	4937 16.040	4735 16.040
HSK-A 50	6	21	27.0	80	36	4937 6.050	4735 6.050
HSK-A 50	8	21	27.0	80	36	4937 8.050	4735 8.050
HSK-A 50	10	24	32.0	85	40	4937 10.050	4735 10.050
HSK-A 50	12	24	32.0	90	45	4937 12.050	4735 12.050
HSK-A 50	14	27	34.0	90	45	4937 14.050	4735 14.050
HSK-A 50	16	27	34.0	95	48	4937 16.050	4735 16.050
HSK-A 50	18	33	42.0	95	48	4937 18.050	4735 18.050
HSK-A 50	20	33	42.0	100	50	4937 20.050	4735 20.050
HSK-A 63	6	21	27.0	80	36	4937 6.100	4735 6.063
HSK-A 63	8	21	27.0	80	36	4937 8.100	4735 8.063
HSK-A 63	10	24	32.0	85	40	4937 10.100	4735 10.063
HSK-A 63	12	24	32.0	90	45	4937 12.100	4735 12.063
HSK-A 63	14	27	34.0	90	45	4937 14.100	4735 14.063
HSK-A 63	16	27	34.0	95	48	4937 16.100	4735 16.063
HSK-A 63	18	33	42.0	95	48	4937 18.100	4735 18.063
HSK-A 63	20	33	42.0	100	50	4937 20.100	4735 20.063
HSK-A 63	25	44	53.0	115	56	4937 25.100	4735 25.063
HSK-A 63	32	44	53.0	120	60	4937 32.100	4735 32.063
HSK-A 63	12	24	32.0	160	45	4937 12.100	4735 112.063
HSK-A 63	14	27	34.0	160	45	4937 14.100	4735 114.063
HSK-A 63	16	27	34.0	160	48	4937 16.100	4735 116.063
HSK-A 63	18	33	42.0	160	48	4937 18.100	4735 118.063
HSK-A 63	20	33	42.0	160	50	4937 20.100	4735 120.063
HSK-A 63	25	44	53.0	160	56	4937 25.100	4735 125.063
HSK-A 63	32	44	53.0	160	60	4937 32.100	4735 132.063
HSK-A 63	12	24	32.0	120	45	4937 12.100	4735 212.063
HSK-A 63	14	27	34.0	120	45	4937 14.100	4735 214.063
HSK-A 63	16	27	34.0	120	48	4937 16.100	4735 216.063
HSK-A 63	18	33	42.0	120	48	4937 18.100	4735 218.063
HSK-A 63	20	33	42.0	120	50	4937 20.100	4735 220.063
HSK-A 63	6	21	27.0	120	36	4937 6.032	4735 806.063
HSK-A 63	8	21	27.0	120	36	4937 8.040	4735 808.063
HSK-A 63	10	24	32.0	120	40	4937 10.050	4735 810.063
HSK-A 63	6	21	27.0	160	36	4937 6.032	4735 906.063
HSK-A 63	8	21	27.0	160	36	4937 8.040	4735 908.063
HSK-A 63	10	24	32.0	160	40	4937 10.050	4735 910.063
HSK-A 80	6	21	27.0	85	36	4937 6.100	4735 6.080
HSK-A 80	8	21	27.0	85	36	4937 8.100	4735 8.080

MQL technology



Article no.

4735

d3	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	①	Order no.
HSK-A 80	10	24	32.0	90	40	4937 10.100	4735 10.080
HSK-A 80	12	24	32.0	95	45	4937 12.100	4735 12.080
HSK-A 80	14	27	34.0	95	45	4937 14.100	4735 14.080
HSK-A 80	16	27	34.0	100	48	4937 16.100	4735 16.080
HSK-A 80	18	33	42.0	100	48	4937 18.100	4735 18.080
HSK-A 80	20	33	42.0	105	50	4937 20.100	4735 20.080
HSK-A 80	25	44	53.0	115	56	4937 25.100	4735 25.080
HSK-A 80	32	44	53.0	120	60	4937 32.100	4735 32.080
HSK-A 100	6	21	27.0	85	36	4937 6.100	4735 6.100
HSK-A 100	8	21	27.0	85	36	4937 8.100	4735 8.100
HSK-A 100	10	24	32.0	90	40	4937 10.100	4735 10.100
HSK-A 100	12	24	32.0	95	45	4937 12.100	4735 12.100
HSK-A 100	14	27	34.0	95	45	4937 14.100	4735 14.100
HSK-A 100	16	27	34.0	100	48	4937 16.100	4735 16.100
HSK-A 100	18	33	42.0	100	48	4937 18.100	4735 18.100
HSK-A 100	20	33	42.0	105	50	4937 20.100	4735 20.100
HSK-A 100	25	44	53.0	115	56	4937 25.100	4735 25.100
HSK-A 100	32	44	53.0	120	60	4937 32.100	4735 32.100
HSK-A 100	6	21	27.0	160	36	4937 6.032	4735 106.100
HSK-A 100	8	21	27.0	160	36	4937 8.040	4735 108.100
HSK-A 100	10	24	32.0	160	40	4937 10.050	4735 110.100
HSK-A 100	12	24	32.0	160	45	4937 12.100	4735 112.100
HSK-A 100	14	27	34.0	160	45	4937 14.100	4735 114.100
HSK-A 100	16	27	34.0	160	48	4937 16.100	4735 116.100
HSK-A 100	18	33	42.0	160	48	4937 18.100	4735 118.100
HSK-A 100	20	33	42.0	160	50	4937 20.100	4735 120.100
HSK-A 100	25	44	53.0	160	56	4937 25.100	4735 125.100
HSK-A 100	32	44	53.0	160	60	4937 32.100	4735 132.100



Product information:

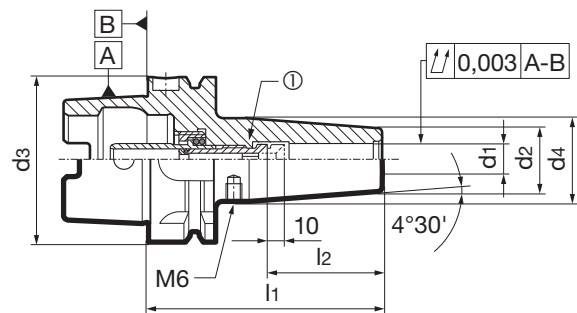
- HSK-A according to ISO 12164-1 / DIN 69893-1
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for MQL 1-channel systems, Gühring MQL identifiable by green colour ring
- for tool shanks d1 h6
- axial length adjustment
- concentricity < 3 µm
- incl. balancing thread 4xM6/6xM6
- even in excess lengths l1 = 120 mm (concentricity 4 µm) and 160 mm (concentricity 5 µm)

Scope of delivery:

- MQL length adjusting screw with sealing lip (1), art. no. 4937
- MQL 1-channel transfer unit, art. no. 4939

Suitable accessories separately available:

- MQL length adjusting screw with sealing lip, art. no. 4937
- sealing lip art. no. 4617
- MQL 1-channel transfer unit, art. no. 4939



Article no. **4741**

d3	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	①	Order no.
HSK-A 32	6	21	25.5	80	36	4937 6.032	4741 6.032
HSK-A 32	8	21	25.5	80	36	4937 8.032	4741 8.032
HSK-A 32	10	24	31.7	85	40	4937 10.032	4741 10.032
HSK-A 32	12	24	32.3	90	45	4937 12.032	4741 12.032
HSK-A 40	6	21	27.0	80	36	4937 6.040	4741 6.040
HSK-A 40	8	21	27.0	80	36	4937 8.040	4741 8.040
HSK-A 40	10	24	32.0	80	40	4937 10.040	4741 10.040
HSK-A 40	12	24	32.0	90	45	4937 12.040	4741 12.040
HSK-A 40	14	27	34.0	90	45	4937 14.040	4741 14.040
HSK-A 40	16	27	34.0	90	48	4937 16.040	4741 16.040
HSK-A 50	6	21	27.0	80	36	4937 6.050	4741 6.050
HSK-A 50	8	21	27.0	80	36	4937 8.050	4741 8.050
HSK-A 50	10	24	32.0	85	40	4937 10.050	4741 10.050
HSK-A 50	12	24	32.0	90	45	4937 12.050	4741 12.050
HSK-A 50	14	27	34.0	90	45	4937 14.050	4741 14.050
HSK-A 50	16	27	34.0	95	48	4937 16.050	4741 16.050
HSK-A 50	18	33	42.0	95	48	4937 18.050	4741 18.050
HSK-A 50	20	33	42.0	100	50	4937 20.050	4741 20.050
HSK-A 63	6	21	27.0	80	36	4937 6.100	4741 6.063
HSK-A 63	8	21	27.0	80	36	4937 8.100	4741 8.063
HSK-A 63	10	24	32.0	85	40	4937 10.100	4741 10.063
HSK-A 63	12	24	32.0	90	45	4937 12.100	4741 12.063
HSK-A 63	14	27	34.0	90	45	4937 14.100	4741 14.063
HSK-A 63	16	27	34.0	95	48	4937 16.100	4741 16.063
HSK-A 63	18	33	42.0	95	48	4937 18.100	4741 18.063
HSK-A 63	20	33	42.0	100	50	4937 20.100	4741 20.063
HSK-A 63	25	44	53.0	115	56	4937 25.100	4741 25.063
HSK-A 63	32	44	53.0	120	60	4937 32.100	4741 32.063
HSK-A 63	12	24	32.0	160	45	4937 12.100	4741 112.063
HSK-A 63	14	27	34.0	160	45	4937 14.100	4741 114.063
HSK-A 63	16	27	34.0	160	48	4937 16.100	4741 116.063
HSK-A 63	18	33	42.0	160	48	4937 18.100	4741 118.063
HSK-A 63	20	33	42.0	160	50	4937 20.100	4741 120.063
HSK-A 63	25	44	53.0	160	56	4937 25.100	4741 125.063
HSK-A 63	32	44	53.0	160	60	4937 32.100	4741 132.063
HSK-A 63	12	24	32.0	120	45	4937 12.100	4741 212.063
HSK-A 63	14	27	34.0	120	45	4937 14.100	4741 214.063
HSK-A 63	16	27	34.0	120	48	4937 16.100	4741 216.063
HSK-A 63	18	33	42.0	120	48	4937 18.100	4741 218.063
HSK-A 63	20	33	42.0	120	50	4937 20.100	4741 220.063
HSK-A 63	6	21	27.0	120	36	4937 6.032	4741 806.063
HSK-A 63	8	21	27.0	120	36	4937 8.040	4741 808.063
HSK-A 63	10	24	32.0	120	40	4937 10.050	4741 810.063
HSK-A 63	6	21	27.0	160	36	4937 6.032	4741 906.063
HSK-A 63	8	21	27.0	160	36	4937 8.040	4741 908.063
HSK-A 63	10	24	32.0	160	40	4937 10.050	4741 910.063
HSK-A 80	6	21	27.0	85	36	4937 6.100	4741 6.080
HSK-A 80	8	21	27.0	85	36	4937 8.100	4741 8.080

MQL technology



Article no.

4741

d3	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm	①	Order no.
HSK-A 80	10	24	32.0	90	40	4937 10.100	4741 10.080
HSK-A 80	12	24	32.0	95	45	4937 12.100	4741 12.080
HSK-A 80	14	27	34.0	95	45	4937 14.100	4741 14.080
HSK-A 80	16	27	34.0	100	48	4937 16.100	4741 16.080
HSK-A 80	18	33	42.0	100	48	4937 18.100	4741 18.080
HSK-A 80	20	33	42.0	105	50	4937 20.100	4741 20.080
HSK-A 80	25	44	53.0	115	56	4937 25.100	4741 25.080
HSK-A 80	32	44	53.0	120	60	4937 32.100	4741 32.080
HSK-A 100	6	21	27.0	85	36	4937 6.100	4741 6.100
HSK-A 100	8	21	27.0	85	36	4937 8.100	4741 8.100
HSK-A 100	10	24	32.0	90	40	4937 10.100	4741 10.100
HSK-A 100	12	24	32.0	95	45	4937 12.100	4741 12.100
HSK-A 100	14	27	34.0	95	45	4937 14.100	4741 14.100
HSK-A 100	16	27	34.0	100	48	4937 16.100	4741 16.100
HSK-A 100	18	33	42.0	100	48	4937 18.100	4741 18.100
HSK-A 100	20	33	42.0	105	50	4937 20.100	4741 20.100
HSK-A 100	25	44	53.0	115	56	4937 25.100	4741 25.100
HSK-A 100	32	44	53.0	120	60	4937 32.100	4741 32.100
HSK-A 100	6	21	27.0	160	36	4937 6.032	4741 106.100
HSK-A 100	8	21	27.0	160	36	4937 8.040	4741 108.100
HSK-A 100	10	24	32.0	160	40	4937 10.050	4741 110.100
HSK-A 100	12	24	32.0	160	45	4937 12.100	4741 112.100
HSK-A 100	14	27	34.0	160	45	4937 14.100	4741 114.100
HSK-A 100	16	27	34.0	160	48	4937 16.100	4741 116.100
HSK-A 100	18	33	42.0	160	48	4937 18.100	4741 118.100
HSK-A 100	20	33	42.0	160	50	4937 20.100	4741 120.100
HSK-A 100	25	44	53.0	160	56	4937 25.100	4741 125.100
HSK-A 100	32	44	53.0	160	60	4937 32.100	4741 132.100



Product information:

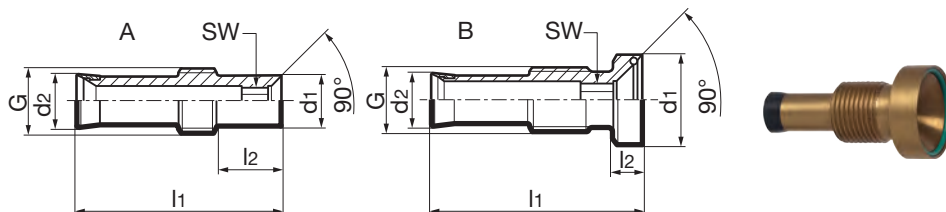
- for MQL 1-channel systems, Gühring MQL identifiable by green colour ring
- for the use of tool shanks according to MQL company standard
- gold-coloured, anti-corrosion coating for visual identification of the 1-channel system
- with patented axial force damping from Ø 14 to 32, temperature-related warping and thus concentricity errors are avoided thanks to the o-ring on the face
- for axial length adjustment

Scope of delivery:

- incl. sealing lip

Suitable accessories separately available:

- replacement sealing lip, art. no. 4617



Article no.

4937

HSK-A	d1 mm	d2 mm	l1 mm	l2 mm	G	SW mm	Type	Order no.
32	6	4.0	34.5	2.5	M 5 X0.8	2	B	4937 6.032
32	8	4.0	34.5	3.0	M7 x 1	2	B	4937 8.032
32	10	4.0	35.5	3.5	M8 x 1	2	B	4937 10.032
32	12	4.0	35.5	3.5	M10 X1	2	B	4937 12.032
40	6	5.4	34.1	11.0	M7 x 1	3	A	4937 6.040
40	8	5.4	34.1	3.0	M7 x 1	3	B	4937 8.040
40	10	5.4	30.1	3.5	M8 x 1	3	B	4937 10.040
40	12	5.4	35.1	3.5	M10 X1	3	B	4937 12.040
40	14	5.4	35.1	4.5	M10 X1	3	B	4937 14.040
40	16	5.4	32.1	5.5	M12 X1	3	B	4937 16.040
50	6	6.5	31.8	10.0	M8 x 1	4	A	4937 6.050
50	8	6.5	31.8	3.0	M8 x 1	4	B	4937 8.050
50	10	6.5	32.8	3.5	M8 x 1	4	B	4937 10.050
50	12	6.5	32.8	3.5	M10 X1	4	B	4937 12.050
50	14	6.5	32.8	4.5	M10 X1	4	B	4937 14.050
50	16	6.5	34.8	5.5	M12 X1	4	B	4937 16.050
50	18	6.5	34.8	6.5	M12 X1	4	B	4937 18.050
50	20	6.5	37.8	6.5	M16 x 1	4	B	4937 20.050
63/80/100	6	8.0	31.0	10.0	M10 X1	4	A	4937 6.100
63/80/100	8	8.0	31.8	10.0	M10 X1	4	A	4937 8.100
63/80/100	10	8.0	32.8	3.5	M10 X1	4	B	4937 10.100
63/80/100	12	8.0	32.8	3.5	M10 X1	5	B	4937 12.100
63/80/100	14	8.0	32.8	4.5	M10 X1	5	B	4937 14.100
63/80/100	16	8.0	34.8	5.5	M12 X1	5	B	4937 16.100
63/80/100	18	8.0	34.8	6.5	M12 X1	5	B	4937 18.100
63/80/100	20	8.0	37.8	6.5	M16 x 1	5	B	4937 20.100
63/80/100	25	8.0	43.8	10.0	M16 x 1	5	B	4937 25.100
63/80/100	32	8.0	44.8	14.0	M16 x 1	5	B	4937 32.100

MQL technology



Sealing lips for MQL 1-channel length adjusting screws

Article no. 4617

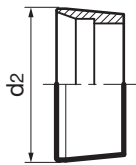


Product information:

- for MQL 1-channel axially adjustable adjusting screw, art. no. 4937
- for adaptor sleeve, art. no. 4716

Scope of delivery:

- packing unit 5 pieces



Article no.		4617
		Order no.
		4617 1.032
		4617 1.040
		4617 1.050
		4617 1.100
		4617 1.140

HSK-A	d2 mm
32	4.0
40	5.6
50	6.7
63/80/100	8.2
63/80/100	10.2

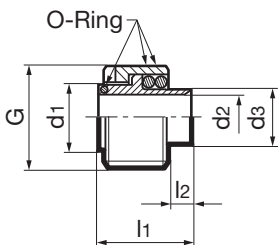
MQL 1-channel coolant supply set HSK-A (filler)

Article no. 4940



Product information:

- for MQL 1-channel tool holders (hydraulic chucks and shrink fit chucks) to company standard
- for tool holders with manual tool change
- radially alignable



Article no.						4940
						Order no.
						4940 10.032
						4940 12.040
						4940 16.050
						4940 18.063
						4940 20.080
						4940 24.100

for	d1 mm	d2 mm	d3 mm	l1 mm	l2 mm	G
HSK32 A	4.8	4.0	4.8	18.7	12.5	M10X1
HSK40 A	6.8	5.4	6.8	13.8	5.5	M12X1
HSK50 A	7.8	6.5	7.8	15.8	5.5	M16X1
HSK63 A	9.7	8.0	9.7	16.3	4.0	M18X1
HSK80 A	9.7	8.0	9.7	18.4	4.0	M20X1.5
HSK100A	14.5	8.0	11.7	18.4	2.0	M24X1.5

MQL technology

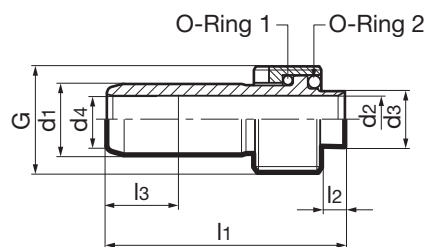


MQL 1-channel coolant supply set HSK-A

Article no. **4939**

Product information:

- for MQL 1-channel tool holders (hydraulic chucks and shrink fit chucks)
- for tool holders with automatic tool change



Article no. **4939**

for	d1 mm	d2 mm	d3 mm	d4 mm	l1 mm	l2 mm	l3 mm	G	Order no.
HSK32 A	6.0	4.0	4.8		38.5	12.5		M10X1	4939 10.032
HSK40 A	8.0	5.4	6.5		35.0	5.5		M12X1	4939 12.040
HSK50 A	10.0	6.5	7.5		38.5	5.5		M16X1	4939 16.050
HSK63 A	12.0	8.0	9.5		40.5	4.0		M18X1	4939 18.063
HSK80 A	14.0	8.0	9.7	10	44.0	4.0	15	M20X1.5	4939 20.080
HSK100A	16.0	8.0	11.5	12	46.0	2.0	15	M24X1.5	4939 24.100

MQL 1-channel length adjusting screws with sealing lip

Article no. **4948**



Product information:

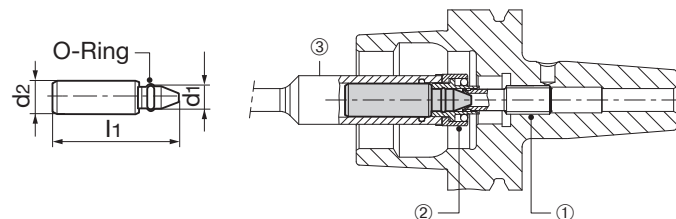
- adaptor suitable for Gühring socket wrench (3), art. no. 4911
- for assembly of MQL 1-channel filler (2), art. no. 4940 HSK-A for manual tool change
- for assembly of MQL 1 & 2-channel filler (2), art. no. 4513 HSK-A for manual tool change
- for assembly of MQL 2-channel filler with tube (2), art. no. 4622 HSK-A for manual tool change

Scope of delivery:

- incl. Instruction manual

Suitable accessories separately available:

- MQL length pre-adjusting screw with sealing lip (1) art. no. 4937
- socket wrench (3) art. no. 4911



Article no. **4948**

Size	d1 mm	d2 mm	l1 mm	Order no.
HSK-A 32	4.0	5.9	30.0	4948 6.032
HSK-A 40	5.4	8.0	36.6	4948 8.040
HSK-A 50	6.5	10.0	40.1	4948 10.050
HSK-A 63	8.0	12.0	43.6	4948 12.063
HSK-A 80	8.0	14.0	46.1	4948 14.080
HSK-A 100	8.0	16.0	48.6	4948 16.100



Length adjusting screw for conventional cooling

Article no. **4941**

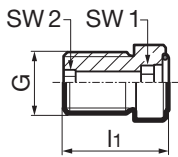


Product information:

- to adapt MQL tool holders to meet the requirements of conventional wet machining. For plain end shanks. The height of screw head compensates the height of MQL taper.
- for use with shank according to DIN 6535 with plain shank end for conventional cooling
- with patented axial force damping; the o-ring on the face prevents temperature-related warping and concentricity errors
- for MQL HSK-A shrink fit and hydraulic chucks

Suitable accessories separately available:

- hexagonal key art. no. 4912



Article no.

4941

for HSK-A	for clamping Ø mm	l1 mm	G	SW2 mm	SW1 mm	Order no.
40	6	15.0	M7	2.5	2.5	4941 6.040
40	6	14.9	M 5	2.5	2.5	4941 6.041
50	6	14.0	M 8X1	2.5	2.5	4941 6.050
63-100	6	17.0	M10X1	2.5	2.5	4941 6.100
40	8	16.2	M7	3.0	3.0	4941 8.040
50	8	18.0	M 8X1	3.0	3.0	4941 8.050
63-100	8	17.0	M10X1	3.0	3.0	4941 8.100
40-50	10	16.2	M 8X1	4.0	4.0	4941 10.050
63-100	10	16.2	M10X1	4.0	4.0	4941 10.100
40-100	12	16.0	M10X1	5.0	5.0	4941 12.100
40-100	14	17.2	M10X1	5.0	5.0	4941 14.100
50-100	16	18.2	M12X1	6.0	6.0	4941 16.100
50-100	18	19.2	M12X1	6.0	6.0	4941 18.100
50-100	20	19.2	M16X1	6.0	8.0	4941 20.100
63-100	25	22.7	M16X1	6.0	8.0	4941 25.100
63-100	32	26.7	M16X1	6.0	8.0	4941 32.100



MQL hydraulic synchro tapping chucks HSK-A (manual tool change)

Article no. **4604**



Product information:

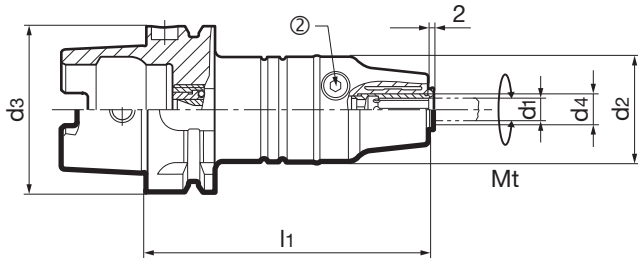
- HSK-A according to ISO 12164-1 / DIN 69893-1
- balancing quality: G 6.3 / 15,000 rpm
- convenient hydraulic clamping using reduction bushes with active drive
- for MQL 1 & 2-channel systems, Gühring MQL identifiable by green colour ring
- MQL pressure max. 16 bar
- compensates synchronisation errors
- minimum length compensation ± 0.3 mm in pushing and pulling direction
- adjusting screw enables 3 mm axial length readjustment
- guarantees the best thread quality with optimum tool life

Scope of delivery:

- MQL filler art. no. 4513
- adjustment wrench for adjusting screw

Suitable accessories separately available:

- MQL axial adjusting screw, art. no. 4305
- reduction bushes art. no. 4605 or 4606
- hexagonal key (2), art. no. 4912
- replacement clamping screw (2) art. no. 4241
- adjustment key, art. no. 4912, type B for adjusting screws



Article no.

4604

d3	d2 mm	d1	for threads	d4 mm	l1 mm	Mt max. Nm	②	②
HSK-A 63	40	2.8-10.0	M2-M12	12	106.5	26	4912 4.600	4241 8.000
HSK-A 63	40	6.0-16.0	M4,5-M20	20	120.5	90	4912 5.000	4241 10.003
HSK-A 100	40	2.8-10.0	M2-M12	12	113.0	26	4912 4.600	4241 8.000
HSK-A 100	40	6.0-16.0	M4,5-M20	20	127.0	90	4912 5.000	4241 10.003

Order no.
4604 12.063
4604 20.063
4604 12.100
4604 20.100

MQL 1-channel hydraulic synchro tapping chucks HSK-A (automatic tool change)

Article no. **4602**



Product information:

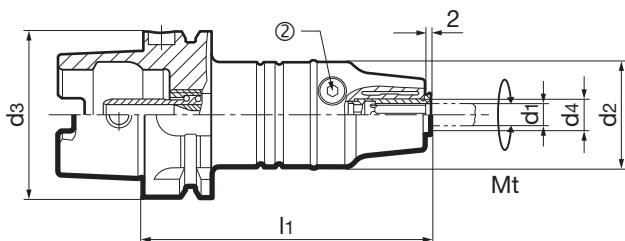
- HSK-A according to ISO 12164-1 / DIN 69893-1
- balancing quality: G 6.3 / 15,000 rpm
- for MQL 1-channel systems, Gühring MQL identifiable by green colour ring
- MQL pressure max. 16 bar
- compensates synchronisation errors
- minimum length compensation ± 0.3 mm in pushing and pulling direction
- convenient hydraulic clamping using reduction bushes with active drive
- adjusting screw enables 3 mm axial length readjustment
- guarantees the best thread quality with optimum tool life

Scope of delivery:

- MQL 1-channel transfer unit, art. no. 4508
- adjustment wrench for MQL axial adjusting screw

Suitable accessories separately available:

- MQL axial adjusting screw, art. no. 4305
- reduction bushes art. no. 4605 or 4606
- hexagonal key (2), art. no. 4912
- replacement clamping screw (2) art. no. 4241



Article no.

4602

d3	d2 mm	d1	for threads	d4 mm	l1 mm	Mt max. Nm	②	②
HSK-A 63	40	2.8-10.0	M2-M12	12	106.5	26	4912 4.600	4241 8.000
HSK-A 63	40	6.0-16.0	M4,5-M20	20	120.5	90	4912 5.000	4241 10.003
HSK-A 100	40	2.8-10.0	M2-M12	12	113.0	26	4912 4.600	4241 8.000
HSK-A 100	40	6.0-16.0	M4,5-M20	20	127.0	90	4912 5.000	4241 10.003

Order no.
4602 12.063
4602 20.063
4602 12.100
4602 20.100



MQL hydraulic synchro tapping chucks with straight shank

Article no. **4524**



Product information:

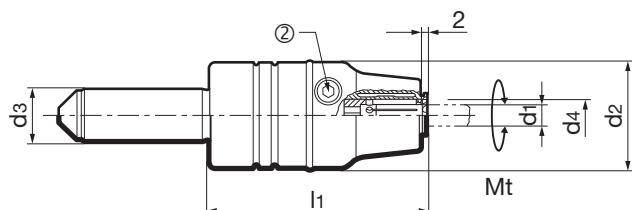
- mounting shank according to DIN 1835-A for mounting in precision chucks (hydraulic expansion or power chucks, shrink fit chucks for one-time use)
- für MQL 1 & 2-channel systems, according to company standard
- MQL pressure max. 16 bar
- guarantees the best thread quality with optimum tool life
- minimum length compensation ± 0.3 mm in pushing and pulling direction
- convenient hydraulic clamping using reduction bushes with active drive
- adjusting screw enables 3 mm axial length readjustment

Scope of delivery:

- incl. adjustment key for adjusting screws

Suitable accessories separately available:

- MQL axial adjusting screw, art. no. 4305
- reduction bushes art. no. 4605 or 4606
- replacement clamping screw (2) art. no. 4241



Article no.

4524

d3 mm	d4 mm	d1	for	d2 mm	l1 mm	Mt max. Nm	SW mm	②	②
20	12.0	2.8-10.0	M2-M12	40	80.0	26	4.0	4912 4.600	4241 8.000
20	20.0	6.0-16.0	M4,5-M20	40	94.0	90	5.0	4912 5.000	4241 10.003

Order no.

4524 12.020
4524 20.020

MQL synchro tapping chucks HSK-A (manual tool change)

Article no. **4298**



Product information:

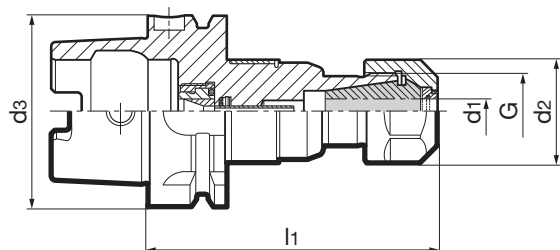
- HSK-A according to ISO 12164-1 / DIN 69893-1
- for MQL 1 & 2-channel systems
- compensates synchronisation errors
- minimum length compensation ± 0.5 mm in pushing and pulling direction
- reduces high thread flank friction forces and increases thread quality and tool life
- adjusting screw enables 2-3 mm readjustment
- MQL pressure max. 16 bar

Scope of delivery:

- MQL coolant supply set
- incl. adjusting screw
- IC/ER clamping nut with sealing washer, art. no. 4306 (*see tightening torque)
- adjustment wrench for MQL axial adjusting screw

Suitable accessories separately available:

- MQL axial adjusting screw, art. no. 4305
- sealing plug art. no. 4335
- thread tap collet chuck, art. no. 4308
- clamping key art. no. 4913 for clamping nut ER
- MQL filler art. no. 4513



Article no.

4298

d3	Size	G	d1 mm	d2 mm	l1 mm	Mt max. Nm
HSK-A 63	ER20	M25 X1.5	4.5-11.0	34.0	95.5	35
HSK-A 63	ER32	M40 X1.5	4.5-20.0	50.0	109.0	136

Order no.

4298 20.063
4298 32.063



Product information:

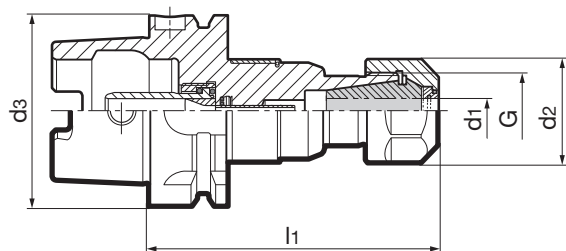
- HSK-A according to ISO 12164-1 / DIN 69893-1
- for MQL 1-channel systems
- compensates synchronisation errors
- minimum length compensation ± 0.5 mm in pushing and pulling direction
- adjusting screw enables 2-3 mm readjustment
- MQL pressure max. 16 bar
- mounted MQL coolant transfer set

Scope of delivery:

- MQL 1-channel transfer unit, art. no. 4508
- IC/ER clamping nut with sealing washer, art. no. 4306
- adjustment wrench for MQL axial adjusting screw

Suitable accessories separately available:

- MQL axial adjusting screw, art. no. 4305
- sealing plug art. no. 4335
- thread tap collet chuck, art. no. 4308
- clamping key art. no. 4913



Article no.

4330

d3	Size	G	d1 mm	d2 mm	l1 mm	Mt max. Nm	Order no.
HSK-A 63	ER20	M25 X1.5	4.5-11.0	34.0	95.5	35	4330 20.063
HSK-A 63	ER32	M40 X1.5	4.5-20.0	50.0	109.0	136	4330 32.063
HSK-A 100	ER20	M25 X1.5	4.5-11.0	34.0	102.0	35	4330 20.100
HSK-A 100	ER32	M40 X1.5	4.5-20.0	50.0	115.5	136	4330 32.100



MLQ 1-channel coolant supply set HSK-A

Article no. **4508**

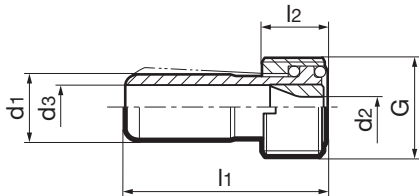


Product information:

- design similar to DIN 69895
- for MLQ 1-channel systems, to company standard
- for MLQ tapping chucks and monolithic holders
- for tool holders with automatic tool change
- dimensions d2 and l1 in installed condition

Suitable accessories separately available:

- socket wrenches art. no. 4910
- socket wrenches for coolant supply sets art. no. 4911



Article no. **4508**

for	d1 mm	d2 mm	d3 mm	l1 mm	l2 mm	G	Order no.
HSK-A 32	6.0	3.0	4.0	26.0	5.5	M10X1	4508 10.032
HSK-A 40	8.0	3.8	5.4	29.5	7.5	M12X1	4508 12.040
HSK-A 50	10.0	3.8	6.4	33.0	9.5	M16X1	4508 16.050
HSK-A 63	12.0	3.8	8.0	36.5	11.5	M18X1	4508 18.063
HSK-A 80	14.0	3.8	10.0	40.0	13.5	M20X1.5	4508 20.080
HSK-A 100	16.0	3.8	12.0	44.0	15.5	M24X1.5	4508 24.100

MLQ coolant supply set HSK-A (filler)

Article no. **4513**

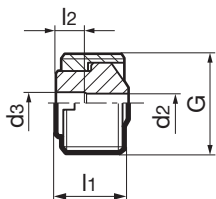


Product information:

- for IC, for MLQ 1 & 2-channel system, according to company standard
- for MLQ tapping chucks and monolithic holders
- for tool holders with manual tool change
- radially alignable
- dimensions d2 and l1 in installed condition
- optimum seal for MLQ clamping set

Suitable accessories separately available:

- socket wrenches art. no. 4910
- socket wrenches for coolant supply sets art. no. 4911



Article no. **4513**

for	d2 mm	d3 mm	l1 mm	l2 mm	G	Order no.
HSK-A 32	3.0	3.0	6.3		M10X1	4513 10.032
HSK-A 40	3.6	4.0	8.3	5.0	M12X1	4513 12.040
HSK-A 50	3.6	4.0	10.3	5.0	M16X1	4513 16.050
HSK-A 50	5.0	5.0	10.3		M16X1	4513 16.150
HSK-A 63	3.6	4.0	12.3	5.0	M18X1	4513 18.063
HSK-A 63	6.0	6.0	12.3		M18X1	4513 18.163
HSK-A 80	3.6	4.0	14.4	5.0	M20X1.5	4513 20.080
HSK-A 80	8.0	8.0	14.4		M20X1.5	4513 20.180
HSK-A 100	3.6	4.0	16.4	5.0	M24X1.5	4513 24.100
HSK-A 100	8.0	8.0	16.4		M24X1.5	4513 24.101



Product information:

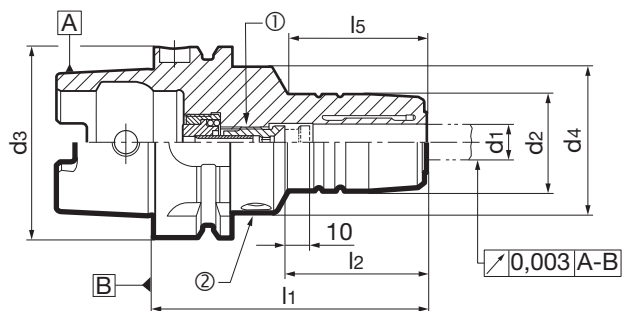
- HSK-A according to ISO 12164-1 / DIN 69893-1
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- axial length adjustment
- for MQL 2-channel systems, to company standard
- cross-section A (mm²) ratio 4:1, see info page

Scope of delivery:

- MQL 2-channel axial adjusting screw (1) art. no. 4621
- MQL 2-channel filler with tube art. no. 4622

Suitable accessories separately available:

- replacement adjusting screw (1), art. no. 4621
- replacement clamping screw (2) art. no. 4241
- hexagonal key (2), art. no. 4912



Article no.

4611

d3	d1 mm	A mm ²	d2 mm	d4 mm	l1 mm	l2 mm	l5 mm	①	②	②	Order no.
HSK-A 32	6	2.01	26.0	40.0	80.0	36.0	29.0	4621 6.032	4912 4.000	4241 8.000	4611 6.032
HSK-A 32	6	4.15	26.0	40.0	80.0	36.0	29.0	4621 6.132	4912 4.000	4241 8.000	4611 6.132
HSK-A 32	8	2.01	28.0	40.0	80.0	36.0	29.0	4621 8.032	4912 4.000	4241 8.000	4611 8.032
HSK-A 32	8	4.15	28.0	40.0	80.0	36.0	29.0	4621 8.132	4912 4.000	4241 8.000	4611 8.132
HSK-A 32	10	2.01	30.0	40.0	85.0	40.0	35.0	4621 10.032	4912 4.000	4241 8.000	4611 10.032
HSK-A 32	10	4.15	30.0	40.0	85.0	40.0	35.0	4621 10.132	4912 4.000	4241 8.000	4611 10.132
HSK-A 32	12	2.01	32.0	40.0	90.0	45.0	40.0	4621 12.032	4912 4.000	4241 8.000	4611 12.032
HSK-A 32	12	4.15	32.0	40.0	90.0	45.0	40.0	4621 12.132	4912 4.000	4241 8.000	4611 12.132
HSK-A 40	6	2.01	26.0	33.5	80.0	36.0	46.0	4621 6.040	4912 4.000	4241 8.001	4611 6.040
HSK-A 40	6	4.15	26.0	33.5	80.0	36.0	46.0	4621 6.140	4912 4.000	4241 8.001	4611 6.140
HSK-A 40	8	2.01	28.0	33.5	80.0	36.0	46.0	4621 8.040	4912 4.000	4241 8.001	4611 8.040
HSK-A 40	8	4.15	28.0	33.5	80.0	36.0	46.0	4621 8.140	4912 4.000	4241 8.001	4611 8.140
HSK-A 40	10	2.01	30.0	33.5	80.0	40.0	46.0	4621 10.040	4912 4.000	4241 8.001	4611 10.040
HSK-A 40	10	4.15	30.0	33.5	80.0	40.0	46.0	4621 10.140	4912 4.000	4241 8.001	4611 10.140
HSK-A 40	12	2.01	32.0	33.5	90.0	45.0	56.0	4621 12.040	4912 4.000	4241 8.001	4611 12.040
HSK-A 40	12	4.15	32.0	33.5	90.0	45.0	56.0	4621 12.140	4912 4.000	4241 8.001	4611 12.140
HSK-A 40	12	9.08	32.0	33.5	90.0	45.0	56.0	4621 12.240	4912 4.000	4241 8.001	4611 12.240
HSK-A 50	6	2.01	26.0	40.0	80.0	36.0	38.0	4621 6.050	4912 4.000	4241 8.000	4611 6.050
HSK-A 50	6	4.15	26.0	40.0	80.0	36.0	38.0	4621 6.150	4912 4.000	4241 8.000	4611 6.150
HSK-A 50	8	2.01	28.0	40.0	80.0	36.0	38.0	4621 8.050	4912 4.000	4241 8.000	4611 8.050
HSK-A 50	8	4.15	28.0	40.0	80.0	36.0	38.0	4621 8.150	4912 4.000	4241 8.000	4611 8.150
HSK-A 50	10	2.01	30.0	40.0	85.0	40.0	44.0	4621 10.050	4912 4.000	4241 8.000	4611 10.050
HSK-A 50	10	4.15	30.0	40.0	85.0	40.0	44.0	4621 10.150	4912 4.000	4241 8.000	4611 10.150
HSK-A 50	12	2.01	32.0	40.0	90.0	45.0	49.0	4621 12.050	4912 4.000	4241 8.000	4611 12.050
HSK-A 50	12	4.15	32.0	40.0	90.0	45.0	49.0	4621 12.150	4912 4.000	4241 8.000	4611 12.150
HSK-A 50	12	9.08	32.0	40.0	90.0	45.0	49.0	4621 12.250	4912 4.000	4241 8.000	4611 12.250
HSK-A 50	14	2.01	34.0	40.0	90.0	45.0	49.0	4621 14.050	4912 4.000	4241 8.000	4611 14.050
HSK-A 50	14	4.15	34.0	40.0	90.0	45.0	49.0	4621 14.150	4912 4.000	4241 8.000	4611 14.150
HSK-A 50	14	9.08	34.0	40.0	90.0	45.0	49.0	4621 14.250	4912 4.000	4241 8.000	4611 14.250
HSK-A 50	16	2.01	38.0	53.0	95.0	48.0	36.0	4621 16.050	4912 5.000	4241 10.002	4611 16.050
HSK-A 50	16	4.15	38.0	53.0	95.0	48.0	36.0	4621 16.150	4912 5.000	4241 10.002	4611 16.150
HSK-A 50	16	9.08	38.0	53.0	95.0	48.0	36.0	4621 16.250	4912 5.000	4241 10.002	4611 16.250
HSK-A 50	18	2.01	40.0	57.0	95.0	48.0	36.0	4621 18.050	4912 5.000	4241 10.002	4611 18.050
HSK-A 50	18	4.15	40.0	57.0	95.0	48.0	36.0	4621 18.150	4912 5.000	4241 10.002	4611 18.150
HSK-A 50	18	9.08	40.0	57.0	95.0	48.0	36.0	4621 18.250	4912 5.000	4241 10.002	4611 18.250
HSK-A 50	20	4.15	42.0	60.0	100.0	50.0	39.0	4621 20.050	4912 5.000	4241 10.001	4611 20.050
HSK-A 50	20	9.08	42.0	60.0	100.0	50.0	39.0	4621 20.150	4912 5.000	4241 10.001	4611 20.150
HSK-A 50	20	16.62	42.0	60.0	100.0	50.0	39.0	4621 20.250	4912 5.000	4241 10.001	4611 20.250
HSK-A 63	6	2.01	26.0	50.0	80.0	36.0	34.5	4621 6.100	4912 5.000	4241 10.002	4611 6.063
HSK-A 63	6	4.15	26.0	50.0	80.0	36.0	50.0	4621 6.101	4912 5.000	4241 10.002	4611 6.163
HSK-A 63	8	2.01	28.0	50.0	80.0	36.0	35.5	4621 8.100	4912 5.000	4241 10.002	4611 8.063
HSK-A 63	8	4.15	28.0	50.0	80.0	36.0	35.5	4621 8.101	4912 5.000	4241 10.002	4611 8.163
HSK-A 63	10	2.01	30.0	50.0	85.0	40.0	39.0	4621 10.100	4912 5.000	4241 10.002	4611 10.063
HSK-A 63	10	4.15	30.0	50.0	85.0	40.0	39.0	4621 10.101	4912 5.000	4241 10.002	4611 10.163
HSK-A 63	12	2.01	32.0	50.0	90.0	45.0	45.0	4621 12.100	4912 5.000	4241 10.002	4611 12.063
HSK-A 63	12	4.15	32.0	50.0	90.0	45.0	45.0	4621 12.101	4912 5.000	4241 10.002	4611 12.163
HSK-A 63	12	9.08	32.0	50.0	90.0	45.0	45.0	4621 12.102	4912 5.000	4241 10.002	4611 12.263
HSK-A 63	14	2.01	34.0	50.0	90.0	45.0	46.0	4621 14.100	4912 5.000	4241 10.002	4611 14.063



Article no.

4611

d3	d1 mm	A mm ²	d2 mm	d4 mm	l1 mm	l2 mm	l5 mm	①	②	②	Order no.
HSK-A 63	14	4.15	34.0	50.0	90.0	45.0	46.0	4621 14.101	4912 5.000	4241 10.002	4611 14.163
HSK-A 63	14	9.08	34.0	50.0	90.0	45.0	46.0	4621 14.102	4912 5.000	4241 10.002	4611 14.263
HSK-A 63	16	2.01	38.0	50.0	95.0	48.0	51.0	4621 16.100	4912 5.000	4241 10.002	4611 16.063
HSK-A 63	16	4.15	38.0	50.0	95.0	48.0	51.0	4621 16.101	4912 5.000	4241 10.002	4611 16.163
HSK-A 63	16	9.08	38.0	50.0	95.0	48.0	51.0	4621 16.102	4912 5.000	4241 10.002	4611 16.263
HSK-A 63	18	2.01	40.0	50.0	95.0	48.0	52.0	4621 18.100	4912 5.000	4241 10.002	4611 18.063
HSK-A 63	18	4.15	40.0	50.0	95.0	48.0	52.0	4621 18.101	4912 5.000	4241 10.002	4611 18.163
HSK-A 63	18	9.08	40.0	50.0	95.0	48.0	52.0	4621 18.102	4912 5.000	4241 10.002	4611 18.263
HSK-A 63	20	4.15	42.0	50.0	100.0	50.0	58.0	4621 20.100	4912 5.000	4241 10.001	4611 20.063
HSK-A 63	20	9.08	42.0	50.0	100.0	50.0	58.0	4621 20.101	4912 5.000	4241 10.001	4611 20.163
HSK-A 63	20	16.62	42.0	50.0	100.0	50.0	58.0	4621 20.102	4912 5.000	4241 10.001	4611 20.263
HSK-A 63	25	4.15	57.0	63.0	115.0	56.0	50.0	4621 25.100	4912 6.000	4241 12.000	4611 25.063
HSK-A 63	25	9.08	57.0	63.0	115.0	56.0	50.0	4621 25.101	4912 6.000	4241 12.000	4611 25.163
HSK-A 63	25	16.62	57.0	63.0	115.0	56.0	50.0	4621 25.102	4912 6.000	4241 12.000	4611 25.263
HSK-A 63	32	4.15	64.0	75.0	120.0	60.0	58.0	4621 32.100	4912 6.000	4241 12.000	4611 32.063
HSK-A 63	32	9.08	64.0	75.0	120.0	60.0	58.0	4621 32.101	4912 6.000	4241 12.000	4611 32.163
HSK-A 63	32	16.62	64.0	75.0	120.0	60.0	58.0	4621 32.102	4912 6.000	4241 12.000	4611 32.263
HSK-A 80	6	2.01	26.0	50.0	85.0	36.0	39.0	4621 6.100	4912 5.000	4241 10.002	4611 6.080
HSK-A 80	6	4.15	26.0	50.0	85.0	36.0	39.0	4621 6.101	4912 5.000	4241 10.002	4611 6.180
HSK-A 80	8	2.01	28.0	50.0	85.0	36.0	39.0	4621 8.100	4912 5.000	4241 10.002	4611 8.080
HSK-A 80	8	4.15	28.0	50.0	85.0	36.0	39.0	4621 8.101	4912 5.000	4241 10.002	4611 8.180
HSK-A 80	10	2.01	30.0	50.0	90.0	40.0	45.0	4621 10.100	4912 5.000	4241 10.002	4611 10.080
HSK-A 80	10	4.15	30.0	50.0	90.0	40.0	45.0	4621 10.101	4912 5.000	4241 10.002	4611 10.180
HSK-A 80	12	2.01	32.0	50.0	95.0	45.0	50.0	4621 12.100	4912 5.000	4241 10.002	4611 12.080
HSK-A 80	12	4.15	32.0	50.0	95.0	45.0	50.0	4621 12.101	4912 5.000	4241 10.002	4611 12.180
HSK-A 80	12	9.08	32.0	50.0	95.0	45.0	50.0	4621 12.102	4912 5.000	4241 10.002	4611 12.280
HSK-A 80	14	2.01	34.0	50.0	95.0	45.0	50.0	4621 14.100	4912 5.000	4241 10.002	4611 14.080
HSK-A 80	14	4.15	34.0	50.0	95.0	45.0	50.0	4621 14.101	4912 5.000	4241 10.002	4611 14.180
HSK-A 80	14	9.08	34.0	50.0	95.0	45.0	50.0	4621 14.102	4912 5.000	4241 10.002	4611 14.280
HSK-A 80	16	2.01	38.0	50.0	100.0	48.0	56.0	4621 16.100	4912 5.000	4241 10.002	4611 16.080
HSK-A 80	16	4.15	38.0	50.0	100.0	48.0	56.0	4621 16.101	4912 5.000	4241 10.002	4611 16.180
HSK-A 80	16	9.08	38.0	50.0	100.0	48.0	56.0	4621 16.102	4912 5.000	4241 10.002	4611 16.280
HSK-A 80	18	2.01	40.0	50.0	100.0	48.0	56.0	4621 18.100	4912 5.000	4241 10.002	4611 18.080
HSK-A 80	18	4.15	40.0	50.0	100.0	48.0	56.0	4621 18.101	4912 5.000	4241 10.002	4611 18.180
HSK-A 80	18	9.08	40.0	50.0	100.0	48.0	56.0	4621 18.102	4912 5.000	4241 10.002	4611 18.280
HSK-A 80	20	4.15	42.0	50.0	105.0	50.0	62.0	4621 20.100	4912 5.000	4241 10.001	4611 20.080
HSK-A 80	20	9.08	42.0	50.0	105.0	50.0	62.0	4621 20.101	4912 5.000	4241 10.001	4611 20.180
HSK-A 80	20	16.62	42.0	50.0	105.0	50.0	62.0	4621 20.102	4912 5.000	4241 10.001	4611 20.280
HSK-A 80	25	4.15	57.0	63.0	115.0	56.0	70.0	4621 25.100	4912 6.000	4241 12.000	4611 25.080
HSK-A 80	25	9.08	57.0	63.0	115.0	56.0	70.0	4621 25.101	4912 6.000	4241 12.000	4611 25.180
HSK-A 80	25	16.62	57.0	63.0	115.0	56.0	70.0	4621 25.102	4912 6.000	4241 12.000	4611 25.280
HSK-A 80	32	4.15	64.0	75.0	120.0	60.0	58.0	4621 32.100	4912 6.000	4241 12.000	4611 32.080
HSK-A 80	32	9.08	64.0	75.0	120.0	60.0	58.0	4621 32.101	4912 6.000	4241 12.000	4611 32.180
HSK-A 80	32	16.62	64.0	75.0	120.0	60.0	58.0	4621 32.102	4912 6.000	4241 12.000	4611 32.280
HSK-A 100	6	2.01	26.0	50.0	85.0	36.0	36.0	4621 6.100	4912 5.000	4241 10.002	4611 6.100
HSK-A 100	6	4.15	26.0	50.0	85.0	36.0	36.0	4621 6.101	4912 5.000	4241 10.002	4611 6.101
HSK-A 100	8	2.01	28.0	50.0	85.0	36.0	36.0	4621 8.100	4912 5.000	4241 10.002	4611 8.100
HSK-A 100	8	4.15	28.0	50.0	85.0	36.0	36.0	4621 8.101	4912 5.000	4241 10.002	4611 8.101
HSK-A 100	10	2.01	30.0	50.0	90.0	40.0	42.0	4621 10.100	4912 5.000	4241 10.002	4611 10.100
HSK-A 100	10	4.15	30.0	50.0	90.0	40.0	42.0	4621 10.101	4912 5.000	4241 10.002	4611 10.101
HSK-A 100	12	2.01	32.0	50.0	95.0	45.0	47.0	4621 12.100	4912 5.000	4241 10.002	4611 12.100
HSK-A 100	12	4.15	32.0	50.0	95.0	45.0	47.0	4621 12.101	4912 5.000	4241 10.002	4611 12.101
HSK-A 100	12	9.08	32.0	50.0	95.0	45.0	47.0	4621 12.102	4912 5.000	4241 10.002	4611 12.102
HSK-A 100	14	2.01	34.0	50.0	95.0	45.0	47.0	4621 14.100	4912 5.000	4241 10.002	4611 14.100
HSK-A 100	14	4.15	34.0	50.0	95.0	45.0	47.0	4621 14.101	4912 5.000	4241 10.002	4611 14.101
HSK-A 100	14	9.08	34.0	50.0	95.0	45.0	47.0	4621 14.102	4912 5.000	4241 10.002	4611 14.102
HSK-A 100	16	2.01	38.0	50.0	100.0	48.0	53.0	4621 16.100	4912 5.000	4241 10.002	4611 16.100
HSK-A 100	16	4.15	38.0	50.0	100.0	48.0	53.0	4621 16.101	4912 5.000	4241 10.002	4611 16.101
HSK-A 100	16	9.08	38.0	50.0	100.0	48.0	53.0	4621 16.102	4912 5.000	4241 10.002	4611 16.102
HSK-A 100	18	2.01	40.0	50.0	100.0	48.0	53.0	4621 18.100	4912 5.000	4241 10.002	4611 18.100
HSK-A 100	18	4.15	40.0	50.0	100.0	48.0	53.0	4621 18.101	4912 5.000	4241 10.002	4611 18.101
HSK-A 100	18	9.08	40.0	50.0	100.0	48.0	53.0	4621 18.102	4912 5.000	4241 10.002	4611 18.102
HSK-A 100	20	4.15	42.0	50.0	105.0	50.0	59.0	4621 20.100	4912 5.000	4241 10.001	4611 20.100
HSK-A 100	20	9.08	42.0	50.0	105.0	50.0	59.0	4621 20.101	4912 5.000	4241 10.001	4611 20.101
HSK-A 100	20	16.62	42.0	50.0	105.0	50.0	59.0	4621 20.102	4912 5.000	4241 10.001	4611 20.102
HSK-A 100	25	4.15	57.0	63.0	115.0	56.0	67.0	4621 25.100	4912 6.000	4241 12.000	4611 25.100
HSK-A 100	25	9.08	57.0	63.0	115.0	56.0	67.0	4621 25.101	4912 6.000	4241 12.000	4611 25.101
HSK-A 100	25	16.62	57.0	63.0	115.0	56.0	67.0	4621 25.102	4912 6.000	4241 12.000	4611 25.102
HSK-A 100	32	4.15	64.0	75.0	120.0	60.0	72.0	4621 32.100	4912 6.000	4241 12.000	4611 32.100
HSK-A 100	32	9.08	64.0	75.0	120.0	60.0	72.0	4621 32.101	4912 6.000	4241 12.000	4611 32.101
HSK-A 100	32	16.62	64.0	75.0	120.0	60.0	72.0	4621 32.102	4912 6.000	4241 12.000	4611 32.102

MQL technology



Product information:

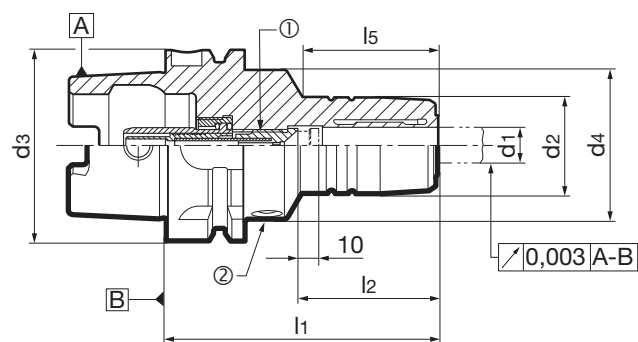
- HSK-A according to ISO 12164-1 / DIN 69893-1
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- axial length adjustment
- for MQL 2-channel systems, to company standard
- cross-section A (mm²) ratio 4:1, see info page

Scope of delivery:

- MQL 2-channel axial adjusting screw (1) art. no. 4621
- MQL 2-channel transfer unit with pipe, art. no. 4623

Suitable accessories separately available:

- replacement adjusting screw (1), art. no. 4621
- replacement clamping screw (2) art. no. 4241
- hexagonal key (2), art. no. 4912



Article no.

4612

d3	d1 mm	A mm ²	d2 mm	d4 mm	l1 mm	l2 mm	l5 mm	①	②	②	Order no.
HSK-A 32	6	2.01	26.0	40.0	80.0	36.0	29.0	4621 6.032	4912 4.000	4241 8.000	4612 6.032
HSK-A 32	6	4.15	26.0	40.0	80.0	36.0	29.0	4621 6.132	4912 4.000	4241 8.000	4612 6.132
HSK-A 32	8	2.01	28.0	40.0	80.0	36.0	29.0	4621 8.032	4912 4.000	4241 8.000	4612 8.032
HSK-A 32	8	4.15	28.0	40.0	80.0	36.0	29.0	4621 8.132	4912 4.000	4241 8.000	4612 8.132
HSK-A 32	10	2.01	30.0	40.0	85.0	40.0	35.0	4621 10.032	4912 4.000	4241 8.000	4612 10.032
HSK-A 32	10	4.15	30.0	40.0	85.0	40.0	35.0	4621 10.132	4912 4.000	4241 8.000	4612 10.132
HSK-A 32	12	2.01	32.0	40.0	90.0	45.0	40.0	4621 12.032	4912 4.000	4241 8.000	4612 12.032
HSK-A 32	12	4.15	32.0	40.0	90.0	45.0	40.0	4621 12.132	4912 4.000	4241 8.000	4612 12.132
HSK-A 40	6	2.01	26.0	33.5	80.0	36.0	46.0	4621 6.040	4912 4.000	4241 8.001	4612 6.040
HSK-A 40	6	4.15	26.0	33.5	80.0	36.0	46.0	4621 6.140	4912 4.000	4241 8.001	4612 6.140
HSK-A 40	8	2.01	28.0	33.5	80.0	36.0	46.0	4621 8.040	4912 4.000	4241 8.001	4612 8.040
HSK-A 40	8	4.15	28.0	33.5	80.0	36.0	46.0	4621 8.140	4912 4.000	4241 8.001	4612 8.140
HSK-A 40	10	2.01	30.0	33.5	80.0	40.0	46.0	4621 10.040	4912 4.000	4241 8.001	4612 10.040
HSK-A 40	10	4.15	30.0	33.5	80.0	40.0	46.0	4621 10.140	4912 4.000	4241 8.001	4612 10.140
HSK-A 40	12	2.01	32.0	33.5	90.0	45.0	56.0	4621 12.040	4912 4.000	4241 8.001	4612 12.040
HSK-A 40	12	4.15	32.0	33.5	90.0	45.0	56.0	4621 12.140	4912 4.000	4241 8.001	4612 12.140
HSK-A 40	12	9.08	32.0	33.5	90.0	45.0	56.0	4621 12.240	4912 4.000	4241 8.001	4612 12.240
HSK-A 50	6	2.01	26.0	40.0	80.0	36.0	38.0	4621 6.050	4912 4.000	4241 8.000	4612 6.050
HSK-A 50	6	4.15	26.0	40.0	80.0	36.0	38.0	4621 6.150	4912 4.000	4241 8.000	4612 6.150
HSK-A 50	8	2.01	28.0	40.0	80.0	36.0	38.0	4621 8.050	4912 4.000	4241 8.000	4612 8.050
HSK-A 50	8	4.15	28.0	40.0	80.0	36.0	38.0	4621 8.150	4912 4.000	4241 8.000	4612 8.150
HSK-A 50	10	2.01	30.0	40.0	85.0	40.0	44.0	4621 10.050	4912 4.000	4241 8.000	4612 10.050
HSK-A 50	10	4.15	30.0	40.0	85.0	40.0	44.0	4621 10.150	4912 4.000	4241 8.000	4612 10.150
HSK-A 50	12	2.01	32.0	40.0	90.0	45.0	49.0	4621 12.050	4912 4.000	4241 8.000	4612 12.050
HSK-A 50	12	4.15	32.0	40.0	90.0	45.0	49.0	4621 12.150	4912 4.000	4241 8.000	4612 12.150
HSK-A 50	12	9.08	32.0	40.0	90.0	45.0	49.0	4621 12.250	4912 4.000	4241 8.000	4612 12.250
HSK-A 50	14	2.01	34.0	40.0	90.0	45.0	49.0	4621 14.050	4912 4.000	4241 8.000	4612 14.050
HSK-A 50	14	4.15	34.0	40.0	90.0	45.0	49.0	4621 14.150	4912 4.000	4241 8.000	4612 14.150
HSK-A 50	14	9.08	34.0	40.0	90.0	45.0	49.0	4621 14.250	4912 4.000	4241 8.000	4612 14.250
HSK-A 50	16	2.01	38.0	53.0	95.0	48.0	36.0	4621 16.050	4912 5.000	4241 10.002	4612 16.050
HSK-A 50	16	4.15	38.0	53.0	95.0	48.0	36.0	4621 16.150	4912 5.000	4241 10.002	4612 16.150
HSK-A 50	16	9.08	38.0	53.0	95.0	48.0	36.0	4621 16.250	4912 5.000	4241 10.002	4612 16.250
HSK-A 50	18	2.01	40.0	57.0	95.0	48.0	36.0	4621 18.050	4912 5.000	4241 10.002	4612 18.050
HSK-A 50	18	4.15	40.0	57.0	95.0	48.0	36.0	4621 18.150	4912 5.000	4241 10.002	4612 18.150
HSK-A 50	18	9.08	40.0	57.0	95.0	48.0	36.0	4621 18.250	4912 5.000	4241 10.002	4612 18.250
HSK-A 50	20	4.15	42.0	60.0	100.0	50.0	39.0	4621 20.050	4912 5.000	4241 10.001	4612 20.050
HSK-A 50	20	9.08	42.0	60.0	100.0	50.0	39.0	4621 20.150	4912 5.000	4241 10.001	4612 20.150
HSK-A 50	20	16.62	42.0	60.0	100.0	50.0	39.0	4621 20.250	4912 5.000	4241 10.001	4612 20.250
HSK-A 63	6	2.01	26.0	50.0	80.0	36.0	34.5	4621 6.100	4912 5.000	4241 10.002	4612 6.063
HSK-A 63	6	4.15	26.0	50.0	80.0	36.0	34.5	4621 6.101	4912 5.000	4241 10.002	4612 6.163
HSK-A 63	8	2.01	28.0	50.0	80.0	36.0	35.5	4621 8.100	4912 5.000	4241 10.002	4612 8.063
HSK-A 63	8	4.15	28.0	50.0	80.0	36.0	35.5	4621 8.101	4912 5.000	4241 10.002	4612 8.163
HSK-A 63	10	2.01	30.0	50.0	85.0	40.0	39.0	4621 10.100	4912 5.000	4241 10.002	4612 10.063
HSK-A 63	10	4.15	30.0	50.0	85.0	40.0	39.0	4621 10.101	4912 5.000	4241 10.002	4612 10.163
HSK-A 63	12	2.01	32.0	50.0	90.0	45.0	45.0	4621 12.100	4912 5.000	4241 10.002	4612 12.063
HSK-A 63	12	4.15	32.0	50.0	90.0	45.0	45.0	4621 12.101	4912 5.000	4241 10.002	4612 12.163
HSK-A 63	12	9.08	32.0	50.0	90.0	45.0	45.0	4621 12.102	4912 5.000	4241 10.002	4612 12.263
HSK-A 63	14	2.01	34.0	50.0	90.0	45.0	46.0	4621 14.100	4912 5.000	4241 10.002	4612 14.063



Article no.

4612

d3	d1 mm	A mm ²	d2 mm	d4 mm	l1 mm	l2 mm	l5 mm	①	②	②	Order no.
HSK-A 63	14	4.15	34.0	50.0	90.0	45.0	46.0	4621 14.101	4912 5.000	4241 10.002	4612 14.163
HSK-A 63	14	9.08	34.0	50.0	90.0	45.0	46.0	4621 14.102	4912 5.000	4241 10.002	4612 14.263
HSK-A 63	16	2.01	38.0	50.0	95.0	48.0	51.0	4621 16.100	4912 5.000	4241 10.002	4612 16.063
HSK-A 63	16	4.15	38.0	50.0	95.0	48.0	51.0	4621 16.101	4912 5.000	4241 10.002	4612 16.163
HSK-A 63	16	9.08	38.0	50.0	95.0	48.0	51.0	4621 16.102	4912 5.000	4241 10.002	4612 16.263
HSK-A 63	18	2.01	40.0	50.0	95.0	48.0	52.0	4621 18.100	4912 5.000	4241 10.002	4612 18.063
HSK-A 63	18	4.15	40.0	50.0	95.0	48.0	52.0	4621 18.101	4912 5.000	4241 10.002	4612 18.163
HSK-A 63	18	9.08	40.0	50.0	95.0	48.0	52.0	4621 18.102	4912 5.000	4241 10.002	4612 18.263
HSK-A 63	20	4.15	42.0	50.0	100.0	50.0	58.0	4621 20.100	4912 5.000	4241 10.001	4612 20.063
HSK-A 63	20	9.08	42.0	50.0	100.0	50.0	58.0	4621 20.101	4912 5.000	4241 10.001	4612 20.163
HSK-A 63	20	16.62	42.0	50.0	100.0	50.0	58.0	4621 20.102	4912 5.000	4241 10.001	4612 20.263
HSK-A 63	25	4.15	57.0	63.0	115.0	56.0	50.0	4621 25.100	4912 6.000	4241 12.000	4612 25.063
HSK-A 63	25	9.08	57.0	63.0	115.0	56.0	50.0	4621 25.101	4912 6.000	4241 12.000	4612 25.163
HSK-A 63	25	16.62	57.0	63.0	115.0	56.0	50.0	4621 25.102	4912 6.000	4241 12.000	4612 25.263
HSK-A 63	32	4.15	64.0	75.0	120.0	60.0	58.0	4621 32.100	4912 6.000	4241 12.000	4612 32.063
HSK-A 63	32	9.08	64.0	75.0	120.0	60.0	58.0	4621 32.101	4912 6.000	4241 12.000	4612 32.163
HSK-A 63	32	16.62	64.0	75.0	120.0	60.0	58.0	4621 32.102	4912 6.000	4241 12.000	4612 32.263
HSK-A 80	6	2.01	26.0	50.0	85.0	36.0	39.0	4621 6.100	4912 5.000	4241 10.002	4612 6.080
HSK-A 80	6	4.15	26.0	50.0	85.0	36.0	39.0	4621 6.101	4912 5.000	4241 10.002	4612 6.180
HSK-A 80	8	2.01	28.0	50.0	85.0	36.0	39.0	4621 8.100	4912 5.000	4241 10.002	4612 8.080
HSK-A 80	8	4.15	28.0	50.0	85.0	36.0	39.0	4621 8.101	4912 5.000	4241 10.002	4612 8.180
HSK-A 80	10	2.01	30.0	50.0	90.0	40.0	45.0	4621 10.100	4912 5.000	4241 10.002	4612 10.080
HSK-A 80	10	4.15	30.0	50.0	90.0	40.0	45.0	4621 10.101	4912 5.000	4241 10.002	4612 10.180
HSK-A 80	12	2.01	32.0	50.0	95.0	45.0	50.0	4621 12.100	4912 5.000	4241 10.002	4612 12.080
HSK-A 80	12	4.15	32.0	50.0	95.0	45.0	50.0	4621 12.101	4912 5.000	4241 10.002	4612 12.180
HSK-A 80	12	9.08	32.0	50.0	95.0	45.0	50.0	4621 12.102	4912 5.000	4241 10.002	4612 12.280
HSK-A 80	14	2.01	34.0	50.0	95.0	45.0	50.0	4621 14.100	4912 5.000	4241 10.002	4612 14.080
HSK-A 80	14	4.15	34.0	50.0	95.0	45.0	50.0	4621 14.101	4912 5.000	4241 10.002	4612 14.180
HSK-A 80	14	9.08	34.0	50.0	95.0	45.0	50.0	4621 14.102	4912 5.000	4241 10.002	4612 14.280
HSK-A 80	16	2.01	38.0	50.0	100.0	48.0	56.0	4621 16.100	4912 5.000	4241 10.002	4612 16.080
HSK-A 80	16	4.15	38.0	50.0	100.0	48.0	56.0	4621 16.101	4912 5.000	4241 10.002	4612 16.180
HSK-A 80	16	9.08	38.0	50.0	100.0	48.0	56.0	4621 16.102	4912 5.000	4241 10.002	4612 16.280
HSK-A 80	18	2.01	40.0	50.0	100.0	48.0	56.0	4621 18.100	4912 5.000	4241 10.002	4612 18.080
HSK-A 80	18	4.15	40.0	50.0	100.0	48.0	56.0	4621 18.101	4912 5.000	4241 10.002	4612 18.180
HSK-A 80	18	9.08	40.0	50.0	100.0	48.0	56.0	4621 18.102	4912 5.000	4241 10.002	4612 18.280
HSK-A 80	20	4.15	42.0	50.0	105.0	50.0	62.0	4621 20.100	4912 5.000	4241 10.001	4612 20.080
HSK-A 80	20	9.08	42.0	50.0	105.0	50.0	62.0	4621 20.101	4912 5.000	4241 10.001	4612 20.180
HSK-A 80	20	16.62	42.0	50.0	105.0	50.0	62.0	4621 20.102	4912 5.000	4241 10.001	4612 20.280
HSK-A 80	25	4.15	57.0	63.0	115.0	56.0	70.0	4621 25.100	4912 6.000	4241 12.000	4612 25.080
HSK-A 80	25	9.08	57.0	63.0	115.0	56.0	70.0	4621 25.101	4912 6.000	4241 12.000	4612 25.180
HSK-A 80	25	16.62	57.0	63.0	115.0	56.0	70.0	4621 25.102	4912 6.000	4241 12.000	4612 25.280
HSK-A 80	32	4.15	64.0	75.0	120.0	60.0	58.0	4621 32.100	4912 6.000	4241 12.000	4612 32.080
HSK-A 80	32	9.08	64.0	75.0	120.0	60.0	58.0	4621 32.101	4912 6.000	4241 12.000	4612 32.180
HSK-A 80	32	16.62	64.0	75.0	120.0	60.0	58.0	4621 32.102	4912 6.000	4241 12.000	4612 32.280
HSK-A 100	6	2.01	26.0	50.0	85.0	36.0	36.0	4621 6.100	4912 5.000	4241 10.002	4612 6.100
HSK-A 100	6	4.15	26.0	50.0	85.0	36.0	36.0	4621 6.101	4912 5.000	4241 10.002	4612 6.101
HSK-A 100	8	2.01	28.0	50.0	85.0	36.0	36.0	4621 8.100	4912 5.000	4241 10.002	4612 8.100
HSK-A 100	8	4.15	28.0	50.0	85.0	36.0	36.0	4621 8.101	4912 5.000	4241 10.002	4612 8.101
HSK-A 100	10	2.01	30.0	50.0	90.0	40.0	42.0	4621 10.100	4912 5.000	4241 10.002	4612 10.100
HSK-A 100	10	4.15	30.0	50.0	90.0	40.0	42.0	4621 10.101	4912 5.000	4241 10.002	4612 10.101
HSK-A 100	12	2.01	32.0	50.0	95.0	45.0	47.0	4621 12.100	4912 5.000	4241 10.002	4612 12.100
HSK-A 100	12	4.15	32.0	50.0	95.0	45.0	47.0	4621 12.101	4912 5.000	4241 10.002	4612 12.101
HSK-A 100	12	9.08	32.0	50.0	95.0	45.0	47.0	4621 12.102	4912 5.000	4241 10.002	4612 12.102
HSK-A 100	14	2.01	34.0	50.0	95.0	45.0	47.0	4621 14.100	4912 5.000	4241 10.002	4612 14.100
HSK-A 100	14	4.15	34.0	50.0	95.0	45.0	47.0	4621 14.101	4912 5.000	4241 10.002	4612 14.101
HSK-A 100	14	9.08	34.0	50.0	95.0	45.0	47.0	4621 14.102	4912 5.000	4241 10.002	4612 14.102
HSK-A 100	16	2.01	38.0	50.0	100.0	48.0	53.0	4621 16.100	4912 5.000	4241 10.002	4612 16.100
HSK-A 100	16	4.15	38.0	50.0	100.0	48.0	53.0	4621 16.101	4912 5.000	4241 10.002	4612 16.101
HSK-A 100	16	9.08	38.0	50.0	100.0	48.0	53.0	4621 16.102	4912 5.000	4241 10.002	4612 16.102
HSK-A 100	18	2.01	40.0	50.0	100.0	48.0	53.0	4621 18.100	4912 5.000	4241 10.002	4612 18.100
HSK-A 100	18	4.15	40.0	50.0	100.0	48.0	53.0	4621 18.101	4912 5.000	4241 10.002	4612 18.101
HSK-A 100	18	9.08	40.0	50.0	100.0	48.0	53.0	4621 18.102	4912 5.000	4241 10.002	4612 18.102
HSK-A 100	20	4.15	42.0	50.0	105.0	50.0	59.0	4621 20.100	4912 5.000	4241 10.001	4612 20.100
HSK-A 100	20	9.08	42.0	50.0	105.0	50.0	59.0	4621 20.101	4912 5.000	4241 10.001	4612 20.101
HSK-A 100	20	16.62	42.0	50.0	105.0	50.0	59.0	4621 20.102	4912 5.000	4241 10.001	4612 20.102
HSK-A 100	25	4.15	57.0	63.0	115.0	56.0	67.0	4621 25.100	4912 6.000	4241 12.000	4612 25.100
HSK-A 100	25	9.08	57.0	63.0	115.0	56.0	67.0	4621 25.101	4912 6.000	4241 12.000	4612 25.101
HSK-A 100	25	16.62	57.0	63.0	115.0	56.0	67.0	4621 25.102	4912 6.000	4241 12.000	4612 25.102
HSK-A 100	32	4.15	64.0	75.0	120.0	60.0	72.0	4621 32.100	4912 6.000	4241 12.000	4612 32.100
HSK-A 100	32	9.08	64.0	75.0	120.0	60.0	72.0	4621 32.101	4912 6.000	4241 12.000	4612 32.101
HSK-A 100	32	16.62	64.0	75.0	120.0	60.0	72.0	4621 32.102	4912 6.000	4241 12.000	4612 32.102

MQL technology



MQL 2-channel shrink fit chucks HSK-A (manual tool change)

Article no. 4613



Product information:

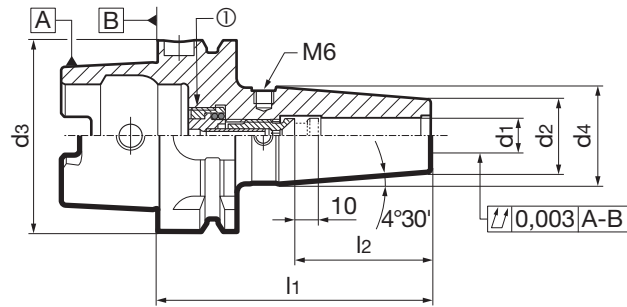
- HSK-A according to ISO 12164-1 / DIN 69893-1
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- for MQL 2-channel systems, to company standard
- incl. balancing thread 4xM6/6xM6
- even in excess lengths l1 = 120 mm (concentricity 4 µm) and 160 mm (concentricity 5 µm)
- cross-section A (mm²) ratio 4:1, see info page

Scope of delivery:

- MQL 2-channel axial adjusting screw (1) art. no. 4621
- MQL 2-channel filler with tube art. no. 4622

Suitable accessories separately available:

- replacement adjusting screw (1), art. no. 4621



Article no.

4613

d3	d1 mm	A mm ²	d2 mm	d4 mm	l1 mm	l2 mm	①	Order no.
HSK-A 32	6	2.01	21	25.5	80	36	4621 6.032	4613 6.032
HSK-A 32	6	4.15	21	25.5	80	36	4621 6.132	4613 6.132
HSK-A 32	8	2.01	21	25.5	80	36	4621 8.032	4613 8.032
HSK-A 32	8	4.15	21	25.5	80	36	4621 8.132	4613 8.132
HSK-A 32	10	2.01	24	31.7	85	40	4621 10.032	4613 10.032
HSK-A 32	10	4.15	24	31.7	85	40	4621 10.132	4613 10.132
HSK-A 32	12	2.01	24	32.3	90	45	4621 12.032	4613 12.032
HSK-A 32	12	4.15	24	32.3	90	45	4621 12.132	4613 12.132
HSK-A 40	6	2.01	21	27.0	80	36	4621 6.040	4613 6.040
HSK-A 40	6	4.15	21	27.0	80	36	4621 6.140	4613 6.140
HSK-A 40	8	2.01	21	27.0	80	36	4621 8.040	4613 8.040
HSK-A 40	8	4.15	21	27.0	80	36	4621 8.140	4613 8.140
HSK-A 40	10	2.01	24	32.0	80	40	4621 10.040	4613 10.040
HSK-A 40	10	4.15	24	32.0	80	40	4621 10.140	4613 10.140
HSK-A 40	12	2.01	24	32.0	90	45	4621 12.040	4613 12.040
HSK-A 40	12	4.15	24	32.0	90	45	4621 12.140	4613 12.140
HSK-A 40	12	9.08	24	32.0	90	45	4621 12.240	4613 12.240
HSK-A 40	14	2.01	27	33.5	90	45	4621 14.040	4613 14.040
HSK-A 40	14	4.15	27	33.5	90	45	4621 14.140	4613 14.140
HSK-A 40	14	9.08	27	33.5	90	45	4621 14.240	4613 14.240
HSK-A 40	16	2.01	27	33.5	90	48	4621 16.040	4613 16.040
HSK-A 40	16	4.15	27	33.5	90	48	4621 16.140	4613 16.140
HSK-A 40	16	9.08	27	33.5	90	48	4621 16.240	4613 16.240
HSK-A 50	6	2.01	21	27.0	80	36	4621 6.050	4613 6.050
HSK-A 50	6	4.15	21	27.0	80	36	4621 6.150	4613 6.150
HSK-A 50	8	2.01	21	27.0	80	36	4621 8.050	4613 8.050
HSK-A 50	8	4.15	21	27.0	80	36	4621 8.150	4613 8.150
HSK-A 50	10	2.01	24	32.0	85	40	4621 10.050	4613 10.050
HSK-A 50	10	4.15	24	32.0	85	40	4621 10.150	4613 10.150
HSK-A 50	12	2.01	24	32.0	90	45	4621 12.050	4613 12.050
HSK-A 50	12	4.15	24	32.0	90	45	4621 12.150	4613 12.150
HSK-A 50	12	9.08	24	32.0	90	45	4621 12.250	4613 12.250
HSK-A 50	14	2.01	27	34.0	90	45	4621 14.050	4613 14.050
HSK-A 50	14	4.15	27	34.0	90	45	4621 14.150	4613 14.150
HSK-A 50	14	9.08	27	34.0	90	45	4621 14.250	4613 14.250
HSK-A 50	16	2.01	27	34.0	95	48	4621 16.050	4613 16.050
HSK-A 50	16	4.15	27	34.0	95	48	4621 16.150	4613 16.150
HSK-A 50	16	9.08	27	34.0	95	48	4621 16.250	4613 16.250
HSK-A 50	18	2.01	33	41.5	95	48	4621 18.050	4613 18.050
HSK-A 50	18	4.15	33	41.5	95	48	4621 18.150	4613 18.150
HSK-A 50	18	9.08	33	41.5	95	48	4621 18.250	4613 18.250
HSK-A 50	20	4.15	33	41.5	100	50	4621 20.050	4613 20.050
HSK-A 50	20	9.08	33	41.5	100	50	4621 20.150	4613 20.150
HSK-A 50	20	16.62	33	41.5	100	50	4621 20.250	4613 20.250
HSK-A 63	6	2.01	21	27.0	80	36	4621 6.100	4613 6.063
HSK-A 63	6	4.15	21	27.0	80	36	4621 6.101	4613 6.163
HSK-A 63	8	2.01	21	27.0	80	36	4621 8.100	4613 8.063
HSK-A 63	8	4.15	21	27.0	80	36	4621 8.101	4613 8.163

MQL technology



Article no.

4613

d3	d1 mm	A mm ²	d2 mm	d4 mm	l1 mm	l2 mm	①	Order no.
HSK-A 63	10	2.01	24	32.0	85	40	4621 10.100	4613 10.063
HSK-A 63	10	4.15	24	32.0	85	40	4621 10.101	4613 10.163
HSK-A 63	12	2.01	24	32.0	90	45	4621 12.100	4613 12.063
HSK-A 63	12	4.15	24	32.0	90	45	4621 12.101	4613 12.163
HSK-A 63	12	9.08	24	32.0	90	45	4621 12.102	4613 12.263
HSK-A 63	14	2.01	27	34.0	90	45	4621 14.100	4613 14.063
HSK-A 63	14	4.15	27	34.0	90	45	4621 14.101	4613 14.163
HSK-A 63	14	9.08	27	34.0	90	45	4621 14.102	4613 14.263
HSK-A 63	16	2.01	27	34.0	95	48	4621 16.100	4613 16.063
HSK-A 63	16	4.15	27	34.0	95	48	4621 16.101	4613 16.163
HSK-A 63	16	9.08	27	34.0	95	48	4621 16.102	4613 16.263
HSK-A 63	18	2.01	33	42.0	95	48	4621 18.100	4613 18.063
HSK-A 63	18	4.15	33	42.0	95	48	4621 18.101	4613 18.163
HSK-A 63	18	9.08	33	42.0	95	48	4621 18.102	4613 18.263
HSK-A 63	20	4.15	33	42.0	100	50	4621 20.100	4613 20.063
HSK-A 63	20	9.08	33	42.0	100	50	4621 20.101	4613 20.163
HSK-A 63	20	16.62	33	42.0	100	50	4621 20.102	4613 20.263
HSK-A 63	25	4.15	44	52.5	115	56	4621 25.100	4613 25.063
HSK-A 63	25	9.08	44	52.5	115	56	4621 25.101	4613 25.163
HSK-A 63	25	16.62	44	52.5	115	56	4621 25.102	4613 25.263
HSK-A 63	32	4.15	44	52.5	120	60	4621 32.100	4613 32.063
HSK-A 63	32	9.08	44	52.5	120	60	4621 32.101	4613 32.163
HSK-A 63	32	16.62	44	52.5	120	60	4621 32.102	4613 32.263
HSK-A 63	6	2.01	21	27.0	160	36	4621 6.032	4613 106.063
HSK-A 63	6	4.15	21	27.0	160	36	4621 6.132	4613 106.163
HSK-A 63	8	2.01	21	27.0	160	36	4621 8.040	4613 108.063
HSK-A 63	8	4.15	21	27.0	160	36	4621 8.140	4613 108.163
HSK-A 63	10	2.01	24	32.0	160	40	4621 10.050	4613 110.063
HSK-A 63	10	4.15	24	32.0	160	40	4621 10.150	4613 110.163
HSK-A 63	12	2.01	24	32.0	160	45	4621 12.100	4613 112.063
HSK-A 63	12	4.15	24	32.0	160	45	4621 12.101	4613 112.163
HSK-A 63	12	9.08	24	32.0	160	45	4621 12.102	4613 112.263
HSK-A 63	14	2.01	27	34.0	160	45	4621 14.100	4613 114.063
HSK-A 63	14	4.15	27	34.0	160	45	4621 14.101	4613 114.163
HSK-A 63	14	9.08	27	34.0	160	45	4621 14.102	4613 114.263
HSK-A 63	16	2.01	27	34.0	160	48	4621 16.100	4613 116.063
HSK-A 63	16	4.15	27	34.0	160	48	4621 16.101	4613 116.163
HSK-A 63	16	9.08	27	34.0	160	48	4621 16.102	4613 116.263
HSK-A 63	18	2.01	33	42.0	160	48	4621 18.100	4613 118.063
HSK-A 63	18	4.15	33	42.0	160	48	4621 18.101	4613 118.163
HSK-A 63	18	9.08	33	42.0	160	48	4621 18.102	4613 118.263
HSK-A 63	20	4.15	33	42.0	160	50	4621 20.100	4613 120.063
HSK-A 63	20	9.08	33	42.0	160	50	4621 20.101	4613 120.163
HSK-A 63	20	16.62	33	42.0	160	50	4621 20.102	4613 120.263
HSK-A 63	25	4.15	44	52.5	160	56	4621 25.100	4613 125.063
HSK-A 63	25	9.08	44	52.5	160	56	4621 25.101	4613 125.163
HSK-A 63	25	16.62	44	52.5	160	56	4621 25.102	4613 125.263
HSK-A 63	32	4.15	44	52.5	160	60	4621 32.100	4613 132.063
HSK-A 63	32	9.08	44	52.5	160	60	4621 32.101	4613 132.163
HSK-A 63	32	16.62	44	52.5	160	60	4621 32.102	4613 132.263
HSK-A 63	6	2.01	21	27.0	120	36	4621 6.032	4613 206.063
HSK-A 63	6	4.15	21	27.0	120	36	4621 6.132	4613 206.163
HSK-A 63	8	2.01	21	27.0	120	36	4621 8.040	4613 208.063
HSK-A 63	8	4.15	21	27.0	120	36	4621 8.140	4613 208.163
HSK-A 63	10	2.01	24	32.0	120	40	4621 10.050	4613 210.063
HSK-A 63	10	4.15	24	32.0	120	40	4621 10.150	4613 210.163
HSK-A 63	12	2.01	24	32.0	120	45	4621 12.100	4613 212.063
HSK-A 63	12	4.15	24	32.0	120	45	4621 12.101	4613 212.163
HSK-A 63	12	9.08	24	32.0	120	45	4621 12.102	4613 212.263
HSK-A 63	14	2.01	27	34.0	120	45	4621 14.100	4613 214.063
HSK-A 63	14	4.15	27	34.0	120	45	4621 14.101	4613 214.163
HSK-A 63	14	9.08	27	34.0	120	45	4621 14.102	4613 214.263
HSK-A 63	16	2.01	27	34.0	120	48	4621 16.100	4613 216.063
HSK-A 63	16	4.15	27	34.0	120	48	4621 16.101	4613 216.163
HSK-A 63	16	9.08	27	34.0	120	48	4621 16.102	4613 216.263
HSK-A 63	18	2.01	33	42.0	120	48	4621 18.100	4613 218.063
HSK-A 63	18	4.15	33	42.0	120	48	4621 18.101	4613 218.163
HSK-A 63	18	9.08	33	42.0	120	48	4621 18.102	4613 218.263
HSK-A 63	20	4.15	33	42.0	120	50	4621 20.100	4613 220.063
HSK-A 63	20	9.08	33	42.0	120	50	4621 20.101	4613 220.163
HSK-A 63	20	16.62	33	42.0	120	50	4621 20.102	4613 220.263
HSK-A 80	6	2.01	21	27.0	85	36	4621 6.100	4613 6.080
HSK-A 80	6	4.15	21	27.0	85	36	4621 6.101	4613 6.180
HSK-A 80	8	2.01	21	27.0	85	36	4621 8.100	4613 8.080
HSK-A 80	8	4.15	21	27.0	85	36	4621 8.101	4613 8.180
HSK-A 80	10	2.01	24	32.0	90	40	4621 10.100	4613 10.080
HSK-A 80	10	4.15	24	32.0	90	40	4621 10.101	4613 10.180
HSK-A 80	12	2.01	24	32.0	95	45	4621 12.100	4613 12.080
HSK-A 80	12	4.15	24	32.0	95	45	4621 12.101	4613 12.180
HSK-A 80	12	9.08	24	32.0	95	45	4621 12.102	4613 12.280
HSK-A 80	14	2.01	27	34.0	95	45	4621 14.100	4613 14.080
HSK-A 80	14	4.15	27	34.0	95	45	4621 14.101	4613 14.180
HSK-A 80	14	9.08	27	34.0	95	45	4621 14.102	4613 14.280
HSK-A 80	16	2.01	27	34.0	100	48	4621 16.100	4613 16.080

MQL technology



Article no.

4613

d3	d1 mm	A mm ²	d2 mm	d4 mm	l1 mm	l2 mm	①	Order no.
HSK-A 80	16	4.15	27	34.0	100	48	4621 16.101	4613 16.180
HSK-A 80	16	9.08	27	34.0	100	48	4621 16.102	4613 16.280
HSK-A 80	18	2.01	33	42.0	100	48	4621 18.100	4613 18.080
HSK-A 80	18	4.15	33	42.0	100	48	4621 18.101	4613 18.180
HSK-A 80	18	9.08	33	42.0	100	48	4621 18.102	4613 18.280
HSK-A 80	20	4.15	33	42.0	105	50	4621 20.100	4613 20.080
HSK-A 80	20	9.08	33	42.0	105	50	4621 20.101	4613 20.180
HSK-A 80	20	16.62	33	42.0	105	50	4621 20.102	4613 20.280
HSK-A 80	25	4.15	44	53.0	115	56	4621 25.100	4613 25.080
HSK-A 80	25	9.08	44	53.0	115	56	4621 25.101	4613 25.180
HSK-A 80	25	16.62	44	53.0	115	56	4621 25.102	4613 25.280
HSK-A 80	32	4.15	44	53.0	120	60	4621 32.100	4613 32.080
HSK-A 80	32	9.08	44	53.0	120	60	4621 32.101	4613 32.180
HSK-A 80	32	16.62	44	53.0	120	60	4621 32.102	4613 32.280
HSK-A 100	6	2.01	21	27.0	85	36	4621 6.100	4613 6.100
HSK-A 100	6	4.15	21	27.0	85	36	4621 6.101	4613 6.101
HSK-A 100	8	2.01	21	27.0	85	36	4621 8.100	4613 8.100
HSK-A 100	8	4.15	21	27.0	85	36	4621 8.101	4613 8.101
HSK-A 100	10	2.01	24	32.0	90	40	4621 10.100	4613 10.100
HSK-A 100	10	4.15	24	32.0	90	40	4621 10.101	4613 10.101
HSK-A 100	12	2.01	24	32.0	95	45	4621 12.100	4613 12.100
HSK-A 100	12	4.15	24	32.0	95	45	4621 12.101	4613 12.101
HSK-A 100	12	9.08	24	32.0	95	45	4621 12.102	4613 12.102
HSK-A 100	14	2.01	27	34.0	95	45	4621 14.100	4613 14.100
HSK-A 100	14	4.15	27	34.0	95	45	4621 14.101	4613 14.101
HSK-A 100	14	9.08	27	34.0	95	45	4621 14.102	4613 14.102
HSK-A 100	16	2.01	27	34.0	100	48	4621 16.100	4613 16.100
HSK-A 100	16	4.15	27	34.0	100	48	4621 16.101	4613 16.101
HSK-A 100	16	9.08	27	34.0	100	48	4621 16.102	4613 16.102
HSK-A 100	18	2.01	33	42.0	100	48	4621 18.100	4613 18.100
HSK-A 100	18	4.15	33	42.0	100	48	4621 18.101	4613 18.101
HSK-A 100	18	9.08	33	42.0	100	48	4621 18.102	4613 18.102
HSK-A 100	20	4.15	33	42.0	105	50	4621 20.100	4613 20.100
HSK-A 100	20	9.08	33	42.0	105	50	4621 20.101	4613 20.101
HSK-A 100	20	16.62	33	42.0	105	50	4621 20.102	4613 20.102
HSK-A 100	25	4.15	44	53.0	115	56	4621 25.100	4613 25.100
HSK-A 100	25	9.08	44	53.0	115	56	4621 25.101	4613 25.101
HSK-A 100	25	16.62	44	53.0	115	56	4621 25.102	4613 25.102
HSK-A 100	32	4.15	44	53.0	120	60	4621 32.100	4613 32.100
HSK-A 100	32	9.08	44	53.0	120	60	4621 32.101	4613 32.101
HSK-A 100	32	16.62	44	53.0	120	60	4621 32.102	4613 32.102
HSK-A 100	6	2.01	21	27.0	160	36	4621 6.032	4613 106.100
HSK-A 100	6	4.15	21	27.0	160	36	4621 6.132	4613 106.101
HSK-A 100	8	2.01	21	27.0	160	36	4621 8.040	4613 108.100
HSK-A 100	8	4.15	21	27.0	160	36	4621 8.140	4613 108.101
HSK-A 100	10	2.01	24	32.0	160	40	4621 10.050	4613 110.100
HSK-A 100	10	4.15	24	32.0	160	40	4621 10.150	4613 110.101
HSK-A 100	12	2.01	24	32.0	160	45	4621 12.100	4613 112.100
HSK-A 100	12	4.15	24	32.0	160	45	4621 114.101	4613 112.101
HSK-A 100	12	9.08	24	32.0	160	45	4621 114.102	4613 112.102
HSK-A 100	14	2.01	27	34.0	160	45	4621 14.100	4613 114.100
HSK-A 100	14	4.15	27	34.0	160	45	4621 14.101	4613 114.101
HSK-A 100	14	9.08	27	34.0	160	45	4621 14.102	4613 114.102
HSK-A 100	16	2.01	27	34.0	160	48	4621 16.100	4613 116.100
HSK-A 100	16	4.15	27	34.0	160	48	4621 16.101	4613 116.101
HSK-A 100	16	9.08	27	34.0	160	48	4621 16.102	4613 116.102
HSK-A 100	18	2.01	33	42.0	160	48	4621 18.100	4613 118.100
HSK-A 100	18	4.15	33	42.0	160	48	4621 18.101	4613 118.101
HSK-A 100	18	9.08	33	42.0	160	48	4621 18.102	4613 118.102
HSK-A 100	20	4.15	33	42.0	160	50	4621 20.100	4613 120.100
HSK-A 100	20	9.08	33	42.0	160	50	4621 20.101	4613 120.101
HSK-A 100	20	16.62	33	42.0	160	50	4621 20.102	4613 120.102
HSK-A 100	25	4.15	44	53.0	160	56	4621 25.100	4613 125.100
HSK-A 100	25	9.08	44	53.0	160	56	4621 25.101	4613 125.101
HSK-A 100	25	16.62	44	53.0	160	56	4621 25.102	4613 125.102
HSK-A 100	32	4.15	44	53.0	160	60	4621 32.100	4613 132.100
HSK-A 100	32	9.08	44	53.0	160	60	4621 32.101	4613 132.101
HSK-A 100	32	16.62	44	53.0	160	60	4621 32.102	4613 132.102

MLL technology



MQL 2-channel shrink fit chucks HSK-A (automatic tool change)

Article no. 4614



Product information:

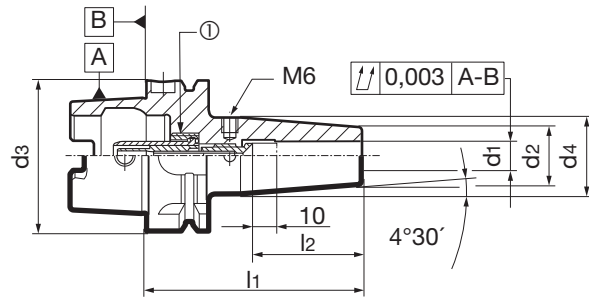
- HSK-A according to ISO 12164-1 / DIN 69893-1
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- for MQL 2-channel systems, to company standard
- incl. balancing thread 4xM6/6xM6
- even in excess lengths l1 = 120 mm (concentricity 4 µm) and 160 mm (concentricity 5 µm)
- cross-section A (mm²) ratio 4:1, see info page

Scope of delivery:

- MQL 2-channel axial adjusting screw (1) art. no. 4621
- MQL 2-channel transfer unit with pipe, art. no. 4623

Suitable accessories separately available:

- replacement adjusting screw (1), art. no. 4621



Article no.

4614

d3	d1 mm	A mm ²	d2 mm	d4 mm	l1 mm	l2 mm	①	Order no.
HSK-A 32	6	2.01	21	25.5	80	36	4621 6.032	4614 6.032
HSK-A 32	6	4.15	21	25.5	80	36	4621 6.132	4614 6.132
HSK-A 32	8	2.01	21	25.5	80	36	4621 8.032	4614 8.032
HSK-A 32	8	4.15	21	25.5	80	36	4621 8.132	4614 8.132
HSK-A 32	10	2.01	24	31.7	85	40	4621 10.032	4614 10.032
HSK-A 32	10	4.15	24	31.7	85	40	4621 10.132	4614 10.132
HSK-A 32	12	2.01	24	32.3	90	45	4621 12.032	4614 12.032
HSK-A 32	12	4.15	24	32.3	90	45	4621 12.132	4614 12.132
HSK-A 40	6	2.01	21	27.0	80	36	4621 6.040	4614 6.040
HSK-A 40	6	4.15	21	27.0	80	36	4621 6.140	4614 6.140
HSK-A 40	8	2.01	21	27.0	80	36	4621 8.040	4614 8.040
HSK-A 40	8	4.15	21	27.0	80	36	4621 8.140	4614 8.140
HSK-A 40	10	2.01	24	32.0	80	40	4621 10.040	4614 10.040
HSK-A 40	10	4.15	24	32.0	80	40	4621 10.140	4614 10.140
HSK-A 40	12	2.01	24	32.0	90	45	4621 12.040	4614 12.040
HSK-A 40	12	4.15	24	32.0	90	45	4621 12.140	4614 12.140
HSK-A 40	12	9.08	24	32.0	90	45	4621 12.240	4614 12.240
HSK-A 40	14	2.01	27	33.5	90	45	4621 14.040	4614 14.040
HSK-A 40	14	4.15	27	33.5	90	45	4621 14.140	4614 14.140
HSK-A 40	14	9.08	27	33.5	90	45	4621 14.240	4614 14.240
HSK-A 40	16	2.01	27	33.5	90	48	4621 16.040	4614 16.040
HSK-A 40	16	4.15	27	33.5	90	48	4621 16.140	4614 16.140
HSK-A 40	16	9.08	27	33.5	90	48	4621 16.240	4614 16.240
HSK-A 50	6	2.01	21	27.0	80	36	4621 6.050	4614 6.050
HSK-A 50	6	4.15	21	27.0	80	36	4621 6.150	4614 6.150
HSK-A 50	8	2.01	21	27.0	80	36	4621 8.050	4614 8.050
HSK-A 50	8	4.15	21	27.0	80	36	4621 8.150	4614 8.150
HSK-A 50	10	2.01	24	32.0	85	40	4621 10.050	4614 10.050
HSK-A 50	10	4.15	24	32.0	85	40	4621 10.150	4614 10.150
HSK-A 50	12	2.01	24	32.0	90	45	4621 12.050	4614 12.050
HSK-A 50	12	4.15	24	32.0	90	45	4621 12.150	4614 12.150
HSK-A 50	12	9.08	24	32.0	90	45	4621 12.250	4614 12.250
HSK-A 50	14	2.01	27	34.0	90	45	4621 14.050	4614 14.050
HSK-A 50	14	4.15	27	34.0	90	45	4621 14.150	4614 14.150
HSK-A 50	14	9.08	27	34.0	90	45	4621 14.250	4614 14.250
HSK-A 50	16	2.01	27	34.0	95	48	4621 16.050	4614 16.050
HSK-A 50	16	4.15	27	34.0	95	48	4621 16.150	4614 16.150
HSK-A 50	16	9.08	27	34.0	95	48	4621 16.250	4614 16.250
HSK-A 50	18	2.01	33	41.5	95	48	4621 18.050	4614 18.050
HSK-A 50	18	4.15	33	41.5	95	48	4621 18.150	4614 18.150
HSK-A 50	18	9.08	33	41.5	95	48	4621 18.250	4614 18.250
HSK-A 50	20	4.15	33	41.5	100	50	4621 20.050	4614 20.050
HSK-A 50	20	9.08	33	41.5	100	50	4621 20.150	4614 20.150
HSK-A 50	20	16.62	33	41.5	100	50	4621 20.250	4614 20.250
HSK-A 63	6	2.01	21	27.0	80	36	4621 6.100	4614 6.063
HSK-A 63	6	4.15	21	27.0	80	36	4621 6.101	4614 6.163
HSK-A 63	8	2.01	21	27.0	80	36	4621 8.100	4614 8.063
HSK-A 63	8	4.15	21	27.0	80	36	4621 8.101	4614 8.163

MQL technology



Article no.

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d3	d1 mm	A mm ²	d2 mm	d4 mm	l1 mm	l2 mm	①	Order no.
HSK-A 63	10	2.01	24	32.0	85	40	4621 10.100	4614 10.063
HSK-A 63	10	4.15	24	32.0	85	40	4621 10.101	4614 10.163
HSK-A 63	12	2.01	24	32.0	90	45	4621 12.100	4614 12.063
HSK-A 63	12	4.15	24	32.0	90	45	4621 12.101	4614 12.163
HSK-A 63	12	9.08	24	32.0	90	45	4621 12.102	4614 12.263
HSK-A 63	14	2.01	27	34.0	90	45	4621 14.100	4614 14.063
HSK-A 63	14	4.15	27	34.0	90	45	4621 14.101	4614 14.163
HSK-A 63	14	9.08	27	34.0	90	45	4621 14.102	4614 14.263
HSK-A 63	16	2.01	27	34.0	95	48	4621 16.100	4614 16.063
HSK-A 63	16	4.15	27	34.0	95	48	4621 16.101	4614 16.163
HSK-A 63	16	9.08	27	34.0	95	48	4621 16.102	4614 16.263
HSK-A 63	18	2.01	33	42.0	95	48	4621 18.100	4614 18.063
HSK-A 63	18	4.15	33	42.0	95	48	4621 18.101	4614 18.163
HSK-A 63	18	9.08	33	42.0	95	48	4621 18.102	4614 18.263
HSK-A 63	20	4.15	33	42.0	100	50	4621 20.100	4614 20.063
HSK-A 63	20	9.08	33	42.0	100	50	4621 20.101	4614 20.163
HSK-A 63	20	16.62	33	42.0	100	50	4621 20.102	4614 20.263
HSK-A 63	25	4.15	44	52.5	115	56	4621 25.100	4614 25.063
HSK-A 63	25	9.08	44	52.5	115	56	4621 25.101	4614 25.163
HSK-A 63	25	16.62	44	52.5	115	56	4621 25.102	4614 25.263
HSK-A 63	32	4.15	44	52.5	120	60	4621 32.100	4614 32.063
HSK-A 63	32	9.08	44	52.5	120	60	4621 32.101	4614 32.163
HSK-A 63	32	16.62	44	52.5	120	60	4621 32.102	4614 32.263
HSK-A 63	6	2.01	21	27.0	160	36	4621 6.032	4614 106.063
HSK-A 63	6	4.15	21	27.0	160	36	4621 6.132	4614 106.163
HSK-A 63	8	2.01	21	27.0	160	36	4621 8.040	4614 108.063
HSK-A 63	8	4.15	21	27.0	160	36	4621 8.140	4614 108.163
HSK-A 63	10	2.01	24	32.0	160	40	4621 10.050	4614 110.063
HSK-A 63	10	4.15	24	32.0	160	40	4621 10.150	4614 110.163
HSK-A 63	12	2.01	24	32.0	160	45	4621 12.100	4614 112.063
HSK-A 63	12	4.15	24	32.0	160	45	4621 12.101	4614 112.163
HSK-A 63	12	9.08	24	32.0	160	45	4621 12.102	4614 112.263
HSK-A 63	14	2.01	27	34.0	160	45	4621 14.100	4614 114.063
HSK-A 63	14	4.15	27	34.0	160	45	4621 14.101	4614 114.163
HSK-A 63	14	9.08	27	34.0	160	45	4621 14.102	4614 114.263
HSK-A 63	16	2.01	27	34.0	160	48	4621 16.100	4614 116.063
HSK-A 63	16	4.15	27	34.0	160	48	4621 16.101	4614 116.163
HSK-A 63	16	9.08	27	34.0	160	48	4621 16.102	4614 116.263
HSK-A 63	18	2.01	33	42.0	160	48	4621 18.100	4614 118.063
HSK-A 63	18	4.15	33	42.0	160	48	4621 18.101	4614 118.163
HSK-A 63	18	9.08	33	42.0	160	48	4621 18.102	4614 118.263
HSK-A 63	20	4.15	33	42.0	160	50	4621 20.100	4614 120.063
HSK-A 63	20	9.08	33	42.0	160	50	4621 20.101	4614 120.163
HSK-A 63	20	16.62	33	42.0	160	50	4621 20.102	4614 120.263
HSK-A 63	25	4.15	44	52.5	160	56	4621 25.100	4614 125.063
HSK-A 63	25	9.08	44	52.5	160	56	4621 25.101	4614 125.163
HSK-A 63	25	16.62	44	52.5	160	56	4621 25.102	4614 125.263
HSK-A 63	32	4.15	44	52.5	160	60	4621 32.100	4614 132.063
HSK-A 63	32	9.08	44	52.5	160	60	4621 32.101	4614 132.163
HSK-A 63	32	16.62	44	52.5	160	60	4621 32.102	4614 132.263
HSK-A 63	6	2.01	21	27.0	120	36	4621 6.032	4614 206.063
HSK-A 63	6	4.15	21	27.0	120	36	4621 6.132	4614 206.163
HSK-A 63	8	2.01	21	27.0	120	36	4621 8.040	4614 208.063
HSK-A 63	8	4.15	21	27.0	120	36	4621 8.140	4614 208.163
HSK-A 63	10	2.01	24	32.0	120	40	4621 10.050	4614 210.063
HSK-A 63	10	4.15	24	32.0	120	40	4621 10.150	4614 210.163
HSK-A 63	12	2.01	24	32.0	120	45	4621 12.100	4614 212.063
HSK-A 63	12	4.15	24	32.0	120	45	4621 12.101	4614 212.163
HSK-A 63	12	9.08	24	32.0	120	45	4621 12.102	4614 212.263
HSK-A 63	14	2.01	27	34.0	120	45	4621 14.100	4614 214.063
HSK-A 63	14	4.15	27	34.0	120	45	4621 14.101	4614 214.163
HSK-A 63	14	9.08	27	34.0	120	45	4621 14.102	4614 214.263
HSK-A 63	16	2.01	27	34.0	120	48	4621 16.100	4614 216.063
HSK-A 63	16	4.15	27	34.0	120	48	4621 16.101	4614 216.163
HSK-A 63	16	9.08	27	34.0	120	48	4621 16.102	4614 216.263
HSK-A 63	18	2.01	33	42.0	120	48	4621 18.100	4614 218.063
HSK-A 63	18	4.15	33	42.0	120	48	4621 18.101	4614 218.163
HSK-A 63	18	9.08	33	42.0	120	48	4621 18.102	4614 218.263
HSK-A 63	20	4.15	33	42.0	120	50	4621 20.100	4614 220.063
HSK-A 63	20	9.08	33	42.0	120	50	4621 20.101	4614 220.163
HSK-A 63	20	16.62	33	42.0	120	50	4621 20.102	4614 220.263
HSK-A 80	6	2.01	21	27.0	85	36	4621 6.100	4614 6.080
HSK-A 80	6	4.15	21	27.0	85	36	4621 6.101	4614 6.180
HSK-A 80	8	2.01	21	27.0	85	36	4621 8.100	4614 8.080
HSK-A 80	8	4.15	21	27.0	85	36	4621 8.101	4614 8.180
HSK-A 80	10	2.01	24	32.0	90	40	4621 10.100	4614 10.080
HSK-A 80	10	4.15	24	32.0	90	40	4621 10.101	4614 10.180
HSK-A 80	12	2.01	24	32.0	95	45	4621 12.100	4614 12.080
HSK-A 80	12	4.15	24	32.0	95	45	4621 12.101	4614 12.180
HSK-A 80	12	9.08	24	32.0	95	45	4621 12.102	4614 12.280
HSK-A 80	14	2.01	27	34.0	95	45	4621 14.100	4614 14.080
HSK-A 80	14	4.15	27	34.0	95	45	4621 14.101	4614 14.180
HSK-A 80	14	9.08	27	34.0	95	45	4621 14.102	4614 14.280
HSK-A 80	16	2.01	27	34.0	100	48	4621 16.100	4614 16.080

MQL technology



Article no.

4614

d3	d1 mm	A mm ²	d2 mm	d4 mm	l1 mm	l2 mm	①	Order no.
HSK-A 80	16	4.15	27	34.0	100	48	4621 16.101	4614 16.180
HSK-A 80	16	9.08	27	34.0	100	48	4621 16.102	4614 16.280
HSK-A 80	18	2.01	33	42.0	100	48	4621 18.100	4614 18.080
HSK-A 80	18	4.15	33	42.0	100	48	4621 18.101	4614 18.180
HSK-A 80	18	9.08	33	42.0	100	48	4621 18.102	4614 18.280
HSK-A 80	20	4.15	33	42.0	105	50	4621 20.100	4614 20.080
HSK-A 80	20	9.08	33	42.0	105	50	4621 20.101	4614 20.180
HSK-A 80	20	16.62	33	42.0	105	50	4621 20.102	4614 20.280
HSK-A 80	25	4.15	44	53.0	115	56	4621 25.100	4614 25.080
HSK-A 80	25	9.08	44	53.0	115	56	4621 25.101	4614 25.180
HSK-A 80	25	16.62	44	53.0	115	56	4621 25.102	4614 25.280
HSK-A 80	32	4.15	44	53.0	120	60	4621 32.100	4614 32.080
HSK-A 80	32	9.08	44	53.0	120	60	4621 32.101	4614 32.180
HSK-A 80	32	16.62	44	53.0	120	60	4621 32.102	4614 32.280
HSK-A 100	6	2.01	21	27.0	85	36	4621 6.100	4614 6.100
HSK-A 100	6	4.15	21	27.0	85	36	4621 6.101	4614 6.101
HSK-A 100	8	2.01	21	27.0	85	36	4621 8.100	4614 8.100
HSK-A 100	8	4.15	21	27.0	85	36	4621 8.101	4614 8.101
HSK-A 100	10	2.01	24	32.0	90	40	4621 10.100	4614 10.100
HSK-A 100	10	4.15	24	32.0	90	40	4621 10.101	4614 10.101
HSK-A 100	12	2.01	24	32.0	95	45	4621 12.100	4614 12.100
HSK-A 100	12	4.15	24	32.0	95	45	4621 12.101	4614 12.101
HSK-A 100	12	9.08	24	32.0	95	45	4621 12.102	4614 12.102
HSK-A 100	14	2.01	27	34.0	95	45	4621 14.100	4614 14.100
HSK-A 100	14	4.15	27	34.0	95	45	4621 14.101	4614 14.101
HSK-A 100	14	9.08	27	34.0	95	45	4621 14.102	4614 14.102
HSK-A 100	16	2.01	27	34.0	100	48	4621 16.100	4614 16.100
HSK-A 100	16	4.15	27	34.0	100	48	4621 16.101	4614 16.101
HSK-A 100	16	9.08	27	34.0	100	48	4621 16.102	4614 16.102
HSK-A 100	18	2.01	33	42.0	100	48	4621 18.100	4614 18.100
HSK-A 100	18	4.15	33	42.0	100	48	4621 18.101	4614 18.101
HSK-A 100	18	9.08	33	42.0	100	48	4621 18.102	4614 18.102
HSK-A 100	20	4.15	33	42.0	105	50	4621 20.100	4614 20.100
HSK-A 100	20	9.08	33	42.0	105	50	4621 20.101	4614 20.101
HSK-A 100	20	16.62	33	42.0	105	50	4621 20.102	4614 20.102
HSK-A 100	25	4.15	44	53.0	115	56	4621 25.100	4614 25.100
HSK-A 100	25	9.08	44	53.0	115	56	4621 25.101	4614 25.101
HSK-A 100	25	16.62	44	53.0	115	56	4621 25.102	4614 25.102
HSK-A 100	32	4.15	44	53.0	120	60	4621 32.100	4614 32.100
HSK-A 100	32	9.08	44	53.0	120	60	4621 32.101	4614 32.101
HSK-A 100	32	16.62	44	53.0	120	60	4621 32.102	4614 32.102
HSK-A 100	6	2.01	21	27.0	160	36	4621 6.032	4614 106.100
HSK-A 100	6	4.15	21	27.0	160	36	4621 6.132	4614 106.101
HSK-A 100	8	2.01	21	27.0	160	36	4621 8.040	4614 108.100
HSK-A 100	8	4.15	21	27.0	160	36	4621 8.140	4614 108.101
HSK-A 100	10	2.01	24	32.0	160	40	4621 10.050	4614 110.100
HSK-A 100	10	4.15	24	32.0	160	40	4621 10.150	4614 110.101
HSK-A 100	12	2.01	24	32.0	160	45	4621 12.100	4614 112.100
HSK-A 100	12	4.15	24	32.0	160	45	4621 114.101	4614 112.101
HSK-A 100	12	9.08	24	32.0	160	45	4621 114.102	4614 112.102
HSK-A 100	14	2.01	27	34.0	160	45	4621 14.100	4614 114.100
HSK-A 100	14	4.15	27	34.0	160	45	4621 14.101	4614 114.101
HSK-A 100	14	9.08	27	34.0	160	45	4621 14.102	4614 114.102
HSK-A 100	16	2.01	27	34.0	160	48	4621 16.100	4614 116.100
HSK-A 100	16	4.15	27	34.0	160	48	4621 16.101	4614 116.101
HSK-A 100	16	9.08	27	34.0	160	48	4621 16.102	4614 116.102
HSK-A 100	18	2.01	33	42.0	160	48	4621 18.100	4614 118.100
HSK-A 100	18	4.15	33	42.0	160	48	4621 18.101	4614 118.101
HSK-A 100	18	9.08	33	42.0	160	48	4621 18.102	4614 118.102
HSK-A 100	20	4.15	33	42.0	160	50	4621 20.100	4614 120.100
HSK-A 100	20	9.08	33	42.0	160	50	4621 20.101	4614 120.101
HSK-A 100	20	16.62	33	42.0	160	50	4621 20.102	4614 120.102
HSK-A 100	25	4.15	44	53.0	160	56	4621 25.100	4614 125.100
HSK-A 100	25	9.08	44	53.0	160	56	4621 25.101	4614 125.101
HSK-A 100	25	16.62	44	53.0	160	56	4621 25.102	4614 125.102
HSK-A 100	32	4.15	44	53.0	160	60	4621 32.100	4614 132.100
HSK-A 100	32	9.08	44	53.0	160	60	4621 32.101	4614 132.101
HSK-A 100	32	16.62	44	53.0	160	60	4621 32.102	4614 132.102

MLL technology

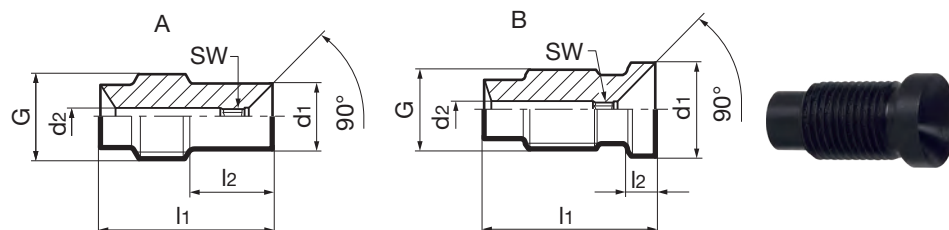


Product information:

- for the use of tool shanks according to MQL company standard
- for MQL 2-channel systems, to company standard
- black, anti-corrosion coating for visual identification of the 2-channel system
- cross-section A (mm²) ratio 4:1, see info page

Suitable accessories separately available:

- clamping key art. no. 4912



Article no.

4621

HSK-A	d1 mm	A mm ²	d2 mm	l1 mm	l2 mm	G	SW mm	Type	Order no.
32	6	2.01	2.0	25.8	2.5	M 5X0,8	1.5	A	4621 6.032
32	6	4.15	2.9	25.8	2.5	M 5X0,8	2.0	B	4621 6.132
32	8	2.01	2.0	21.0	3.0	M 7X1,0	1.5	A	4621 8.032
32	8	4.15	2.9	21.0	3.0	M 7X1,0	2.0	B	4621 8.132
32	10	2.01	2.0	22.0	3.5	M 8X1,0	1.5	A	4621 10.032
32	10	4.15	2.9	22.0	3.5	M 8X1,0	2.0	B	4621 10.132
32	12	2.01	2.0	22.0	3.5	M10X1,0	1.5	B	4621 12.032
32	12	4.15	2.9	22.0	3.5	M10X1,0	2.0	B	4621 12.132
40	6	2.01	2.0	26.6	11.0	M 7X1,0	1.5	A	4621 6.040
40	6	4.15	2.9	26.6	11.0	M 7X1,0	2.0	A	4621 6.140
40	8	2.01	2.0	26.5	3.0	M 7X1,0	1.5	B	4621 8.040
40	8	4.15	2.9	26.5	3.0	M 7X1,0	2.0	B	4621 8.140
40	10	2.01	2.0	22.2	3.5	M 8X1,0	1.5	B	4621 10.040
40	10	4.15	2.9	22.2	3.5	M 8X1,0	2.0	B	4621 10.140
40	12	2.01	2.0	26.5	3.5	M10X1,0	1.5	B	4621 12.040
40	12	4.15	2.9	26.5	3.5	M10X1,0	2.0	B	4621 12.140
40	12	9.08	4.1	26.5	3.5	M10X1,0	3.0	B	4621 12.240
40	14	2.01	2.0	26.5	4.5	M10X1,0	1.5	B	4621 14.040
40	14	4.15	2.9	26.5	4.5	M10X1,0	2.0	B	4621 14.140
40	14	9.08	4.1	26.5	4.5	M10X1,0	3.0	B	4621 14.240
40	16	2.01	2.0	23.5	5.5	M12X1,0	1.5	B	4621 16.040
40	16	4.15	2.9	23.5	5.5	M12X1,0	2.0	B	4621 16.140
40	16	9.08	4.1	23.5	5.5	M12X1,0	3.0	B	4621 16.240
50	6	2.01	2.0	22.0	10.0	M 8X1,0	1.5	A	4621 6.050
50	6	4.15	2.9	22.0	10.0	M 8X1,0	2.0	A	4621 6.150
50	8	2.01	2.0	22.0	3.0	M 8X1,0	1.5	B	4621 8.050
50	8	4.15	2.9	22.0	3.0	M 8X1,0	2.0	B	4621 8.150
50	10	2.01	2.0	23.0	3.5	M 8X1,0	1.5	B	4621 10.050
50	10	4.15	2.9	23.0	3.5	M 8X1,0	2.0	B	4621 10.150
50	12	2.01	2.0	23.7	3.5	M10X1,0	1.5	B	4621 12.050
50	12	4.15	2.9	23.7	3.5	M10X1,0	2.0	B	4621 12.150
50	12	9.08	4.1	23.7	3.5	M10X1,0	3.0	B	4621 12.250
50	14	2.01	2.0	23.7	4.5	M10X1,0	1.5	B	4621 14.050
50	14	4.15	2.9	23.7	4.5	M10X1,0	2.0	B	4621 14.150
50	14	9.08	4.1	23.7	4.5	M10X1,0	3.0	B	4621 14.250
50	16	2.01	2.0	25.7	5.5	M12X1,0	1.5	B	4621 16.050
50	16	4.15	2.9	25.7	5.5	M12X1,0	2.0	B	4621 16.150
50	16	9.08	4.1	25.7	5.5	M12X1,0	3.0	B	4621 16.250
50	18	2.01	2.0	25.7	6.5	M12X1,0	1.5	B	4621 18.050
50	18	4.15	2.9	25.7	6.5	M12X1,0	2.0	B	4621 18.150
50	18	9.08	4.1	25.7	6.5	M12X1,0	3.0	B	4621 18.250
50	20	4.15	2.9	27.5	6.5	M16X1,0	2.0	B	4621 20.050
50	20	9.08	4.1	27.5	6.5	M16X1,0	3.0	B	4621 20.150
50	20	16.62	5.4	27.5	6.5	M16X1,0	4.0	B	4621 20.250
63/80/100	6	2.01	2.0	21.3	10.0	M10X1,0	1.5	A	4621 6.100
63/80/100	6	4.15	2.9	20.5	10.0	M10X1,0	2.0	A	4621 6.101
63/80/100	8	2.01	2.0	21.3	10.0	M10X1,0	1.5	A	4621 8.100
63/80/100	8	4.15	2.9	21.3	10.0	M10X1,0	2.0	A	4621 8.101

MQL technology



Article no.

4621

HSK-A	d1 mm	A mm ²	d2 mm	l1 mm	l2 mm	G	SW mm	Type	Order no.
63/80/100	10	2.01	2.0	21.2	3.5	M10X1,0	1.5	B	4621 10.100
63/80/100	10	4.15	2.9	21.2	3.5	M10X1,0	2.0	B	4621 10.101
63/80/100	12	2.01	2.0	21.7	3.5	M10X1,0	1.5	B	4621 12.100
63/80/100	12	4.15	2.9	21.7	3.5	M10X1,0	2.0	B	4621 12.101
63/80/100	12	9.08	4.1	21.7	3.5	M10X1,0	3.0	B	4621 12.102
63/80/100	14	2.01	2.0	21.8	4.5	M10X1,0	1.5	B	4621 14.100
63/80/100	14	4.15	2.9	21.8	4.5	M10X1,0	2.0	B	4621 14.101
63/80/100	14	9.08	4.1	21.8	4.5	M10X1,0	3.0	B	4621 14.102
63/80/100	16	2.01	2.0	23.7	5.5	M12X1,0	1.5	B	4621 16.100
63/80/100	16	4.15	2.9	23.7	5.5	M12X1,0	2.0	B	4621 16.101
63/80/100	16	9.08	4.1	23.7	5.5	M12X1,0	3.0	B	4621 16.102
63/80/100	18	2.01	2.0	23.8	6.5	M12X1,0	1.5	B	4621 18.100
63/80/100	18	4.15	2.9	23.8	6.5	M12X1,0	2.0	B	4621 18.101
63/80/100	18	9.08	4.1	23.8	6.5	M12X1,0	3.0	B	4621 18.102
63/80/100	20	4.15	2.9	26.7	6.5	M16X1,0	2.0	B	4621 20.100
63/80/100	20	9.08	4.1	26.7	6.5	M16X1,0	3.0	B	4621 20.101
63/80/100	20	16.62	5.4	26.7	6.5	M16X1,0	4.0	B	4621 20.102
63/80/100	25	4.15	2.9	30.6	10.0	M16X1,0	2.0	B	4621 25.100
63/80/100	25	9.08	4.1	30.6	10.0	M16X1,0	3.0	B	4621 25.101
63/80/100	25	16.62	5.4	30.6	10.0	M16X1,0	4.0	B	4621 25.102
63/80/100	32	4.15	2.9	31.6	14.0	M16X1,0	2.0	B	4621 32.100
63/80/100	32	9.08	4.1	31.6	14.0	M16X1,0	3.0	B	4621 32.101
63/80/100	32	16.62	5.4	31.6	14.0	M16X1,0	4.0	B	4621 32.102

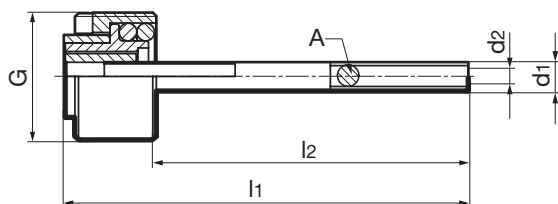


Product information:

- for MQL tool holders with automatic tool change (hydraulic chucks and shrink fit chucks) to company standard
- for MQL 2-channel systems, sealing by bypass system
- cross-section A (mm²) ratio 4:1, see info page

Suitable accessories separately available:

- socket wrenches for coolant supply sets art. no. 4911
- mounting adaptors for MQL coolant supply set HSK-A (filler) art. no. 4948



Article no.

4622

HSK-A	Ø-range	A mm ²	d1 mm	d2 mm	l1 mm	l2 mm	G	for chuck length	Order no.
32	6-12	2.01	1.9	1.6	26.5	20.0	M10 X1	80-115	4622 12.032
32	6-12	4.15	2.8	2.3	26.5	20.0	M10 X1	80-115	4622 12.132
40	6-16	2.01	1.9	1.6	22.8	14.5	M12 X1	80-115	4622 16.040
40	6-16	4.15	2.8	2.3	22.8	14.5	M12 X1	80-115	4622 16.140
40	12-16	9.07	4.0	3.4	22.6	14.3	M12 X1	80-115	4622 16.240
50	6-10	2.01	1.9	1.6	26.3	16.0	M16 x 1	80-115	4622 10.050
50	6-10	4.15	2.8	2.3	26.3	16.0	M16 x 1	80-115	4622 10.150
50	12-18	2.01	1.9	1.6	24.2	13.9	M16 x 1	80-115	4622 18.050
50	12-20	4.15	2.8	2.3	24.2	13.9	M16 x 1	80-115	4622 20.050
50	12-20	9.07	4.0	3.4	24.2	13.9	M16 x 1	80-115	4622 20.150
50	20	16.61	5.3	4.6	24.2	13.9	M16 x 1	80-115	4622 20.250
63	6-10	2.01	1.9	1.6	26.4	14.1	M18 x 1	80-115	4622 10.063
63	6-10	4.15	2.8	2.3	26.4	14.1	M18 x 1	80-115	4622 10.163
63	12-18	2.01	1.9	1.6	25.3	13.0	M18 x 1	80-115	4622 18.063
63	12-20	4.15	2.8	2.3	25.3	13.0	M18 x 1	80-115	4622 20.063
63	12-20	9.07	4.0	3.4	25.3	13.0	M18 x 1	80-115	4622 20.163
63	20	16.61	5.3	4.6	26.5	14.2	M18 x 1	80-115	4622 20.263
63	25-32	4.15	2.8	2.3	30.6	18.3	M18 x 1	80-115	4622 32.063
63	25-32	9.07	4.0	3.4	30.6	18.3	M18 x 1	80-115	4622 32.163
63	25-32	16.61	5.3	4.6	30.6	18.3	M20X1.5	80-115	4622 32.263
63	10	2.01	1.9	1.6	106.4	94.1	M18 x 1	160	4622 108.063
63	10	4.15	2.8	2.3	106.4	94.1	M18 x 1	160	4622 108.163
63	10	2.01	1.9	1.6	101.4	89.1	M18 x 1	160	4622 110.063
63	10	4.15	2.8	2.3	101.4	89.1	M18 x 1	160	4622 110.163
63	12-14	2.01	1.9	1.6	95.3	83.0	M18 x 1	160	4622 114.063
63	12-14	4.15	2.8	2.3	95.3	83.0	M18 x 1	160	4622 114.163
63	12-14	9.07	4.0	3.4	95.3	83.0	M18 x 1	160	4622 114.263
63	16-18	2.01	1.9	1.6	90.3	78.0	M18 x 1	160	4622 118.063
63	16-18	4.15	2.8	2.3	90.3	78.0	M18 x 1	160	4622 118.163
63	16-18	9.07	4.0	3.4	90.3	78.0	M18 x 1	160	4622 118.263
63	20	4.15	2.8	2.3	86.5	74.2	M18 x 1	160	4622 120.063
63	20	9.07	4.0	3.4	86.5	74.2	M18 x 1	160	4622 120.163
63	20	16.61	5.3	4.6	86.5	74.2	M18 x 1	160	4622 120.263
63	25	4.15	2.8	2.3	75.6	63.3	M18 x 1	160	4622 125.063
63	25	9.07	4.0	3.4	75.6	63.3	M18 x 1	160	4622 125.163
63	25	16.61	5.3	4.6	75.6	63.3	M18 x 1	160	4622 125.263
63	32	4.15	2.8	2.3	70.6	58.3	M18 x 1	160	4622 132.063
63	32	9.07	4.0	3.4	70.6	58.3	M18 x 1	160	4622 132.163
63	32	16.61	5.3	4.6	70.6	58.3	M18 x 1	160	4622 132.263
63	6- 8	2.01	1.9	1.6	66.4	54.1	M18 x 1	120	4622 208.063
63	6- 8	4.15	2.8	2.3	66.4	54.1	M18 x 1	120	4622 208.163
63	10	2.01	1.9	1.6	61.4	49.1	M18 x 1	120	4622 210.063
63	10	4.15	2.8	2.3	61.4	49.1	M18 x 1	120	4622 210.163
63	12-14	2.01	1.9	1.6	55.3	43.0	M18 x 1	120	4622 214.063
63	12-14	4.15	2.8	2.3	55.3	43.0	M18 x 1	120	4622 214.163
63	12-14	9.07	4.0	3.4	55.3	43.0	M18 x 1	120	4622 214.263
63	16-18	2.01	1.9	1.6	50.3	38.0	M18 x 1	120	4622 218.063
63	16-18	4.15	2.8	2.3	50.3	38.0	M18 x 1	120	4622 218.163

MQL technology



Article no.									4622
HSK-A	Ø-range	A mm ²	d1 mm	d2 mm	l1 mm	l2 mm	G	for chuck length	Order no.
63	16-18	9.07	4.0	3.4	50.3	38.0	M18 x 1	120	4622 218.263
63	20	4.15	2.8	2.3	46.5	34.2	M18 x 1	120	4622 220.063
63	20	9.07	4.0	3.4	46.5	34.2	M18 x 1	120	4622 220.163
63	20	16.61	5.3	4.6	46.5	34.2	M18 x 1	120	4622 220.263
80	6-10	2.01	1.9	1.6	29.0	14.6	M20X1.5	85-120	4622 10.080
80	6-10	4.15	2.8	2.3	29.0	14.6	M20X1.5	85-120	4622 10.180
80	12-18	2.01	1.9	1.6	27.9	13.5	M20X1.5	85-120	4622 18.080
80	12-32	4.15	2.8	2.3	27.9	13.5	M20X1.5	85-120	4622 32.080
80	12-32	9.07	4.0	3.4	27.9	13.5	M20X1.5	85-120	4622 32.180
80	20-32	16.61	5.3	4.6	28.4	14.0	M20X1.5	85-120	4622 32.280
100	6-10	2.01	1.9	1.6	29.0	12.6	M24X1.5	85-120	4622 10.100
100	6-10	4.15	2.8	2.3	29.0	12.6	M24X1.5	85-120	4622 10.101
100	12-18	2.01	1.9	1.6	27.9	11.5	M24X1.5	85-120	4622 18.100
100	12-32	4.15	2.8	2.3	27.9	11.5	M24X1.5	85-120	4622 32.100
100	12-32	9.07	4.0	3.4	27.9	11.5	M24X1.5	85-120	4622 32.101
100	20-32	16.61	5.3	4.6	28.4	12.0	M24X1.5	85-120	4622 32.102
100	10	2.01	1.9	1.6	104.0	87.6	M24X1.5	160	4622 108.100
100	10	4.15	2.8	2.3	104.0	87.6	M24X1.5	160	4622 108.101
100	10	2.01	1.9	1.6	99.0	82.6	M24X1.5	160	4622 110.100
100	10	4.15	2.8	2.3	99.0	82.6	M24X1.5	160	4622 110.101
100	12-14	2.01	1.9	1.6	92.9	76.5	M24X1.5	160	4622 114.100
100	12-14	4.15	2.8	2.3	92.9	76.5	M24X1.5	160	4622 114.101
100	12-14	9.07	4.0	3.4	92.9	76.5	M24X1.5	160	4622 114.102
100	16-18	2.01	1.9	1.6	87.9	71.5	M24X1.5	160	4622 118.100
100	16-18	4.15	2.8	2.3	87.9	71.5	M24X1.5	160	4622 118.101
100	16-18	9.07	4.0	3.4	87.9	71.5	M24X1.5	160	4622 118.102
100	20	4.15	2.8	2.3	83.4	67.0	M24X1.5	160	4622 120.100
100	20	9.07	4.0	3.4	83.4	67.0	M24X1.5	160	4622 120.101
100	20	16.61	5.3	4.6	83.4	67.0	M24X1.5	160	4622 120.102
100	25	4.15	2.8	2.3	73.4	57.0	M24X1.5	160	4622 125.100
100	25	9.07	4.0	3.4	73.4	57.0	M24X1.5	160	4622 125.101
100	25	16.61	5.3	4.6	73.4	57.0	M24X1.5	160	4622 125.102
100	32	4.15	2.8	2.3	68.4	52.0	M24X1.5	160	4622 132.100
100	32	9.07	4.0	3.4	68.4	52.0	M24X1.5	160	4622 132.101
100	32	16.61	5.3	4.6	68.4	52.0	M24X1.5	160	4622 132.102

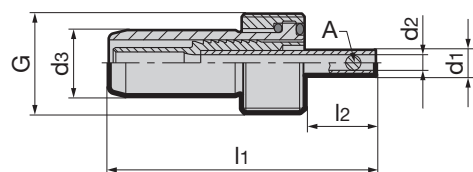


Product information:

- for MQL tool holders with automatic tool change (hydraulic chucks and shrink fit chucks) to company standard
- for MQL 2-channel systems
- “crashsafe” design in line with DIN 69090–2, transfer element
- missing dimensions according to DIN 69895
- sealing by bypass system
- cross-section A (mm²) ratio 4:1, see info page

Suitable accessories separately available:

- socket wrenches for coolant supply sets art. no. 4911



Article no.

4623

HSK-A	Ø-range	A mm ²	d1 mm	d2 mm	d3 mm	l1 mm	l2 mm	G	for chuck length	Order no.
32	6-12	2.01	1.9	1.6	6.0	47.0	20.0	M10X1,0	80-115	4623 12.032
32	6-12	4.15	2.8	2.3	6.0	47.0	20.0	M10X1,0	80-115	4623 12.132
40	12-16	2.01	1.9	1.6	8.0	43.3	14.5	M12X1,0	80-115	4623 16.040
40	12-16	4.15	2.8	2.3	8.0	43.3	14.5	M12X1,0	80-115	4623 16.140
40	12-16	9.07	4.0	3.4	8.0	43.1	14.3	M12X1,0	80-115	4623 16.240
50	6-10	2.01	1.9	1.6	10.0	48.6	16.0	M16X1,0	80-115	4623 10.050
50	6-10	4.15	2.8	2.3	10.0	48.6	16.0	M16X1,0	80-115	4623 10.150
50	12-18	2.01	1.9	1.6	10.0	46.5	13.9	M16X1,0	80-115	4623 18.050
50	20	4.15	2.8	2.3	10.0	46.5	13.9	M16X1,0	80-115	4623 20.050
50	20	9.07	4.0	3.4	10.0	46.5	13.9	M16X1,0	80-115	4623 20.150
50	20	16.61	5.3	4.6	10.0	46.5	13.9	M16X1,0	80-115	4623 20.250
63	6-10	2.01	1.9	1.6	12.0	50.0	14.1	M18X1,0	80-115	4623 10.063
63	6-10	4.15	2.8	2.3	12.0	50.0	14.1	M18X1,0	80-115	4623 10.163
63	12-18	2.01	1.9	1.6	12.0	48.8	13.0	M18 X 1	80-115	4623 18.063
63	20	4.15	2.8	2.3	12.0	48.8	13.0	M18 X 1	80-115	4623 20.063
63	20	9.07	4.0	3.4	12.0	48.8	13.0	M18X1,0	80-115	4623 20.163
63	20	16.61	5.3	4.6	12.0	50.0	14.2	M18X1,0	80-115	4623 20.263
63	20	4.15	2.8	2.3	12.0	54.1	18.3	M18X1,0	80-115	4623 32.063
63	25-32	9.07	4.0	3.4	12.0	54.1	18.3	M18X1,0	80-115	4623 32.163
63	25-32	16.61	5.3	4.6	12.0	54.1	18.3	M18X1,0	80-115	4623 32.263
63	6- 8	2.01	1.9	1.6	12.0	130.0	94.1	M18X1,0	160	4623 108.063
63	6- 8	4.15	2.8	2.3	12.0	130.0	94.1	M18X1,0	160	4623 108.163
63	10	2.01	1.9	1.6	12.0	124.9	89.1	M18X1,0	160	4623 110.063
63	10	4.15	2.8	2.3	12.0	124.9	89.1	M18X1,0	160	4623 110.163
63	12-14	2.01	1.9	1.6	12.0	118.8	83.0	M18X1,0	160	4623 114.063
63	12-14	4.15	2.8	2.3	12.0	118.8	83.0	M18X1,0	160	4623 114.163
63	12-14	9.07	4.0	3.4	12.0	118.8	83.0	M18X1,0	160	4623 114.263
63	16-18	2.01	1.9	1.6	12.0	113.8	78.0	M18X1,0	160	4623 118.063
63	16-18	4.15	2.8	2.3	12.0	113.8	78.0	M18X1,0	160	4623 118.163
63	16-18	9.07	4.0	3.4	12.0	113.8	78.0	M18X1,0	160	4623 118.263
63	20	4.15	2.8	2.3	12.0	110.0	74.2	M18X1,0	160	4623 120.063
63	20	9.07	4.0	3.4	12.0	110.0	74.2	M18X1,0	160	4623 120.163
63	20	16.61	5.3	4.6	12.0	110.0	74.2	M18X1,0	160	4623 120.263
63	25	4.15	2.8	2.3	12.0	99.1	63.3	M18X1,0	160	4623 125.063
63	25	9.07	4.0	3.4	12.0	99.1	63.3	M18X1,0	160	4623 125.163
63	25	16.61	5.3	4.6	12.0	99.1	63.3	M18X1,0	160	4623 125.263
63	32	4.15	2.8	2.3	12.0	94.1	58.3	M18X1,0	160	4623 132.063
63	32	9.07	4.0	3.4	12.0	94.1	58.3	M18X1,0	160	4623 132.163
63	32	16.61	5.3	4.6	12.0	94.1	58.3	M18X1,0	160	4623 132.263
63	6- 8	2.01	1.9	1.6	12.0	90.0	54.1	M18X1,0	120	4623 208.063
63	6- 8	4.15	2.8	2.3	12.0	90.0	54.1	M18X1,0	120	4623 208.163
63	10	2.01	1.9	1.6	12.0	85.0	49.1	M18X1,0	120	4623 210.063
63	10	4.15	2.8	2.3	12.0	85.0	49.1	M18X1,0	120	4623 210.163
63	12-14	2.01	1.9	1.6	12.0	78.8	43.0	M18X1,0	120	4623 214.063
63	12-14	4.15	2.8	2.3	12.0	78.8	43.0	M18X1,0	120	4623 214.163
63	12-14	9.07	4.0	3.4	12.0	78.8	43.0	M18X1,0	120	4623 214.263
63	16-18	2.01	1.9	1.6	12.0	73.8	38.0	M18X1,0	120	4623 218.063
63	16-18	4.15	2.8	2.3	12.0	73.8	38.0	M18X1,0	120	4623 218.163

MQL technology



Article no.										4623
HSK-A	Ø-range	A mm ²	d1 mm	d2 mm	d3 mm	l1 mm	l2 mm	G	for chuck length	Order no.
63	16-18	9.07	4.0	3.4	12.0	73.8	38.0	M18X1,0	120	4623 218.263
63	20	4.15	2.8	2.3	12.0	70.0	34.2	M18X1,0	120	4623 220.063
63	20	9.07	4.0	3.4	12.0	70.0	34.2	M18X1,0	120	4623 220.163
63	20	16.61	5.3	4.6	12.0	70.0	34.2	M18X1,0	120	4623 220.263
80	6-10	2.01	1.9	1.6	14.0	54.2	14.6	M20X1.5	85-120	4623 10.080
80	6-10	4.15	2.8	2.3	14.0	54.2	14.6	M20X1.5	85-120	4623 10.180
80	12-18	2.01	1.9	1.6	14.0	53.1	13.5	M20X1.5	85-120	4623 18.080
80	12-32	4.15	2.8	2.3	14.0	53.1	13.5	M20X1.5	85-120	4623 32.080
80	12-32	9.07	4.0	3.4	14.0	53.1	13.5	M20X1.5	85-120	4623 32.180
80	20-32	16.61	5.3	4.6	14.0	53.6	14.0	M20X1.5	85-120	4623 32.280
100	6-10	2.01	1.9	1.6	16.0	56.2	12.6	M24X1.5	85-120	4623 10.100
100	6-10	4.15	2.8	2.3	16.0	56.2	12.6	M24X1.5	85-120	4623 10.101
100	12-18	2.01	1.9	1.6	16.0	55.1	11.5	M24X1.5	85-120	4623 18.100
100	12-32	4.15	2.8	2.3	16.0	55.1	11.5	M24X1.5	85-120	4623 32.100
100	12-32	9.07	4.0	3.4	16.0	55.1	11.5	M24X1.5	85-120	4623 32.101
100	20-32	16.61	5.3	4.6	16.0	55.6	12.0	M24X1.5	85-120	4623 32.102
100	6- 8	2.01	1.9	1.6	16.0	131.2	87.6	M24X1.5	160	4623 108.100
100	6- 8	4.15	2.8	2.3	16.0	131.2	87.6	M24X1.5	160	4623 108.101
100	10	2.01	1.9	1.6	16.0	126.2	82.6	M24X1.5	160	4623 110.100
100	10	4.15	2.8	2.3	16.0	126.2	82.6	M24X1.5	160	4623 110.101
100	12-14	2.01	1.9	1.6	16.0	120.1	76.5	M24X1.5	160	4623 114.100
100	12-14	4.15	2.8	2.3	16.0	120.1	76.5	M24X1.5	160	4623 114.101
100	12-14	9.07	4.0	3.4	16.0	120.1	76.5	M24X1.5	160	4623 114.102
100	16-18	2.01	1.9	1.6	16.0	115.1	71.5	M24X1.5	160	4623 118.100
100	16-18	4.15	2.8	2.3	16.0	115.1	71.5	M24X1.5	160	4623 118.101
100	16-18	9.07	4.0	3.4	16.0	115.1	71.5	M24X1.5	160	4623 118.102
100	20	4.15	2.8	2.3	16.0	110.6	67.0	M24X1.5	160	4623 120.100
100	20	9.07	4.0	3.4	16.0	110.6	67.0	M24X1.5	160	4623 120.101
100	20	16.61	5.3	4.6	16.0	110.6	67.0	M24X1.5	160	4623 120.102
100	25	4.15	2.8	2.3	16.0	100.6	57.0	M24X1.5	160	4623 125.100
100	25	9.07	4.0	3.4	16.0	100.6	57.0	M24X1.5	160	4623 125.101
100	25	16.61	5.3	4.6	16.0	100.6	57.0	M24X1.5	160	4623 125.102
100	32	4.15	2.8	2.3	16.0	95.6	52.0	M24X1.5	160	4623 132.100
100	32	9.07	4.0	3.4	16.0	95.6	52.0	M24X1.5	160	4623 132.101
100	32	16.61	5.3	4.6	16.0	95.6	52.0	M24X1.5	160	4623 132.102



MQL hydraulic synchro tapping chucks HSK-A (manual tool change)

Article no. **4604**



Product information:

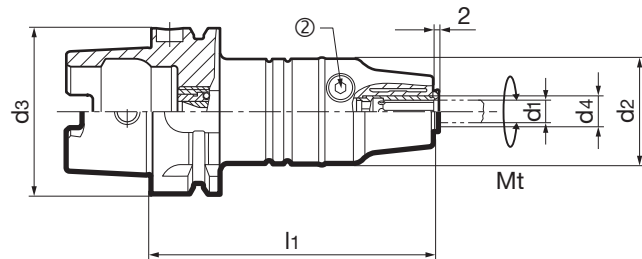
- HSK-A according to ISO 12164-1 / DIN 69893-1
- balancing quality: G 6.3 / 15,000 rpm
- convenient hydraulic clamping using reduction bushes with active drive
- for MQL 1 & 2-channel systems, Gühring MQL identifiable by green colour ring
- MQL pressure max. 16 bar
- compensates synchronisation errors
- minimum length compensation ± 0.3 mm in pushing and pulling direction
- adjusting screw enables 3 mm axial length readjustment
- guarantees the best thread quality with optimum tool life

Scope of delivery:

- MQL filler art. no. 4513
- adjustment wrench for adjusting screw

Suitable accessories separately available:

- MQL axial adjusting screw, art. no. 4305
- reduction bushes art. no. 4605 or 4606
- hexagonal key (2), art. no. 4912
- replacement clamping screw (2) art. no. 4241
- adjustment key, art. no. 4912, type B for adjusting screws



Article no. **4604**

d3	d1	d2 mm	for threads	d4 mm	l1 mm	Mt max. Nm	SW mm	②	②
HSK-A 63	2.8-10.0	40	M2-M12	12	106.5	26	4.0	4912 4.600	4241 8.000
HSK-A 63	6.0-16.0	40	M4,5-M20	20	120.5	90	5.0	4912 5.000	4241 10.003
HSK-A 100	2.8-10.0	40	M2-M12	12	113.0	26	4.0	4912 4.600	4241 8.000
HSK-A 100	6.0-16.0	40	M4,5-M20	20	127.0	90	5.0	4912 5.000	4241 10.003

Order no.

4604 12.063
4604 20.063
4604 12.100
4604 20.100

MQL 2-channel hydraulic synchro tapping chucks HSK-A (automatic tool change)

Article no. **4603**



Product information:

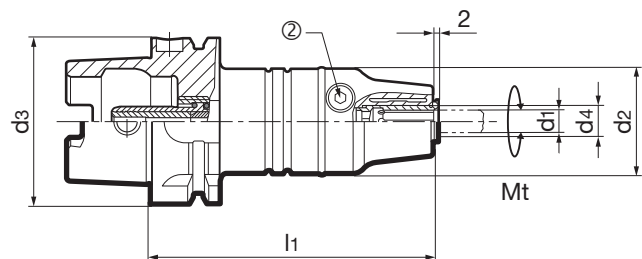
- HSK-A according to ISO 12164-1 / DIN 69893-1
- balancing quality: G 6.3 / 15,000 rpm
- convenient hydraulic clamping using reduction bushes with active drive
- for MQL 2-channel systems, Gühring MQL identifiable by green colour ring
- MQL pressure max. 16 bar
- compensates synchronisation errors
- minimum length compensation ± 0.3 mm in pushing and pulling direction
- reduces an increase in axial forces during the cutting cycle to a minimum
- adjusting screw enables 3 mm axial length readjustment

Scope of delivery:

- MQL 2-channel transfer unit, art. no. 4511
- adjustment wrench for adjusting screw

Suitable accessories separately available:

- MQL axial adjusting screw, art. no. 4305
- reduction bushes art. no. 4605 or 4606
- hexagonal key (2), art. no. 4912
- replacement clamping screw (2) art. no. 4241



Article no. **4603**

d3	d1	d2 mm	for threads	d4 mm	l1 mm	Mt max. Nm	SW mm	②	②
HSK-A 63	2,8-10	40	M2-M12	12	106.5	26	4.0	4912 4.600	4241 8.000
HSK-A 63	6-16	40	M4,5-M20	20	120.5	90	5.0	4912 5.000	4241 10.003
HSK-A 100	2,8-10	40	M2-M12	12	113.0	26	4.0	4912 4.600	4241 8.000
HSK-A 100	6-16	40	M4,5-M20	20	127.0	90	5.0	4912 5.000	4241 10.003

Order no.

4603 12.063
4603 20.063
4603 12.100
4603 20.100



MQL hydraulic synchro tapping chucks with straight shank

Article no. **4524**



Product information:

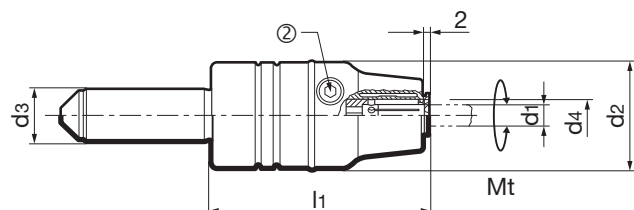
- mounting shank according to DIN 1835-A for mounting in precision chucks (hydraulic expansion or power chucks, shrink fit chucks for one-time use)
- für MQL 1 & 2-channel systems, according to company standard
- MQL pressure max. 16 bar
- guarantees the best thread quality with optimum tool life
- minimum length compensation ± 0.3 mm in pushing and pulling direction
- convenient hydraulic clamping using reduction bushes with active drive
- adjusting screw enables 3 mm axial length readjustment

Scope of delivery:

- incl. adjustment key for adjusting screws

Suitable accessories separately available:

- MQL axial adjusting screw, art. no. 4305
- reduction bushes art. no. 4605 or 4606
- replacement clamping screw (2) art. no. 4241



Article no.

4524

d3 h6 mm	d1	d4 mm	for	d2 mm	l1 mm	Mt max. Nm	SW mm	②	②
20	2.8-10.0	12.0	M2-M12	40	80.0	26	4.0	4912 4.600	4241 8.000
20	6.0-16.0	20.0	M4,5-M20	40	94.0	90	5.0	4912 5.000	4241 10.003

Order no.

4524 12.020
4524 20.020

MQL synchro tapping chucks HSK-A (manual tool change)

Article no. **4298**



Product information:

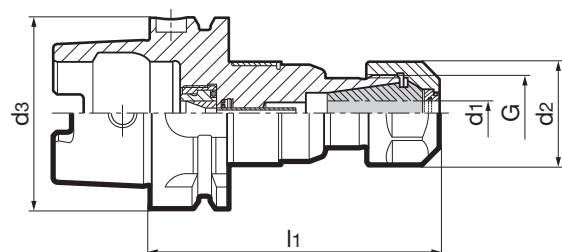
- HSK-A according to ISO 12164-1 / DIN 69893-1
- for MQL 1 & 2-channel systems
- compensates synchronisation errors
- minimum length compensation ± 0.5 mm in pushing and pulling direction
- reduces high thread flank friction forces and increases thread quality and tool life
- adjusting screw enables 2-3 mm readjustment
- MQL pressure max. 16 bar

Scope of delivery:

- MQL coolant supply set
- incl. adjusting screw
- IC/ER clamping nut with sealing washer, art. no. 4306 (*see tightening torque)
- adjustment wrench for MQL axial adjusting screw

Suitable accessories separately available:

- MQL axial adjusting screw, art. no. 4305
- sealing plug art. no. 4335
- thread tap collet chuck, art. no. 4308
- clamping key art. no. 4913 for clamping nut ER
- MQL filler art. no. 4513



Article no.

4298

d3	Size	G	d1 mm	d2 mm	l1 mm	Mt max. Nm
HSK-A 63	ER20	M25 X1.5	4.5-11.0	34.0	95.5	35
HSK-A 63	ER32	M40 X1.5	4.5-20.0	50.0	109.0	136

Order no.

4298 20.063
4298 32.063



Product information:

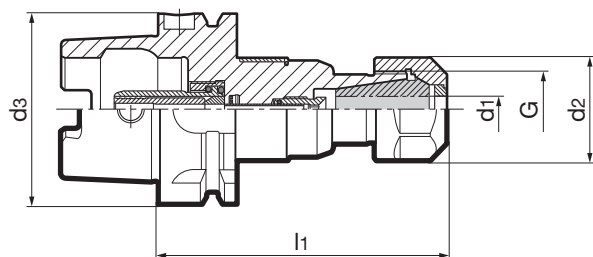
- HSK-A according to ISO 12164-1 / DIN 69893-1
- compensates synchronisation errors
- minimum length compensation ± 0.5 mm in pushing and pulling direction
- adjusting screw enables 2-3 mm readjustment
- for MQL 2-channel systems
- MQL pressure max. 16 bar
- mounted MQL coolant transfer set

Scope of delivery:

- MQL 2-channel transfer unit, art. no. 4511
- IC/ER clamping nut with sealing washer, art. no. 4306 (*see tightening torque)
- adjustment wrench for MQL axial adjusting screw

Suitable accessories separately available:

- MQL axial adjusting screw, art. no. 4305
- sealing plug art. no. 4335
- thread tap collet chuck, art. no. 4308
- clamping key art. no. 4913
- MQL 2-channel coolant supply set, art. no. 4511
- replacement IC/ER clamping nut, art. no. 4306



Article no.

4341

d3	Size	G	d1 mm	d2 mm	l1 mm	Mt max. Nm
HSK-A 63	ER20	M25 X1.5	4.5-11.0	34.0	95.5	35
HSK-A 63	ER32	M40 X1.5	4.5-20.0	50.0	109.0	136
HSK-A 100	ER20	M25 X1.5	4.5-11.0	34.0	102.0	35
HSK-A 100	ER32	M40 X1.5	4.5-20.0	50.0	115.5	136

Order no.
4341 20.063
4341 32.063
4341 20.100
4341 32.100



MQL adjusting screws with internal cone for MQL synchro tapping chucks

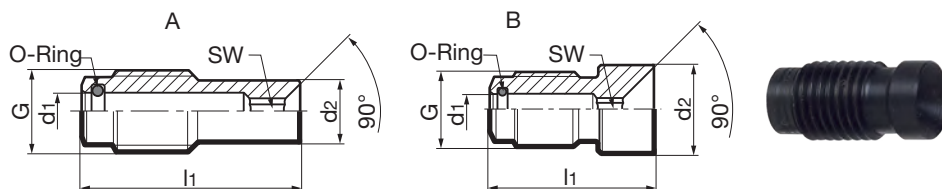
Article no. **4305**

Product information:

- MQL axial adjusting screw with inner cone
- for MQL 1 & 2-channel systems
- for MQL threading tools with external cone
- for MQL hydro synchro tapping chucks, art. no. 4602, 4603, 4604 and 4524
- for MQL synchro tapping chucks art. no. 4298, 4330 and 4341
- with adjusting screw inserted in thread tap shank, 3 mm length adjustment by hex key, art. no. 4912, type “B”

Scope of delivery:

- incl. O ring for sealing



Article no. **4305**

Size	G	for shank Ø x ■ mm	d1 mm	d2 mm	l1 mm	SW mm	Type	Code no.	Order no.
ER20	M8 x 1	6x4,9	3.6	4.8	24.1	2.5	A	6.020	4305 6.020
ER20	M8 x 1	7x5,5	3.6	5.4	24.3	2.5	A	7.020	4305 7.020
ER20	M8 x 1	8x6,2	3.6	6.1	19.3	2.5	A	8.020	4305 8.020
ER20	M8 x 1	9x7	3.6	6.9	18.2	2.5	A	9.020	4305 9.020
ER20	M8 x 1	10x8	3.6	7.8	14.6	2.5	B	10.020	4305 10.020
ER20	M8 x 1	11x9	3.6	8.8	16.0	2.5	B	11.020	4305 11.020
ER32	M10X1	6x4,9	4.1	4.8	34.5	3.0	A	6.032	4305 6.032
ER32	M10X1	7x5,5	4.1	5.4	34.5	3.0	A	7.032	4305 7.032
ER32	M10X1	8x6,2	4.1	6.1	29.5	3.0	A	8.032	4305 8.032
ER32	M10X1	9x7	4.1	6.9	29.0	3.0	A	9.032	4305 9.032
ER32	M10X1	10x8	4.1	7.8	25.0	3.0	A	10.032	4305 10.032
ER32	M10X1	11x9 & 12x9	4.1	8.8	24.0	3.0	A	11.032	4305 11.032
ER32	M10X1	14x11	4.1	10.8	22.5	3.0	B	14.032	4305 14.032
ER32	M10X1	16x12	4.1	11.8	22.0	3.0	B	16.032	4305 16.032
ER32	M10X1	18x14,5 & 10x16	4.1	14.3	20.5	3.0	B	18.032	4305 18.032



MQL 2-channel coolant supply set HSK-A

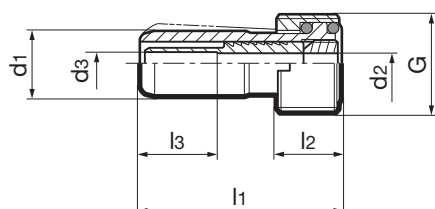
Article no. **4511**

Product information:

- design similar to DIN 69895
- for MQL tapping chucks and monolithic holders
- for MQL 2-channel systems, to company standard
- for tool holders with automatic tool change
- “crashsafe” design in line with DIN 69090–2, transfer element
- dimensions d2 and l1 in installed condition

Suitable accessories separately available:

- socket wrenches art. no. 4910
- socket wrenches for coolant supply sets art. no. 4911



Article no. **4511**

for	d1 mm	d2 mm	d3 mm	l1 mm	l2 mm	l3 mm	G	Order no.
HSK-A 32	6.0	3.0	4.0	26.0	5.5		M10X1	4511 10.032
HSK-A 40	8.0	3.8	5.4	29.5	7.5		M12X1	4511 12.040
HSK-A 50	10.0	3.6	4.0	33.0	9.5	21.0	M16X1	4511 16.050
HSK-A 63	12.0	3.6	4.0	36.5	11.5	13.8	M18X1	4511 18.063
HSK-A 80	14.0	3.6	4.0	40.0	13.5	14.0	M20X1.5	4511 20.080
HSK-A 100	16.0	3.6	4.0	44.0	15.5	14.0	M24X1.5	4511 24.100

MQL coolant supply set HSK-A (filler)

Article no. **4513**

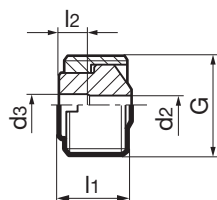


Product information:

- for IC, for MQL 1 & 2-channel system, according to company standard
- for MQL tapping chucks and monolithic holders
- for tool holders with manual tool change
- radially alignable
- dimensions d2 and l1 in installed condition
- optimum seal for MQL clamping set

Suitable accessories separately available:

- socket wrenches art. no. 4910
- socket wrenches for coolant supply sets art. no. 4911



Article no. **4513**

for	d2 mm	d3 mm	l1 mm	l2 mm	G	Order no.
HSK-A 32	3.0	3.0	6.3		M10X1	4513 10.032
HSK-A 40	3.6	4.0	8.3	5.0	M12X1	4513 12.040
HSK-A 50	3.6	4.0	10.3	5.0	M16X1	4513 16.050
HSK-A 50	5.0	5.0	10.3		M16X1	4513 16.150
HSK-A 63	3.6	4.0	12.3	5.0	M18X1	4513 18.063
HSK-A 63	6.0	6.0	12.3		M18X1	4513 18.163
HSK-A 80	3.6	4.0	14.4	5.0	M20X1.5	4513 20.080
HSK-A 80	8.0	8.0	14.4		M20X1.5	4513 20.180
HSK-A 100	3.6	4.0	16.4	5.0	M24X1.5	4513 24.100
HSK-A 100	8.0	8.0	16.4		M24X1.5	4513 24.101



HSK-A precision collet holders

Article no. **4476**



Product information:

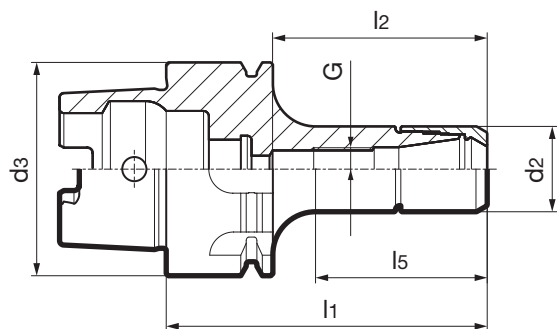
- HSK-A according to ISO 12164-1 / DIN 69893-1
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for ER11 high-precision collet holders (similar to ISO 15488), art. no. 4574 and 4575
- concentricity overall system < 3 µm (at 3 x clamping-Ø max. 50 mm)
- observe maximum tightening torque values of clamping nut
clamping Ø 1.0 - 2.5 = 7 Nm
clamping Ø 3.0 - 7.5 = 10 Nm
- without adjusting screw

Scope of delivery:

- incl. clamping nut art. no. 4573

Suitable accessories separately available:

- collet chucks art. no. 4574 or 4575 (sealed)
- roller keys art. no. 4994
- roller spanner insert, art. no. 4995 for optimum operation
- torque wrench art. no. 4981 5,025 and coolant transfer unit, art. no. 4949



Article no.

4476

d3	Size	Ø-range	d2 mm	l1 mm	l2 mm	l5 mm	1/min	G	Order no.
HSK-A 32	ER11	1.0-7.0	16	40	24	20	50000		4476 11.032
HSK-A 40	ER11	1.0-7.0	16	60	40	40	42000	M 8 X1	4476 11.040
HSK-A 40	ER11	1.0-7.0	16	130	75	110	27000	M 8 X1	4476 11.140
HSK-A 50	ER11	1.0-7.0	16	130	60	104	27000	M 8 X1	4476 11.050
HSK-A 63	ER11	1.0-7.0	16	70	48	34	25000	M 8 X1	4476 11.063
HSK-A 63	ER11	1.0-7.0	16	100	78	64	25000	M 8 X1	4476 11.163
HSK-A 63	ER11	1.0-7.0	16	130	108	94	25000	M 8 X1	4476 11.263
HSK-A 63	ER11	1.0-7.0	16	160	138	124	25000	M 8 X1	4476 11.363



HSK-E precision collet holders

Article no. **4475**



Product information:

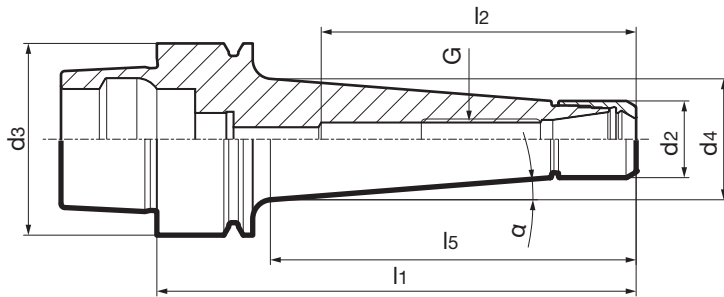
- HSK-E according to DIN 69893-5, without access hole in taper
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for ER11 high-precision collet holders (similar to ISO 15488), art. no. 4574 and 4575
- concentricity overall system < 3 µm (at 3 x clamping-Ø max. 50 mm)
- observe maximum tightening torque values of clamping nut
clamping Ø 1.0 - 2.5 = 7 Nm
clamping Ø 3.0 - 7.5 = 10 Nm
- without adjusting screw

Scope of delivery:

- incl. clamping nut art. no. 4573

Suitable accessories separately available:

- collet chucks art. no. 4574 or 4575 (sealed)
- roller keys art. no. 4994
- roller spanner insert, art. no. 4995 for optimum operation
- torque wrenches art.no. 4981 5.025
- coolant supply set art. no. 4949



Article no.

4475

d3	Size	Ø-range	d2 mm	d4 mm	l1 mm	l2 mm	l5 mm	α °	1/min	G
HSK-E 25	ER11	1,0-7,5	16	20.0	35	22	22.0		60000	
HSK-E 32	ER11	1,0-7,5	16	17.5	50	34	27.5	4.5	50000	M 8 X1
HSK-E 40	ER11	1,0-7,5	16	17.0	50	31	22.5	4.5	42000	M 8 X1
HSK-E 40	ER11	1,0-7,5	16	25.5	100	65	75.5	4.5	40000	M 8 X1
HSK-E 40	ER11	1,0-7,5	16	30.5	130	65	108.0	4.5	35000	M 8 X1
HSK-E 40	ER11	1,0-7,5	16	32.0	160	65	139.0	4.5	27000	M 8 X1
HSK-E 50	ER11	1,0-7,5	16	18.0	60	37	30.0	4.5	30000	M 8 X1
HSK-E 50	ER11	1,0-7,5	16	24.5	100	73	70.0	4.5	30000	M 8 X1

Order no.
4475 11.025
4475 11.032
4475 11.040
4475 11.140
4475 11.240
4475 11.340
4475 11.050
4475 11.150

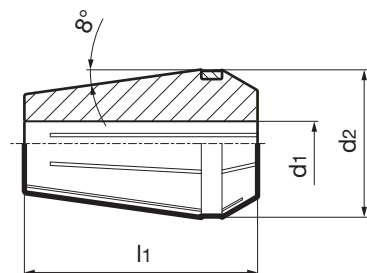


Precision collets for precision collet holders

Article no. **4574**

Product information:

- precision collet holders, sealed ER11 sim. ISO 15488
- especially for precision collet holders art. nr. 4475 and 4476
- for tool shanks h10
- concentricity < 2 µm
- no clamping bridging
- observe maximum tightening torque values of clamping nut
clamping Ø 1.0 - 2.5 = 7 Nm
clamping Ø 3.0 - 7.5 = 10 Nm



Article no. **4574**

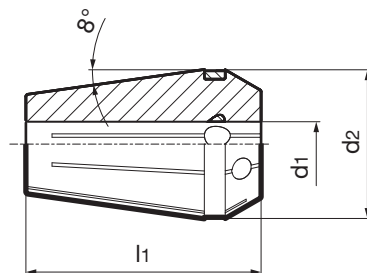
Size	d1 mm	d2 mm	l1 mm	Order no.
ER11	1.00	11.3	18.00	4574 1.011
ER11	1.50	11.3	18.00	4574 1.511
ER11	2.00	11.3	18.00	4574 2.011
ER11	2.50	11.3	18.00	4574 2.511
ER11	3.00	11.3	18.00	4574 3.011
ER11	3.50	11.3	18.00	4574 3.511
ER11	4.00	11.3	18.00	4574 4.011
ER11	4.50	11.3	18.00	4574 4.511
ER11	5.00	11.3	18.00	4574 5.011
ER11	5.50	11.3	18.00	4574 5.511
ER11	6.00	11.3	18.00	4574 6.011
ER11	6.50	11.3	18.00	4574 6.511
ER11	7.00	11.3	18.00	4574 7.011

Precision collets for precision collet holders, sealed

Article no. **4575**

Product information:

- precision collet holders, sealed ER11 sim. ISO 15488
- especially for precision collet holders art. nr. 4475 and 4476
- for tool shanks h8
- concentricity < 2 µm
- no clamping bridging
- observe maximum tightening torque values of clamping nut
clamping Ø 1.0 - 2.5 = 7 Nm
clamping Ø 3.0 - 7.5 = 10 Nm



Article no. **4575**

Size	d1 mm	d2 mm	l1 mm	Order no.
ER11	3.00	11.3	18.00	4575 3.011
ER11	4.00	11.3	18.00	4575 4.011
ER11	5.00	11.3	18.00	4575 5.011
ER11	6.00	11.3	18.00	4575 6.011

Tool holders for micro tools



Clamping nuts for precision collet holders

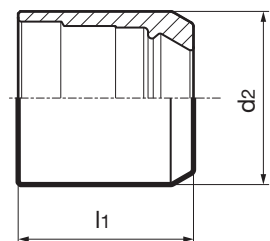
Article no. **4573**

Product information:

- especially for precision collet holders art. nr. 4475 and 4476
- for ER11 high-precision collet holders (similar to ISO 15488), art. no. 4574 and 4575

Suitable accessories separately available:

- roller keys art. no. 4994 11.000
- torque wrenches art.no. 4981 5.025



Article no. **4573**

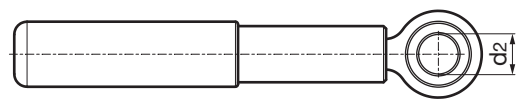
Nominal size	Ø-range	d2 mm	l1 mm	Order no.
ER11	1.0-7.0	16.00	16.200	4573 11.000

Roller spanner for precision collet holders

Article no. **4994**

Product information:

- especially for precision collet holders art. nr. 4475 and 4476
- observe maximum tightening torque values of clamping nut
clamping Ø 1.0 - 2.5 = 7 Nm
clamping Ø 3.0 - 7.5 = 10 Nm



Article no. **4994**

Nominal size	d2 mm	Order no.
ER11	16	4994 11.000



Roller spanner insert for torque wrench

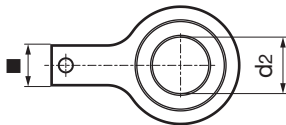
Article no. **4995**

Product information:

- for Torque wrenches art. no. 4981
- especially for precision collet holders art. nr. 4475 and 4476
- observe maximum tightening torque values of clamping nut
clamping Ø 1.0 - 2.5 = 7 Nm
clamping Ø 3.0 - 7.5 = 10 Nm

Suitable accessories separately available:

- torque wrenches art.no. 4981 5.025



Article no. **4995**

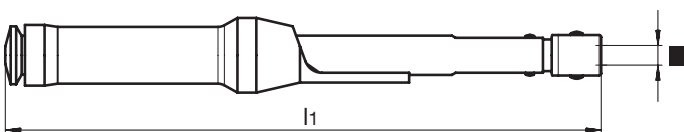
Nominal size	d2 mm	Drive ■	Order no.
ER11	16	9x12	4995 11.000

Torque wrenches

Article no. **4981**

Product information:

- for roller spanner insert, art. no. 4995
- torque adjustable: 5-25 Nm
- with square socket
- triggering accuracy ± 3% of scale value



Article no. **4981**

Torque Nm	l1 mm	Drive ■	Order no.
5-25	273	9x12	4981 5.025

Tool holders for micro tools



HPC chucks HSK-A

Article no. **4300**

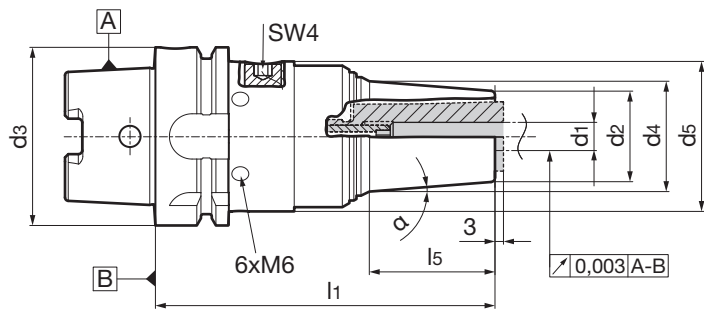


Product information:

- HSK-A according to ISO 12164-1 / DIN 69893-1
- balancing quality: G 2.5 / 20,000 rpm or U < 1.2 gmm
- incl. balancing thread 6xM6
- axial length adjustment
- for tool shanks d1 h6
- for heavy-duty machining as well as HSC and HPC
- highest clamping force and stability thanks to mech. tension gearing
- actuation torque for clamping force introduction max. 10 Nm
- suitable for internal cooling up to 80 bar

Suitable accessories separately available:

- coolant supply set art. no. 4949
- clamping sleeves art. no. 4302, 4235, 4236, 4237
- Torque wrenches 10 Nm art. no. 4987 10.000
- sockets art. no. 4916 4.000 for optimal operation
- hexagonal key, art. no. 4912 4.600



Article no. **4300**

d3	Nominal size	d1 mm	d2 mm	d4 mm	d5 mm	l1 mm	l5 mm	α °	Order no.
HSK-A 63	20	3.0-20.0	40	40	53	92	20		4300 20.063
HSK-A 63	20	3.0-20.0	32	39	53	120	44	4	4300 20.163
HSK-A 63	20	3.0-20.0	32	40	53	142	69	4	4300 20.263
HSK-A 100	20	3.0-20.0	40	40	70	100	18		4300 20.100
HSK-A 100	25	16.0-32.0	52	70	70	139	15		4300 25.100

HPC chucks SK

Article no. **4301**

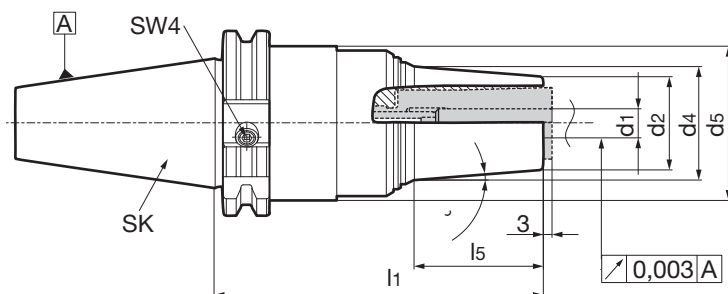


Product information:

- ISO taper to DIN ISO 7388-1 form AD
- central internal cooling up to 80 bar
- balancing quality: G 2.5 / 20,000 rpm or U < 1.2 gmm
- for tool shanks d1 h6
- for heavy-duty machining as well as HSC and HPC
- highest clamping force and stability thanks to mech. tension gearing
- actuation torque for clamping force introduction max. 10 Nm
- axial length adjustment
- suitable for internal cooling up to 80 bar

Suitable accessories separately available:

- clamping sleeves art. no. 4302, 4235, 4236, 4237
- ISO pull studs art. no. 4925, 4926
- Torque wrenches 10 Nm art. no. 4987 10.000
- sockets art. no. 4916 4.000 for optimal operation
- hexagonal key, art. no. 4912 4.600
- form AD/AF on request



Article no. **4301**

SK	Nominal size	d1 mm	d2 mm	d4 mm	d5 mm	l1 mm	l5 mm	α °	Order no.
SK 40	20	3.0-20.0	40	40	50	62	20		4301 20.040
SK 40	20	3.0-20.0	32	39	50	91	44	4	4301 20.140
SK 40	20	3.0-20.0	32	40	50	112	69	4	4301 20.240
SK 50	20	3.0-20.0	40	40	63	62	18		4301 20.050
SK 50	25	16.0-32.0	52	70	70	101	15		4301 25.050

Precision clamping chucks



HPC chucks MAS/BT

Article no. **4244**

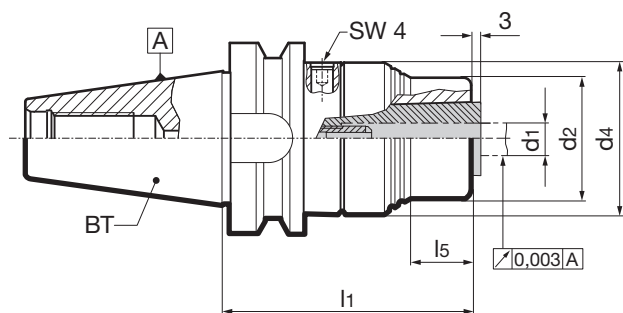


Product information:

- MAS/BT to DIN ISO 7388-2 form JD
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- for tool shanks d1 h6
- axial length adjustment
- for heavy-duty machining as well as HSC and HPC
- highest clamping force and stability thanks to mech. tension gearing
- actuation torque for clamping force introduction max. 10 Nm
- suitable for internal cooling up to 80 bar

Scope of delivery:

- BT pull studs art. nr. 4927, 4928
- Torque wrenches 10 Nm art. no. 4987 10.000
- sockets art. no. 4916 4.000 for optimal operation
- hexagonal key, art. no. 4912 4.600
- clamping sleeves art. no. 4302, 4235, 4236, 4237



Article no. **4244**

BT	Nominal size	d1 mm	d2 mm	d4 mm	l1 mm	l5 mm	Order no.
BT 30	20	3.0-20.0	40.0	53	82.0	20	4244 20.030
BT 40	20	3.0-20.0	40.0	63	70.4	18	4244 20.040
BT 40	25	16.0-32.0	53.0	63	109.5	14	4244 25.040
BT 40	20	3.0-20.0	40.0	63	120.0	48	4244 120.040
BT 50	20	3.0-20.0	40.0	63	81.4	18	4244 20.050
BT 50	25	16.0-32.0	52.5	70	120.5	10	4244 25.050
BT 50	20	3.0-20.0	40.0	63	167.4	84	4244 120.050

HPC chucks CAT

Article no. **4243**

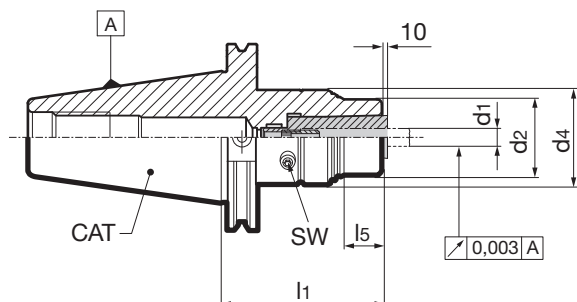


Product information:

- CAT to ASME B5.50
- CAT40 d4: does not correspond to ASME B5.50
- central internal coolant supply form DU
- balancing quality: G 2.5 / 20,000 rpm or U < 1.2 gmm
- for tool shanks d1 h6
- for heavy-duty machining as well as HSC and HPC
- highest clamping force and stability thanks to mech. tension gearing
- actuation torque for clamping force introduction max. 10 Nm
- suitable for internal cooling up to 80 bar

Suitable accessories separately available:

- hexagonal key, art. no. 4912 4.600
- sockets art. no. 4916 4.000 for optimal operation
- clamping sleeves art. no. 4302, 4235, 4236, 4237
- socket wrenches 12 Nm art. no. 4915 12.000
- CAT pull studs on request



Article no. **4243**

CAT	Nominal size	d1 mm	d2 mm	d4 mm	l1 mm	l5 mm	Order no.
CAT 40	20	3.0-20.0	40	50	62.5	20	4243 20.040
CAT 50	20	3.0-20.0	40	63	62.0	18	4243 20.050
CAT 50	25	16.0-32.0	70	70	101.5		4243 25.050

Precision clamping chucks



Extensions HPC

Article no. **4208**

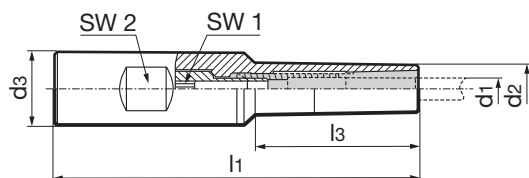


Product information:

- for tool shanks d1 h6
- slim extension for holding in HPC chuck or hydraulic chuck
- high clamping force
- actuation from the rear using the hexagonal key provided (SW1)
- actuation torque for clamping initiation 3 Nm

Suitable accessories separately available:

- clamping sleeves art. no. 4302, 4235
- torque wrench art. no. 4915 3.000 for optimal operation
- hexagonal key, art. no. 4912 4.000



Article no.

4208

d3 mm	Nominal size	d1 mm	d2 mm	l1 mm	l3 mm	SW1 mm	SW2 mm	Order no.
14	6	1.0-6.0	13	100	29	4	13	4208 6.014
20	6	1.0-6.0	13	100	45	4	16	4208 6.020
14	6	1.0-6.0	13	150	29	4	13	4208 6.114
20	6	1.0-6.0	13	150	67	4	16	4208 6.120

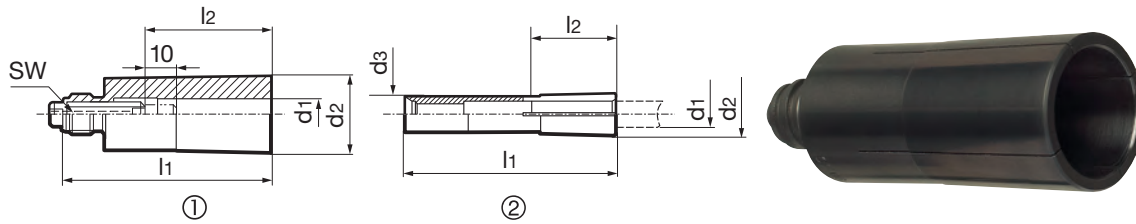


Product information:

- for clamping tools with straight shank
- for tool shanks d1 h6
- for maximum holding torque
- design with peripheral cooling thanks to long slots
- type 1: for HPC power chuck
- type 2: for HPC extensions
- type P: PinLock pull-out protection with optimised cooling, 3 securing pins and assembly tool (design without adjustment way)

Scope of delivery:

- incl. adjusting screw



Article no.

4302

Nominal size	d1 mm	d2 mm	d3 mm	l1 mm	l2 mm	Type	SW mm	Order no.
6	1.0	10.0	8.5	50.0	28	2		4302 1.006
6	2.0	10.0	8.5	50.0	28	2		4302 2.006
6	3.0	10.0	8.5	50.0	28	2		4302 3.006
6	4.0	10.0	8.5	50.0	28	2		4302 4.006
6	5.0	10.0	8.5	50.0	28	2		4302 5.006
6	6.0	10.0	8.5	50.0	28	2		4302 6.006
20	6.0	24.6		66.0	36	1&P	4	4302 6.120
20	8.0	24.6		66.0	36	1&P	4	4302 8.120
20	10.0	24.6		66.0	40	1&P	4	4302 10.120
20	12.0	24.6		66.0	45	1&P	4	4302 12.120
20	14.0	24.6		66.0	45	1&P	4	4302 14.120
20	16.0	24.6		66.0	48	1&P	4	4302 16.120
20	18.0	24.6		66.0	48	1&P	4	4302 18.120
20	20.0	24.6		66.0	50	1&P	4	4302 20.120
25	16.0	39.0		87.5	48	1&P	5	4302 16.125
25	20.0	39.0		87.5	50	1&P	5	4302 20.125
25	22.0	39.0		87.5	50	1&P	5	4302 22.125
25	25.0	39.0		87.5	56	1&P	5	4302 25.125
20	3.0	24.6		66.0	28	1	4	4302 3.020
20	4.0	24.6		66.0	28	1	4	4302 4.020
20	5.0	24.6		66.0	28	1	4	4302 5.020
20	6.0	24.6		66.0	36	1	4	4302 6.020
20	8.0	24.6		66.0	36	1	4	4302 8.020
20	10.0	24.6		66.0	40	1	4	4302 10.020
20	12.0	24.6		66.0	45	1	4	4302 12.020
20	14.0	24.6		66.0	45	1	4	4302 14.020
20	16.0	24.6		66.0	48	1	4	4302 16.020
20	18.0	24.6		66.0	48	1	4	4302 18.020
20	20.0	24.6		66.0	50	1	4	4302 20.020
25	16.0	39.0		87.5	48	1	5	4302 16.025
25	20.0	39.0		87.5	50	1	5	4302 20.025
25	22.0	39.0		87.5	50	1	5	4302 22.025
25	25.0	39.0		87.5	56	1	5	4302 25.025
25	32.0	39.0		87.5	59	1	5	4302 32.025

Precision clamping chucks



Clamping sleeves for precision clamping chucks, sealed version

Article no. **4235**

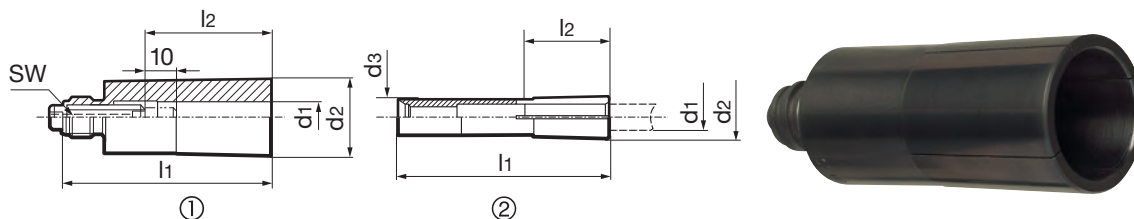


Product information:

- for clamping tools with straight shank
- for tool shanks d1 h6
- high holding torque
- sealed design with short slots
- type 1: for HPC power chuck
- type 2: for HPC extensions

Scope of delivery:

- incl. adjusting screw



Article no.

4235

Nominal size	d1 mm	d2 mm	d3 mm	l1 mm	l2 mm	Type	SW mm	Order no.
6	1.0	10.0	8.5	50.0	28	2		4235 1.006
6	2.0	10.0	8.5	50.0	28	2		4235 2.006
6	3.0	10.0	8.5	50.0	28	2		4235 3.006
6	4.0	10.0	8.5	50.0	28	2		4235 4.006
6	5.0	10.0	8.5	50.0	28	2		4235 5.006
6	6.0	10.0	8.5	50.0	28	2		4235 6.006
20	3.0	24.6		66.0	28	1	4	4235 3.020
20	4.0	24.6		66.0	28	1	4	4235 4.020
20	5.0	24.6		66.0	28	1	4	4235 5.020
20	6.0	24.6		66.0	36	1	4	4235 6.020
20	8.0	24.6		66.0	36	1	4	4235 8.020
20	10.0	24.6		66.0	40	1	4	4235 10.020
20	12.0	24.6		66.0	45	1	4	4235 12.020
20	14.0	24.6		66.0	45	1	4	4235 14.020
20	16.0	24.6		66.0	48	1	4	4235 16.020
20	18.0	24.6		66.0	48	1	4	4235 18.020
20	20.0	24.6		66.0	50	1	4	4235 20.020
25	16.0	39.0		87.5	48	1	5	4235 16.025
25	20.0	39.0		87.5	50	1	5	4235 20.025
25	22.0	39.0		87.5	50	1	5	4235 22.025
25	25.0	39.0		87.5	56	1	5	4235 25.025
25	32.0	39.0		87.5	59	1	5	4235 32.025

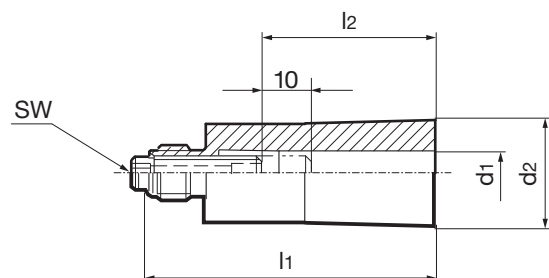
Precision clamping chucks


GÜHROJET
Product information:

- for clamping imperial tool shanks
- for tool shanks d1 h6
- for maximum holding torque
- design with peripheral cooling thanks to long slots
- type P: PinLock pull-out protection with optimised cooling, 3 securing pins and assembly tool (design without adjustment way)

Scope of delivery:

- incl. adjusting screw



Article no.

4236

Nominal size	d1 mm	d2 mm	l1 mm	l2 mm	Type	SW mm	Order no.
20	12.700	24.6	66.0	45	P	4	4236 1.120
20	15.875	24.6	66.0	48	P	4	4236 2.120
25	19.050	39.0	87.5	51	P	5	4236 1.125
25	25.400	39.0	87.5	58	P	5	4236 2.125
20	3.175	24.6	66.0	28		4	4236 1.020
20	4.760	24.6	66.0	28		4	4236 2.020
20	6.350	24.6	66.0	36		4	4236 3.020
20	7.940	24.6	66.0	36		4	4236 4.020
20	9.525	24.6	66.0	40		4	4236 5.020
20	11.110	24.6	66.0	45		4	4236 6.020
20	12.700	24.6	66.0	45		4	4236 7.020
20	14.290	24.6	66.0	45		4	4236 8.020
20	15.880	24.6	66.0	48		4	4236 9.020
20	17.460	24.6	66.0	48		4	4236 10.020
20	19.050	24.6	66.0	50		4	4236 11.020
25	19.050	39.0	87.5	50		5	4236 1.025
25	25.400	39.0	87.5	56		5	4236 2.025



Clamping sleeves, imp., f. prec. clamp. chucks, sealed version

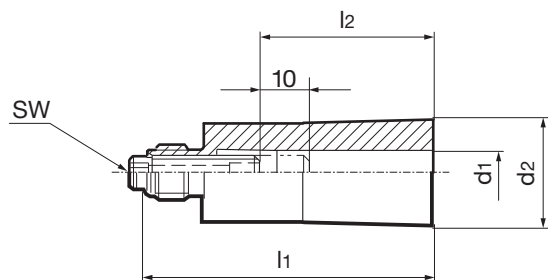
Article no. **4237**

Product information:

- for clamping imperial tool shanks
- for tool shanks d1 h6
- high holding torque
- sealed design with short slots

Scope of delivery:

- incl. adjusting screw



Article no. **4237**

Nominal size	d1 mm	d2 mm	l1 mm	l2 mm	SW mm	Order no.
20	9.525	24.6	66.0	40	4	4237 5.020
20	3.175	24.6	66.0	28	4	4237 1.020
25	19.050	39.0	87.5	50	5	4237 1.025
20	4.760	24.6	66.0	28	4	4237 2.020
25	25.400	39.0	87.5	56	5	4237 2.025
20	6.350	24.6	66.0	36	4	4237 3.020
20	7.940	24.6	66.0	36	4	4237 4.020
20	11.110	24.6	66.0	45	4	4237 6.020
20	12.700	24.6	66.0	45	4	4237 7.020
20	14.290	24.6	66.0	45	4	4237 8.020
20	15.880	24.6	66.0	48	4	4237 9.020
20	17.460	24.6	66.0	48	4	4237 10.020
20	19.050	24.6	66.0	50	4	4237 11.020


HSK-A Weldon side lock holders GÜHROJET
Article no. **4232**
GÜHROJET
Product information:

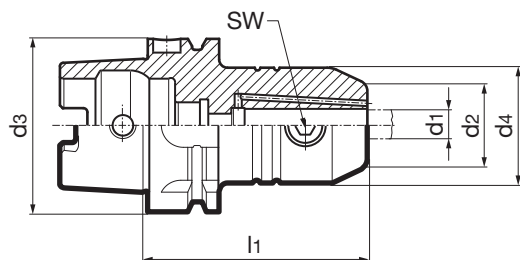
- HSK-A according to ISO 12164-1 / DIN 69893-1
- dimensions according to DIN 69882-4
- balancing quality: G 6.3 / 15,000 rpm
- with mounting hole DIN 1835-2, Form B "Weldon"
- from holder d1 = 25 mm with 2 clamping screws, art. no. 4903
- with coolant ducts for peripheral cooling, therefore process and tool life improvement
- coolant ducts: d1 = 6 - 14 mm with two coolant ducts, d1 = 16 - 32 mm with four coolant ducts

Scope of delivery:

- incl. clamping screw art. no. 4903

Suitable accessories separately available:

- coolant supply set art. no. 4949
- replacement clamping screw, art. no. 4903



Article no.

4232

d3	d1 H5 mm	d2 mm	d4 mm	l1 mm	SW mm	Order no.
HSK-A 32	6	15	25	60	3	4232 6.032
HSK-A 32	8	20	28	60	4	4232 8.032
HSK-A 32	10	25	35	65	5	4232 10.032
HSK-A 32	12	30	42	65	6	4232 12.032
HSK-A 40	6	15	25	60	3	4232 6.040
HSK-A 40	8	20	28	60	4	4232 8.040
HSK-A 40	10	25	35	60	5	4232 10.040
HSK-A 40	12	30	42	70	6	4232 12.040
HSK-A 40	14	32	44	75	6	4232 14.040
HSK-A 40	16	36	48	75	6	4232 16.040
HSK-A 50	6	15	25	65	3	4232 6.050
HSK-A 50	8	20	28	65	4	4232 8.050
HSK-A 50	10	25	35	65	5	4232 10.050
HSK-A 50	12	30	42	80	6	4232 12.050
HSK-A 50	14	32	44	80	6	4232 14.050
HSK-A 50	16	36	48	80	6	4232 16.050
HSK-A 50	18	38	50	80	6	4232 18.050
HSK-A 50	20	40	52	80	8	4232 20.050
HSK-A 63	6	15	25	65	3	4232 6.063
HSK-A 63	8	20	28	65	4	4232 8.063
HSK-A 63	10	25	35	65	5	4232 10.063
HSK-A 63	12	30	42	80	6	4232 12.063
HSK-A 63	14	32	44	80	6	4232 14.063
HSK-A 63	16	36	48	80	6	4232 16.063
HSK-A 63	18	38	50	80	6	4232 18.063
HSK-A 63	20	40	52	80	8	4232 20.063
HSK-A 63	25	45	65	110	10	4232 25.063
HSK-A 63	32	56	72	110	10	4232 32.063
HSK-A 80	6	15	25	80	3	4232 6.080
HSK-A 80	8	20	28	80	4	4232 8.080
HSK-A 80	10	25	35	80	5	4232 10.080
HSK-A 80	12	30	42	80	6	4232 12.080
HSK-A 80	14	32	44	80	6	4232 14.080
HSK-A 80	16	36	48	100	6	4232 16.080
HSK-A 80	18	38	50	100	6	4232 18.080
HSK-A 80	20	40	52	100	8	4232 20.080
HSK-A 80	25	45	65	100	10	4232 25.080
HSK-A 80	32	56	72	110	10	4232 32.080
HSK-A 80	40	60	80	120	10	4232 40.080
HSK-A 100	6	15	25	80	3	4232 6.100
HSK-A 100	8	20	28	80	4	4232 8.100
HSK-A 100	10	25	35	80	5	4232 10.100
HSK-A 100	12	30	42	80	6	4232 12.100
HSK-A 100	14	32	44	80	6	4232 14.100
HSK-A 100	16	36	48	100	6	4232 16.100
HSK-A 100	18	38	50	100	6	4232 18.100
HSK-A 100	20	40	52	100	8	4232 20.100
HSK-A 100	25	45	65	100	10	4232 25.100



Side lock holders

Article no.

4232

d3	d1 H5 mm	d2 mm	d4 mm	l1 mm	SW mm	Order no.
HSK-A 100	32	56	72	100	10	4232 32.100
HSK-A 100	40	60	80	110	10	4232 40.100



HSK-A Weldon side lock holders

Article no. 4329



Product information:

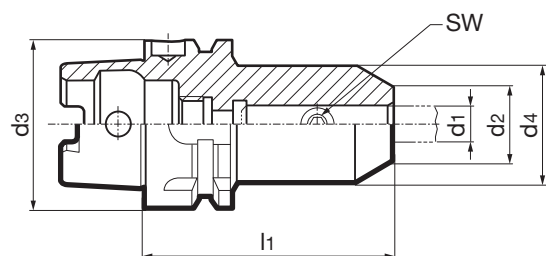
- HSK-A according to ISO 12164-1 / DIN 69893-1
- dimensions according to DIN 69882-4
- with mounting hole DIN 1835-2, Form B "Weldon"
- balancing quality: G 6.3 / 15,000 rpm
- from holder d1 = 25 mm with 2 clamping screws, art. no. 4903

Scope of delivery:

- incl. clamping screw art. no. 4903

Suitable accessories separately available:

- coolant supply set art. no. 4949
- replacement clamping screw, art. no. 4903



Article no.

4329

d3	d1 H5 mm	d2 mm	d4 mm	l1 mm	SW mm	Order no.
HSK-A 32	6	15	25	60	3	4329 6.032
HSK-A 32	8	20	28	60	4	4329 8.032
HSK-A 32	10	25	35	65	5	4329 10.032
HSK-A 32	12	30	42	65	6	4329 12.032
HSK-A 40	6	15	25	60	3	4329 6.040
HSK-A 40	8	20	28	60	4	4329 8.040
HSK-A 40	10	25	35	60	5	4329 10.040
HSK-A 40	12	30	42	70	6	4329 12.040
HSK-A 40	14	32	44	75	6	4329 14.040
HSK-A 40	16	36	48	75	6	4329 16.040
HSK-A 50	6	15	25	65	3	4329 6.050
HSK-A 50	8	20	28	65	4	4329 8.050
HSK-A 50	10	25	35	65	5	4329 10.050
HSK-A 50	12	30	42	80	6	4329 12.050
HSK-A 50	14	32	44	80	6	4329 14.050
HSK-A 50	16	36	48	80	6	4329 16.050
HSK-A 50	18	38	50	80	6	4329 18.050
HSK-A 50	20	40	52	80	8	4329 20.050
HSK-A 63	6	15	25	65	3	4329 6.063
HSK-A 63	8	20	28	65	4	4329 8.063
HSK-A 63	10	25	35	65	5	4329 10.063
HSK-A 63	12	30	42	80	6	4329 12.063
HSK-A 63	14	32	44	80	6	4329 14.063
HSK-A 63	16	36	48	80	6	4329 16.063
HSK-A 63	18	38	50	80	6	4329 18.063
HSK-A 63	20	40	52	80	8	4329 20.063
HSK-A 63	25	45	65	110	10	4329 25.063
HSK-A 63	32	56	72	110	10	4329 32.063
HSK-A 80	6	15	25	80	3	4329 6.080
HSK-A 80	8	20	28	80	4	4329 8.080
HSK-A 80	10	25	35	80	5	4329 10.080
HSK-A 80	12	30	42	80	6	4329 12.080
HSK-A 80	14	32	44	80	6	4329 14.080
HSK-A 80	16	36	48	100	6	4329 16.080
HSK-A 80	18	38	50	100	6	4329 18.080
HSK-A 80	20	40	52	100	8	4329 20.080
HSK-A 80	25	45	65	100	10	4329 25.080
HSK-A 80	32	56	72	110	10	4329 32.080
HSK-A 80	40	60	80	120	10	4329 40.080
HSK-A 100	6	15	25	80	3	4329 6.100
HSK-A 100	8	20	28	80	4	4329 8.100
HSK-A 100	10	25	35	80	5	4329 10.100
HSK-A 100	12	30	42	80	6	4329 12.100
HSK-A 100	14	32	44	80	6	4329 14.100
HSK-A 100	16	36	48	100	6	4329 16.100
HSK-A 100	18	38	50	100	6	4329 18.100
HSK-A 100	20	40	52	100	8	4329 20.100
HSK-A 100	25	45	65	100	10	4329 25.100



Side lock holders

Article no.

4329

d3	d1 H5 mm	d2 mm	d4 mm	l1 mm	SW mm	Order no.
HSK-A 100	32	56	72	100	10	4329 32.100
HSK-A 100	40	60	80	110	10	4329 40.100



HSK-A Whistle notch side lock holders

Article no. 4334



Product information:

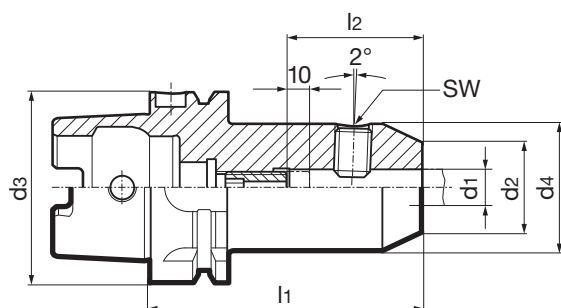
- HSK-A according to ISO 12164-1 / DIN 69893-1
- dimensions according to DIN 69882-5
- with locating bore DIN 1835-2 form E "Whistle Notch" with groove on face for identification
- balancing quality: G 6.3 / 15,000 rpm
- from holder d1 = 25 mm with 2 clamping screws, art. no. 4903

Scope of delivery:

- incl. clamping screw art. no. 4903
- adjusting screw art.no. 4900

Suitable accessories separately available:

- coolant supply set art. no. 4949
- replacement adjusting screw (1), art. no. 4900
- replacement clamping screw, art. no. 4903



Article no.

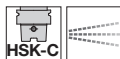
4334

d3	d1 H5 mm	d2 mm	d4 mm	l1 mm	l2 mm	SW mm	Order no.
HSK-A 32	6	15	32	80	36	3	4334 6.032
HSK-A 32	8	20	32	80	36	4	4334 8.032
HSK-A 32	10	25	32	80	40	5	4334 10.032
HSK-A 32	12	30	32	80	45	6	4334 12.032
HSK-A 40	6	15	40	80	36	3	4334 6.040
HSK-A 40	8	20	40	80	36	4	4334 8.040
HSK-A 40	10	25	40	80	40	5	4334 10.040
HSK-A 40	12	30	40	90	45	6	4334 12.040
HSK-A 40	14	32	40	90	45	6	4334 14.040
HSK-A 40	16	36	40	90	48	6	4334 16.040
HSK-A 50	6	15	50	80	36	3	4334 6.050
HSK-A 50	8	20	50	80	36	4	4334 8.050
HSK-A 50	10	25	50	80	40	5	4334 10.050
HSK-A 50	12	30	50	90	45	6	4334 12.050
HSK-A 50	14	32	50	90	45	6	4334 14.050
HSK-A 50	16	36	50	90	48	6	4334 16.050
HSK-A 50	18	38	50	90	48	6	4334 18.050
HSK-A 50	20	40	50	100	50	8	4334 20.050
HSK-A 63	6	15	63	80	36	3	4334 6.063
HSK-A 63	8	20	63	80	36	4	4334 8.063
HSK-A 63	10	25	63	80	40	5	4334 10.063
HSK-A 63	12	30	63	90	45	6	4334 12.063
HSK-A 63	14	32	63	90	45	6	4334 14.063
HSK-A 63	16	36	63	100	48	6	4334 16.063
HSK-A 63	18	38	63	100	48	6	4334 18.063
HSK-A 63	20	40	63	100	50	8	4334 20.063
HSK-A 63	25	45	63	110	56	10	4334 25.063
HSK-A 63	32	56	63	110	60	10	4334 32.063
HSK-A 80	6	15	80	90	36	3	4334 6.080
HSK-A 80	8	20	80	90	36	4	4334 8.080
HSK-A 80	10	25	80	90	40	5	4334 10.080
HSK-A 80	12	30	80	100	45	6	4334 12.080
HSK-A 80	14	32	80	100	45	6	4334 14.080
HSK-A 80	16	36	80	100	48	6	4334 16.080
HSK-A 80	18	38	80	100	48	6	4334 18.080
HSK-A 80	20	40	80	110	50	8	4334 20.080
HSK-A 80	25	45	80	110	56	10	4334 25.080
HSK-A 80	32	56	80	120	60	10	4334 32.080
HSK-A 100	6	15	100	90	36	3	4334 6.100
HSK-A 100	8	20	100	90	36	4	4334 8.100
HSK-A 100	10	25	100	90	40	5	4334 10.100
HSK-A 100	12	30	100	100	45	6	4334 12.100
HSK-A 100	14	32	100	100	45	6	4334 14.100
HSK-A 100	16	36	100	100	48	6	4334 16.100
HSK-A 100	18	38	100	100	48	6	4334 18.100
HSK-A 100	20	40	100	110	50	8	4334 20.100
HSK-A 100	25	45	100	120	56	10	4334 25.100
HSK-A 100	32	56	100	120	60	10	4334 32.100



HSK-C Whistle notch side lock holders

Article no. **4333**



Product information:

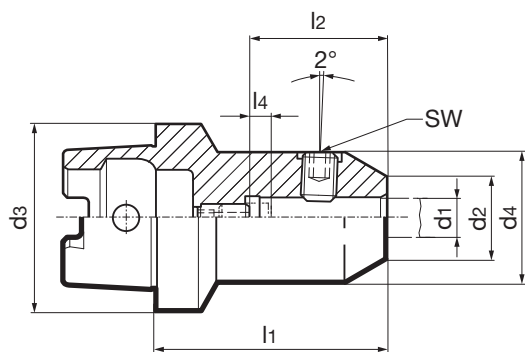
- HSK-C according to ISO 12164-1/DIN 69893-1
- dimensions according to DIN 69882-5
- with locating bore DIN 1835-2 form E "Whistle Notch" with groove on face for identification
- balancing quality: G 6.3 / 15,000 rpm
- for tool shanks d1 h6
- from holder d1 = 25 mm with 2 clamping screws, art. no. 4903

Scope of delivery:

- incl. clamping screw art. no. 4903
- adjusting screw art.no. 4900

Suitable accessories separately available:

- replacement clamping screw, art. no. 4903
- replacement adjusting screw (1), art. no. 4900



Article no.

4333

d3	d1 H5 mm	d2 mm	d4 mm	l1 mm	l2 mm	l4 mm	SW mm	Order no.
HSK-C 32	6	25	32	60	36	10	3	4333 6.032
HSK-C 32	8	28	32	60	36	10	4	4333 8.032
HSK-C 32	10	35	32	65	40	10	5	4333 10.032
HSK-C 40	6	25	40	60	36	10	3	4333 6.040
HSK-C 40	8	28	40	60	36	10	4	4333 8.040
HSK-C 40	10	35	40	65	40	10	5	4333 10.040
HSK-C 40	12	42	40	70	45	8	6	4333 12.040
HSK-C 40	14	44	40	70	45	8	6	4333 14.040
HSK-C 40	16	48	40	75	48	8	6	4333 16.040
HSK-C 40	20	52	40	80	50	8	8	4333 20.040
HSK-C 50	6	25	50	60	36	8	3	4333 6.050
HSK-C 50	8	28	50	60	36	8	4	4333 8.050
HSK-C 50	10	35	50	65	40	8	5	4333 10.050
HSK-C 50	12	42	50	75	45	10	6	4333 12.050
HSK-C 50	14	44	50	75	45	10	6	4333 14.050
HSK-C 50	16	48	50	80	48	10	6	4333 16.050
HSK-C 50	18	49	50	80	48	10	6	4333 18.050
HSK-C 50	20	52	50	80	50	8	8	4333 20.050
HSK-C 50	25	65	50	95	56	8	10	4333 25.050
HSK-C 63	6	25	63	60	36	8	3	4333 6.063
HSK-C 63	8	28	63	60	36	8	4	4333 8.063
HSK-C 63	10	35	63	65	40	8	5	4333 10.063
HSK-C 63	12	42	63	75	45	10	6	4333 12.063
HSK-C 63	14	44	63	75	45	10	6	4333 14.063
HSK-C 63	16	48	63	80	48	10	6	4333 16.063
HSK-C 63	18	50	63	80	48	10	6	4333 18.063
HSK-C 63	20	52	63	80	50	8	8	4333 20.063
HSK-C 63	25	65	63	95	56	8	10	4333 25.063
HSK-C 63	32	72	63	100	60	8	10	4333 32.063

Side lock holders



ISO taper Weldon side lock holders GÜHROJET

Article no. 4824



GÜHROJET

Product information:

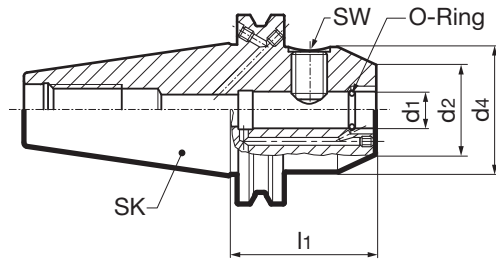
- ISO taper to DIN ISO 7388-1 form AD/AF
- holes for AF form closed with threaded pins on delivery
- with mounting hole DIN 1835-2, Form B "Weldon"
- balancing quality: G 6.3 / 15,000 rpm
- with coolant ducts in the clamping bore for peripheral cooling, therefore process and tool life improvement
- from holder d1 = 25 mm with 2 clamping screws, art. no. 4903
- coolant supply form AD/AF
- coolant ducts: d1 = 6 - 18 mm with two coolant ducts d1 = 20 - 32 mm with four coolant ducts

Scope of delivery:

- incl. clamping screw art. no. 4903
- incl. O ring for sealing

Suitable accessories separately available:

- ISO pull studs art. no. 4925, 4926
- replacement clamping screw, art. no. 4903



Article no.

4824

SK	d1 h5 mm	d2 mm	d4 mm	l1 mm	SW mm	Order no.
SK 40	6	15	25	50	3	4824 6.040
SK 40	8	20	28	50	4	4824 8.040
SK 40	10	25	35	50	5	4824 10.040
SK 40	12	30	42	50	6	4824 12.040
SK 40	14	32	44	50	6	4824 14.040
SK 40	16	36	48	63	6	4824 16.040
SK 40	18	38	50	63	6	4824 18.040
SK 40	20	40	52	63	8	4824 20.040
SK 40	25	45	63	100	10	4824 25.040
SK 40	32	56	72	100	10	4824 32.040
SK 40	6	15	25	100	3	4824 106.040
SK 40	8	20	28	100	4	4824 108.040
SK 40	10	25	35	100	5	4824 110.040
SK 40	12	30	42	100	6	4824 112.040
SK 40	14	32	44	100	6	4824 114.040
SK 40	16	36	48	100	6	4824 116.040
SK 40	18	38	50	100	6	4824 118.040
SK 40	20	40	52	100	8	4824 120.040
SK 40	6	15	25	130	3	4824 206.040
SK 40	8	20	28	130	4	4824 208.040
SK 40	10	25	35	130	5	4824 210.040
SK 40	12	30	42	130	6	4824 212.040
SK 40	14	32	44	130	6	4824 214.040
SK 40	16	36	48	130	6	4824 216.040
SK 40	18	38	50	130	6	4824 218.040
SK 40	20	40	52	130	8	4824 220.040
SK 40	25	45	63	130	10	4824 225.040
SK 40	32	56	72	130	10	4824 232.040
SK 40	6	15	25	160	3	4824 306.040
SK 40	8	20	28	160	4	4824 308.040
SK 40	10	25	35	160	5	4824 310.040
SK 40	12	30	42	160	6	4824 312.040
SK 40	14	32	44	160	6	4824 314.040
SK 40	16	36	48	160	6	4824 316.040
SK 40	18	38	50	160	6	4824 318.040
SK 40	20	40	52	160	8	4824 320.040
SK 40	25	45	63	160	10	4824 325.040
SK 40	32	56	72	160	10	4824 332.040
SK 40	6	15	25	200	3	4824 406.040
SK 40	8	20	28	200	4	4824 408.040
SK 40	10	25	35	200	5	4824 410.040
SK 40	12	30	42	200	6	4824 412.040
SK 40	14	32	44	200	6	4824 414.040
SK 40	16	36	48	200	6	4824 416.040
SK 40	18	38	50	200	6	4824 418.040
SK 40	20	40	52	200	8	4824 420.040
SK 40	25	45	63	200	10	4824 425.040
SK 40	32	56	72	200	10	4824 432.040



Side lock holders

Article no.

4824

SK	d1 h5 mm	d2 mm	d4 mm	l1 mm	SW mm	Order no.
SK 50	6	15	25	63	3	4824 6.050
SK 50	8	20	28	63	4	4824 8.050
SK 50	10	25	35	63	5	4824 10.050
SK 50	12	30	42	63	6	4824 12.050
SK 50	14	32	44	63	6	4824 14.050
SK 50	16	36	48	63	6	4824 16.050
SK 50	18	38	50	63	6	4824 18.050
SK 50	20	40	52	63	8	4824 20.050
SK 50	25	45	63	80	10	4824 25.050
SK 50	32	56	72	100	10	4824 32.050
SK 50	6	15	25	130	3	4824 206.050
SK 50	8	20	28	130	4	4824 208.050
SK 50	10	25	35	130	5	4824 210.050
SK 50	12	30	42	130	6	4824 212.050
SK 50	14	32	44	130	6	4824 214.050
SK 50	16	36	48	130	6	4824 216.050
SK 50	18	38	50	130	6	4824 218.050
SK 50	20	40	52	130	8	4824 220.050
SK 50	25	45	63	130	10	4824 225.050
SK 50	32	56	72	130	10	4824 232.050
SK 50	6	15	25	160	3	4824 306.050
SK 50	8	20	28	160	4	4824 308.050
SK 50	10	25	35	160	5	4824 310.050
SK 50	12	30	42	160	6	4824 312.050
SK 50	14	32	44	160	6	4824 314.050
SK 50	16	36	48	160	6	4824 316.050
SK 50	18	38	50	160	6	4824 318.050
SK 50	20	40	52	160	8	4824 320.050
SK 50	25	45	63	160	10	4824 325.050
SK 50	32	56	72	160	10	4824 332.050
SK 50	6	15	25	200	3	4824 406.050
SK 50	8	20	28	200	4	4824 408.050
SK 50	10	25	35	200	5	4824 410.050
SK 50	12	30	42	200	6	4824 412.050
SK 50	14	32	44	200	6	4824 414.050
SK 50	16	36	48	200	6	4824 416.050
SK 50	18	38	50	200	6	4824 418.050
SK 50	20	40	52	200	8	4824 420.050
SK 50	25	45	63	200	10	4824 425.050
SK 50	32	56	72	200	10	4824 432.050

Side lock holders



ISO taper Weldon side lock holders

Article no. 4497



Product information:

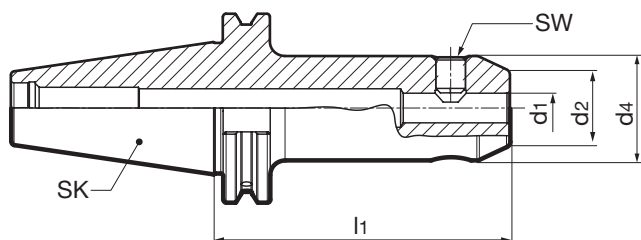
- ISO taper to DIN ISO 7388-1 form AD
- with mounting hole DIN 1835-2, Form B "Weldon"
- balancing quality: G 6.3 / 15,000 rpm
- from holder d1 = 25 mm with 2 clamping screws, art. no. 4903

Scope of delivery:

- incl. clamping screw art. no. 4903

Suitable accessories separately available:

- ISO pull studs art. no. 4925, 4926
- replacement clamping screw, art. no. 4903



Article no.

4497

SK	d1 h5 mm	d2 mm	d4 mm	l1 mm	SW mm	Order no.
SK 40	6	15	25	50	3	4497 6.040
SK 40	8	20	28	50	4	4497 8.040
SK 40	10	25	35	50	5	4497 10.040
SK 40	12	30	42	50	6	4497 12.040
SK 40	14	32	44	50	6	4497 14.040
SK 40	16	36	48	63	6	4497 16.040
SK 40	18	38	50	63	6	4497 18.040
SK 40	20	40	52	63	8	4497 20.040
SK 40	6	15	25	100	3	4497 106.040
SK 40	8	20	28	100	4	4497 108.040
SK 40	10	25	35	100	5	4497 110.040
SK 40	12	30	42	100	6	4497 112.040
SK 40	14	32	44	100	6	4497 114.040
SK 40	16	36	48	100	6	4497 116.040
SK 40	18	38	50	100	6	4497 118.040
SK 40	20	40	52	100	8	4497 120.040
SK 40	25	45	63	100	10	4497 125.040
SK 40	32	56	72	100	10	4497 132.040
SK 40	6	15	25	130	3	4497 206.040
SK 40	8	20	28	130	4	4497 208.040
SK 40	10	25	35	130	5	4497 210.040
SK 40	12	30	42	130	6	4497 212.040
SK 40	14	32	44	130	6	4497 214.040
SK 40	16	36	48	130	6	4497 216.040
SK 40	18	38	50	130	6	4497 218.040
SK 40	20	40	52	130	8	4497 220.040
SK 40	25	45	63	130	10	4497 225.040
SK 40	32	56	72	130	10	4497 232.040
SK 40	6	15	25	160	3	4497 306.040
SK 40	8	20	28	160	4	4497 308.040
SK 40	10	25	35	160	5	4497 310.040
SK 40	12	30	42	160	6	4497 312.040
SK 40	14	32	44	160	6	4497 314.040
SK 40	16	36	48	160	6	4497 316.040
SK 40	18	38	50	160	6	4497 318.040
SK 40	20	40	52	160	8	4497 320.040
SK 40	25	45	63	160	10	4497 325.040
SK 40	32	56	72	160	10	4497 332.040
SK 40	16	36	45	35	6	4497 916.040
SK 40	20	40	45	35	8	4497 920.040
SK 40	25	45	50	35	10	4497 925.040
SK 50	6	15	25	63	3	4497 6.050
SK 50	8	20	28	63	4	4497 8.050
SK 50	10	25	35	63	5	4497 10.050
SK 50	12	30	42	63	6	4497 12.050
SK 50	14	32	44	63	6	4497 14.050
SK 50	16	36	48	63	6	4497 16.050
SK 50	18	38	50	63	6	4497 18.050



Side lock holders

Article no.

4497

SK	d1 h5 mm	d2 mm	d4 mm	l1 mm	SW mm	Order no.
SK 50	20	40	52	63	8	4497 20.050
SK 50	25	45	63	80	10	4497 25.050
SK 50	6	15	25	100	3	4497 106.050
SK 50	8	20	28	100	4	4497 108.050
SK 50	10	25	35	100	5	4497 110.050
SK 50	12	30	42	100	6	4497 112.050
SK 50	14	32	44	100	6	4497 114.050
SK 50	16	36	48	100	6	4497 116.050
SK 50	18	38	50	100	6	4497 118.050
SK 50	20	40	52	100	8	4497 120.050
SK 50	25	45	63	100	10	4497 125.050
SK 50	32	56	72	100	10	4497 132.050
SK 50	6	15	25	130	3	4497 206.050
SK 50	8	20	28	130	4	4497 208.050
SK 50	10	25	35	130	5	4497 210.050
SK 50	12	30	42	130	6	4497 212.050
SK 50	14	32	44	130	6	4497 214.050
SK 50	16	36	48	130	6	4497 216.050
SK 50	18	38	50	130	6	4497 218.050
SK 50	20	40	52	130	8	4497 220.050
SK 50	25	45	63	130	10	4497 225.050
SK 50	32	56	72	130	10	4497 232.050
SK 50	6	15	25	160	3	4497 306.050
SK 50	8	20	28	160	4	4497 308.050
SK 50	10	25	35	160	5	4497 310.050
SK 50	12	30	42	160	6	4497 312.050
SK 50	14	32	44	160	6	4497 314.050
SK 50	16	36	48	160	6	4497 316.050
SK 50	18	38	50	160	6	4497 318.050
SK 50	20	40	52	160	8	4497 320.050
SK 50	25	45	63	160	10	4497 325.050
SK 50	32	56	72	160	10	4497 332.050

Side lock holders



ISO taper Whistle Notch side lock holders

Article no. 4853



Product information:

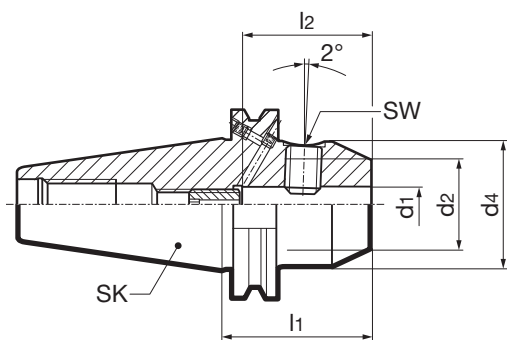
- ISO taper to DIN ISO 7388-1 form AD/AF
- with mounting hole DIN 1835-2, Form E „Whistle Notch“
- balancing quality: G 6.3 / 15,000 rpm
- from holder d1 = 25 mm with 2 clamping screws, art. no. 4903

Scope of delivery:

- incl. clamping screw art. no. 4903
- adjusting screw art.no. 4900

Suitable accessories separately available:

- replacement clamping screw, art. no. 4903
- replacement adjusting screw (1), art. no. 4900
- ISO pull studs art. no. 4925, 4926



Article no. 4853

SK	d1 H5 mm	d2 mm	d4 mm	l1 mm	l2 mm	SW mm	Order no.
SK 40	6	15	25	50	36	3	4853 6.040
SK 40	8	20	28	50	36	4	4853 8.040
SK 40	10	25	35	50	40	5	4853 10.040
SK 40	12	30	42	50	45	6	4853 12.040
SK 40	14	32	44	50	45	6	4853 14.040
SK 40	16	36	48	63	48	6	4853 16.040
SK 40	18	38	50	63	48	6	4853 18.040
SK 40	20	40	52	63	50	8	4853 20.040
SK 40	25	45	63	100	56	10	4853 25.040
SK 40	32	56	72	100	60	10	4853 32.040
SK 40	6	15	25	130	36	3	4853 106.040
SK 40	8	20	28	130	36	4	4853 108.040
SK 40	10	25	35	130	40	5	4853 110.040
SK 40	12	30	42	130	45	6	4853 112.040
SK 40	14	32	44	130	45	6	4853 114.040
SK 40	16	36	36	130	54	6	4853 116.040
SK 40	18	38	38	130	48	6	4853 118.040
SK 40	20	40	40	130	50	8	4853 120.040
SK 40	25	46	46	130	56	10	4853 125.040
SK 40	32	52	52	130	68	10	4853 132.040
SK 50	6	15	25	63	36	3	4853 6.050
SK 50	8	20	28	63	36	4	4853 8.050
SK 50	10	25	35	63	40	5	4853 10.050
SK 50	12	30	42	63	45	6	4853 12.050
SK 50	14	32	44	63	45	6	4853 14.050
SK 50	16	36	48	63	48	6	4853 16.050
SK 50	18	38	50	63	48	6	4853 18.050
SK 50	20	40	52	63	50	8	4853 20.050
SK 50	25	45	63	80	56	10	4853 25.050
SK 50	32	56	72	100	60	10	4853 32.050

Side lock holders



Product information:

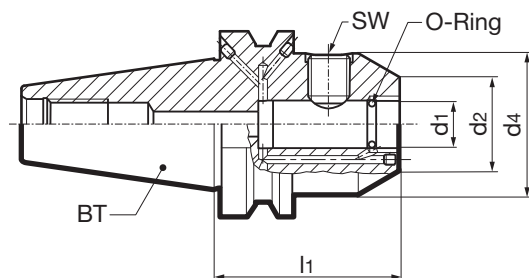
- BT30 and BT40 (order no. 4234 916.040, 4234 920.040, 4234 925.040) design JD without coolant supply via collar and without GÜHROJET
- with mounting hole DIN 1835-2, Form B "Weldon"
- balancing quality: G 6.3 / 15,000 rpm
- from holder d1 = 25 mm with 2 clamping screws, art. no. 4903
- with coolant ducts in the clamping bore for peripheral cooling, therefore process and tool life improvement
- coolant ducts: d1 = 6 - 18 mm with two coolant ducts d1 = 20 - 32 mm with four coolant ducts

Scope of delivery:

- incl. clamping screw art. no. 4903
- incl. O ring for sealing

Suitable accessories separately available:

- BT pull studs art. nr. 4927, 4928
- replacement clamping screw, art. no. 4903



Article no.

4234

BT	d1 H5 mm	d2 mm	d4 mm	l1 mm	SW mm	Order no.
BT 30	6	15	25	50	3	4234 6.030
BT 30	8	20	28	50	4	4234 8.030
BT 30	10	25	35	50	5	4234 10.030
BT 30	12	30	42	50	6	4234 12.030
BT 30	14	32	44	50	6	4234 14.030
BT 30	16	36	48	63	6	4234 16.030
BT 30	18	38	50	63	6	4234 18.030
BT 30	20	40	52	63	8	4234 20.030
BT 40	6	15	25	50	3	4234 6.040
BT 40	8	20	28	50	4	4234 8.040
BT 40	10	25	35	63	5	4234 10.040
BT 40	12	30	42	63	6	4234 12.040
BT 40	14	32	44	63	6	4234 14.040
BT 40	16	36	48	63	6	4234 16.040
BT 40	18	38	50	63	6	4234 18.040
BT 40	20	40	52	63	8	4234 20.040
BT 40	25	45	63	90	10	4234 25.040
BT 40	32	56	72	100	10	4234 32.040
BT 40	6	15	25	100	3	4234 106.040
BT 40	8	20	28	100	4	4234 108.040
BT 40	10	25	35	100	5	4234 110.040
BT 40	12	30	42	100	6	4234 112.040
BT 40	14	32	44	100	6	4234 114.040
BT 40	16	36	48	100	6	4234 116.040
BT 40	18	38	50	100	6	4234 118.040
BT 40	20	40	52	100	8	4234 120.040
BT 40	16	36	45	35	6	4234 916.040
BT 40	20	40	45	35	8	4234 920.040
BT 40	25	45	45	35	10	4234 925.040



MAS/BT Whistle Notch side lock holders

Article no. 4233



Product information:

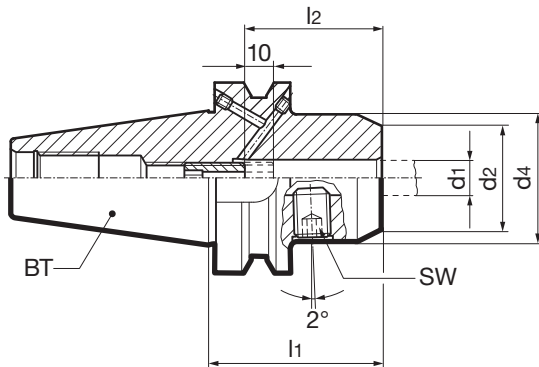
- MAS/BT to DIN ISO 7388-2 Form JD/JF
- with mounting hole DIN 1835-2, Form E „Whistle Notch“
- balancing quality: G 6.3 / 15,000 rpm
- missing dimensions according to DIN 69895
- from holder d1 = 25 mm with 2 clamping screws, art. no. 4903

Scope of delivery:

- incl. clamping screw art. no. 4903 and adjusting screw

Suitable accessories separately available:

- replacement clamping screw, art. no. 4903
- BT pull studs art. nr. 4927, 4928



Article no.

4233

BT	d1 H5 mm	d2 mm	d4 mm	l1 mm	l2 mm	SW mm	Order no.
BT 40	6	15	25	50	36	3	4233 6.040
BT 40	8	20	28	50	36	4	4233 8.040
BT 40	10	25	35	63	40	5	4233 10.040
BT 40	12	30	42	63	45	6	4233 12.040
BT 40	14	32	44	63	45	6	4233 14.040
BT 40	16	36	48	63	48	6	4233 16.040
BT 40	18	38	50	63	48	6	4233 18.040
BT 40	20	40	52	63	50	8	4233 20.040
BT 40	25	45	63	90	56	10	4233 25.040
BT 40	32	56	72	100	60	10	4233 32.040
BT 50	6	15	25	63	36	3	4233 6.050
BT 50	8	20	28	63	36	4	4233 8.050
BT 50	10	25	35	63	40	5	4233 10.050
BT 50	12	30	42	80	45	6	4233 12.050
BT 50	14	32	44	80	45	6	4233 14.050
BT 50	16	36	48	80	48	6	4233 16.050
BT 50	18	38	50	80	48	6	4233 18.050
BT 50	20	40	52	80	50	8	4233 20.050
BT 50	25	45	65	100	56	10	4233 25.050
BT 50	32	56	72	105	60	10	4233 32.050

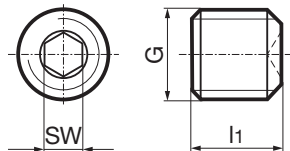


Clamping screws

Article no. **4903**

Product information:

- for side lock holders with hole to DIN 1835-2, B and E, and HSK-A adaptors for tapping chucks, art. nos. 4317/4322/4329/4333/4334/4343
- art. no. 4903 12.001 (M12) only for art. no. 4343
- minimum order quantity 5 units



Article no.

4903

Ø-range	G	l1 mm	Torque Nm	SW mm	Order no.
6	M 6	10	5	3	4903 6.000
8	M 8	10	10	4	4903 8.000
10	M10	12	15	5	4903 10.000
12/14	M12	14	28	6	4903 12.000
25	M12	12	28	6	4903 12.001
16/18	M14	16	42	6	4903 14.000
25	M14	11	42	6	4903 14.001
20	M16	16	50	8	4903 16.000
25	M16	12	50	8	4903 16.001
25	M18X2	20	60	10	4903 18.000
32/40	M20X2	20	72	10	4903 20.000
40	M20X2	25	72	10	4903 20.001

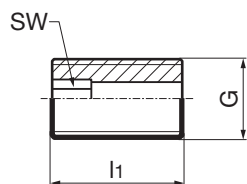


Adjusting screws

Article no. **4904**

Product information:

- for side lock holders HSK-A with mounting hole DIN 1835–2, form E, shrink fit chuck and shrink fit extension
- minimum order quantity 5 units

Article no. **4904**

G	l1 mm	SW mm	Order no.
M 5	5	2.5	4904 5.005
M 5	7	2.5	4904 5.007
M 5	16	2.5	4904 5.016
M 5	20	2.5	4904 5.020
M 6	7	3.0	4904 6.007
M 6	16	3.0	4904 6.016
M 6	20	3.0	4904 6.020
M 8	12	3.0	4904 8.012
M 8	18	4.0	4904 8.018
M10	17	3.0	4904 10.017
M10	20	5.0	4904 10.020
M12	14	3.0	4904 12.014
M12	20	5.0	4904 12.020
M16	25	5.0	4904 16.025
M20	25	6.0	4904 20.025

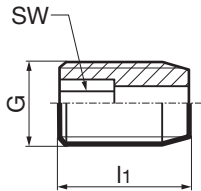


Adjusting screws

Article no. **4905**

Product information:

- for HSK-C side lock holders with hole according to DIN 1835-2, form E, art. nos. 4333 / 4322
- minimum order quantity 5 units



Article no.

4905

G	l1 mm	SW mm	Order no.
M 5	14	2.5	4905 5.014
M 5	16	2.5	4905 5.016
M 6	14	3.0	4905 6.014
M 6	16	3.0	4905 6.016
M 8	15	4.0	4905 8.015
M 8	17	4.0	4905 8.017
M10	17	5.0	4905 10.017
M10	20	5.0	4905 10.020
M12	19	6.0	4905 12.019
M12	22	6.0	4905 12.022
M16	20	6.0	4905 16.020
M20	26	6.0	4905 20.026



HSK-A collet holders

Article no. 4304



Product information:

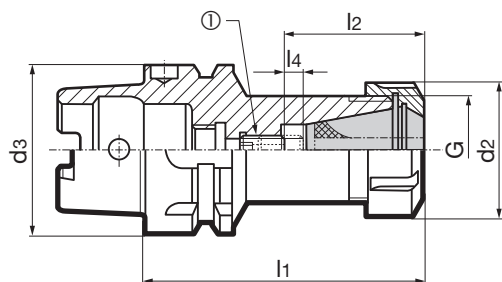
- HSK-A according to ISO 12164-1 / DIN 69893-1
- for collet chuck holders with adjustment angle 8° to DIN ISO 15488
- balancing quality: G 2.5 / 25,000 rpm
or rev. < 1 gmm

Scope of delivery:

- clamping nut art. no. 4306
- adjusting screw (1) art. no. 4902

Suitable accessories separately available:

- replacement IC/ER clamping nut, art. no. 4306
- replacement adjusting screw (1), art. no. 4902
- collet art. no. 4307
- clamping key art. no. 4913
- coolant supply set art. no. 4949



Article no.

4304

d3	Size	f. clamp. range	d2 mm	G	l1 mm	l2 mm	l4 mm	①	Order no.
HSK-A 32	ER11	1.0-7.0	19	M14 X0.75	55	25	6	4902 11.012	4304 11.032
HSK-A 32	ER16	1.0-10.0	28	M22 X1.5	80	34	6	4902 16.012	4304 16.032
HSK-A 32	ER20	3.0-13.0	34	M25 X1.5	70	40	6	4902 16.012	4304 20.032
HSK-A 40	ER16	1.0-10.0	28	M22 X1.5	80	34	6	4902 16.012	4304 16.040
HSK-A 40	ER25	2.0-16.0	42	M32 X1.5	80	44	6	4902 25.014	4304 25.040
HSK-A 40	ER32	3.0-20.0	50	M40 X1.5	100	50	10	4902 32.020	4304 32.040
HSK-A 50	ER16	1.0-10.0	28	M22 X1.5	100	34	6	4902 16.012	4304 16.050
HSK-A 50	ER25	2.0-16.0	42	M32 X1.5	80	44	6	4902 25.014	4304 25.050
HSK-A 50	ER25	2.0-16.0	42	M32 X1.5	100	44	6	4902 25.014	4304 25.150
HSK-A 50	ER32	3.0-20.0	50	M40 X1.5	100	50	10	4902 32.020	4304 32.050
HSK-A 63	ER16	1.0-10.0	28	M22 X1.5	100	34	6	4902 16.012	4304 16.063
HSK-A 63	ER16	1.0-10.0	28	M22 X1.5	160	34	6	4902 16.012	4304 16.163
HSK-A 63	ER25	2.0-16.0	42	M32 X1.5	80	42	6	4902 25.014	4304 25.063
HSK-A 63	ER25	2.0-16.0	42	M32 X1.5	100	42	6	4902 25.014	4304 25.163
HSK-A 63	ER32	3.0-20.0	50	M40 X1.5	100	50	10	4902 32.020	4304 32.063
HSK-A 63	ER40	3.0-26.0	63	M50 X1.5	120	56	10	4902 32.020	4304 40.063
HSK-A 80	ER32	3.0-20.0	50	M40 X1.5	100	50	10	4902 32.020	4304 32.080
HSK-A 80	ER32	3.0-20.0	50	M40 X1.5	160	50	10	4902 32.020	4304 32.180
HSK-A 80	ER40	3.0-26.0	63	M50 X1.5	120	56	10	4902 32.020	4304 40.080
HSK-A 100	ER32	3.0-20.0	50	M40 X1.5	100	50	10	4902 32.020	4304 32.100
HSK-A 100	ER32	3.0-20.0	50	M40 X1.5	160	50	10	4902 32.020	4304 32.101
HSK-A 100	ER40	3.0-26.0	63	M50 X1.5	120	56	10	4902 32.020	4304 40.100



HSK-A collet holders, sealed version

Article no. **4324**



Product information:

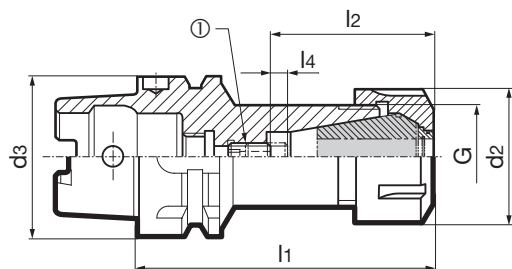
- HSK-A according to ISO 12164-1 / DIN 69893-1
- for collet chuck holders with adjustment angle 8° to DIN ISO 15488
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- sealed, suitable for coolant pressure up to 100 bar thanks to the application of IC clamping nuts and suitable sealing disks

Scope of delivery:

- IC clamping nut, art. no. 4306
- adjusting screw (1) art. no. 4902

Suitable accessories separately available:

- collet art. no. 4307
- sealing plug art. no. 4335
- clamping key art. no. 4913
- coolant supply set art. no. 4949
- replacement IC/ER clamping nut, art. no. 4306
- replacement adjusting screw (1), art. no. 4902



Article no.

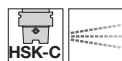
4324

d3	Size	Ø-range	d2 mm	G	l1 mm	l2 mm	l4 mm	①	Order no.
HSK-A 32	ER16	0.5-10,0	28	M22 X1.5	85	39	6	4902 16.012	4324 16.032
HSK-A 32	ER20	0.5-13,0	34	M25 X1.5	75	45	6	4902 16.012	4324 20.032
HSK-A 40	ER16	0.5-10,0	28	M22 X1.5	85	39	6	4902 16.012	4324 16.040
HSK-A 40	ER25	0.5-16,0	42	M32 X1.5	85	49	6	4902 25.014	4324 25.040
HSK-A 40	ER32	1.0-20,0	50	M40 X1.5	105	55	10	4902 32.020	4324 32.040
HSK-A 50	ER16	0.5-10,0	28	M22 X1.5	105	39	6	4902 16.012	4324 16.050
HSK-A 50	ER25	0.5-16,0	42	M32 X1.5	85	49	6	4902 25.014	4324 25.050
HSK-A 50	ER25	0.5-16,0	42	M32 X1.5	105	49	6	4902 25.014	4324 25.150
HSK-A 50	ER32	1.0-20,0	50	M40 X1.5	105	55	10	4902 32.020	4324 32.050
HSK-A 63	ER16	0.5-10,0	28	M22 X1.5	105	39	6	4902 16.012	4324 16.063
HSK-A 63	ER16	0.5-10,0	28	M22 X1.5	165	39	6	4902 16.012	4324 16.163
HSK-A 63	ER25	0.5-16,0	42	M32 X1.5	85	47	6	4902 25.014	4324 25.063
HSK-A 63	ER25	0.5-16,0	42	M32 X1.5	105	47	6	4902 25.014	4324 25.163
HSK-A 63	ER32	1.0-20,0	50	M40 X1.5	105	55	10	4902 32.020	4324 32.063
HSK-A 63	ER40	3.0-26.0	63	M50 X1.5	125	61	10	4902 32.020	4324 40.063
HSK-A 80	ER32	1.0-20,0	50	M40 X1.5	105	55	10	4902 32.020	4324 32.080
HSK-A 80	ER32	1.0-20,0	50	M40 X1.5	165	55	10	4902 32.020	4324 32.180
HSK-A 80	ER40	3.0-26.0	63	M50 X1.5	125	61	10	4902 32.020	4324 40.080
HSK-A 100	ER32	1.0-20,0	50	M40 X1.5	105	55	10	4902 32.020	4324 32.100
HSK-A 100	ER32	1.0-20,0	50	M40 X1.5	165	55	10	4902 32.020	4324 32.101
HSK-A 100	ER40	3.0-26.0	63	M50 X1.5	125	61	10	4902 32.020	4324 40.100



HSK-C collet holders

Article no. 4303



Product information:

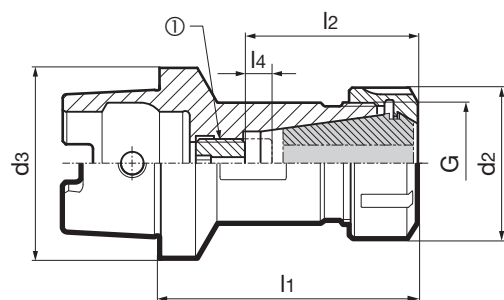
- HSK-C according to ISO 12164-1/DIN 69893-1
- for collet chuck holders with adjustment angle 8° to DIN ISO 15488
- balancing quality: G 2.5 / 25,000 rpm
or rev. < 1 gmm

Scope of delivery:

- clamping nut art. no. 4306
- adjusting screw (1) art. no. 4901

Suitable accessories separately available:

- collet art. no. 4307
- clamping key art. no. 4913
- replacement IC/ER clamping nut, art. no. 4306
- replacement adjusting screw (1), art. no. 4901



Article no.

4303

d3	Size	Ø-range	d2 mm	G	l1 mm	l2 mm	l4 mm	①	Order no.
HSK-C 25	ER16MINI	0,5-10,0	22	M19 x 1	50	30	3	4901 16.012	4303 16.025
HSK-C 32	ER16	0,5-10,0	28	M22 X1.5	55	32	4	4901 16.012	4303 16.032
HSK-C 32	ER20	0,5-13,0	34	M25 X1.5	60	38	6	4901 16.012	4303 20.032
HSK-C 32	ER25	0,5-16,0	42	M32 X1.5	70	44	6	4901 25.014	4303 25.032
HSK-C 40	ER20	0,5-13,0	34	M25 X1.5	60	38	6	4901 16.012	4303 20.040
HSK-C 40	ER25	0,5-16,0	42	M32 X1.5	70	44	8	4901 25.014	4303 25.040
HSK-C 40	ER32	1,0-20,0	50	M40 X1.5	75	49	8	4901 25.014	4303 32.040
HSK-C 50	ER16	0,5-10,0	28	M22 X1.5	60	34	6	4901 16.012	4303 16.050
HSK-C 50	ER25	0,5-16,0	42	M32 X1.5	70	44	8	4901 25.014	4303 25.050
HSK-C 50	ER32	1,0-20,0	50	M40 X1.5	75	49	8	4901 25.014	4303 32.050
HSK-C 50	ER40	3,0-26,0	63	M50 X1.5	80	54	8	4901 25.014	4303 40.050
HSK-C 63	ER40	3,0-26,0	63	M50 X1.5	80	54	8	4901 25.014	4303 40.063



HSK-C collet holders, sealed version

Article no. **4323**



Product information:

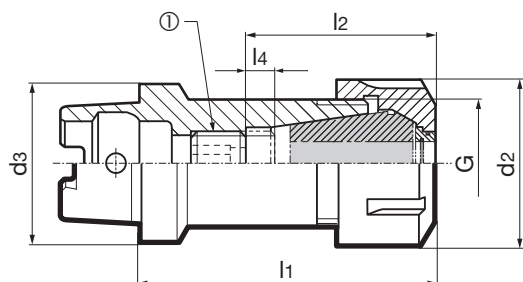
- HSK-C according to ISO 12164-1/DIN 69893-1
- for collet chuck holders with adjustment angle 8° to DIN ISO 15488
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- sealed, suitable for coolant pressure up to 100 bar thanks to the application of IC clamping nuts and suitable sealing disks

Scope of delivery:

- adjusting screw (1) art. no. 4901
- IC clamping nut, art. no. 4306

Suitable accessories separately available:

- collet art. no. 4307
- sealing plug art. no. 4335
- clamping key art. no. 4913
- replacement adjusting screw (1), art. no. 4901
- replacement IC/ER clamping nut, art. no. 4306



Article no.

4323

d3	Size	Ø-range	d2 mm	G	l1 mm	l2 mm	l4 mm	①	Order no.
HSK-C 25	ER16MINI	0,5-10,0	22	M19 x 1	55	35	3	4901 16.012	4323 16.025
HSK-C 32	ER16	0,5-10,0	28	M22 X1.5	60	37	4	4901 16.012	4323 16.032
HSK-C 32	ER20	0,5-13,0	34	M25 X1.5	65	43	6	4901 16.012	4323 20.032
HSK-C 32	ER25	0,5-16,0	42	M32 X1.5	75	49	6	4901 25.014	4323 25.032
HSK-C 40	ER20	0,5-13,0	34	M25 X1.5	65	43	6	4901 16.012	4323 20.040
HSK-C 40	ER25	0,5-16,0	42	M32 X1.5	75	49	8	4901 25.014	4323 25.040
HSK-C 40	ER32	1,0-20,0	50	M40 X1.5	80	54	8	4901 25.014	4323 32.040
HSK-C 50	ER16	0,5-10,0	28	M22 X1.5	65	39	6	4901 16.012	4323 16.050
HSK-C 50	ER25	0,5-16,0	42	M32 X1.5	75	49	8	4901 25.014	4323 25.050
HSK-C 50	ER32	1,0-20,0	50	M40 X1.5	80	54	8	4901 25.014	4323 32.050
HSK-C 50	ER40	3,0-26,0	63	M50 X1.5	85	59	8	4901 25.014	4323 40.050
HSK-C 63	ER40	3,0-26,0	63	M50 X1.5	85	59	8	4901 25.014	4323 40.063



HSK-E collet holders

Article no. 4397



Product information:

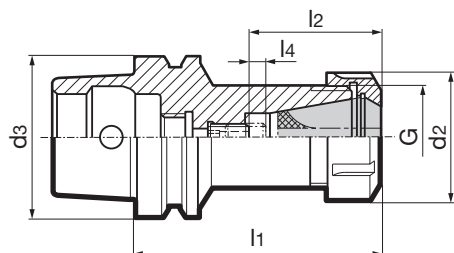
- HSK-E according to DIN 69893-5 with access hole in taper for manual tool change
- for collet chuck holders with adjustment angle 8° to DIN ISO 15488
- balancing quality: G 2.5 / 25,000 rpm or rev. < 1 gmm
- code no. 16.025 without length adjustment and central cooling
- incl. spanner flat for locking during clamping

Scope of delivery:

- clamping nut art. no. 4306
- adjusting screw (1) art. no. 4902

Suitable accessories separately available:

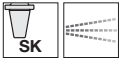
- collet art. no. 4307
- clamping key art. no. 4913
- coolant supply set art. no. 4949
- replacement IC/ER clamping nut, art. no. 4306
- replacement adjusting screw (1), art. no. 4902



Article no.

4397

d3	Size	Ø-range	d2 mm	G	l1 mm	l2 mm	l4 mm	①	Order no.
HSK-E 25	ER16MINI	1.0-10.0	22	M19 x 1	43				4397 16.025
HSK-E 32	ER16MINI	1.0-10.0	22	M19 x 1	60	34	4	4902 16.010	4397 16.032
HSK-E 32	ER20MINI	1.0-13.0	28	M24 x 1	60	34	4	4902 16.010	4397 20.032
HSK-E 40	ER16	1.0-10.0	28	M22 X1.5	60	32	4	4902 16.010	4397 16.040
HSK-E 40	ER20MINI	1.0-13.0	28	M24 x 1	65	37	6	4902 16.010	4397 20.040
HSK-E 40	ER25MINI	2.0-16.0	35	M30 x 1	80	44	8	4902 25.014	4397 25.040
HSK-E 50	ER16	1.0-10.0	28	M22 X1.5	100	34	6	4902 16.012	4397 16.050
HSK-E 50	ER20	1.0-13.0	34	M25 X1.5	70	38	6	4902 16.010	4397 20.050
HSK-E 50	ER25	2.0-16.0	42	M32 X1.5	80	44	8	4902 25.014	4397 25.050
HSK-E 50	ER32	3.0-20.0	50	M40 X1.5	100	50	10	4902 32.020	4397 32.050
HSK-E 63	ER32	3.0-20.0	50	M40 X1.5	90	50	10	4902 25.014	4397 32.063
HSK-E 63	ER40	4.0-26.0	63	M50 X1.5	120	56	10	4902 32.020	4397 40.063



Product information:

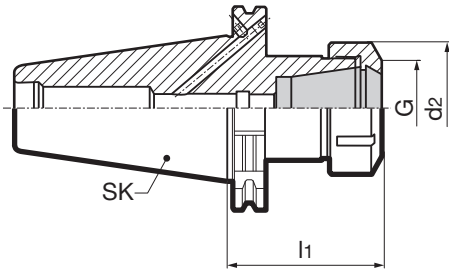
- ISO taper to DIN ISO 7388-1 form AD/AF
- balancing quality: G 6.3 / 15,000 rpm
- for collet chuck holders with adjustment angle 8° to DIN ISO 15488

Scope of delivery:

- incl. clamping nut

Suitable accessories separately available:

- collet art. no. 4307
- clamping key art. no. 4913
- ISO pull studs art. no. 4925, 4926



Article no. **4827**

SK	Size	Ø-range	d2 mm	G	l1 mm	Order no.
SK 40	ER16	0,5-10,0	32	M22X1,5	63	4827 16.040
SK 40	ER16	0,5-10,0	32	M22X1,5	160	4827 16.140
SK 40	ER16	0,5-10,0	32	M22X1,5	130	4827 16.240
SK 40	ER25	0,5-16,0	42	M32X1,5	60	4827 25.040
SK 40	ER25	0,5-16,0	42	M32X1,5	160	4827 25.140
SK 40	ER25	0,5-16,0	42	M32X1,5	130	4827 25.240
SK 40	ER32	1,0-20,0	50	M40X1,5	70	4827 32.040
SK 40	ER32	1,0-20,0	50	M40X1,5	160	4827 32.140
SK 40	ER32	1,0-20,0	50	M40X1,5	130	4827 32.240
SK 40	ER40	3,0-26,0	63	M50X1,5	80	4827 40.040
SK 40	ER40	3,0-26,0	63	M50X1,5	130	4827 40.240
SK 40	ER16MINI	0,5-10,0	22	M19X1	100	4827 116.040
SK 40	ER16MINI	0,5-10,0	22	M19X1	130	4827 216.040
SK 40	ER16MINI	0,5-10,0	22	M19X1	160	4827 316.040
SK 50	ER16	0,5-10,0	32	M22X1,5	70	4827 16.050
SK 50	ER16	0,5-10,0	32	M22X1,5	130	4827 16.250
SK 50	ER25	0,5-16,0	42	M32X1,5	60	4827 25.050
SK 50	ER25	0,5-16,0	42	M32X1,5	160	4827 25.150
SK 50	ER25	0,5-16,0	42	M32X1,5	130	4827 25.250
SK 50	ER32	1,0-20,0	50	M40X1,5	70	4827 32.050
SK 50	ER32	1,0-20,0	50	M40X1,5	130	4827 32.250
SK 50	ER40	3,0-26,0	63	M50X1,5	80	4827 40.050
SK 50	ER40	3,0-26,0	63	M50X1,5	160	4827 40.150
SK 50	ER40	3,0-26,0	63	M50X1,5	130	4827 40.250
SK 50	ER16MINI	0,5-10,0	22	M19x1	100	4827 116.050
SK 50	ER16MINI	0,5-10,0	22	M19x1	130	4827 216.050
SK 50	ER16MINI	0,5-10,0	22	M19x1	160	4827 316.050



MAS/BT collet holders

Article no. 4245



Product information:

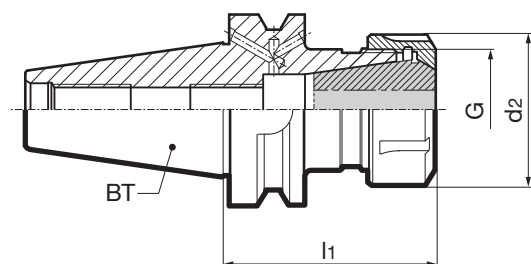
- MAS/BT according to DIN ISO 7388-2 form JD/JF
- balancing quality: G 6.3 / 15,000 rpm
- coolant supply form JD/JF (* BT30 version JD without coolant supply over collar without GÜHROJET)
- for collet chuck holders with adjustment angle 8° to DIN ISO 15488

Scope of delivery:

- incl. clamping nut

Suitable accessories separately available:

- collet art. no. 4307
- clamping key art. no. 4913
- BT pull studs art. nr. 4927, 4928
- BT-50 on request



Article no.

4245

BT	Size	Ø-range	d2 mm	G	l1 mm	Order no.
BT 30	ER16	0,5-10,0	32	M22 X1.5	70	4245 16.030
BT 30	ER25	0,5-16,0	42	M32 X1.5	70	4245 25.030
BT 40	ER16	0,5-10,0	32	M22 X1.5	63	4245 16.040
BT 40	ER16	0,5-10,0	32	M22 X1.5	160	4245 16.140
BT 40	ER25	0,5-16,0	42	M32 X1.5	60	4245 25.040
BT 40	ER25	0,5-16,0	42	M32 X1.5	160	4245 25.140
BT 40	ER32	1,0-20,0	50	M40 X1.5	70	4245 32.040
BT 40	ER32	1,0-20,0	50	M40 X1.5	160	4245 32.140

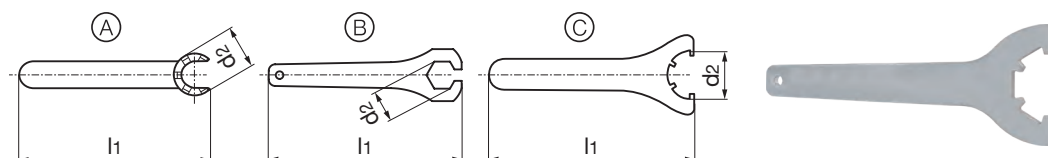


Clamping keys

Article no. **4913**

Product information:

- for clamping nuts
- type A: Special hook wrench for clamping nut system DIN 6499 mini design
- type B for clamping nuts with hexagonal design
- type C for clamping nuts for external slots



Article no.

4913

Nominal size	l1 mm	for ER d2 mm	Type	Order no.
ER20MINI	139	28	A	4913 20.200
ER16MINI	122	22	A	4913 16.200
ER25MINI	143	35	A	4913 25.200
ER20	200	34	B	4913 20.000
ER11	141	19	B	4913 11.000
ER16	178	28	B	4913 16.000
ER20	183	35	C	4913 20.100
ER16	163	32	C	4913 16.032
ER25	210	42	C	4913 25.000
ER32	250	50	C	4913 32.000
ER40	290	63	C	4913 40.000

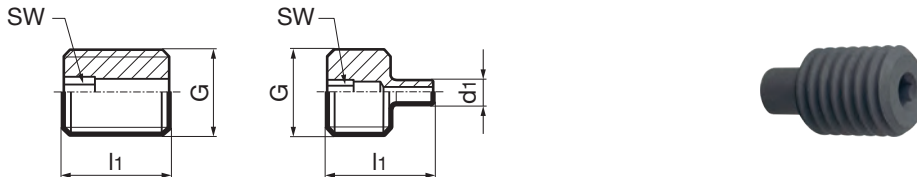


Adjusting screws for HSK-A/HSK-E collet chucks holders

Article no. **4902**

Product information:

- for dimensions without d1 the screw is designed without spigot



Article no.

4902

Size	Ø-range	G	d1 mm	l1 mm	SW mm	Order no.
ER11	1-7	M6		12	3.0	4902 11.012
ER16	6-10	M10		10	3.0	4902 16.010
ER16	6-10	M10		12	3.0	4902 16.012
ER16	1,2-6	M10	3.5	18	3.0	4902 16.018
ER20	6-10	M10	5.5	18	3.0	4902 20.018
ER20	2,5-6	M10	4.5	24	3.0	4902 20.024
ER25	10-16	M16		14	4.0	4902 25.014
ER25	7-10	M16	6.5	20	4.0	4902 25.020
ER25	3-7	M16	4.5	26	4.0	4902 25.026
ER32	16-20	M16		20	5.0	4902 32.020
ER32	10-16	M16	9.5	28	5.0	4902 32.028
ER32	3-10	M16	6.5	36	5.0	4902 32.036
ER40	3-8	M16	6.5	44	5.0	4902 40.044

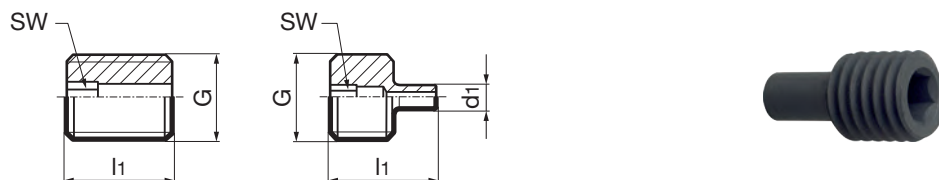


Adjusting screws for HSK-C collet chuck holders

Article no. **4901**

Product information:

- for dimensions without d1 the screw is designed without spigot



Article no.

4901

Size	f. clamp. range	G	d1 mm	l1 mm	SW mm	Order no.
ER16	0,5-10,0	M10		12	3.0	4901 16.012
ER16	0,5-10,0	M10	3.5	16	3.0	4901 16.016
ER20	0,5-13,0	M10	5.5	16	3.0	4901 20.016
ER20	0,5-13,0	M10	4.5	20	3.0	4901 20.020
ER25	0,5-16,0	M16		14	4.0	4901 25.014
ER25	0,5-16,0	M16	6.5	20	4.0	4901 25.020
ER25	0,5-16,0	M16	4.5	26	4.0	4901 25.026
ER32	0,5-20,0	M16	9.5	20	5.0	4901 32.020
ER32	0,5-20,0	M16	6.5	26	5.0	4901 32.026
ER40	0,5-20,0	M16	6.5	32	5.0	4901 32.032
ER40	0,5-26,0	M16	6.5	38	5.0	4901 40.038

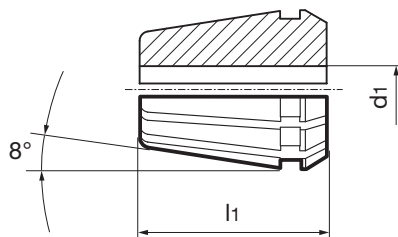


Collets DIN ISO 15488

Article no. 4307

Product information:

- The clamping range of collet, art. no. 4307, is to be applied as indicated. For intermediate sizes as i.e. for \varnothing 6.3 mm (nom. size ER20) order collet d1 = 7.0 mm - 6.0 mm (code no. 07.020).
- concentricity < 10 μ m



Article no.

4307

Size	d1	l1 mm	Order no.
ER11	1.0-0.5	18.0	4307 1.011
ER11	1.5-1.0	18.0	4307 1.511
ER11	2.0-1.5	18.0	4307 2.011
ER11	2.5-2.0	18.0	4307 2.511
ER11	3.0-2.5	18.0	4307 3.011
ER11	4.0-3.5	18.0	4307 4.011
ER11	5.0-4.5	18.0	4307 5.011
ER11	6.0-5.5	18.0	4307 6.011
ER11	7.0-6.5	18.0	4307 7.011
ER16	1.0-0.5	27.5	4307 1.016
ER16	1.5-1.0	27.5	4307 1.516
ER16	2.0-1.0	27.5	4307 2.016
ER16	2.5-1.5	27.5	4307 2.516
ER16	3.0-2.0	27.5	4307 3.016
ER16	4.0-3.0	27.5	4307 4.016
ER16	5.0-4.0	27.5	4307 5.016
ER16	6.0-5.0	27.5	4307 6.016
ER16	7.0-6.0	27.5	4307 7.016
ER16	8.0-7.0	27.5	4307 8.016
ER16	9.0-8.0	27.5	4307 9.016
ER16	10.0-9.0	26.0	4307 10.016
ER20	1.0-0.5	31.5	4307 1.020
ER20	1.5-1.0	31.5	4307 1.520
ER20	2.0-1.0	31.5	4307 2.020
ER20	2.5-1.5	31.5	4307 2.520
ER20	3.0-2.0	31.5	4307 3.020
ER20	4.0-3.0	31.5	4307 4.020
ER20	5.0-4.0	31.5	4307 5.020
ER20	6.0-5.0	31.5	4307 6.020
ER20	7.0-6.0	31.5	4307 7.020
ER20	8.0-7.0	31.5	4307 8.020
ER20	9.0-8.0	31.5	4307 9.020
ER20	10.0-9.0	31.5	4307 10.020
ER20	11.0-10.0	31.5	4307 11.020
ER20	12.0-11.0	31.5	4307 12.020
ER20	13.0-12.0	31.5	4307 13.020
ER25	1.0-0.5	34.0	4307 1.025
ER25	1.5-1.0	34.0	4307 1.525
ER25	2.0-1.0	34.0	4307 2.025
ER25	2.5-1.5	34.0	4307 2.525
ER25	3.0-2.0	34.0	4307 3.025
ER25	4.0-3.0	34.0	4307 4.025
ER25	5.0-4.0	34.0	4307 5.025
ER25	6.0-5.0	34.0	4307 6.025
ER25	7.0-6.0	34.0	4307 7.025
ER25	8.0-7.0	34.0	4307 8.025
ER25	9.0-8.0	34.0	4307 9.025
ER25	10.0-9.0	34.0	4307 10.025
ER25	11.0-10.0	34.0	4307 11.025
ER25	12.0-11.0	34.0	4307 12.025
ER25	13.0-12.0	34.0	4307 13.025
ER25	14.0-13.0	34.0	4307 14.025
ER25	15.0-14.0	34.0	4307 15.025
ER25	16.0-15.0	34.0	4307 16.025



			Article no.	4307
Size	d1	l1 mm	Order no.	
ER32	2.0-1.0	40.0	4307 2.032	
ER32	2.5-1.5	40.0	4307 2.532	
ER32	3.0-2.0	40.0	4307 3.032	
ER32	4.0-3.0	40.0	4307 4.032	
ER32	5.0-4.0	40.0	4307 5.032	
ER32	6.0-5.0	40.0	4307 6.032	
ER32	7.0-6.0	40.0	4307 7.032	
ER32	8.0-7.0	40.0	4307 8.032	
ER32	9.0-8.0	40.0	4307 9.032	
ER32	10.0-9.0	40.0	4307 10.032	
ER32	11.0-10.0	40.0	4307 11.032	
ER32	12.0-11.0	40.0	4307 12.032	
ER32	13.0-12.0	40.0	4307 13.032	
ER32	14.0-13.0	40.0	4307 14.032	
ER32	15.0-14.0	40.0	4307 15.032	
ER32	16.0-15.0	40.0	4307 16.032	
ER32	17.0-16.0	40.0	4307 17.032	
ER32	18.0-17.0	40.0	4307 18.032	
ER32	19.0-18.0	40.0	4307 19.032	
ER32	20.0-19.0	40.0	4307 20.032	
ER40	4.0-3.0	46.0	4307 4.040	
ER40	5.0-4.0	46.0	4307 5.040	
ER40	6.0-5.0	46.0	4307 6.040	
ER40	7.0-6.0	46.0	4307 7.040	
ER40	8.0-7.0	46.0	4307 8.040	
ER40	9.0-8.0	46.0	4307 9.040	
ER40	10.0-9.0	46.0	4307 10.040	
ER40	11.0-10.0	46.0	4307 11.040	
ER40	12.0-11.0	46.0	4307 12.040	
ER40	13.0-12.0	46.0	4307 13.040	
ER40	14.0-13.0	46.0	4307 14.040	
ER40	15.0-14.0	46.0	4307 15.040	
ER40	16.0-15.0	46.0	4307 16.040	
ER40	17.0-16.0	46.0	4307 17.040	
ER40	18.0-17.0	46.0	4307 18.040	
ER40	19.0-18.0	46.0	4307 19.040	
ER40	20.0-19.0	46.0	4307 20.040	
ER40	21.0-20.0	46.0	4307 21.040	
ER40	22.0-21.0	46.0	4307 22.040	
ER40	23.0-22.0	46.0	4307 23.040	
ER40	24.0-23.0	46.0	4307 24.040	
ER40	25.0-24.0	46.0	4307 25.040	
ER40	26.0-25.0	46.0	4307 26.040	

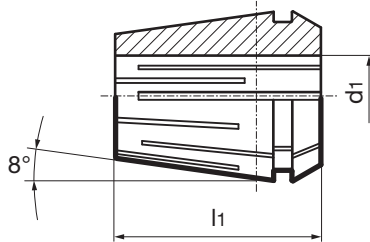


Collet holders ER metallic sealed

Article no. 4175

Product information:

- DIN ISO 15488
- for application without sealing washer
- concentricity < 6 μm
- for high-performance tools with internal cooling e.g. HR 500 reamers
- clamping force tester for SK/BT/CAT clamping systems in machine tool spindles
- metallic sealing up to coolant pressure of 300 bar
- ER-DM collets with restricted clamping range
- The tool must be clamped at least flush or deeper in the collet. A minimum clamping length of 2/3, as for standard collets, is not possible otherwise there would be no seal.



Article no.

4175

Size	d1	l1 mm	Order no.
ER20	3.00	31.5	4175 3.020
ER20	4.00	31.5	4175 4.020
ER20	5.00	31.5	4175 5.020
ER20	6.00	31.5	4175 6.020
ER20	7.00-6.50	31.5	4175 7.020
ER20	8.00-7.50	31.5	4175 8.020
ER20	9.00-8.50	31.5	4175 9.020
ER20	10.00-9.50	31.5	4175 10.020
ER20	11.00-10.50	31.5	4175 11.020
ER20	12.00-11.50	31.5	4175 12.020
ER20	13.00-12.50	31.5	4175 13.020
ER25	6.00	34.0	4175 6.025
ER25	8.00-7.50	34.0	4175 8.025
ER25	10.00-9.50	34.0	4175 10.025
ER25	12.00-11.50	34.0	4175 12.025
ER25	14.00-13.50	34.0	4175 14.025
ER25	16.00-15.50	34.0	4175 16.025
ER32	6.00	40.0	4175 6.032
ER32	8.00-7.50	40.0	4175 8.032
ER32	10.00-9.50	40.0	4175 10.032
ER32	12.00-11.50	40.0	4175 12.032
ER32	14.00-13.50	40.0	4175 14.032
ER32	16.00-15.50	40.0	4175 16.032
ER32	18.00-17.50	40.0	4175 18.032
ER32	20.00-19.50	40.0	4175 20.032



Clamping nuts, system DIN ISO 15488

Article no. **4306**

Product information:

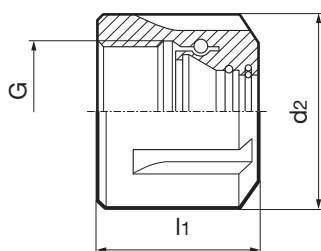
- for collets DIN ISO 15488
- for application with internal cooling IC/ER for sealing washers
- for increased clamping version ER or IC/ER with glide ring
- suitable for up to 150 bar coolant pressure
- code xx,300 and xx,600: suitable for sealing discs, art. no. 4335, without sealing ring
- code xx,400: not suitable for sealing discs, art. no. 4335, with sealing ring
- code xx,500: suitable for sealing discs, art. no. 4335, with sealing ring
- IC/ER designs: Sealing washer, art. no. 4335

Scope of delivery:

- IC/ER versions for internal cooling

Suitable accessories separately available:

- coolant-tight up to 150 bar



Article no.

4306

Nominal size	d2 mm	l1 mm	G	Torque Nm	Order no.
ER 11	19	11.3	M14X0,75	24	4306 11.000
ER 16	28	17.5	M22X1,5	56	4306 16.000
ER 16	28	20.2	M22X1,5	56	4306 16.400
ER 16	28	22.7	M22X1,5	56	4306 16.500
ER 16 MINI	22	18.4	M19X1,0	24	4306 16.200
ER 20	34	19.0	M25X1,5	80	4306 20.000
ER 20	34	21.7	M25X1,5	80	4306 20.400
ER 20	34	24.2	M25X1,5	80	4306 20.500
ER 20 MINI	28	19.0	M24X1,0	28	4306 20.200
ER 25	42	22.6	M32X1,5	104	4306 25.400
ER 25	42	25.2	M32X1,5	104	4306 25.500
ER 25	42	20.0	M32X1,5	104	4306 25.000
ER 25 MINI	35	20.0	M30X1,0	32	4306 25.200
ER 32	50	22.5	M40X1,5	136	4306 32.000
ER 32	50	25.0	M40X1,5	136	4306 32.400
ER 32	50	27.4	M40X1,5	136	4306 32.500
ER 40	63	25.5	M50X1,5	176	4306 40.000
ER 40	63	28.2	M50X1,5	176	4306 40.400
ER 40	63	30.7	M50X1,5	176	4306 40.500
IC/ER 16	28	22.5	M22X1,5	56	4306 16.600
IC/ER 16 MINI	22	22.0	M19X1,0	24	4306 16.300
IC/ER 20	34	24.0	M25X1,5	80	4306 20.600
IC/ER 20 MINI	28	24.0	M24X1,0	28	4306 20.300
IC/ER 25	42	25.0	M32X1,5	104	4306 25.600
IC/ER 25 MINI	35	25.0	M30X1,0	32	4306 25.300
IC/ER 32	50	27.5	M40X1,5	136	4306 32.600
IC/ER 40	63	30.5	M50X1,5	176	4306 40.600

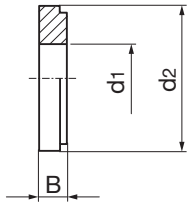


Sealing washers

Article no. 4335

Product information:

- The application range of the sealing ring art.-no. 78335 reaches from nom.- \emptyset d1 up to the next lower dimension, e.g. for \emptyset 6.3 mm (with nominal size ER20) a sealing ring with d1 = 6.5 mm (code-no. 06.520) must be ordered.
- for a coolant pressure up to 150 bar



Article no.

4335

Size	d1 mm	d2 mm	B mm	Order no.
ER 16	3	13.0	4.0	4335 3.016
ER 16	3.5	13.0	4.0	4335 3.516
ER 16	4	13.0	4.0	4335 4.016
ER 16	4.5	13.0	4.0	4335 4.516
ER 16	5	13.0	4.0	4335 5.016
ER 16	5.5	13.0	4.0	4335 5.516
ER 16	6	13.0	4.0	4335 6.016
ER 16	6.5	13.0	4.0	4335 6.516
ER 16	7	13.0	4.0	4335 7.016
ER 16	7.5	13.0	4.0	4335 7.516
ER 16	8	13.0	4.0	4335 8.016
ER 16	8.5	13.0	4.0	4335 8.516
ER 16	9	13.0	4.0	4335 9.016
ER 16	9.5	13.0	4.0	4335 9.516
ER 16	10	13.0	4.0	4335 10.016
ER 20	3	16.0	4.0	4335 3.020
ER 20	3.5	16.0	4.0	4335 3.520
ER 20	4	16.0	4.0	4335 4.020
ER 20	4.5	16.0	4.0	4335 4.520
ER 20	5	16.0	4.0	4335 5.020
ER 20	5.5	16.0	4.0	4335 5.520
ER 20	6	16.0	4.0	4335 6.020
ER 20	6.5	16.0	4.0	4335 6.520
ER 20	7	16.0	4.0	4335 7.020
ER 20	7.5	16.0	4.0	4335 7.520
ER 20	8	16.0	4.0	4335 8.020
ER 20	8.5	16.0	4.0	4335 8.520
ER 20	9	16.0	4.0	4335 9.020
ER 20	9.5	16.0	4.0	4335 9.520
ER 20	10	16.0	4.0	4335 10.020
ER 20	10.5	16.0	4.0	4335 10.520
ER 20	11	16.0	4.0	4335 11.020
ER 20	11.5	16.0	4.0	4335 11.520
ER 20	12	16.0	4.0	4335 12.020
ER 20	12.5	16.0	4.0	4335 12.520
ER 20	13	16.0	4.0	4335 13.020
ER 25	3	21.0	4.0	4335 3.025
ER 25	3.5	21.0	4.0	4335 3.525
ER 25	4	21.0	4.0	4335 4.025
ER 25	4.5	21.0	4.0	4335 4.525
ER 25	5	21.0	4.0	4335 5.025
ER 25	5.5	21.0	4.0	4335 5.525
ER 25	6	21.0	4.0	4335 6.025
ER 25	6.5	21.0	4.0	4335 6.525
ER 25	7	21.0	4.0	4335 7.025
ER 25	7.5	21.0	4.0	4335 7.525
ER 25	8	21.0	4.0	4335 8.025
ER 25	8.5	21.0	4.0	4335 8.525
ER 25	9	21.0	4.0	4335 9.025
ER 25	9.5	21.0	4.0	4335 9.525
ER 25	10	21.0	4.0	4335 10.025
ER 25	10.5	21.0	4.0	4335 10.525
ER 25	11	21.0	4.0	4335 11.025
ER 25	11.5	21.0	4.0	4335 11.525

Collet holders



Article no.

4335

Size	d1 mm	d2 mm	B mm	Order no.
ER 25	12	21.0	4.0	4335 12.025
ER 25	12.5	21.0	4.0	4335 12.525
ER 25	13	21.0	4.0	4335 13.025
ER 25	13.5	21.0	4.0	4335 13.525
ER 25	14	21.0	4.0	4335 14.025
ER 25	14.5	21.0	4.0	4335 14.525
ER 25	15	21.0	4.0	4335 15.025
ER 25	15.5	21.0	4.0	4335 15.525
ER 25	16	21.0	4.0	4335 16.025
ER 32	3	27.0	4.0	4335 3.032
ER 32	3.5	27.0	4.0	4335 3.532
ER 32	4	27.0	4.0	4335 4.032
ER 32	4.5	27.0	4.0	4335 4.532
ER 32	5	27.0	4.0	4335 5.032
ER 32	5.5	27.0	4.0	4335 5.532
ER 32	6	27.0	4.0	4335 6.032
ER 32	6.5	27.0	4.0	4335 6.532
ER 32	7	27.0	4.0	4335 7.032
ER 32	7.5	27.0	4.0	4335 7.532
ER 32	8	27.0	4.0	4335 8.032
ER 32	8.5	27.0	4.0	4335 8.532
ER 32	9	27.0	4.0	4335 9.032
ER 32	9.5	27.0	4.0	4335 9.532
ER 32	10	27.0	4.0	4335 10.032
ER 32	10.5	27.0	4.0	4335 10.532
ER 32	11	27.0	4.0	4335 11.032
ER 32	11.5	27.0	4.0	4335 11.532
ER 32	12	27.0	4.0	4335 12.032
ER 32	12.5	27.0	4.0	4335 12.532
ER 32	13	27.0	4.0	4335 13.032
ER 32	13.5	27.0	4.0	4335 13.532
ER 32	14	27.0	4.0	4335 14.032
ER 32	14.5	27.0	4.0	4335 14.532
ER 32	15	27.0	4.0	4335 15.032
ER 32	15.5	27.0	4.0	4335 15.532
ER 32	16	27.0	4.0	4335 16.032
ER 32	16.5	27.0	4.0	4335 16.532
ER 32	17	27.0	4.0	4335 17.032
ER 32	17.5	27.0	4.0	4335 17.532
ER 32	18	27.0	4.0	4335 18.032
ER 32	18.5	27.0	4.0	4335 18.532
ER 32	19	27.0	4.0	4335 19.032
ER 32	19.5	27.0	4.0	4335 19.532
ER 32	20	27.0	4.0	4335 20.032
ER 40	3.5	33.5	4.0	4335 3.540
ER 40	4	33.5	4.0	4335 4.040
ER 40	4.5	33.5	4.0	4335 4.540
ER 40	5	33.5	4.0	4335 5.040
ER 40	5.5	33.5	4.0	4335 5.540
ER 40	6	33.5	4.0	4335 6.040
ER 40	6.5	33.5	4.0	4335 6.540
ER 40	7	33.5	4.0	4335 7.040
ER 40	7.5	33.5	4.0	4335 7.540
ER 40	8	33.5	4.0	4335 8.040
ER 40	8.5	33.5	4.0	4335 8.540
ER 40	9	33.5	4.0	4335 9.040
ER 40	9.5	33.5	4.0	4335 9.540
ER 40	10	33.5	4.0	4335 10.040
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ER 40	11	33.5	4.0	4335 11.040
ER 40	11.5	33.5	4.0	4335 11.540
ER 40	12	33.5	4.0	4335 12.040
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ER 40	14.5	33.5	4.0	4335 14.540
ER 40	15	33.5	4.0	4335 15.040
ER 40	15.5	33.5	4.0	4335 15.540
ER 40	16	33.5	4.0	4335 16.040
ER 40	16.5	33.5	4.0	4335 16.540
ER 40	17	33.5	4.0	4335 17.040
ER 40	17.5	33.5	4.0	4335 17.540
ER 40	18	33.5	4.0	4335 18.040
ER 40	18.5	33.5	4.0	4335 18.540
ER 40	19	33.5	4.0	4335 19.040
ER 40	19.5	33.5	4.0	4335 19.540
ER 40	20	33.5	4.0	4335 20.040
ER 40	20.5	33.5	4.0	4335 20.540
ER 40	21	33.5	4.0	4335 21.040
ER 40	21.5	33.5	4.0	4335 21.540
ER 40	22	33.5	4.0	4335 22.040
ER 40	22.5	33.5	4.0	4335 22.540
ER 40	23	33.5	4.0	4335 23.040

Collet holders



Article no.

4335

Size	d1 mm	d2 mm	B mm	Order no.
ER 40	23.5	33.5	4.0	4335 23.540
ER 40	24	33.5	4.0	4335 24.040
ER 40	24.5	33.5	4.0	4335 24.540
ER 40	25	33.5	4.0	4335 25.040
ER 40	25.5	33.5	4.0	4335 25.540
ER 40	26	33.5	4.0	4335 26.040



HSK-A NC drilling chucks with internal cooling

Article no. **4346**

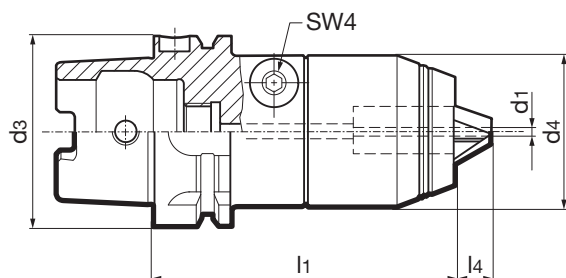


Product information:

- HSK-A according to ISO 12164-1 / DIN 69893-1
- balancing quality: G 2.5 / 20,000 rpm
- for clamping straight shank tools
- infinitely variable Ø clamping range
- high clamping force thanks to robust worm gear
- coolant pressure max. 50 bar
- balance: G 2.5 / 20,000 rpm

Suitable accessories separately available:

- coolant supply set art. no. 4949
- clamping key art. no. 4912



Article no. **4346**

d3	d1	d4 mm	l1 mm	l4 mm	Order no.
HSK-A 50	1,0 - 16,0	50	107	11	4346 16.050
HSK-A 63	1,0 - 16,0	50	98	12	4346 16.063
HSK-A 80	1,0 - 16,0	50	101	12	4346 16.080
HSK-A 100	1,0 - 16,0	50	104	12	4346 16.100

ISO taper NC drilling chucks with internal cooling

Article no. **4242**

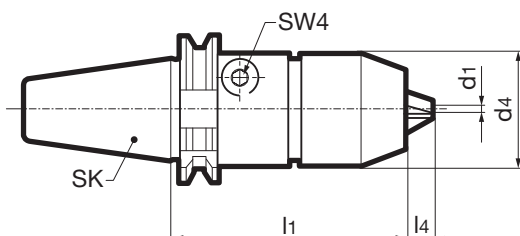


Product information:

- ISO taper to DIN ISO 7388-1 form AD
- balancing quality: G 2.5 / 20,000 rpm
- for clamping straight shank tools
- infinitely variable Ø clamping range
- high clamping force thanks to robust worm gear
- coolant pressure max. 50 bar
- balance: G 2.5 / 20,000 rpm

Suitable accessories separately available:

- ISO pull studs art. no. 4925, 4926
- clamping key art. no. 4912



Article no. **4242**

SK	d1	d4 mm	l1 mm	l4 mm	Order no.
SK 40	1,0 - 16,0	50	80	12	4242 16.040
SK 50	1,0 - 16,0	50	80	12	4242 16.050



MAS/BT NC drilling chucks with internal cooling

Article no. 4240



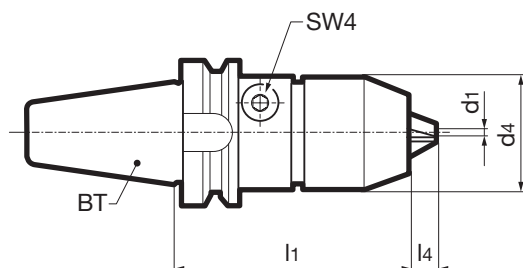
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Product information:

- MAS/BT to DIN ISO 7388-2 form JD
- balancing quality: G 2.5 / 20,000 rpm
- for clamping straight shank tools
- infinitely variable \varnothing clamping range
- high clamping force thanks to robust worm gear
- coolant pressure max. 50 bar
- balance: G 2.5 / 20,000 rpm

Suitable accessories separately available:

- BT pull studs art. nr. 4927, 4928
- clamping key art. no. 4912



Article no.

4240

BT	d1	d4 mm	l1 mm	l4 mm	Order no.
BT 30	0,5 - 10,0	45	72	9	4240 10.030
BT 40	1,0 - 16,0	50	88	12	4240 16.040
BT 50	1,0 - 16,0	50	99	12	4240 16.050



Milling arbors HSK-A

Article no. 4362



Product information:

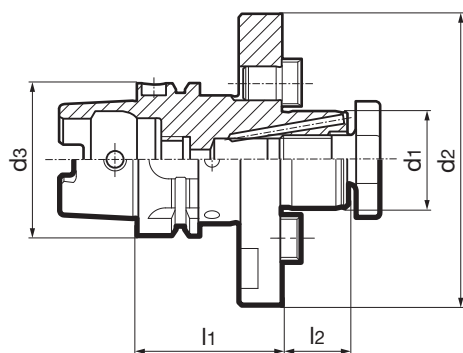
- HSK-A according to ISO 12164-1 / DIN 69893-1
- according to DIN 69882-3
- balancing quality: G 6.3 / 15,000 rpm
- for holding milling cutter heads
- for centralised or decentralised internal cooling, therefore process and tool life improvement
- for holder Ø 40 and Ø 60, additionally with 4 threaded holes for holding cutter heads with tool attachment in accordance with DIN 2079 and increased contact Ø D2
- balancing thread 6xM6

Scope of delivery:

- incl. milling retainer screw art. no. 4908
- incl. retaining screws

Suitable accessories separately available:

- coolant supply set art. no. 4949



Article no.

4362

d3	d1 h6 mm	d2 mm	l1 mm	l2 mm	Order no.
HSK-A 63	22	50	50	19	4362 22.063
HSK-A 63	27	60	60	21	4362 27.063
HSK-A 63	32	78	60	24	4362 32.063
HSK-A 63	40	120	60	27	4362 40.063
HSK-A 63	40	89	60	27	4362 140.063
HSK-A 80	27	60	50	21	4362 27.080
HSK-A 80	32	78	50	24	4362 32.080
HSK-A 80	40	120	60	27	4362 40.080
HSK-A 80	60	160	70	40	4362 60.080
HSK-A 80	40	89	60	27	4362 140.080
HSK-A 100	27	60	50	21	4362 27.100
HSK-A 100	32	78	50	24	4362 32.100
HSK-A 100	40	120	60	27	4362 40.100
HSK-A 100	60	160	70	40	4362 60.100
HSK-A 100	40	89	60	27	4362 140.100



ISO taper milling arbors

Article no. 4800



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Product information:

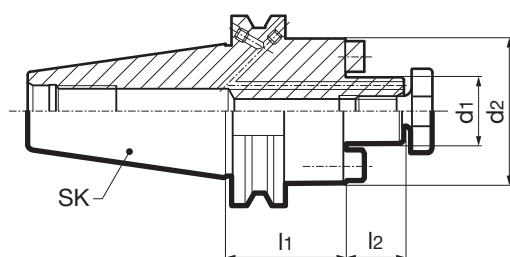
- ISO taper to DIN ISO 7388-1 form AD/AF
- coolant supply form AD/AF
- for holding milling cutter heads
- balancing quality: G 6.3 / 15,000 rpm
- for centralised or decentralised internal cooling, therefore process and tool life improvement
- clamping- \varnothing 40 with 4 additional tapped holes to hold milling heads with tool attachment DIN 2079 and larger contact- \varnothing d2

Scope of delivery:

- incl. milling retainer screw art. no. 4908
- incl. retaining screws

Suitable accessories separately available:

- replacement milling cutter tightening screw, art. no. 4908
- ISO pull studs art. no. 4925, 4926



Article no.

4800

SK	d1 mm	d2 mm	l1 mm	l2 mm	Order no.
SK 40	16	38	35	17	4800 16.040
SK 40	16	38	100	17	4800 16.140
SK 40	16	38	130	17	4800 16.240
SK 40	16	38	160	17	4800 16.340
SK 40	22	48	35	19	4800 22.040
SK 40	22	48	100	19	4800 22.140
SK 40	22	48	130	19	4800 22.240
SK 40	22	48	160	19	4800 22.340
SK 40	27	60	45	21	4800 27.040
SK 40	27	60	100	21	4800 27.140
SK 40	27	60	130	21	4800 27.240
SK 40	27	60	160	21	4800 27.340
SK 40	32	78	50	24	4800 32.040
SK 40	32	78	100	24	4800 32.140
SK 40	32	78	130	24	4800 32.240
SK 40	32	78	160	24	4800 32.340
SK 40	40	88	50	27	4800 40.040
SK 50	16	32	100	17	4800 16.150
SK 50	16	32	130	17	4800 16.250
SK 50	16	32	160	17	4800 16.350
SK 50	22	48	35	19	4800 22.050
SK 50	22	48	100	19	4800 22.150
SK 50	22	48	130	19	4800 22.250
SK 50	22	48	160	19	4800 22.350
SK 50	27	60	40	21	4800 27.050
SK 50	27	60	100	21	4800 27.150
SK 50	27	60	130	21	4800 27.250
SK 50	27	60	160	21	4800 27.350
SK 50	32	78	50	24	4800 32.050
SK 50	32	78	100	24	4800 32.150
SK 50	32	78	130	24	4800 32.250
SK 50	32	78	160	24	4800 32.350
SK 50	40	88	50	27	4800 40.050
SK 50	40	88	100	27	4800 40.150
SK 50	40	88	130	27	4800 40.250
SK 50	40	88	160	27	4800 40.350



Product information:

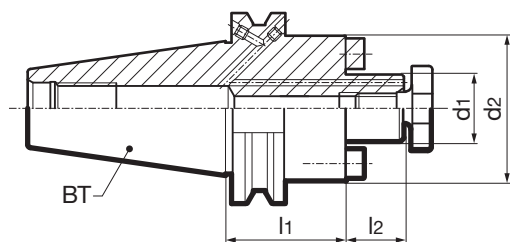
- MAS/BT to DIN ISO 7388-2 Form JD/JF
- coolant supply form JD/JF (* BT30 version JD without coolant supply over collar without GÜHROJET)
- for holding milling cutter heads
- balancing quality: G 6.3 / 15,000 rpm
- for centralised or decentralised internal cooling, therefore process and tool life improvement
- clamping-Ø 40 with 4 additional tapped holes to hold milling heads with tool attachment DIN 2079 and larger contact-Ø d2

Scope of delivery:

- incl. milling retainer screw art. no. 4908
- incl. retaining screws

Suitable accessories separately available:

- replacement milling cutter tightening screw, art. no. 4908
- BT pull studs art. nr. 4927, 4928
- BT-50 on request



Article no.

4230

BT	d1 h6 mm	d2 mm	l1 mm	l2 mm	Order no.
BT 30	16	38	40.0	17	4230 16.030
BT 30	22	48	40.0	19	4230 22.030
BT 30	27	58	41.0	21	4230 27.030
BT 30	32	78	50.0	24	4230 32.030
BT 40	16	38	40.0	17	4230 16.040
BT 40	22	48	40.0	19	4230 22.040
BT 40	27	58	19.6	21	4230 27.040
BT 40	32	78	50.0	24	4230 32.040
BT 40	40	88	50.0	27	4230 40.040



Milling arbors CAT

Article no. 4222



GÜHROJET

Product information:

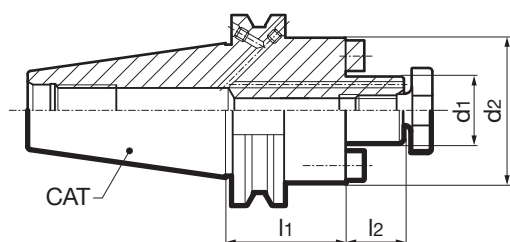
- CAT to ASME B5.50
- coolant supply form AD/AF
- balancing quality: G 6.3 / 15,000 rpm
- for holding milling cutter heads
- clamping-Ø 40 with 4 additional tapped holes to hold milling heads with tool attachment DIN 2079 and larger contact-Ø d2
- for central internal cooling

Scope of delivery:

- cylinder head screw DIN EN ISO 4762 art. no. 4907
- incl. milling retainer screw art. no. 4908
- incl. retaining screws

Suitable accessories separately available:

- replacement cylinder screw DIN EN ISO 4762, art. no. 4907
- replacement milling cutter tightening screw, art. no. 4908
- CAT pull studs on request



Article no.

4222

CAT	d1 h6 mm	d2 mm	l1 mm	l2 mm	Order no.
CAT 40	16	38	35	17	4222 16.040
CAT 40	22	44	35	19	4222 22.040
CAT 40	27	50	40	21	4222 27.040
CAT 40	32	78	50	24	4222 32.040
CAT 40	40	89	50	27	4222 40.040
CAT 50	16	38	35	17	4222 16.050
CAT 50	22	44	35	19	4222 22.050
CAT 50	27	50	40	21	4222 27.050
CAT 50	32	78	50	24	4222 32.050
CAT 50	40	89	50	27	4222 40.050



Combination cutter arbours HSK-A

Article no. **4361**



Product information:

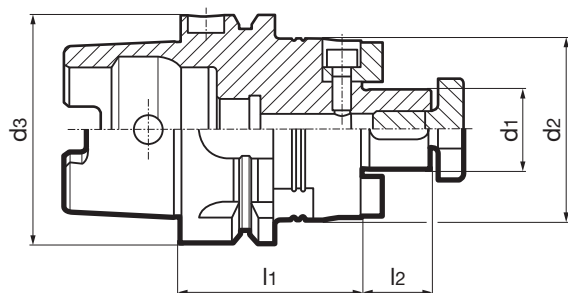
- HSK-A according to ISO 12164-1 / DIN 69893-1
- for holding end face mills DIN 841, angled face mills DIN 842 with longitudinal slot, end face mills DIN 1880 with transverse slot and milling cutter heads DIN 1830
- for Ø 40 and Ø 50 holder, additionally with 4 threaded holes for holding cutter heads with tool attachment in accordance with DIN 2079
- for central coolant supply

Scope of delivery:

- incl. milling retainer screw art. no. 4908
- driver, art. no. 4922
- feather key, art. no. 4923

Suitable accessories separately available:

- coolant supply set art. no. 4949



Article no. **4361**

d3	d1 h6 mm	d2 mm	l1 mm	l2 mm	Order no.
HSK-A 32	16	40	45	17	4361 16.032
HSK-A 32	22	50	50	19	4361 22.032
HSK-A 40	16	40	45	17	4361 16.040
HSK-A 40	22	50	50	19	4361 22.040
HSK-A 50	16	40	45	17	4361 16.050
HSK-A 50	22	50	50	19	4361 22.050
HSK-A 50	27	60	55	21	4361 27.050
HSK-A 63	16	40	45	17	4361 16.063
HSK-A 63	22	50	50	19	4361 22.063
HSK-A 63	27	60	55	21	4361 27.063
HSK-A 63	32	78	55	24	4361 32.063
HSK-A 63	40	89	60	27	4361 40.063
HSK-A 80	16	40	45	17	4361 16.080
HSK-A 80	22	50	50	19	4361 22.080
HSK-A 80	27	60	55	21	4361 27.080
HSK-A 80	32	78	55	24	4361 32.080
HSK-A 80	40	89	60	27	4361 40.080
HSK-A 100	22	50		19	4361 22.100
HSK-A 100	27	60	55	21	4361 27.100
HSK-A 100	32	78	55	24	4361 32.100
HSK-A 100	40	89	60	27	4361 40.100
HSK-A 100	50	120	70	30	4361 50.100

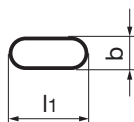


Feather key DIN 6885 A

Article no. 4923

Scope of delivery:

- minimum order quantity 10 pcs.

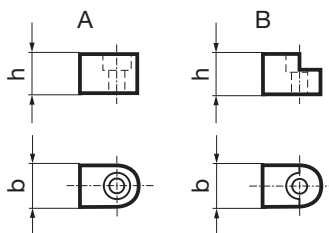


Article no. 4923

Size	l1 mm	b mm	Order no.
16	14	4	4923 4.016
22	16	6	4923 6.022
27	19	7	4923 7.027
32	22	8	4923 8.032
40	25	10	4923 10.040
50	28	12	4923 12.050

Drive dog sets for shell milling arbors

Article no. 4922



Article no. 4922

Size	Form	h mm	b mm	Order no.
16	B	9.25	8	4922 16.000
22	B	11.00	10	4922 22.000
27	A	12.75	12	4922 27.000
32	A	16.50	14	4922 32.000
40	A	20.00	16	4922 40.000
50	A	27.50	18	4922 50.000



Screws DIN EN ISO 4762 (former DIN 912)

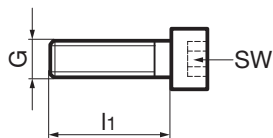
Article no. **4907**

Product information:

strength class M3 to M8: 8.8, M12: 10.9

Scope of delivery:

- minimum order quantity 10



Article no. **4907**

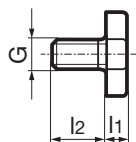
G	l1 mm	SW mm	Order no.
M 3	8	2.5	4907 3.081
M 4	10	3.0	4907 4.100
M 4	10	3.0	4907 4.101
M 5	12	4.0	4907 5.120
M 5	16	4.0	4907 5.161
M 6	16	5.0	4907 6.140
M 6	16	5.0	4907 6.160
M 6	16	5.0	4907 6.161
M 6	20	5.0	4907 6.200
M 6	20	5.0	4907 6.201
M 8	25	6.0	4907 8.250
M12	65	10.0	4907 12.650

Milling cutter retaining screws

Article no. **4908**

Product information:

- according to DIN 6367
- on request with internal cooling



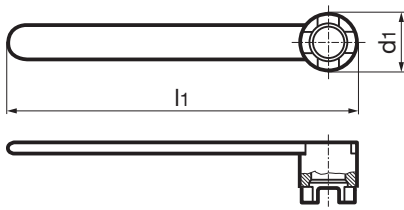
Article no. **4908**

for arbour Ø	G	l1 mm	l2 mm	Torque Nm	Order no.
16	M 8	6	16	40	4908 16.000
22	M10	7	18	60	4908 22.000
27	M12	8	22	80	4908 27.000
32	M16	9	26	95	4908 32.000
40	M20	10	30	100	4908 40.000
50	M24	12	36	135	4908 50.000
60	M30	14	45	160	4908 60.000



Socket wrenches for retaining screws

Article no. 4909



Article no.

4909

for arbour Ø	d1 mm	l1 mm	Order no.
16	22	180	4909 16.000
22	28	200	4909 22.000
27	35	225	4909 27.000
32	42	250	4909 32.000
40	52	280	4909 40.000
50	63	315	4909 50.000
60	76	355	4909 60.000



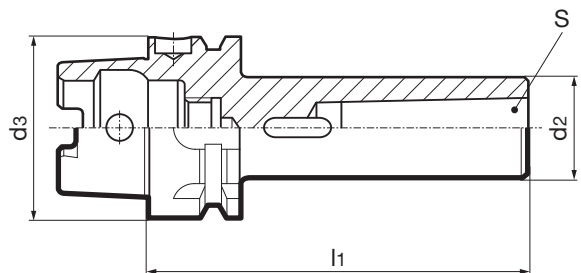
HSK-A morse taper holders

Article no. **4320**



Product information:

- HSK-A according to ISO 12164-1 / DIN 69893-1
- for holding morse tapers with tangs in accordance with DIN 228-1, form B



Article no. **4320**

d3	S	d2 mm	l1 mm	Order no.
HSK-A 50	MK-1	25	100	4320 1.050
HSK-A 50	MK-2	32	120	4320 2.050
HSK-A 50	MK-3	40	140	4320 3.050
HSK-A 63	MK-1	25	100	4320 1.063
HSK-A 63	MK-2	32	120	4320 2.063
HSK-A 63	MK-3	40	140	4320 3.063
HSK-A 63	MK-4	48	160	4320 4.063
HSK-A 80	MK-1	25	110	4320 1.080
HSK-A 80	MK-2	32	120	4320 2.080
HSK-A 80	MK-3	40	150	4320 3.080
HSK-A 80	MK-4	48	170	4320 4.080
HSK-A 100	MK-1	25	110	4320 1.100
HSK-A 100	MK-2	32	120	4320 2.100
HSK-A 100	MK-3	40	150	4320 3.100
HSK-A 100	MK-4	48	170	4320 4.100
HSK-A 100	MK-5	63	200	4320 5.100



ISO taper morse taper holders

Article no. 4238

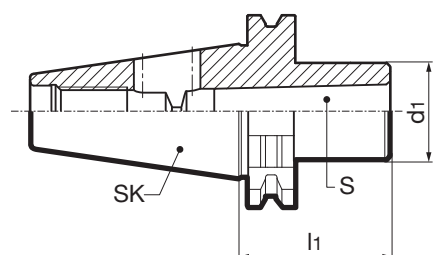


Product information:

- ISO taper to DIN ISO 7388-1 form AD
- for holding morse tapers with tangs in accordance with DIN 228-1, form B

Suitable accessories separately available:

- ISO pull studs art. no. 4925, 4926



Article no.

4238

SK	S	d1 mm	l1 mm	Order no.
SK 40	MK-1	25	50	4238 1.040
SK 40	MK-2	32	50	4238 2.040
SK 40	MK-3	40	70	4238 3.040
SK 40	MK-4	48	95	4238 4.040
SK 50	MK-1	25	45	4238 1.050
SK 50	MK-2	32	60	4238 2.050
SK 50	MK-3	40	65	4238 3.050
SK 50	MK-4	48	95	4238 4.050
SK 50	MK-5	63	105	4238 5.050



BT morse taper holders

Article no. **4239**

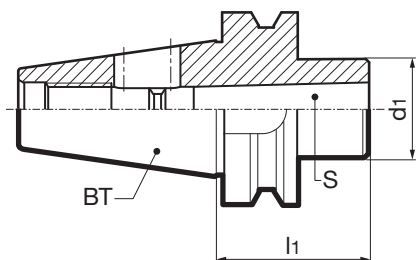


Product information:

- MAS/BT to DIN ISO 7388-2 form JD
- for holding morse tapers with tangs in accordance with DIN 228-1, form B

Suitable accessories separately available:

- BT pull studs art. nr. 4927, 4928



Article no. **4239**

BT	S	d1 mm	l1 mm	Order no.
BT 30	MK-1	25	45	4239 1.030
BT 30	MK-2	32	60	4239 2.030
BT 30	MK-3	40	75	4239 3.030
BT 40	MK-1	25	50	4239 1.040
BT 40	MK-2	32	50	4239 2.040
BT 40	MK-3	40	70	4239 3.040
BT 40	MK-4	48	95	4239 4.040
BT 50	MK-1	25	45	4239 1.050
BT 50	MK-2	32	60	4239 2.050
BT 50	MK-3	40	65	4239 3.050
BT 50	MK-4	48	95	4239 4.050
BT 50	MK-5	63	105	4239 5.050

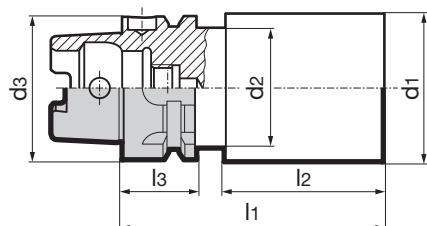


HSK-A blanks

Article no. **4983**

Product information:

- Material: nitrided steel, hardened and ground taper (yellow in scale drawing), blank unhardened for further machining
- HSK-A according to ISO 12164-1 / DIN 69893-1



Article no.

4983

d3	d1 mm	d2 mm	l1 mm	l2 mm	l3 mm	Order no.
HSK-A 32	41	26	175	140	20	4983 175.032
HSK-A 40	51	35	205	170	20	4983 205.040
HSK-A 50	64	42	235	193	26	4983 235.050
HSK-A 63	63	53	150	108	26	4983 150.063
HSK-A 63	81	53	235	193	26	4983 235.063
HSK-A 80	101	67	235	193	26	4983 235.080
HSK-A 100	126	85	250	205	29	4983 250.100



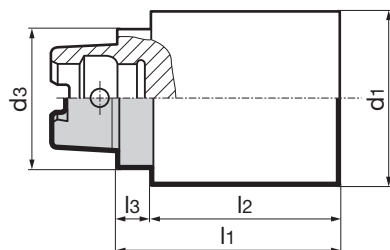
HSK-C blanks

Article no. **4982**



Product information:

- Material: nitrided steel, hardened and ground taper (yellow in scale drawing), blank unhardened for further machining
- machining not permitted in l3 area
- HSK-C according to ISO 12164-1/DIN 69893-1



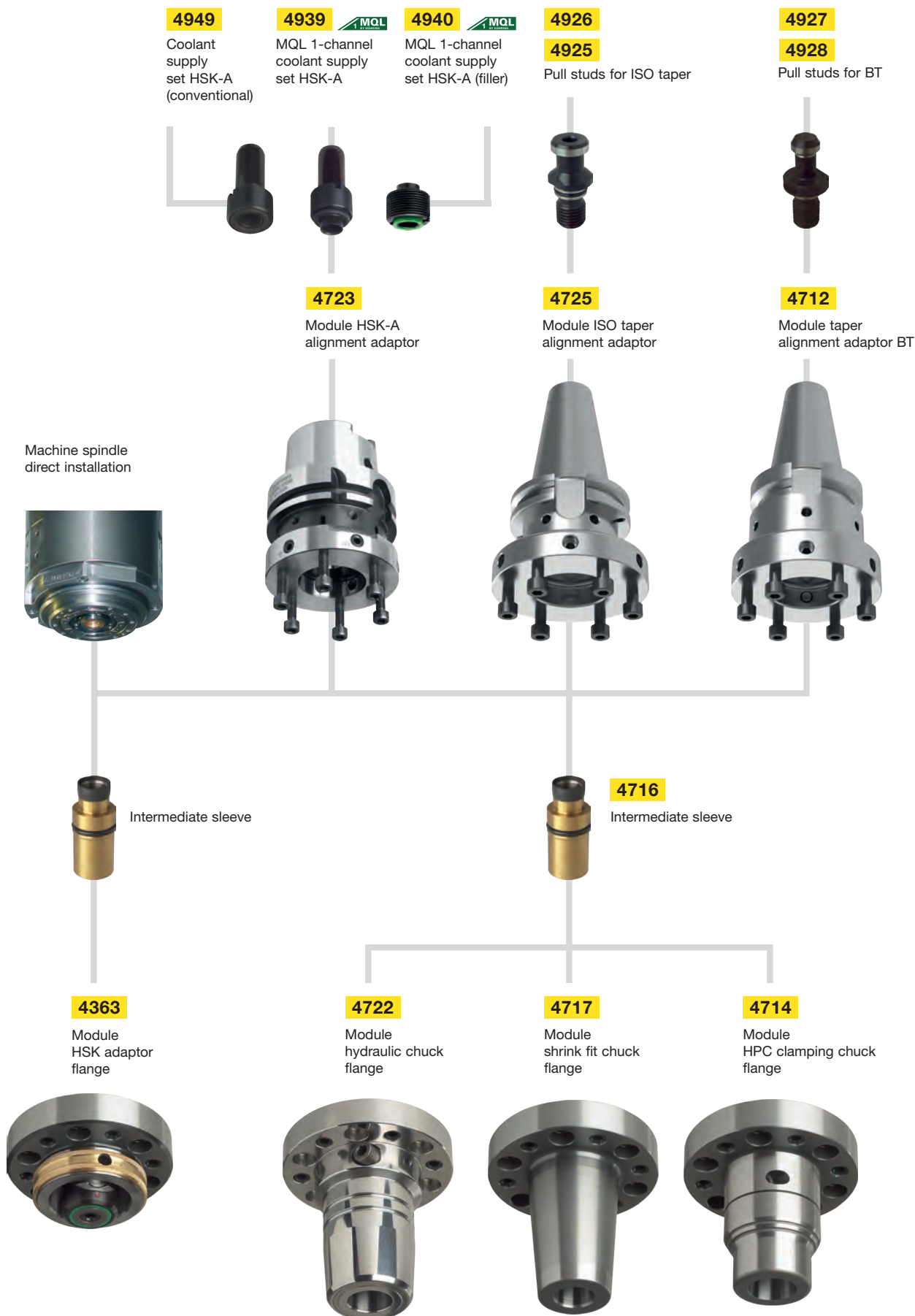
Article no. **4982**

d3	d1 mm	l1 mm	l2 mm	l3 mm	Order no.
HSK-C 25	30	100	90	10	4982 87.025
HSK-C 32	41	150	139	11	4982 50.032
HSK-C 40	51	180	169	11	4982 63.040
HSK-C 50	64	200	186	14	4982 80.050
HSK-C 50	64	90	76	14	4982 100.050
HSK-C 63	81	200	186	14	4982 112.063
HSK-C 63	81	100	86	14	4982 125.063
HSK-C 80	101	210	193	17	4982 120.080
HSK-C 100	124	225	208	17	4982 145.100



OVERVIEW OF MODULES

6x6



Holders fine machining



Product information:

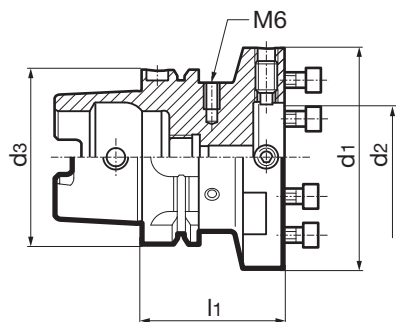
- HSK-A according to ISO 12164-1 / DIN 69893-1
- balancing quality: G 6.3 / 15,000 rpm
- for the highly accurate alignment of all modular flanges 6x6
- 6 balancing threads M6
- suitable for MQL and conventional cooling
- cooling lubricant without loss and flow-disruption thanks to the use of an intermediate tube

Scope of delivery:

- incl. 6 screws for radial adjustment
- incl. 6 clamping screws

Suitable accessories separately available:

- adaptor sleeves art. no. 4716
- coolant supply set art. no. 4949
- MQL transfer unit, art. no. 4939 or 4940



Article no. **4723**

d3	d1 mm	d2 mm	l1 mm	Order no.
HSK-A 63	60	30	60	4723 60.063
HSK-A 63	70	35	60	4723 70.063
HSK-A 63	80	40	60	4723 80.063
HSK-A 63	100	50	65	4723 100.063
HSK-A 63	117	60	65	4723 117.063
HSK-A 80	70	35	60	4723 70.080
HSK-A 80	80	40	60	4723 80.080
HSK-A 80	100	50	65	4723 100.080
HSK-A 80	117	60	65	4723 117.080
HSK-A 80	140	80	75	4723 140.080
HSK-A 100	70	35	55	4723 70.100
HSK-A 100	80	40	55	4723 80.100
HSK-A 100	100	50	65	4723 100.100
HSK-A 100	117	60	65	4723 117.100
HSK-A 100	140	80	75	4723 140.100



Module 6x6 ISO taper alignment adaptors

Article no. 4725



Product information:

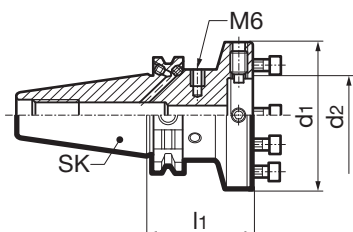
- ISO taper to DIN ISO 7388-1 form AD/AF
- balancing quality: G 6.3 / 15,000 rpm
- for the highly accurate alignment of all modular flanges 6x6
- 6 balancing threads M6
- suitable for MQL and conventional cooling
- cooling lubricant without loss and flow-disruption thanks to the use of an intermediate tube

Scope of delivery:

- incl. 6 screws for radial adjustment
- incl. 6 clamping screws

Suitable accessories separately available:

- adaptor sleeves art. no. 4716
- ISO pull studs art. no. 4925, 4926



Article no.

4725

SK	d1 mm	d2 mm	l1 mm	Order no.
SK 40	60	30	50	4725 60.040
SK 40	70	35	50	4725 70.040
SK 40	80	40	55	4725 80.040
SK 40	100	50	60	4725 100.040
SK 50	60	30	50	4725 60.050
SK 50	70	35	50	4725 70.050
SK 50	80	40	50	4725 80.050
SK 50	100	50	60	4725 100.050
SK 50	117	60	60	4725 117.050
SK 50	140	80	60	4725 140.050



Product information:

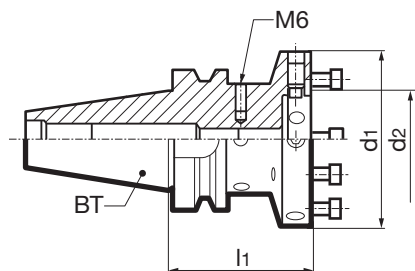
- MAS/BT to DIN ISO 7388-2 form JD
- balancing quality: G 6.3 / 15,000 rpm
- suitable for MQL and conventional cooling
- cooling lubricant without loss and flow-disruption thanks to the use of an intermediate tube
- for the highly accurate alignment of all modular flanges 6x6
- 6 balancing threads M6

Scope of delivery:

- incl. 6 screws for radial adjustment
- incl. 6 clamping screws

Suitable accessories separately available:

- adaptor sleeves art. no. 4716
- BT pull studs art. nr. 4927, 4928



Article no. **4712**

BT	d1 mm	d2 mm	l1 mm	Order no.
BT 30	60	30	50	4712 60.030
BT 30	70	35	50	4712 70.030
BT 40	60	30	55	4712 60.040
BT 40	70	35	55	4712 70.040
BT 40	80	40	65	4712 80.040
BT 40	100	50	70	4712 100.040
BT 50	60	30	70	4712 60.050
BT 50	70	35	70	4712 70.050
BT 50	80	40	70	4712 80.050
BT 50	100	50	70	4712 100.050
BT 50	117	60	80	4712 117.050
BT 50	140	80	80	4712 140.050



Module 6x6 hydraulic chuck flanges

Article no. 4722



Product information:

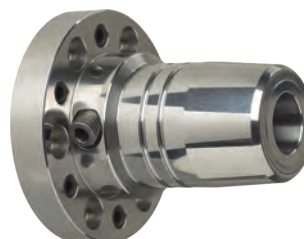
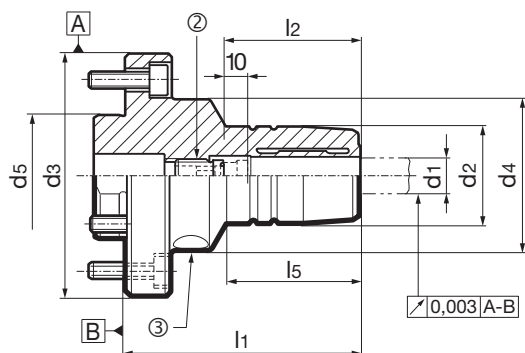
- for the highly accurate radial and axial alignment on alignment adaptors or machine spindles
- balancing quality: G 6.3 / 15,000 rpm
- for tool shanks d1 h6
- cooling lubricant without loss and flow-disruption thanks to the use of an intermediate tube

Scope of delivery:

- incl. adjusting screw (2) art. no. 4941
- incl. clamping screw (3) art. no. 4241
- incl. angular alignment set art. no. 4715
- incl. 6 clamping screws

Suitable accessories separately available:

- hexagonal key art. no. 4912
- adaptor sleeves (1), art. no. 4716
- replacement adjusting screw (2), art. no. 4941
- replacement clamping screw (3), art. no. 4241
- replacement sealing lip, art. no. 4617 for adaptor sleeves, art. no. 4716
- for additional clamping Ø, use reduction bushes, art. no. 4368 or 4369
- design for MQL available on request



Article no.

4722

d3 mm	d1 mm	d2 mm	d4 mm	d5 mm	l1 mm	l2 mm	l5 mm	SW mm	①	②	③
70	12	32	40	35	75.0	45	45.0	4	4716 14.020	4941 12.100	4241 8.000
80	20	42	50	40	82.5	50	51.5	5	4716 14.040	4941 20.100	4241 10.001
80	12	32	50	40	77.5	45	44.3	5	4716 14.050	4941 12.100	4241 10.002
100	32	64	64	50	103.0	60	84.0	6	4716 14.020	4941 32.100	4241 12.000

Order no.
4722 12.070
4722 20.080
4722 12.080
4722 32.100



Module 6x6 shrink fit chuck flanges

Article no. **4717**

Product information:

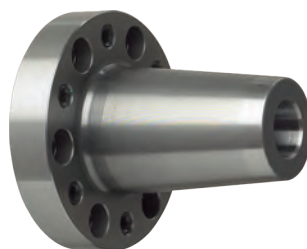
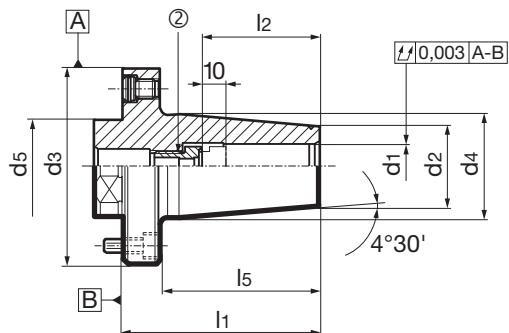
- for the highly accurate radial and axial alignment on alignment adaptors or machine spindles
- balancing quality: G 6.3 / 15,000 rpm
- for tool shanks d1 h6
- cooling lubricant without loss and flow-disruption thanks to the use of an intermediate tube
- with axial damping screw for optimal concentricity

Scope of delivery:

- incl. adjusting screw (2) art. no. 4941
- incl. 6 angular alignment sets art. no. 4715
- incl. 6 clamping screws

Suitable accessories separately available:

- adaptor sleeves (1), art. no. 4716
- replacement sealing lip, art. no. 4617 for adaptor sleeves, art. no. 4716
- further sizes on request



Article no.

4717

d3 mm	d1 mm	d2 mm	d4 mm	d5 mm	l1 mm	l2 mm	l5 mm	①	②
60	6	21	27	30	70	36	56	4716 14.010	4941 6.100
60	8	21	27	30	70	36	56	4716 14.010	4941 8.100
60	10	24	32	30	70	40	56	4716 14.020	4941 10.100
60	12	24	32	30	70	45	56	4716 14.030	4941 12.100
70	12	24	32	35	75	45	60	4716 14.020	4941 12.100
70	14	27	34	35	75	45	60	4716 14.020	4941 14.100
70	16	27	34	35	75	48	60	4716 14.040	4941 16.100
80	18	33	42	40	80	48	65	4716 14.050	4941 18.100
80	20	33	42	40	80	50	65	4716 14.040	4941 20.100
100	25	44	52	48	80	56	61	4716 20.010	4941 25.100
100	32	44	52	50	80	60	61	4716 20.020	4941 32.100

Order no.
4717 6.060
4717 8.060
4717 10.060
4717 12.060
4717 12.070
4717 14.070
4717 16.070
4717 18.080
4717 20.080
4717 25.100
4717 32.100



Module 6x6 HPC clamping chuck flanges

Article no. **4714**



Product information:

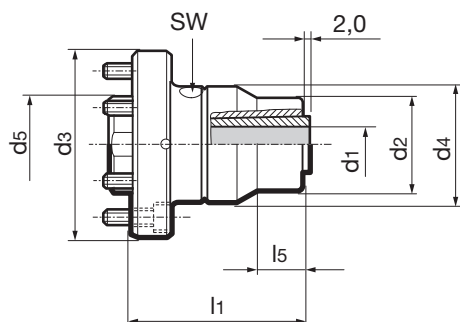
- highest concentricity, clamping force and rigidity thanks to mech. tension gearing
- for the highly accurate radial and axial alignment on alignment adaptors or machine spindles
- for tool shanks d1 h6
- cooling lubricant without loss and flow-disruption thanks to the use of an intermediate tube
- suitable for internal cooling up to 80 bar
- positive damping properties

Scope of delivery:

- incl. 6 angular alignment sets art. no. 4715
- incl. 6 clamping screws

Suitable accessories separately available:

- clamping sleeves art. no. 4302, 4235, 4236, 4237
- 6 angle alignment units, art. no. 4715
- adaptor sleeves (1), art. no. 4716
- replacement sealing lip, art. no. 4617 for adaptor sleeves, art. no. 4716
- hexagonal key (2), art. no. 4912



Article no.

4714

d3 mm	Size	d1	d2 mm	d4 mm	d5 mm	l1 mm	l5 mm	SW mm	①	②
70	20	3 - 20	40.0	50.0	35.0	87.0	20.0	4	4716 20.030	4912 4.600
80	20	3 - 20	40.0	50.0	40.0	73.0	20.0	4	4716 20.030	4912 4.600
100	25	16 - 32	53.0	63.0	48.0	118.0		4	4716 20.030	4912 4.600

Order no.
4714 20.070
4714 20.080
4714 25.100

Module 6x6 HSK adaptor flanges

Article no. **4363**



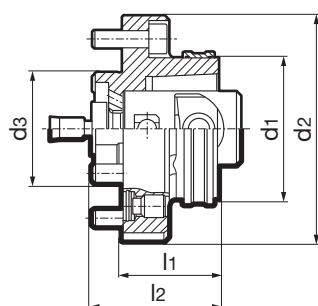
Product information:

- for holding HSK-A/C shanks according to ISO 12164-1/DIN 69893
- for the highly accurate radial and axial alignment on alignment adaptors or machine spindles
- suitable for MQL and conventional cooling
- for the transferable torsional moment the interface between spindle and flange has to be taken into consideration



Scope of delivery:

- incl. MQL 4-point clamping set art. no. 4930
- incl. retension screw art. no. 4935
- incl. brass lock ring art. no. 4953
- incl. 6 angular alignment sets art. no. 4715
- incl. 6 clamping screws
- incl. adaptor sleeve (1), art. no. 4716



Article no.

4363

d1	d2 mm	d3 mm	l1 mm	l2 mm	①
HSK-C 32	60	30	26	36	4716 24.060
HSK-C 40	70	35	30	40	4716 30.070
HSK-C 50	80	40	35	45	4716 23.808
HSK-C 63	100	50	43	55	4716 48.100
HSK-C 80	117	60	50	62	4716 60.117
HSK-C 100	140	80	75	87	4716 75.140

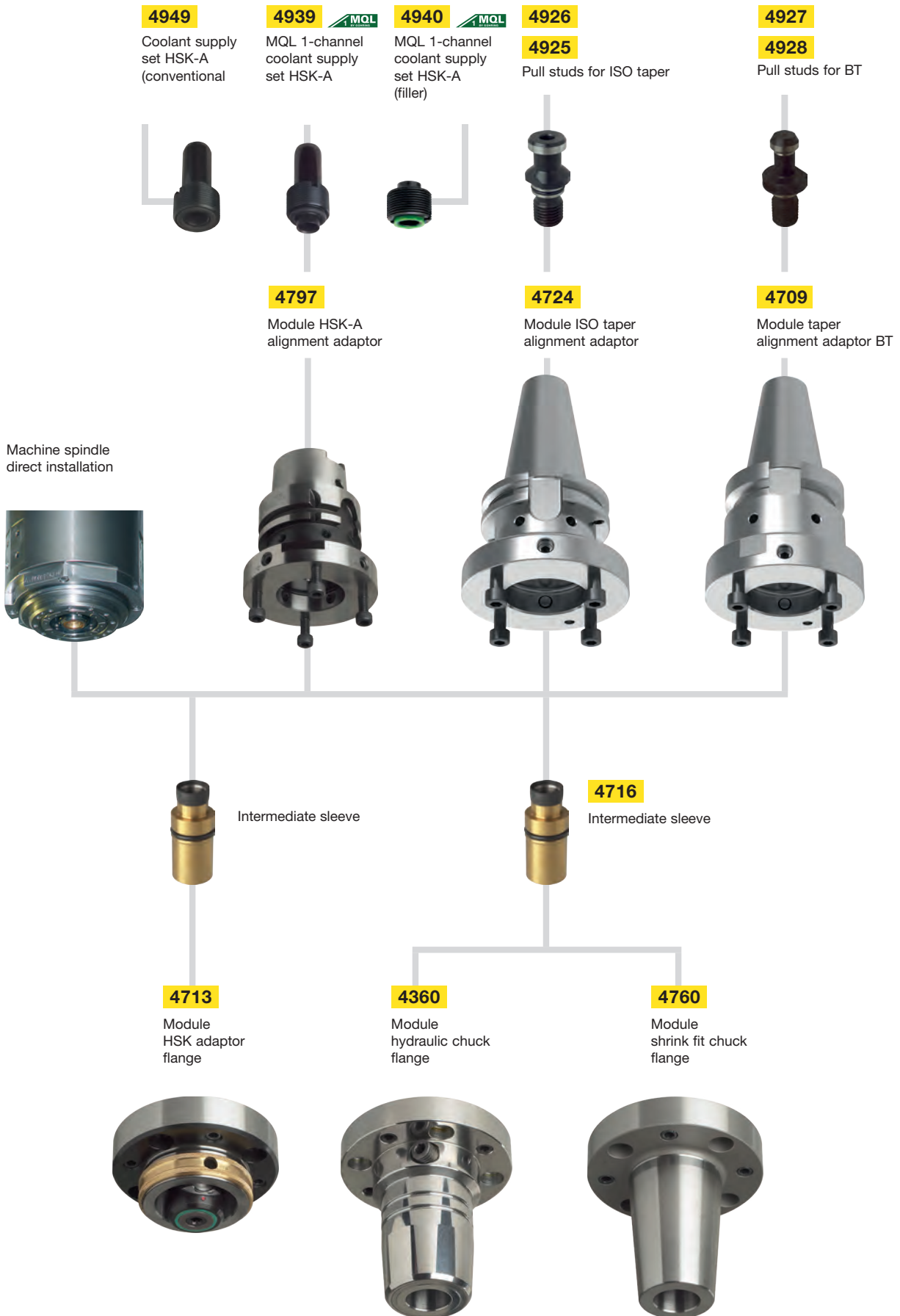
Order no.
4363 24.060
4363 30.070
4363 38.080
4363 48.100
4363 60.117
4363 75.140

Holders fine machining



OVERVIEW OF MODULES

4x4



Holders fine machining



Module 4x4 HSK-A alignment adaptors

Article no. 4297



Product information:

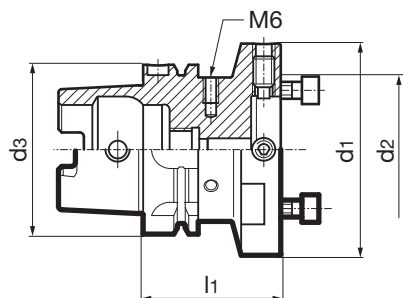
- HSK-A according to ISO 12164-1 / DIN 69893-1
- balancing quality: G 6.3 / 15,000 rpm
- for the highly accurate alignment of all modular flanges 4x4
- cooling lubricant without loss and flow-disruption thanks to the use of an intermediate tube
- suitable for MQL and conventional cooling
- 6 balancing threads M6

Scope of delivery:

- incl. 4 screws for radial adjustment
- incl. 4 clamping screws

Suitable accessories separately available:

- coolant supply set art. no. 4949
- MQL transfer unit, art. no. 4939 or 4940
- adaptor sleeves art. no. 4716
- further sizes on request



Article no.

4297

d3	d1 mm	d2 mm	l1 mm	Order no.
HSK-A 63	60	30	60	4297 60.063
HSK-A 63	70	35	60	4297 70.063
HSK-A 63	80	40	60	4297 80.063
HSK-A 63	100	50	65	4297 100.063
HSK-A 63	117	60	65	4297 117.063
HSK-A 80	70	35	60	4297 70.080
HSK-A 80	80	40	60	4297 80.080
HSK-A 80	100	50	65	4297 100.080
HSK-A 80	117	60	65	4297 117.080
HSK-A 80	140	80	75	4297 140.080
HSK-A 100	70	35	55	4297 70.100
HSK-A 100	80	40	55	4297 80.100
HSK-A 100	100	50	65	4297 100.100
HSK-A 100	117	60	65	4297 117.100
HSK-A 100	140	80	75	4297 140.100



Product information:

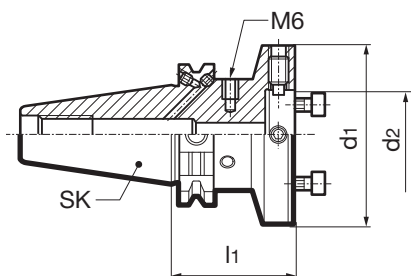
- ISO taper to DIN ISO 7388-1 form AD/AF
- balancing quality: G 6.3 / 15,000 rpm
- for the highly accurate alignment of all modular flanges 4x4
- 6 balancing threads M6
- suitable for MQL and conventional cooling
- cooling lubricant without loss and flow-disruption thanks to the use of an intermediate tube

Scope of delivery:

- incl. 4 screws for radial adjustment
- incl. 4 clamping screws

Suitable accessories separately available:

- adaptor sleeves art. no. 4716
- ISO pull studs art. no. 4925, 4926



Article no. **4724**

SK	d1 mm	d2 mm	l1 mm	Order no.
SK 40	60	30	50	4724 60.040
SK 40	70	35	50	4724 70.040
SK 40	80	40	55	4724 80.040
SK 40	100	50	60	4724 100.040
SK 50	60	30	50	4724 60.050
SK 50	70	35	50	4724 70.050
SK 50	80	40	50	4724 80.050
SK 50	100	50	60	4724 100.050
SK 50	117	60	60	4724 117.050
SK 50	140	80	60	4724 140.050



Module 4x4 BT alignment adaptors

Article no. 4709



Product information:

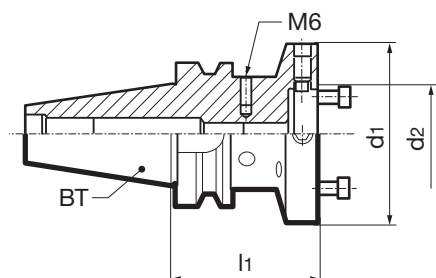
- MAS/BT to DIN ISO 7388-2 form JD
- balancing quality: G 6.3 / 15,000 rpm
- suitable for MQL and conventional cooling
- cooling lubricant without loss and flow-disruption thanks to the use of an intermediate tube
- for the highly accurate alignment of all modular flanges 4x4
- 6 balancing threads M6

Scope of delivery:

- incl. 4 screws for radial adjustment
- incl. 4 clamping screws

Suitable accessories separately available:

- BT pull studs art. nr. 4927, 4928
- adaptor sleeves art. no. 4716



Article no.

4709

BT	d1 mm	d2 mm	l1 mm	Order no.
BT 30	60	30	50	4709 60.030
BT 30	70	35	50	4709 70.030
BT 40	60	30	55	4709 60.040
BT 40	70	35	55	4709 70.040
BT 40	80	40	65	4709 80.040
BT 40	100	50	70	4709 100.040
BT 50	60	30	70	4709 60.050
BT 50	70	35	70	4709 70.050
BT 50	80	40	70	4709 80.050
BT 50	100	50	70	4709 100.050
BT 50	117	60	80	4709 117.050
BT 50	140	80	80	4709 140.050



Product information:

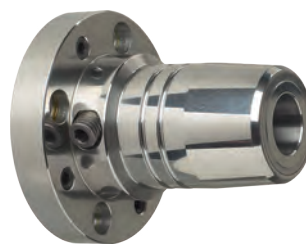
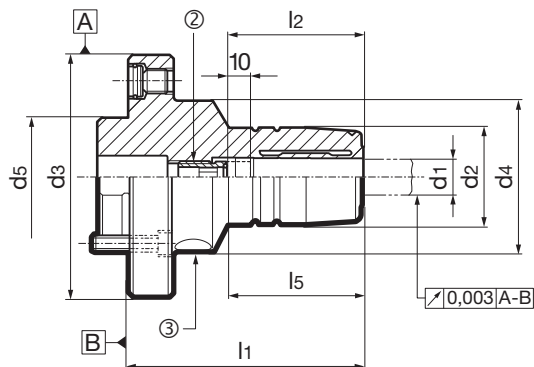
- for the highly accurate radial and axial alignment on alignment adaptors or machine spindles
- balancing quality: G 6.3 / 15,000 rpm
- for tool shanks d1 h6
- cooling lubricant without loss and flow-disruption thanks to the use of an intermediate tube

Scope of delivery:

- incl. adjusting screw (2) art. no. 4941
- incl. clamping screw (3) art. no. 4241
- incl. 4 angle alignment units, art. no. 4715
- incl. 4 clamping screws

Suitable accessories separately available:

- hexagonal key art. no. 4912
- adaptor sleeves (1), art. no. 4716
- replacement sealing lip, art. no. 4617 for adaptor sleeves, art. no. 4716
- for additional clamping Ø, use reduction bushes, art. no. 4368 or 4369
- design for MQL available on request



Article no.

4360

d3 mm	d1 mm	d2 mm	d4 mm	d5 mm	l1 mm	l2 mm	l5 mm	SW mm	①	②	③
70	12	32	40	35	75.0	45	45.0	4	4716 14.020	4941 12.100	4241 8.000
80	12	32	50	40	77.5	45	44.3	5	4716 14.050	4941 12.100	4241 10.002
80	20	42	50	40	82.5	50	51.5	5	4716 14.040	4941 20.100	4241 10.001
100	32	64	64	50	103.0	60	84.0	6	4716 14.020	4941 32.100	4241 12.000

Order no.
4360 12.070
4360 12.080
4360 20.080
4360 32.100



Module 4x4 shrink fit chuck flanges

Article no. 4760

Product information:

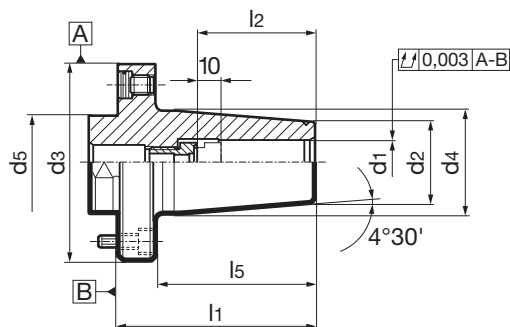
- for the highly accurate radial and axial alignment on alignment adaptors or machine spindles
- balancing quality: G 6.3 / 15,000 rpm
- for tool shanks d1 h6
- with axial damping screw for optimal concentricity
- cooling lubricant without loss and flow-disruption thanks to the use of an intermediate tube

Scope of delivery:

- incl. adjusting screw with axial force damping (1) art. no. 4941
- incl. 4 angle alignment units, art. no. 4715
- incl. 4 clamping screws

Suitable accessories separately available:

- replacement adjusting screw with axial force damping (1), art. no. 4941
- angle alignment units, art. no. 4715
- incl. adaptor sleeve (1), art. no. 4716
- replacement sealing lip, art. no. 4617 for adaptor sleeves, art. no. 4716
- further sizes on request



Article no.

4760

d3 mm	d1 mm	d2 mm	d4 mm	d5 mm	l1 mm	l2 mm	l5 mm	①	②	Order no.
60	6	21	27	30	70	36	56	4941 6.100	4716 14.010	4760 6.060
60	8	21	27	30	70	36	56	4941 8.100	4716 14.010	4760 8.060
60	10	24	32	30	70	40	56	4941 10.100	4716 14.020	4760 10.060
60	12	24	32	30	70	45	56	4941 12.100	4716 14.030	4760 12.060
70	12	24	32	35	75	45	60	4941 12.100	4716 14.020	4760 12.070
70	14	27	34	35	75	45	60	4941 14.100	4716 14.020	4760 14.070
70	16	27	34	35	75	48	60	4941 16.100	4716 14.040	4760 16.070
80	18	33	42	40	80	48	65	4941 18.100	4716 14.050	4760 18.080
80	20	33	42	40	80	50	65	4941 20.100	4716 14.040	4760 20.080
100	25	44	52	48	80	56	61	4941 25.100	4716 20.010	4760 25.100
100	32	44	52	50	80	60	61	4941 32.100	4716 20.020	4760 32.100



Module 4x4 HSK adaptor flanges

Article no. **4713**

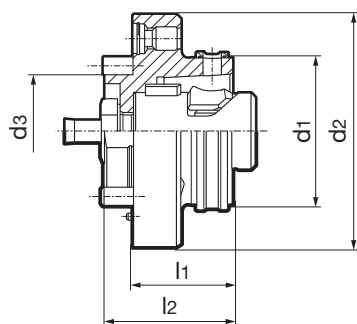


Product information:

- for holding HSK-A/C shanks according to ISO 12164-1/DIN 69893
- for the highly accurate radial and axial alignment on alignment adaptors or machine spindles
- suitable for MQL and conventional cooling
- for the transferable torsional moment the interface between spindle and flange has to be taken into consideration

Scope of delivery:

- incl. MQL 4-point clamping set art. no. 4930
- incl. retention screw art. no. 4935
- incl. brass lock ring art. no. 4953
- incl. 4 angle alignment units, art. no. 4715
- incl. 4 clamping screws
- incl. adaptor sleeve (1), art. no. 4716



Article no.

4713

d1	d2 mm	d3 mm	l1 mm	l2 mm	①	Order no.
HSK-C 32	60	30	26	36	4716 24.060	4713 24.060
HSK-C 40	70	35	30	40	4716 30.070	4713 30.070
HSK-C 50	80	40	35	45	4716 238.080	4713 38.080
HSK-C 63	100	50	43	55	4716 48.100	4713 48.100
HSK-C 80	117	60	50	62	4716 60.117	4713 60.117
HSK-C 100	140	80	75	87	4716 75.140	4713 75.140



Length adjusting screw for conventional cooling

Article no. 4941

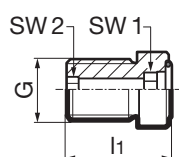


Product information:

- to adapt MQL tool holders to meet the requirements of conventional wet machining. For plain end shanks. The height of screw head compensates the height of MQL taper.
- for use with shank according to DIN 6535 with plain shank end for conventional cooling
- with patented axial force damping; the o-ring on the face prevents temperature-related warping and concentricity errors
- for MQL HSK-A shrink fit and hydraulic chucks

Suitable accessories separately available:

- hexagonal key art. no. 4912



Article no.

4941

for HSK-A	for clamping Ø mm	l1 mm	G	SW2 mm	SW1 mm	Order no.
40	6	15.0	M7	2.5	2.5	4941 6.040
40	6	14.9	M 5	2.5	2.5	4941 6.041
50	6	14.0	M 8X1	2.5	2.5	4941 6.050
63-100	6	17.0	M10X1	2.5	2.5	4941 6.100
40	8	16.2	M7	3.0	3.0	4941 8.040
50	8	18.0	M 8X1	3.0	3.0	4941 8.050
63-100	8	17.0	M10X1	3.0	3.0	4941 8.100
40-50	10	16.2	M 8X1	4.0	4.0	4941 10.050
63-100	10	16.2	M10X1	4.0	4.0	4941 10.100
40-100	12	16.0	M10X1	5.0	5.0	4941 12.100
40-100	14	17.2	M10X1	5.0	5.0	4941 14.100
50-100	16	18.2	M12X1	6.0	6.0	4941 16.100
50-100	18	19.2	M12X1	6.0	6.0	4941 18.100
50-100	20	19.2	M16X1	6.0	8.0	4941 20.100
63-100	25	22.7	M16X1	6.0	8.0	4941 25.100
63-100	32	26.7	M16X1	6.0	8.0	4941 32.100



Intermediate sleeves f. mod. flanges/alignment adaptors

Article no. **4716**

Product information:

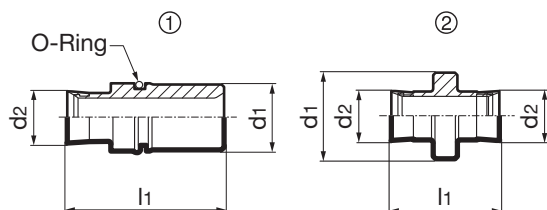
- for sealing during wet and MQL machining
- design without O ring for HSK module adaptor flange art. no. 4363 and art. no. 4713

Scope of delivery:

- sealing lip art. no. 4617 1.140
- O-ring

Suitable accessories separately available:

- replacement sealing lip, art. no. 4617 1,140



Article no.

4716

d1 mm	d2 mm	l1 mm	Type	Code no.	Order no.
14.0	10.7	47.5	1	14.010	4716 14.010
14.0	10.7	32.0	1	14.020	4716 14.020
14.0	10.7	37.5	1	14.030	4716 14.030
14.0	10.7	26.5	1	14.040	4716 14.040
14.0	10.7	31.5	1	14.050	4716 14.050
20.0	10.7	28.0	1	20.010	4716 20.010
20.0	10.7	25.5	1	20.020	4716 20.020
20.0	10.7	16.5	1	20.030	4716 20.030
4.0	10.7	26.1	1	24.060	4716 24.060
5.0	10.7	21.9	1	30.070	4716 30.070
7.0	10.7	31.7	1	48.100	4716 48.100
17.8	10.7	22.3	2	60.100	4716 60.100
10.0	10.7	28.6	2	60.117	4716 60.117
12.0	10.7	36.4	1	75.140	4716 75.140
17.8	10.7	26.3	1	117.140	4716 117.140
6.0	10.7	21.9	1	238.080	4716 238.080



Angle alignment units f. mod. flanges /alignment adaptors

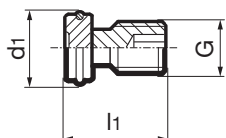
Article no. **4715**

Product information:

- for precise angle alignment of mod. flanges

Scope of delivery:

- pressure disc, threaded pin and snap ring



Article no.

4715

for	G	d1 mm	l1 mm	Order no.
60/70/80	M8 x 1	11.5	13	4715 8.010
100/117/14	M10X1	13.6	19	4715 10.010



Floating side lock holders

Article no. **4167**

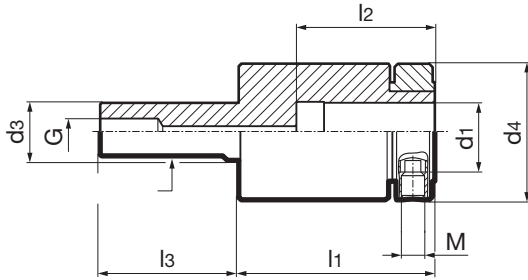


Product information:

- straight shank d3 with clamping surface
- suitable for conventional and high-performance multi-fluted reamers, because of no angle compensation
- central coolant supply max. 80 bar
- drive surface on tool shank required
- for tool shanks d1 h6
- compensates lateral offset between tool and workpiece
- vibration-free compensation of concentricity and alignment errors
- radial compensation (4)

Suitable accessories separately available:

- for other shank Ø reduction sleeves art. no. 4095 available on request
- hexagonal key (2), art. no. 4912
- other sizes and different radial compensation available on request



Article no.

4167

d3 mm	d1 mm	Ø-range mm	d4 mm	l1 mm	l2 mm	l3 mm	M	G	④	Order no.
20	20	14-20	49	75	50	50	M 8	G1/8	0.12	4167 20.020
25	25	16-25	59	85	60	60	M10	G1/4	0.12	4167 25.025
32	32	20-32	80	92	63	80	M12	G3/8	0.12	4167 32.032

Floating holders, short, with side lock holder

Article no. **4169**

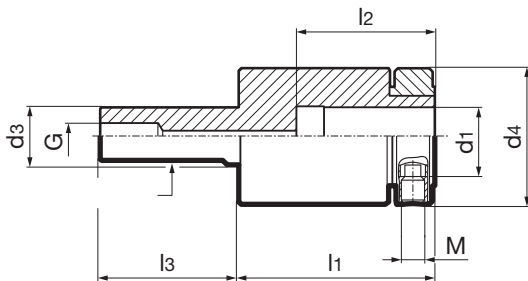


Product information:

- straight shank d3 with clamping surface
- suitable for conventional and high-performance multi-fluted reamers, because of no angle compensation
- central coolant supply max. 80 bar
- drive surface on tool shank required
- for tool shanks d1 h6
- compensates lateral offset between tool and workpiece
- vibration-free compensation of concentricity and alignment errors
- radial compensation (4)

Suitable accessories separately available:

- for other shank Ø reduction sleeves art. no. 4095 available on request
- hexagonal key (2), art. no. 4912
- other sizes and different radial compensation available on request



Article no.

4169

d3 mm	d1 mm	Ø-range mm	d4 mm	l1 mm	l2 mm	l3 mm	M	G	④	Order no.
20	10	4-10	38.5	46	25	40	M 6	G1/8	0.08	4169 10.020
20	16	10-16	49.0	46	29	46	M 8	G1/8	0.10	4169 16.020
20	20	12-20	49.0	46	29	46	M 8	G1/8	0.12	4169 20.020



Floating holders, mini, with side lock holder

Article no. **4174**

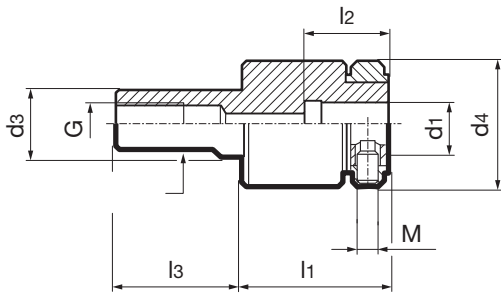


Product information:

- shank holder with lateral clamping surface
- suitable for conventional and high-performance multi-fluted reamers, because of no angle compensation
- very compact design for restricted space
- central coolant supply max. 80 bar
- drive surface on tool shank required
- for tool shanks d1 h6
- compensates lateral offset between tool and workpiece
- vibration-free compensation of concentricity and alignment errors
- radial compensation (4)

Suitable accessories separately available:

- for other shank Ø reduction sleeves art. no. 4097
- hexagonal key (2), art. no. 4912
- other sizes and different radial compensation available on request



Article no. **4174**

d3 mm	d1 mm	Ø-range mm	d4 mm	l1 mm	l2 mm	l3 mm	M	G	④	Order no.
16	10	4-10	30	35	20	30	M 5	G1/8	0.12	4174 10.016

Floating holders with ER collet chuck holder

Article no. **4098**

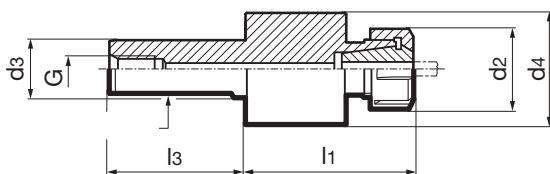


Product information:

- straight shank d3 with clamping surface
- suitable for conventional and high-performance multi-fluted reamers, because of no angle compensation
- for the application of internally cooled reamers use metallic sealed collets type DM art. no. 4175
- central coolant supply max. 80 bar
- compensates lateral offset between tool and workpiece
- vibration-free compensation of concentricity and alignment errors
- radial compensation (4)

Scope of delivery:

- collet chucks art. No. 4175 or 4307 as well as clamping keys art. no. 4913
- other sizes and different radial compensation available on request



Article no. **4098**

d3 mm	Size	Ø-range mm	d2 mm	d4 mm	l1 mm	l3 mm	G	④	Order no.
16	ER20	1-13	34	49.5	74.0	40	G1/8	0.06	4098 20.016
25	ER20	1-13	34	49.5	74.0	60	G1/4	0.08	4098 20.025
20	ER25	2-16	42	59.0	84.0	50	G1/8	0.06	4098 25.020
25	ER25	2-16	42	59.0	84.0	60	G1/4	0.08	4098 25.025
32	ER32	3-20	50	64.0	91.0	80	G3/8	0.10	4098 32.032
40	ER32	3-20	50	64.0	91.0	80	G1/2	0.12	4098 32.040

Holdings fine machining



Floating side lock holders

Article no. **4117**

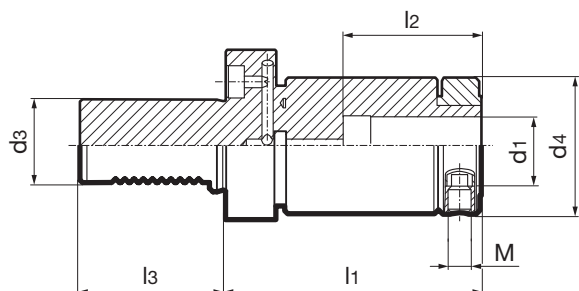


Product information:

- VDI shank holder with teeth
- suitable for conventional and high-performance multi-fluted reamers, because of no angle compensation
- central coolant supply max. 80 bar
- tool shank with special whistle notch flat necessary
- drive surface on tool shank required
- compensates lateral offset between tool and workpiece
- for tool shanks d1 h6
- vibration-free compensation of concentricity and alignment errors
- radial compensation (4)

Suitable accessories separately available:

- for other shank \varnothing reduction sleeves art. no. 4095 available on request
- hexagonal key (2), art. no. 4912
- further sizes on request



Article no.

4117

d3	d1 mm	\varnothing -range mm	d4 mm	l1 mm	l2 mm	l3 mm	M	④	Order no.
VDI 30	25	16-25	59	111	59	55	M10	0.12	4117 25.030
VDI 40	25	16-25	59	111	59	63	M10	0.12	4117 25.040
VDI 40	32	20-32	80	117	63	63	M12	0.12	4117 32.040
VDI 50	25	16-25	59	111	59	78	M10	0.12	4117 25.050
VDI 50	32	20-32	80	117	63	78	M12	0.12	4117 32.050

Floating holders VDI DIN 69880-1 with ER collet chuck holder

Article no. **4116**

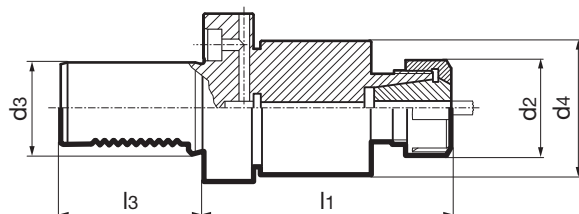


Product information:

- VDI shank holder with teeth
- suitable for conventional and high-performance multi-fluted reamers, because of no angle compensation
- for the application of internally cooled reamers use metallic sealed collets type DM art. no. 4175
- with coolant supply max. 80 bar
- compensates lateral offset between tool and workpiece
- vibration-free compensation of concentricity and alignment errors
- radial compensation (4)

Scope of delivery:

- collet chucks art. No. 4175 or 4307 as well as clamping keys art. no. 4913
- other sizes and different radial compensation available on request



Article no.

4116

d3	Size	\varnothing -range mm	d2 mm	d4 mm	l1 mm	l3 mm	④	Order no.
VDI 30	ER25	2-16	42	59	109	55	0.08	4116 25.030
VDI 40	ER25	2-16	42	59	109	63	0.10	4116 25.040
VDI 40	ER32	3-20	50	64	116	63	0.10	4116 32.040
VDI 50	ER25	2-16	42	59	109	78	0.12	4116 25.050
VDI 50	ER32	3-20	50	64	116	78	0.12	4116 32.050



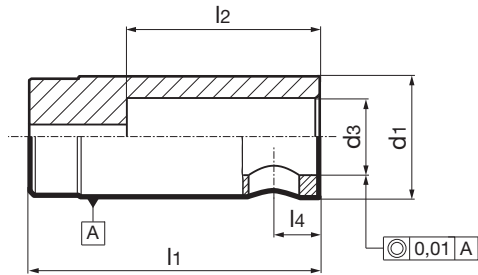
Reduction sleeves for floating holders

Article no. **4095**



Product information:

- for reducing the clamping diameter in floating holders
- central coolant supply
- drive surface on tool shank required
- applicable in floating holders art. no. 4167 and 4117
- for tool shanks d1 h6



Article no. **4095**

d1 mm	d3 mm	l1 mm	l2 mm	l4 mm	Order no.
20	14	50	40	9.5	4095 14.020
20	16	50	40	9.5	4095 16.020
25	16	60	40	9.5	4095 16.025
25	18	60	40	9.5	4095 18.025
25	20	60	50	9.5	4095 20.025
32	20	63	50	12.5	4095 20.032
32	25	63	60	12.5	4095 25.032

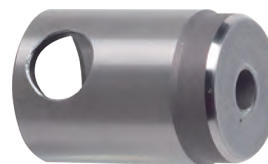
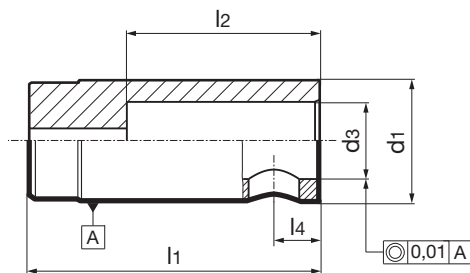
Reduction sleeves for short floating holders

Article no. **4096**



Product information:

- for reducing the clamping diameter in floating holders
- central coolant supply
- drive surface on tool shank required
- applicable in short floating holders art. no. 4169
- for tool shanks d1 h6



Article no. **4096**

d1 mm	d3 mm	l1 mm	l2 mm	l4 mm	Order no.
10	4	25	10	6.0	4096 4.010
10	6	25	10	6.0	4096 6.010
10	8	25	20	6.0	4096 8.010
16	10	29	25	7.0	4096 10.016
16	12	29	25	7.0	4096 12.016
20	12	29	25	7.0	4096 12.020
20	14	29	25	7.0	4096 14.020
20	16	29	25	7.0	4096 16.020

Holdings fine machining



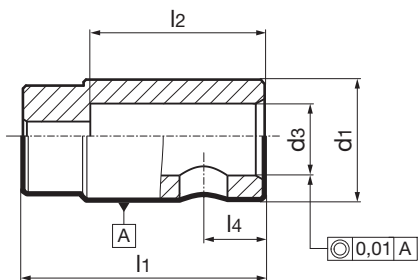
Reduction sleeves for mini floating holders

Article no. **4097**



Product information:

- for reducing the clamping diameter in floating holders
- central coolant supply
- drive surface on tool shank required
- applicable in mini floating holders art. no. 4174



Article no.

4097

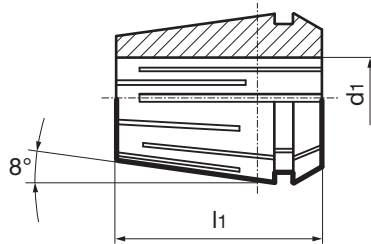
d1 mm	d3 mm	l1 mm	l2 mm	l4 mm
10	4	20	15	5.0
10	6	20	15	5.0
10	8	20	15	5.0

Order no.
4097 4.010
4097 6.010
4097 8.010


Collet holders ER metallic sealed

 Article no. **4175**
Product information:

- DIN ISO 15488
- for application without sealing washer
- concentricity < 6 µm
- for high-performance tools with internal cooling e.g. HR 500 reamers
- clamping force tester for SK/BT/CAT clamping systems in machine tool spindles
- metallic sealing up to coolant pressure of 300 bar
- ER-DM collets with restricted clamping range
- The tool must be clamped at least flush or deeper in the collet. A minimum clamping length of 2/3, as for standard collets, is not possible otherwise there would be no seal.



Article no.

4175

Size	d1 h9	l1 mm	Order no.
ER20	3.00	31.5	4175 3.020
ER20	4.00	31.5	4175 4.020
ER20	5.00	31.5	4175 5.020
ER20	6.00	31.5	4175 6.020
ER20	7.00-6.50	31.5	4175 7.020
ER20	8.00-7.50	31.5	4175 8.020
ER20	9.00-8.50	31.5	4175 9.020
ER20	10.00-9.50	31.5	4175 10.020
ER20	11.00-10.50	31.5	4175 11.020
ER20	12.00-11.50	31.5	4175 12.020
ER20	13.00-12.50	31.5	4175 13.020
ER25	6.00	34.0	4175 6.025
ER25	8.00-7.50	34.0	4175 8.025
ER25	10.00-9.50	34.0	4175 10.025
ER25	12.00-11.50	34.0	4175 12.025
ER25	14.00-13.50	34.0	4175 14.025
ER25	16.00-15.50	34.0	4175 16.025
ER32	6.00	40.0	4175 6.032
ER32	8.00-7.50	40.0	4175 8.032
ER32	10.00-9.50	40.0	4175 10.032
ER32	12.00-11.50	40.0	4175 12.032
ER32	14.00-13.50	40.0	4175 14.032
ER32	16.00-15.50	40.0	4175 16.032
ER32	18.00-17.50	40.0	4175 18.032
ER32	20.00-19.50	40.0	4175 20.032

Holders fine machining

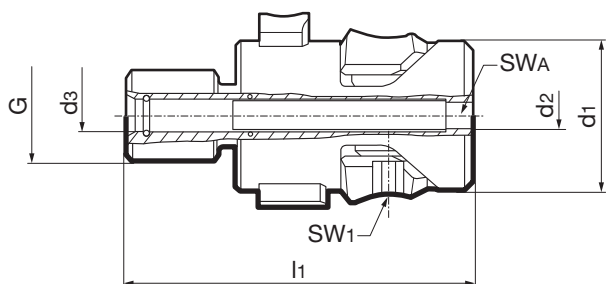


Product information:

- for radial manual HSK tool clamping
- universal application for MQL and high-pressure IC
- the central and coaxial MQL supply with constant internal diameter prevents coolant from consolidating to DIN 69090-2
- for a coolant pressure up to 160 bar
- for clamping HSK-A/C shanks to ISO 12164-1/DIN 69893

Scope of delivery:

- complete as shown in illustration
- installation and operating instructions



Article no.

4930

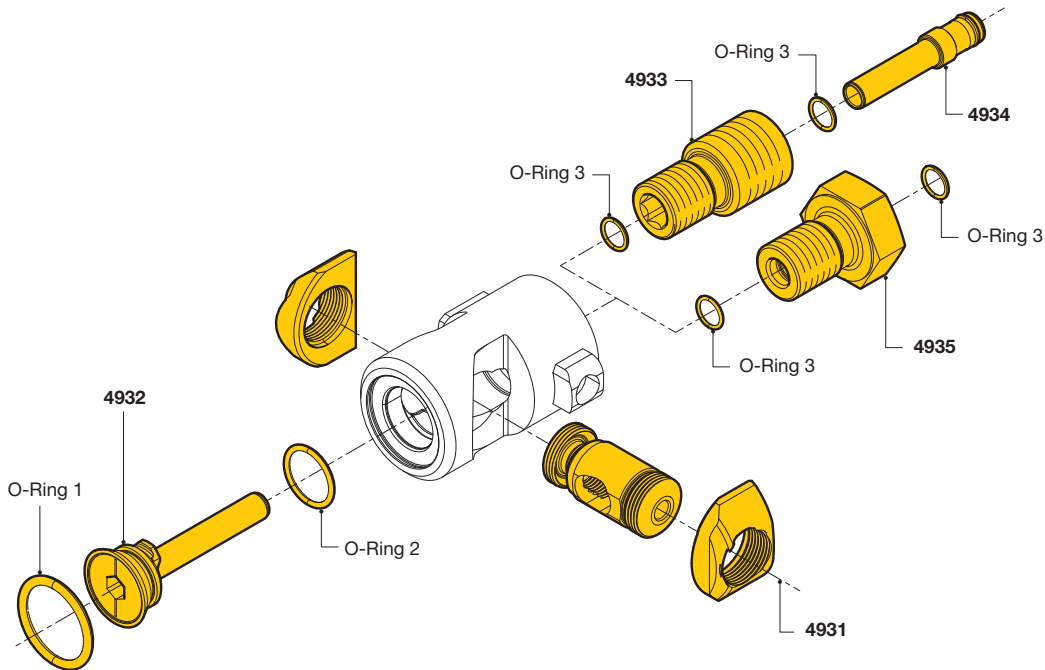
Size	d1 mm	d2 mm	d3 mm	l1 mm	G	SW1 mm	SWA mm	Order no.
HSK-32	16.7	3	4.100	41.75	M10	2.5	3.0	4930 24.100
HSK-40	20.6	4	5.100	43.90	M12	3.0	4.0	4930 30.100
HSK-50	25.5	5	7.100	54.20	M16	4.0	5.0	4930 38.100
HSK-50	25.5	5	6.100	54.20	M16	4.0	5.0	4930 38.200
HSK-63	33.0	6	7.100	72.20	M20	5.0	6.0	4930 48.100
HSK-80	41.0	8	10.100	90.20	M24	6.0	8.0	4930 60.100
HSK-100	52.0	10	12.100	107.10	M24	8.0	10.0	4930 75.100



GÜHROCLAMP fittings for MQL 4-point clamping sets, art. no. 4930

Product information:

- retention screw only for adaptor
- if spindle cannot be locked, please use torque socket art. no. 4963
- spindle with clamping segments, art. no. 4931
- ejector with pipe, art. no. 4932



Size	Article no.	Order no.	
		4931	4932
HSK-32	4931 24.000	4932 24.100	
HSK-40	4931 30.000	4932 30.100	
HSK-50	4931 38.000	4932 38.100	
HSK-63	4931 48.000	4932 48.100	
HSK-80	4931 60.000	4932 60.100	
HSK-100	4931 75.000	4932 75.100	



Retention spindles for GÜHROCLAMP MQL 4-point clamp. sets

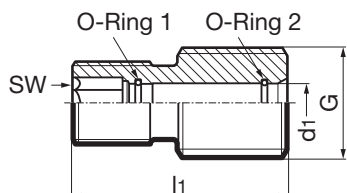
Article no. **4933**

Product information:

- retention spindle for direct installation in spindle

Scope of delivery:

- complete as shown in illustration



Article no. **4933**

Size	d1 mm	l1 mm	G	SW mm	Order no.
HSK-32	4.1	22.50	M10	4.0	4933 24.100
HSK-40	5.1	23.00	M12	5.0	4933 30.100
HSK-50	7.1	27.00	M16	6.0	4933 38.100
HSK-50	6.1	27.00	M16	6.0	4933 38.200
HSK-63	7.1	39.00	M20	8.0	4933 48.100
HSK-80	10.1	50.00	M24	10.0	4933 60.100
HSK-100	12.1	60.00	M24	12.0	4933 75.100

Adaptor for GÜHROCLAMP MQL 4-point clamping sets

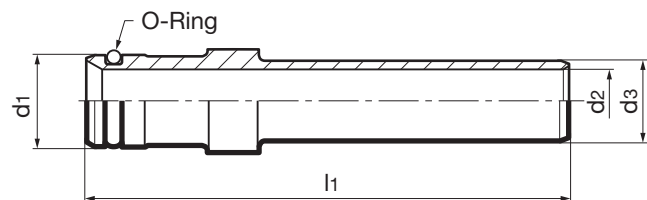
Article no. **4934**

Product information:

- adaptor for direct installation in spindle and spindle adaptor (integrated) for coolant supply and sealing

Scope of delivery:

- complete as shown in illustration



Article no. **4934**

Size	d1 mm	d2 mm	d3 mm	l1 mm	Order no.
HSK-32	4.0	2.0	4.0	14	4934 24.100
HSK-40	5.0	3.0	5.0	28	4934 30.100
HSK-50	6.0	4.0	7.0	28	4934 38.100
HSK-50	6.0	4.0	6.0	28	4934 38.200
HSK-63	8.0	5.5	7.0	42	4934 48.100
HSK-80	10.2	7.5	10.0	56	4934 60.100
HSK-100	12.0	9.5	12.0	60	4934 75.100



Retention screw for GÜHROCLAMP MQL 4-point clamping sets

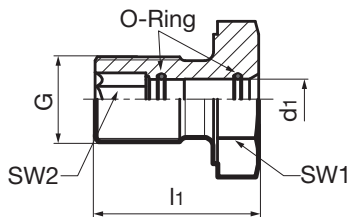
Article no. **4935**

Product information:

- necessary for installation of MQL 4-point clamping set in spindle adaptors and module adaptor flange art. no. 4363, 4386, 4387 and 4713
- change against standard retention bolt
- clamping set replacement possible with internal hexagon, without flange disassembly of machine spindle

Scope of delivery:

- complete as shown in illustration



Article no. **4935**

Size	d1 mm	G	l1 mm	SW1 mm	SW2 mm	Mt max. Nm	Order no.
HSK-32	4.1	M 8 X0.75	23.5	13	4	14	4935 24.100
HSK-40	5.1	M10 X1	21.0	16	5	30	4935 30.100
HSK-50	7.1	M12 X1	25.0	18	6	60	4935 38.100
HSK-50	6.1	M12 X1	25.0	18	6	60	4935 38.200
HSK-63	7.1	M15 X1	29.0	24	8	110	4935 48.100
HSK-80	10.1	M18 X1.5	36.0	24	10	180	4935 60.100
HSK-100	12.1	M22 X1.5	46.5	32	12	200	4935 75.100

M contour clamping sets for MQL and IC

Article no. **4615**

Product information:

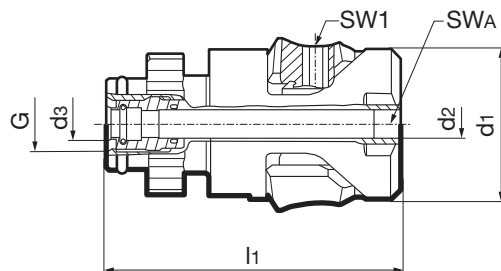
- for clamping HSK-A/C shanks to ISO 12164-1/DIN 69893
- the central and coaxial MQL supply with constant internal diameter prevents coolant from consolidating to DIN 69090-2
- for radial manual HSK tool clamping
- HSK clamping sets compatible with M contour spindles and adaptors
- universal application for MQL and high-pressure IC
- for a coolant pressure up to 160 bar
- spindle connection dimensions available on request

Scope of delivery:

- incl. adaptor with through hole for uninterrupted coolant supply
- including installation and operating instructions

Suitable accessories separately available:

- adaptor with pin, art. no. 4616



Article no. **4615**

Size	d1 mm	d2 mm	d3 mm	l1 mm	G	SW1 mm	SWA mm	Order no.
HSK-32	16.7	3.0	4.100	43.4	M8 x 1	2.5	3.0	4615 24.000
HSK-40	20.6	4.0	5.100	48.3	M10X1	3.0	4.0	4615 30.000
HSK-50	22.5	5.0	6.100	55.3	M12X1	4.0	5.0	4615 38.000
HSK-50	25.5	5.0	7.100	55.3	M12X1	4.0	5.0	4615 38.100
HSK-63	33.0	6.0	7.100	64.7	M12X1	5.0	6.0	4615 48.000
HSK-80	41.0	8.0	10.100	75.3	M16X1	6.0	8.0	4615 60.000
HSK-100	52.0	10.0	12.100	94.5	M18X1	8.0	10.0	4615 75.000

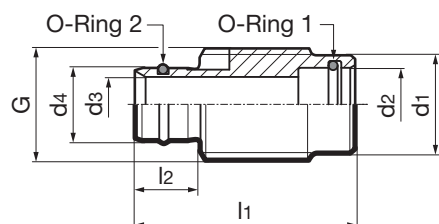


Adaptor with spigot transition for M contour clamping set

Article no. **4616**

Product information:

- application on M contour clamping sets art. no. 4615 instead of adaptor with coolant transfer hole
- adaptor for spindles without coolant tube for uninterrupted coolant supply
- universal application for MQL and high-pressure IC
- for a coolant pressure up to 160 bar
- spindle connection dimensions available on request



Article no. **4616**

Size	d1 mm	d2 mm	d3 mm	d4 mm	l1 mm	l2 mm	G	Order no.
HSK-C 32		3.5	3	5.0	14.4	5.4	M8 x 1	4616 24.000
HSK-C 40	7.7	4.5	4	6.0	22.0	6.5	M10 X1	4616 30.000
HSK-C 50	8.5	5.5	5	8.0	23.0	7.5	M12 X1	4616 38.000
HSK-C 63	10.6	7.0	6	8.0	24.0	7.0	M12 X1	4616 48.000
HSK-C 80		10.0	8	11.3	23.3	8.3	M16 x 1	4616 60.000
HSK-C 100		12.0	10	13.8	30.6	9.6	M18 x 1	4616 75.000

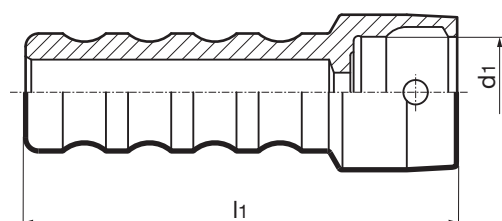
Assembly/disassembly tool for M contour clamping sets

Article no. **4624**

Product information:

- for the assembly and disassembly of M contour clamping sets art. no. 4615

HSK clamping technology



Article no. **4624**

Size	d1 mm	l1 mm	Order no.
HSK 32	17	118.7	4624 32.000
HSK 40	21	121.6	4624 40.000
HSK 50	26	127.5	4624 50.000
HSK 63	34	132.0	4624 63.000
HSK 80	42	143.0	4624 80.000
HSK 100	53	152.0	4624 100.000

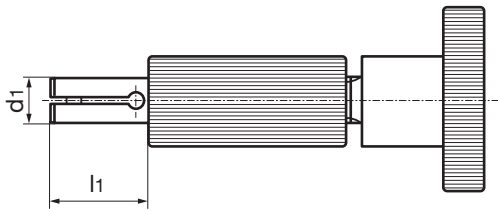


Assembly/disassembly tool for MQL and M-contour clamping sets

Article no. **4986**

Product information:

- for assembling and disassembling ejectors for MQL clamping sets, art. no. 4930, and M-contour clamping sets, art. no. 4615



Article no.

4986

Size	d1 mm	l1 mm	Order no.
HSK 32	3	9	4986 3.032
HSK 40	4	9	4986 4.040
HSK 50	5	11	4986 5.050
HSK 63	6	12	4986 6.063
HSK 80	8	15	4986 8.080
HSK 100	10	15	4986 10.100

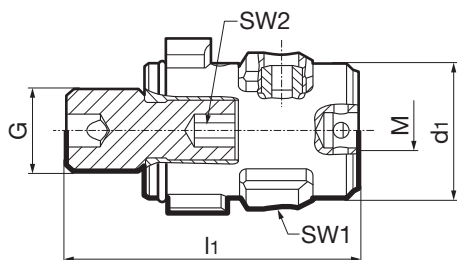


Product information:

- for clamping HSK-A/C shanks to ISO 12164-1/DIN 69893
- for radial manual HSK tool clamping
- for a coolant pressure up to 80 bar

Scope of delivery:

- including installation and operating instructions



Article no.

4958

Size	d1 mm	l1 mm	G	M	SW1 mm	SW2 mm	Order no.
HSK-C 25	13.8	30.30	M8	M4	2.5	3.0	4958 19.000
HSK-C 32	16.7	35.75	M10	M5	2.5	4.0	4958 24.000
HSK-C 40	20.6	43.70	M12	M6	3.0	5.0	4958 30.000
HSK-C 50	25.5	53.70	M16	M8	4.0	6.0	4958 38.000
HSK-C 63	33.0	71.20	M20	M10	5.0	8.0	4958 48.000
HSK-C 80	41.0	90.10	M24	M12	6.0	10.0	4958 60.000

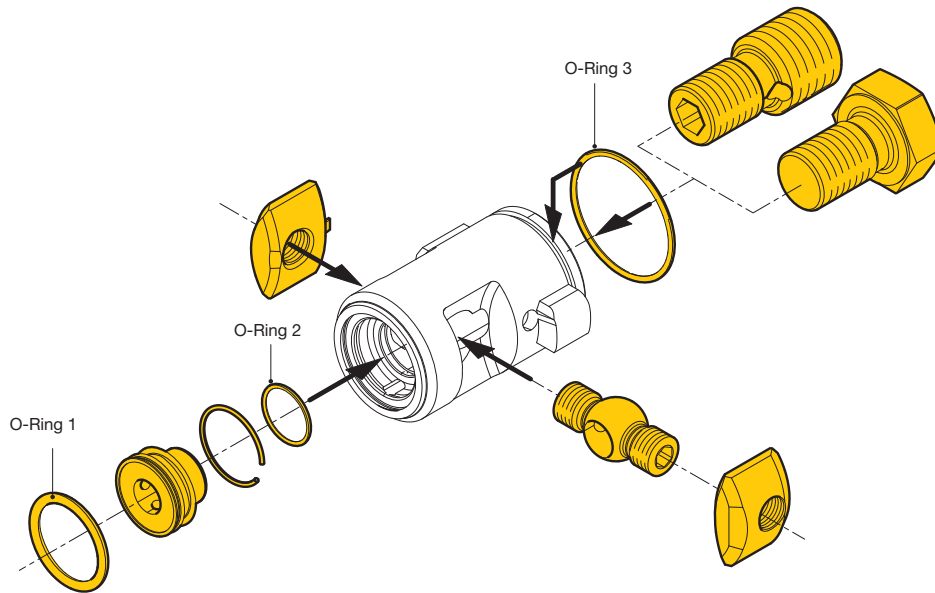


Component parts f. 4-point clamp. set art. no. 4958, set



Product information:

- 6-piece spare parts set, consisting of:
 - Clamping segment set
 - Threaded spindle for clamping segment set
 - Mounting spindle for 4-point clamping sets, art. no. 4958
 - Ejector set consisting of ejector, snap ring and o ring
 - Fixing screw for flange, art. no. 4386 and art. no. 4387



Article no.	4959
Order no.	
	4959 19.000
	4959 24.000
	4959 30.000
	4959 38.000
	4959 48.000
	4959 60.000

Size
HSK-C 25
HSK-C 32
HSK-C 40
HSK-C 50
HSK-C 63
HSK-C 80



HSK spindle adaptors (in front)

Article no. **4386**



Product information:

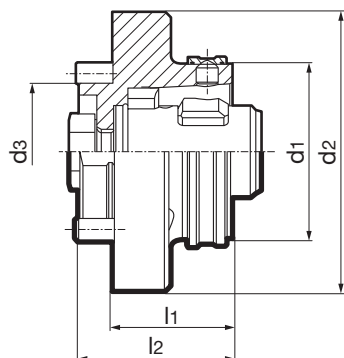
- for holding HSK-A/C shanks according to ISO 12164-1/DIN 69893
- radially alignable
- for the transferable torsional moment the interface between spindle and flange has to be taken into consideration

Scope of delivery:

- incl. clamping set art. no. 4958 for conventional cooling
- incl. brass lock ring art. no. 4953
- incl. indexing pin and retention screws

Suitable accessories separately available:

- order for MQL application art. no. 4713



Article no. **4386**

d1	d2 mm	d3 mm	l1 mm	l2 mm	SW mm	Order no.
HSK-C 25	45	23	20	28	2.5	4386 19.000
HSK-C 32	60	30	26	36	2.5	4386 24.000
HSK-C 40	70	35	30	40	3.0	4386 30.000
HSK-C 50	80	40	35	45	4.0	4386 38.000
HSK-C 63	100	50	43	55	5.0	4386 48.000
HSK-C 80	117	60	50	62	6.0	4386 60.000

Module 4x4 HSK adaptor flanges

Article no. **4713**

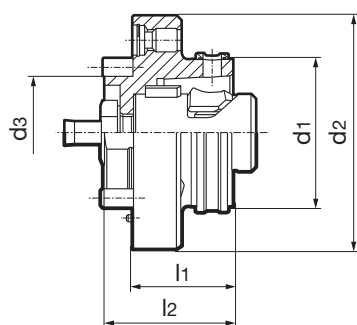


Product information:

- for holding HSK-A/C shanks according to ISO 12164-1/DIN 69893
- for the highly accurate radial and axial alignment on alignment adaptors or machine spindles
- suitable for MQL and conventional cooling
- for the transferable torsional moment the interface between spindle and flange has to be taken into consideration

Scope of delivery:

- incl. MQL 4-point clamping set art. no. 4930
- incl. retention screw art. no. 4935
- incl. brass lock ring art. no. 4953
- incl. 4 angle alignment units, art. no. 4715
- incl. 4 clamping screws
- incl. adaptor sleeve (1), art. no. 4716



Article no. **4713**

d1	d2 mm	d3 mm	l1 mm	l2 mm	①	Order no.
HSK-C 32	60	30	26	36	4716 24.060	4713 24.060
HSK-C 40	70	35	30	40	4716 30.070	4713 30.070
HSK-C 50	80	40	35	45	4716 238.080	4713 38.080
HSK-C 63	100	50	43	55	4716 48.100	4713 48.100
HSK-C 80	117	60	50	62	4716 60.117	4713 60.117
HSK-C 100	140	80	75	87	4716 75.140	4713 75.140



Spindle mounting flange HSK

Article no. **4385**



Product information:

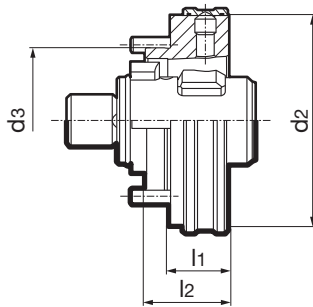
- for holding HSK-A/C shanks according to ISO 12164-1/DIN 69893
- radially alignable
- for the transferable torsional moment the interface between spindle and flange has to be taken into consideration

Scope of delivery:

- incl. clamping set, art. no. 4958, for conventional cooling (for nominal size 100, art. no. 4930)
- incl. brass lock ring art. no. 4953
- incl. indexing pin and retention screws

Suitable accessories separately available:

- for MQL version, order no. 4385 xx.100



Article no.

4385

for	d2 mm	d3 mm	l1 mm	l2 mm	SW mm	Order no.
HSK-C 32	40	27	12	16	2.5	4385 24.000
HSK-C 32	40	27	12	16	2.5	4385 24.100
HSK-C 40	50	33	15	20	3.0	4385 30.000
HSK-C 40	50	33	15	20	3.0	4385 30.100
HSK-C 50	63	42	17	25	4.0	4385 38.000
HSK-C 50	63	42	17	25	4.0	4385 38.100
HSK-C 63	80	55	22	32	5.0	4385 48.000
HSK-C 63	80	55	22	32	5.0	4385 48.100
HSK-C 80	100	68	27	40	6.0	4385 60.000
HSK-C 80	100	68	27	40	6.0	4385 60.100
HSK-C 100	125	88	30	50	8.0	4385 75.000

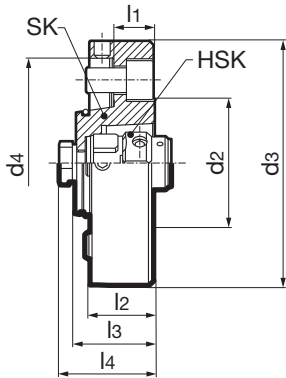


Product information:

- for the conversion of SK to HSK-A/C interfaces to ISO 12163-1/DIN 69893-1
- radially alignable

Scope of delivery:

- incl. clamping set art. no. 4958 for conventional cooling
- incl. retention screws



Article no.

4387

for	for	d2 mm	d3 mm	d4 mm	l1 mm	l2 mm	l3 mm	l4 mm	SW mm
SK 30	HSK-C 40	50	85	69.83	25	35	37.0	39.0	3
SK 40	HSK-C 50	63	100	88.88	20	30	39.5	41.5	4
SK 50	HSK-C 63	80	150	128.57	25	40	48.5	50.5	5
SK 50	HSK-C 80	100	150	128.57	40	55	61.1	63.1	6

Order no.

4387 30.030

4387 40.038

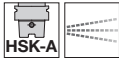
4387 50.048

4387 50.060



HSK-A/HSK-C reductions

Article no. **4355**

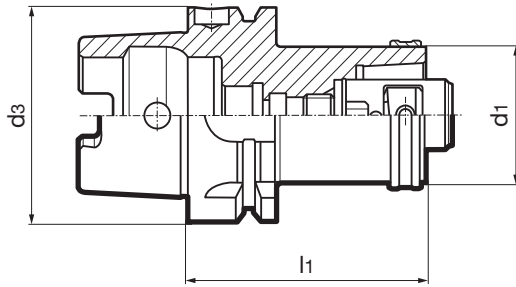


Product information:

- HSK-C according to ISO 12164-1/DIN 69893-1
- for holding HSK-A/C shanks according to ISO 12164-1/DIN 69893

Scope of delivery:

- incl. clamping set art. no. 4958 for conventional cooling
- incl. brass lock ring art. no. 4953



Article no. **4355**

d3	d1 mm	l1 mm	SW mm	Order no.
HSK-A 40	32	60	2.5	4355 32.040
HSK-A 50	32	60	2.5	4355 32.050
HSK-A 50	40	70	3.0	4355 40.050
HSK-A 63	50	80	4.0	4355 50.063
HSK-A 63	32	60	2.5	4355 32.063
HSK-A 63	40	70	3.0	4355 40.063
HSK-A 80	63	100	5.0	4355 63.080
HSK-A 80	50	90	4.0	4355 50.080
HSK-A 100	63	100	5.0	4355 63.100
HSK-A 100	50	90	4.0	4355 50.100
HSK-A 100	80	120	6.0	4355 80.100



Extensions HSK-A/HSK-C with MQL 4-point clamping set

Article no. **4350**



Product information:

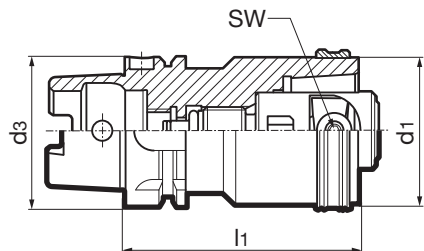
- HSK-A according to ISO 12164-1 / DIN 69893-1
- for holding HSK-A/C shanks according to ISO 12164-1/DIN 69893
- for MQL 1 systems

Scope of delivery:

- incl. MQL 4-point clamping set art. no. 4930 and adaptor for extensions
- incl. brass lock ring art. no. 4953

Suitable accessories separately available:

- coolant transfer set, art. no. 4949
- order MQL coolant transfer set separately:
 - for automatic tool change cycle, art. no . 4939 (for HSK32 art. no . 4508), for manual tool change cycle, art. no . 4940 (for HSK32 art. no. 4513)

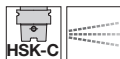


Article no. **4350**

d1 / d3	l1 mm	SW mm	Order no.
HSK-A 32	60	2.5	4350 60.032
HSK-A 40	80	3.0	4350 80.040
HSK-A 50	80	4.0	4350 80.050
HSK-A 50	100	4.0	4350 100.050
HSK-A 63	100	5.0	4350 100.063
HSK-A 63	140	5.0	4350 140.063
HSK-A 80	120	6.0	4350 120.080
HSK-A 80	160	6.0	4350 160.080
HSK-A 100	140	8.0	4350 140.100

Extensions HSK-C

Article no. **4351**



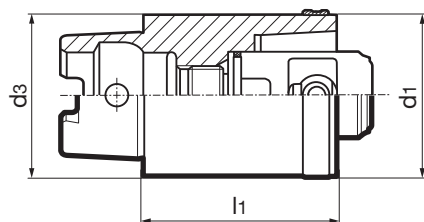
Product information:

- HSK-C according to ISO 12164-1/DIN 69893-1
- for holding HSK-A/C shanks according to ISO 12164-1/DIN 69893

Scope of delivery:

- incl. clamping set art. no. 4958 for conventional cooling
- incl. brass lock ring art. no. 4953

HSK clamping technology



Article no. **4351**

d1 / d3	l1 mm	SW mm	Order no.
HSK-C 25	40	2.5	4351 40.025
HSK-C 32	40	2.5	4351 40.032
HSK-C 40	50	3.0	4351 50.040
HSK-C 50	60	4.0	4351 60.050
HSK-C 63	80	5.0	4351 80.063

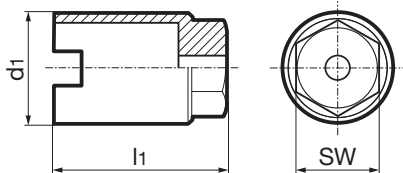


Torque supports

Article no. **4963**

Product information:

- for the installation of 4-point clamping sets, if there are difficulties locking the spindle



Article no. **4963**

for	d1 mm	l1 mm	SW mm	Order no.
HSK 25	17.5	25	15.0	4963 19.000
HSK 32	22.5	32	17.0	4963 24.000
HSK 40	28.0	40	19.0	4963 30.000
HSK 50	36.0	50	24.0	4963 38.000
HSK 63	45.0	60	30.0	4963 48.000
HSK 80	56.0	80	36.0	4963 60.000
HSK 100	70.0	95	36.0	4963 75.000



PowerClamp sets

Article no. **4554**



Product information:

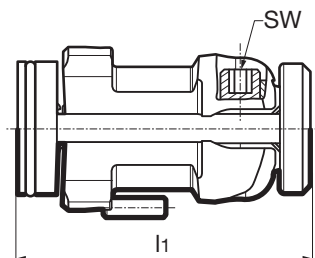
- for clamping HSK-A/C shanks to ISO 12164-1/DIN 69893
- for a coolant pressure up to 80 bar
- The internal coolant supply is via the cage. It is floating mounted and ensures a coolant seal above 6 bar pressure.
- clamping sets are not suitable for MQL

Scope of delivery:

- including installation and operating instructions
- incl. threaded pin art. no. 4551

Suitable accessories separately available:

- hexagonal key art. no. 4912
- compression spring and threaded pin for art. no. 4551
- threaded spindle, art. no. 4555
- clamping nut set, art. no. 4557
- O-ring 1 & O-ring 2 available on request



Article no. **4554**

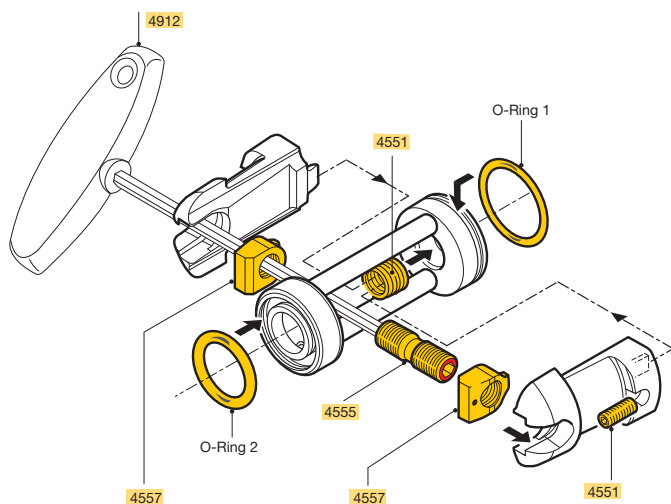
Size	l1 mm	SW mm	Order no.
HSK-C 25	32.1	2.0	4554 19.000
HSK-C 32	41.6	2.5	4554 24.000
HSK-C 40	49.7	3.0	4554 30.000
HSK-C 50	62.2	4.0	4554 38.000
HSK-C 63	74.1	5.0	4554 48.000
HSK-C 80	96.1	6.0	4554 60.000
HSK-C 100	117.0	8.0	4554 75.000



Component parts for PowerClamp sets art. no. 4554

Product information:

- consisting of:
 - Clamping nut set, art. no. 4557
 - Threaded spindle, art. no. 4555
 - Compression spring and threaded pin, art. no. 4551



	Article no.	4557	4555	4551
Size			Order no.	
HSK-C 25		4557 1.019	4555 2.019	4551 3.019
HSK-C 32		4557 1.024	4555 2.024	4551 3.024
HSK-C 40		4557 1.030	4555 2.030	4551 3.030
HSK-C 50		4557 1.038	4555 2.038	4551 3.038
HSK-C 63		4557 1.048	4555 2.048	4551 3.048
HSK-C 80		4557 1.060	4555 2.060	4551 3.060
HSK-C 100		4557 1.075	4555 2.075	4551 3.075



HSK spindle adaptors (in front)

Article no. **4581**



Product information:

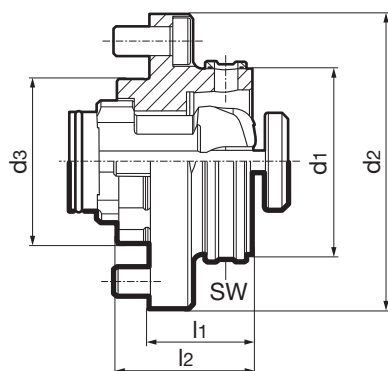
- for holding HSK-A/C shanks according to ISO 12164-1/DIN 69893
- for conventional cooling from 6 to max. 80 bar
- radially alignable
- for the transferable torsional moment the interface between spindle and flange has to be taken into consideration

Scope of delivery:

- incl. clamping set, art. no. 4554
- incl. brass lock ring art. no. 4953
- incl. indexing pin and retention screws

Suitable accessories separately available:

- hexagonal key art. no. 4912



Article no.

4581

d1	d2 mm	d3 mm	l1 mm	l2 mm	SW mm	Order no.
HSK-C 25	45	23	20.0	26.5	2.0	4581 19.000
HSK-C 32	55	28	17.5	23.0	2.5	4581 24.000
HSK-C 40	63	36	22.5	29.0	3.0	4581 30.000
HSK-C 50	80	46	27.5	36.0	4.0	4581 38.000
HSK-C 63	100	56	35.0	46.0	5.0	4581 48.000
HSK-C 80	125	66	45.0	58.0	6.0	4581 60.000
HSK-C 100	160	86	57.0	72.0	8.0	4581 75.000



HSK spindle adaptors (in front)

Article no. **4586**



Product information:

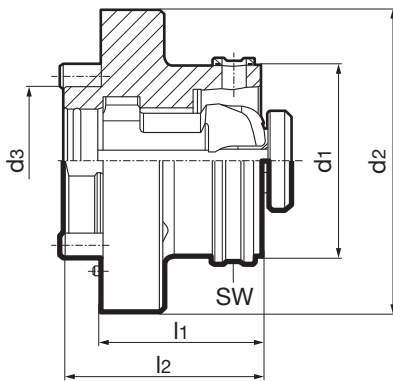
- for holding HSK-A/C shanks according to ISO 12164-1/DIN 69893
- for conventional cooling from 6 to max. 80 bar
- radially alignable
- for the transferable torsional moment the interface between spindle and flange has to be taken into consideration

Scope of delivery:

- incl. clamping set, art. no. 4554
- incl. brass lock ring art. no. 4953
- incl. indexing pin and retention screws

Suitable accessories separately available:

- hexagonal key art. no. 4912



Article no.

4586

d1	d2 mm	d3 mm	l1 mm	l2 mm	SW mm	Order no.
HSK-C 40	70	35	32.5	42.5	3	4586 30.000
HSK-C 50	80	40	43.0	53.0	4	4586 38.000
HSK-C 63	100	50	53.0	65.0	5	4586 48.000
HSK-C 80	117	60	73.0	85.0	6	4586 60.000
HSK-C 100	140	80	94.0	106.0	8	4586 75.000



HSK adaptors for turning centres

Article no. 4582



Product information:

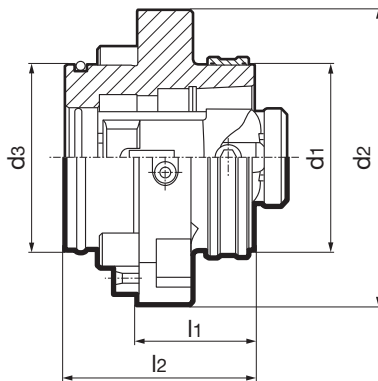
- for holding HSK-A/C shanks according to ISO 12164-1/DIN 69893
- incl. setting element to eliminate drive play with vertical tools
- for fixed tools
- for conventional cooling from 6 to max. 80 bar
- for the transferable torsional moment the interface between spindle and flange has to be taken into consideration

Scope of delivery:

- incl. clamping set, art. no. 4554
- incl. indexing pin and retention screws
- incl. brass lock ring art. no. 4953

Suitable accessories separately available:

- hexagonal key art. no. 4912



Article no.

4582

d1	d2	d3	l1	l2	SW	Order no.
mm	mm	mm	mm	mm	mm	
HSK-C 50	84	50	35	55.0	4	4582 38.100
HSK-C 50	84	50	35	55.0	4	4582 38.200
HSK-C 63	100	63	40	64.5	5	4582 48.100
HSK-C 63	100	63	40	64.5	5	4582 48.200

Spindle mounting flange HSK

Article no. 4584



Product information:

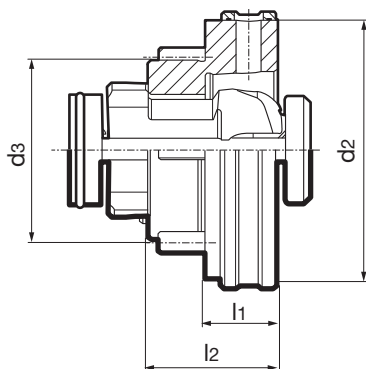
- for holding HSK-A/C shanks according to ISO 12164-1/DIN 69893
- with larger axial plane
- for conventional cooling from 6 to max. 80 bar
- radially alignable
- for the transferable torsional moment the interface between spindle and flange has to be taken into consideration

Scope of delivery:

- incl. clamping set, art. no. 4554
- incl. brass lock ring art. no. 4953
- incl. threaded pin art. no. 4551 and tensioning screws

Suitable accessories separately available:

- hexagonal key art. no. 4912



Article no.

4584

for	d2	d3	l1	l2	SW	Order no.
	mm	mm	mm	mm	mm	
HSK-C 32	40	27	12.5	21.10	2.5	4584 24.000
HSK-C 40	50	33	15.0	25.70	3.0	4584 30.000
HSK-C 50	63	42	17.5	32.10	4.0	4584 38.000
HSK-C 63	80	55	22.5	40.05	5.0	4584 48.000
HSK-C 80	100	68	27.5	51.40	6.0	4584 60.000
HSK-C 100	125	88	30.0	64.00	8.0	4584 75.000



SK / HSK-C basic adaptors

Article no. 4512



Product information:

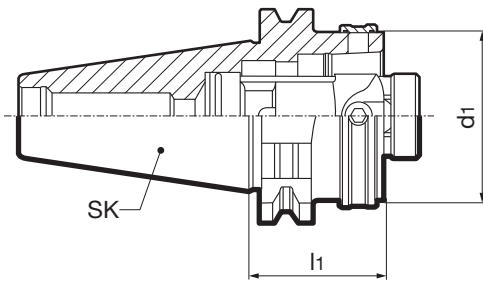
- ISO taper to DIN ISO 7388-1 form AD
- for conventional cooling from 6 to max. 80 bar
- for holding HSK-A/C shanks according to ISO 12164-1/DIN 69893
- code no. 50, 100 only for presetting device (observe load limit SK50)
- form AF on request

Scope of delivery:

- incl. clamping set, art. no. 4554
- incl. brass lock ring art. no. 4953

Suitable accessories separately available:

- hexagonal key art. no. 4912
- ISO pull studs art. no. 4925, 4926



Article no. 4512

SK	d1	l1 mm	SW mm	Order no.
SK 40	HSK-C 32	40	2.5	4512 40.032
SK 40	HSK-C 40	40	3.0	4512 40.040
SK 40	HSK-C 50	40	4.0	4512 40.050
SK 40	HSK-C 63	70	5.0	4512 40.063
SK 50	HSK-C 32	40	2.5	4512 50.032
SK 50	HSK-C 40	40	3.0	4512 50.040
SK 50	HSK-C 50	40	4.0	4512 50.050
SK 50	HSK-C 63	40	5.0	4512 50.063
SK 50	HSK-C 80	70	6.0	4512 50.080
SK 50	HSK-C 100	100	8.0	4512 50.100



MAS/BT / HSK-C basic adaptors

Article no. **4514**



Product information:

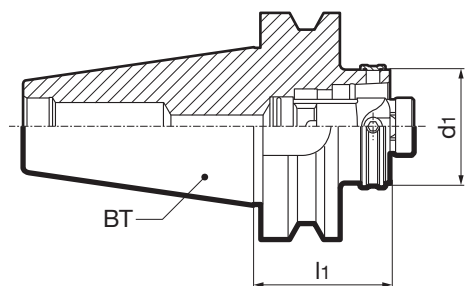
- MAS/BT to DIN ISO 7388-2 form JD
- for holding HSK-A/C shanks according to ISO 12164-1/DIN 69893
- for conventional cooling from 6 to max. 80 bar

Scope of delivery:

- incl. clamping set, art. no. 4554
- incl. brass lock ring art. no. 4953

Suitable accessories separately available:

- hexagonal key art. no. 4912
- BT pull studs art. nr. 4927, 4928



Article no. **4514**

BT	d1	l1 mm	SW mm	Order no.
BT 40	HSK-C 40	40	3.0	4514 40.040
BT 40	HSK-C 50	40	4.0	4514 40.050
BT 40	HSK-C 63	80	5.0	4514 40.063
BT 50	HSK-C 40	50	3.0	4514 50.040
BT 50	HSK-C 50	60	4.0	4514 50.050
BT 50	HSK-C 63	60	5.0	4514 50.063

CAT / HSK-C basic adaptors

Article no. **4003**



Product information:

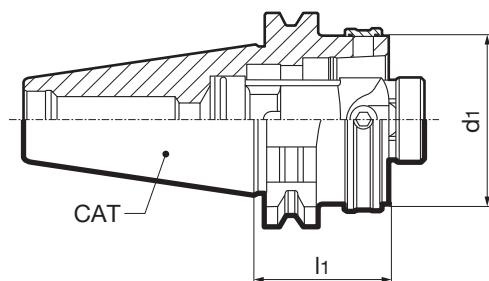
- ANSI/CAT according to ASME B5.50
- for conventional cooling lubrication

Scope of delivery:

- clamping set
- incl. clamping set, art. no. 4554
- incl. brass lock ring art. no. 4953

Suitable accessories separately available:

- hexagonal key art. no. 4912
- CAT pull studs on request



Article no. **4003**

CAT	d1	l1 mm	SW mm	Order no.
CAT 40	HSK-C 63	75	5	4003 40.063
CAT 50	HSK-C 63	75	5	4003 50.063



Extensions HSK-A/HSK-C

Article no. **4549**



Product information:

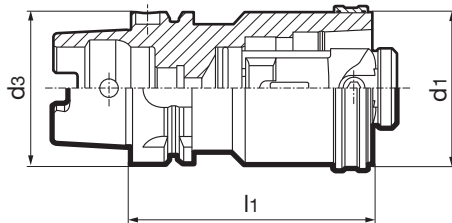
- HSK-A according to ISO 12164-1 / DIN 69893-1
- for holding HSK-A/C shanks according to ISO 12164-1/DIN 69893
- for conventional cooling from 6 to max. 80 bar

Scope of delivery:

- incl. clamping set, art. no. 4554
- incl. brass lock ring art. no. 4953

Suitable accessories separately available:

- coolant supply set art. no. 4949
- use art. no. 4350 for MQL machining



Article no. **4549**

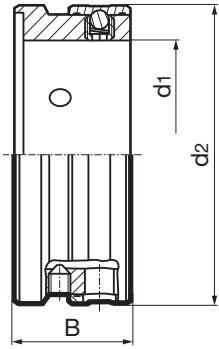
d1 / d3	l1 mm	SW mm	Order no.
HSK-A 32	60	2.5	4549 60.032
HSK-A 40	80	3.0	4549 80.040
HSK-A 50	80	4.0	4549 80.050
HSK-A 50	100	4.0	4549 100.050
HSK-A 63	100	5.0	4549 100.063
HSK-A 63	140	5.0	4549 140.063
HSK-A 80	120	6.0	4549 120.080
HSK-A 80	160	6.0	4549 160.080
HSK-A 100	140	8.0	4549 140.100
HSK-A 100	200	8.0	4549 200.100

**Product information:**

- for short spindles to DIN 69002-3

Scope of delivery:

- incl. clamping screws and brass locking ring



Article no.

4976

Size	d1 mm	1/min	d2 mm	B mm	Order no.
25X20	25.0	10000	35.0	15.7	4976 20.015
32X25	32.0	9000	42.5	19.7	4976 25.019
32X30	32.0	9000	43.5	19.7	4976 30.019
40X35	40.0	8000	54.0	21.7	4976 35.021
50X45	50.0	7000	68.0	24.7	4976 45.024
63X55	63.0	6000	82.0	31.7	4976 55.031



Brass locking rings

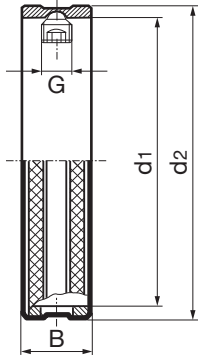
Article no. **4953**

Product information:

- the pressure ball screw must be secured with Loctite 222

Scope of delivery:

- incl. pressure ball screw (1), art. no. 4961



Article no.

4953

Size	d1 mm	d2 mm	B mm	G	①	Order no.
HSK-C 25	25	28.0	7	M 3.5	4961 3.500	4953 25.000
HSK-C 32	32	35.0	7	M 4	4961 4.000	4953 32.000
HSK-C 40	40	43.5	9	M 5	4961 5.000	4953 40.000
HSK-C 50	50	54.0	11	M 6	4961 6.000	4953 50.000
HSK-C 63	63	68.0	14	M 8	4961 8.000	4953 63.000
HSK-C 80	80	85.0	17	M10	4961 10.000	4953 80.000
HSK-C 100	100	105.0	23	M12	4961 12.000	4953 100.000
HSK-D 32	32	35.0	7	M 3.5	4961 3.500	4953 32.019
HSK-D 40	40	43.5	9	M 4	4961 4.000	4953 40.024
HSK-D 50	50	54.0	11	M 5	4961 5.000	4953 50.030
HSK-D 60	63	68.0	14	M 6	4961 6.000	4953 63.038
HSK-D 80	80	85.0	17	M 8	4961 8.000	4953 80.048
HSK-D 100	100	105.0	23	M10	4961 10.000	4953 100.060
HSK-D 125	125	130.0	23	M12	4961 12.000	4953 125.075

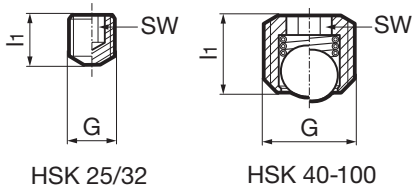


Pressure ball screws

Article no. **4961**

Product information:

- minimum order quantity 5 units



Article no. **4961**

for	l1 mm	G	SW mm	Order no.
HSK 25	3.4	M 3.5	2.0	4961 3.500
HSK 32	4.3	M 4	2.0	4961 4.000
HSK 32	4.0	M 4	2.0	4961 4.001
HSK 40	4.6	M 5	2.5	4961 5.000
HSK 50	5.4	M 6	3.0	4961 6.000
HSK 63	7.0	M 8	4.0	4961 8.000
HSK 80	9.2	M10	5.0	4961 10.000
HSK 100	11.4	M12	6.0	4961 12.000



Taper measuring gauge for HSK tool shanks

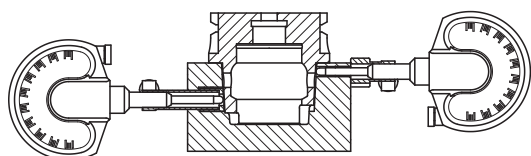
Article no. **4968**

Product information:

- calibration on request

Scope of delivery:

- incl. calibrated setting gauge and measuring instructions
- supplied in wooden case with inspection protocol



Article no. **4968**

	for	Order no.
	HSK 25	4968 19.100
	HSK 32	4968 24.100
	HSK 40	4968 30.100
	HSK 50	4968 38.100
	HSK 63	4968 48.100
	HSK 80	4968 60.100
	HSK 100	4968 75.100



Measuring gauges for HSK clamping shoulders

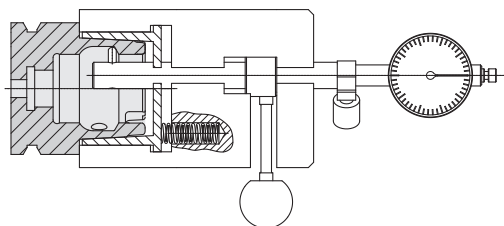
Article no. **4978**

Product information:

- calibration on request

Scope of delivery:

- incl. calibrated setting gauge and measuring instructions
- in plastic case with test report



Article no. **4978**

for	Order no.
HSK 25	4978 19.000
HSK 32	4978 24.000
HSK 40	4978 30.000
HSK 50	4978 38.000
HSK 63	4978 48.000
HSK 80	4978 60.000
HSK 100	4978 75.000



Measuring gauges for HSK spindles

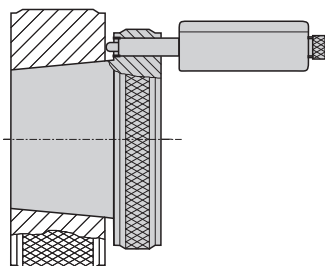
Article no. 4969

Product information:

- calibration on request

Scope of delivery:

- incl. calibrated setting gauge and measuring instructions
- supplied in a sturdy case with inspection protocol



Article no. **4969**

for	Order no.
HSK 25	4969 19.000
HSK 32	4969 24.000
HSK 40	4969 30.000
HSK 50	4969 38.000
HSK 63	4969 48.000
HSK 80	4969 60.000
HSK 100	4969 75.000



ISO taper proofing bars

Article no. **4970**



Product information:

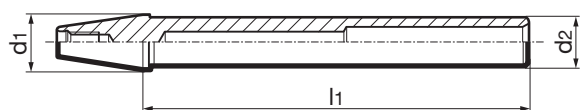
- ISO taper shank similar to DIN ISO 7388-1
- to proof concentricity at machine spindles
- further calibration on request

Scope of delivery:

- proofing arbor with test report in wooden box for vertical storage

Suitable accessories separately available:

- for BT shortened special tightening bolts, art. no. 4927, 4928



Article no. **4970**

d1	d2 mm	l1 mm	Order no.
SK 40	40	320	4970 300.040
SK 50	50	320	4970 300.050

HSK proofing bars

Article no. **4971**

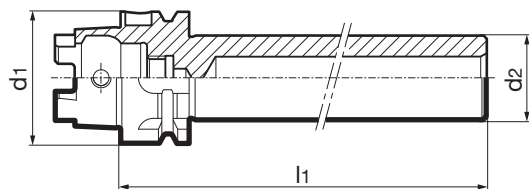


Product information:

- HSK-A shank with 4 equally deep slots 90° similar to ISO 12164-1/DIN 69893
- to proof concentricity at machine spindles
- further calibration on request

Scope of delivery:

- proofing arbor with test report in wooden box for vertical storage



Article no. **4971**

d1	d2 mm	l1 mm	Order no.
HSK-E 32	25	140	4971 125.025
HSK-E 32	32	180	4971 150.032
HSK-A 40	40	180	4971 150.040
HSK-A 50	50	236	4971 200.050
HSK-A 63	63	346	4971 300.063
HSK-A 80	80	346	4971 300.080
HSK-A 100	100	349	4971 300.100



Balancing masters for HSK spindles

Article no. 4975

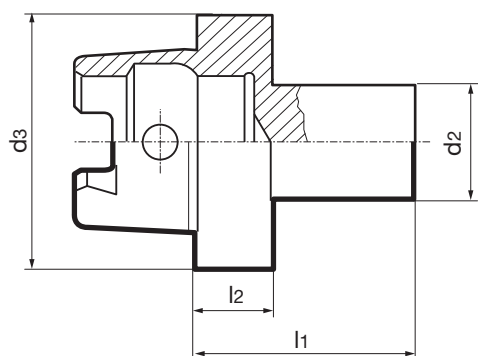


Product information:

- HSK-C according to ISO 12164-1/DIN 69893-1
- balancing quality: G 2.5 / 30,000 rpm or U < 1.2 gmm
- for balancing HSK spindles clamping systems: holds the clamping elements in the clamped position
- further calibration on request

Scope of delivery:

- supplied in wooden case with inspection protocol



Article no. 4975

d3	d2 mm	l1 mm	l2 mm	Order no.
HSK-C 25	12	23.00	8.0	4975 25.000
HSK-C 32	12	25.00	10.0	4975 32.000
HSK-C 40	12	25.00	10.0	4975 40.000
HSK-C 50	20	37.50	12.5	4975 50.000
HSK-C 63	20	37.50	12.5	4975 63.000
HSK-C 80	20	46.00	16.0	4975 80.000
HSK-C 100	20	46.00	16.0	4975 100.000



Clamping force measuring instrument

Article no. **4973**

Product information:

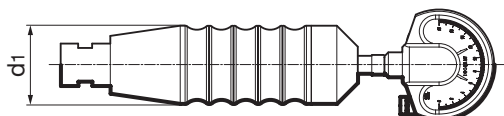
- clamping force tester for SK/BT/CAT clamping systems in machine tool spindles
- further calibration on request

Scope of delivery:

- supplied in plastic case with inspection protocol and measuring instructions

Suitable accessories separately available:

- for SK pull studs, art. no. 4925, 4926
- for BT shortened special tightening bolts, art. no. 4927, 4928



Article no. **4973**

d1	Order no.
SK/BT/CAT 30	4973 30.000
SK/BT/CAT 40	4973 40.000
SK/BT/CAT 50	4973 50.000

Clamping force measuring instrument

Article no. **4974**

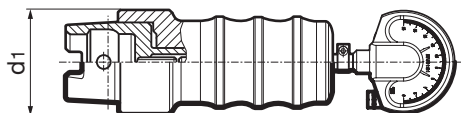


Product information:

- mechanical feed-in clamping force tester for HSK clamping systems in machine tool spindles
- further calibration on request

Scope of delivery:

- supplied in plastic case with inspection protocol and measuring instructions



Article no. **4974**

d1	Order no.
HSK 25	4974 19.000
HSK 32	4974 24.000
HSK 40	4974 30.000
HSK 50	4974 38.000
HSK 63	4974 48.000
HSK 80	4974 60.000
HSK 100	4974 75.000



Clamping force measuring instrument Senso 3000

Article no. **4038**

Product information:

- accurate, quick and simple measuring of the clamping force of hydraulic chucks
- mobility allows measuring within machines and fixtures
- determines clamping force via a pressure sensitive plug gauge
- indication as clamping force in percentage relative to the reference value

Scope of delivery:

- clamping force tester in sturdy case and instruction manual, incl. test mandrel, test report and battery type CR 2430

Accessories

- clamping force tester Senso 3000
- master recording on request



Article no. **4038**

Clamping diameter mm	Order no.
6.0	4038 6.000
8.0	4038 8.000
10.0	4038 10.000
12.0	4038 12.000
14.0	4038 14.000
16.0	4038 16.000
18.0	4038 18.000
20.0	4038 20.000
25.0	4038 25.000
32.0	4038 32.000

Flow rate measuring device PQ 3000

Article no. **4068**

Product information:

- pPressure checking range: 1 to 120 bar
 - rate of flow checking range: 2 to 40 l/min
 - diameter holder shank: 16 mm
 - diameter range tool holder: ER 32 / 6 to 20 mm
 - display for existing pressure P in bar also rate of flow volume Q in l/min
 - Air flow/MQL cannot be checked with this system.
- Test device P 3000 for air measurement available on request.

Scope of delivery:

- clamping fixture and checking instrument
- display fixture with grip and connection socket
- checking data cable with connector plug, length 3 m
- ER 32 collet and sealing disc set for standard shanks with diameters from 6 to 20 mm
- clamping key for tensioning nut
- supplied in a sturdy case

Suitable accessories separately available:

- data interface and software for data evaluation on a PC



Article no. **4068**

ER 32	Order no.
	4068 10.000

Measuring tools



Coolant supply measuring instrument CC 3000

Article no. **4076**



Product information:

- range of application 50 - 500 min⁻¹
- for a coolant pressure up to 80 bar

Scope of delivery:

- with straight shank 16h6 and HB/HE clamping surfaces
- high-grade steel filters in sizes 100, 200 and 300 µm, art. no. 4077
- refractometer including accessories
- magnifying glass, 8-fold magnification

Suitable accessories separately available:

- high-grade steel filter size 60 µm, art. no. 4077



Article no. **4076**

Order no.

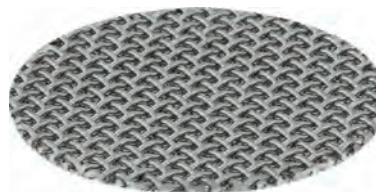
4076 10.063

High-grade steel filter for coolant supply measuring device

Article no. **4077**

Product information:

- range of application 50 - 500 min⁻¹
- for a coolant pressure up to 80 bar



Article no. **4077**

Order no.

Size

µm

200

60

100

300

4077 200.000

4077 60.000

4077 100.000

4077 300.000



Coolant supply sets for conventional cooling

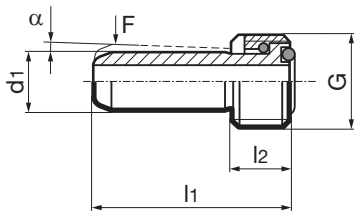
Article no. **4949**

Product information:

- leak-proof screwed connection tested to 80 bar
- according to DIN 69895
- F = angle movability $\pm 1^\circ$
- for HSK-A and HSK-E shanks

Scope of delivery:

- incl. threaded ring and o rings



Article no. **4949**

for	d1 mm	α °	F Nm	G	l1 mm	l2 mm	Order no.
HSK 32	6.0	1.2	5	M10X1	26.0	5.5	4949 10.032
HSK 40	8.0	1.4	5	M12X1	29.5	7.5	4949 12.040
HSK 50	10.0	1.3	6	M16X1	33.0	9.5	4949 16.050
HSK 63	12.0	1.3	6	M18X1	36.5	11.5	4949 18.063
HSK 80	14.0	1.4	7	M20X1.5	40.0	13.5	4949 20.080
HSK 100	16.0	1.4	7	M24X1.5	44.0	15.5	4949 24.100

Coolant supply sets for conventional cooling with filter

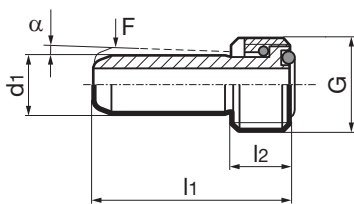
Article no. **4979**

Product information:

- leak-proof screwed connection tested to 80 bar
- similar DIN 69895
- with filter for contamination-free cooling
- protects against tool breakage and eases error analysis
- F = angle movability $\pm 1^\circ$
- for HSK-A and HSK-E shanks

Scope of delivery:

- incl. threaded ring and o rings
- 100 μ stainless steel fabric filter



Article no. **4979**

for	d1 mm	α °	F Nm	G	l1 mm	l2 mm	Order no.
HSK 32	6.0	1.2	5	M10X1	26.0	5.5	4979 10.032
HSK 40	8.0	1.4	5	M12X1	29.5	7.5	4979 12.040
HSK 50	10.0	1.3	6	M16X1	33.0	9.5	4979 16.050
HSK 63	12.0	1.3	6	M18X1	36.5	11.5	4979 18.063
HSK 80	14.0	1.4	7	M20X1.5	40.0	13.5	4979 20.080
HSK 100	16.0	1.4	7	M24X1.5	44.0	15.0	4979 24.100



Data coding chip

Article no. **4955**

Product information:

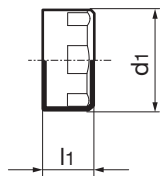
- identification systems BIS C
- for installation space to DIN 69 873
- data carrier read/write
- 511 bytes
- operating temperature 0...+70
- protection class to IEC 60529
- product data exchange acc. to DIN 4000
- glued in hole $\text{Ø}10 \text{ H}11$

Scope of delivery:

- data coding chip

Suitable accessories separately available:

- installation in a clamping chuck and additional balancing



Article no.

4955

d1	l1	Order no.
mm	mm	4955 10.000
10.0	4.5	

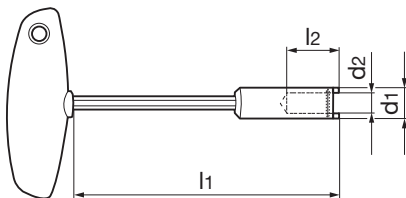


Sockets

Article no. **4911**

Product information:

- with T-handle
- for coolant supply sets for conventional cooling and MQL coolant supply unit
- for mounting adaptor, art. no. 4948



Article no. **4911**

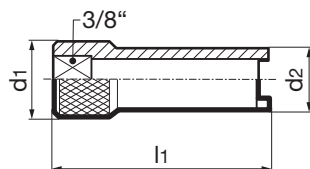
for	d1 mm	d2 mm	l1 mm	l2 mm	Order no.
HSK 32	11.0	6.0	128	23.0	4911 24.000
HSK 40	13.0	8.0	134	26.0	4911 30.000
HSK 50	15.0	10.0	134	28.0	4911 38.000
HSK 63	17.0	12.0	135	31.5	4911 48.000
HSK 80	20.0	14.0	138	32.0	4911 60.000
HSK 100	22.5	16.0	138	35.0	4911 75.000

Sockets

Article no. **4910**

Product information:

- suitable for torque wrench art. no. 4915, drive 3/8"
- for coolant supply sets



Article no. **4910**

for	Torque Nm	d1 mm	d2 mm	l1 mm	Order no.
HSK 32	7	20	14	60	4910 24.000
HSK 40	11	20	16	60	4910 30.000
HSK 50	15	20	18	60	4910 38.000
HSK 63	20	20	18	60	4910 48.000
HSK 80	25	20	20	75	4910 60.000
HSK 100	30	22	22	80	4910 75.000

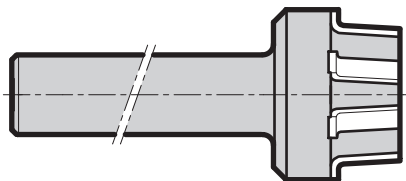


Cleaning mandrels

Article no. **4914**

Product information:

- for cleaning internal tapers and the end faces on HSK
- by cleaning the contact surfaces accuracy, clamping torque and tool life of interfaces are improved
- the cleaning mandrels are available in 3 designs, suitable for HSK and ISO taper spindles and HPC high-precision chucks



Article no. **4914**

for	Article no.	Order no.
HPC 14		4914 14.000
HPC 20		4914 20.000
HPC 25		4914 25.000
HSK 25		4914 19.000
HSK 32		4914 24.000
HSK 40		4914 30.000
HSK 50		4914 38.000
HSK 63		4914 48.000
HSK 80		4914 60.000
HSK 100		4914 75.000
SK/BT 30		4914 30.030
SK/BT 40		4914 40.000
SK/BT 50		4914 50.000

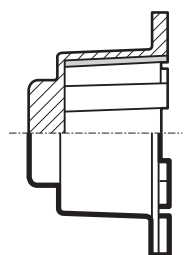


HSK cleaning cap

Article no. **4947**

Product information:

- for cleaning the external taper and face



Article no. **4947**

for	Order no.
HSK 40	4947 1.040
HSK 50	4947 1.050
HSK 63	4947 1.063
HSK 80	4947 1.080
HSK 100	4947 1.100

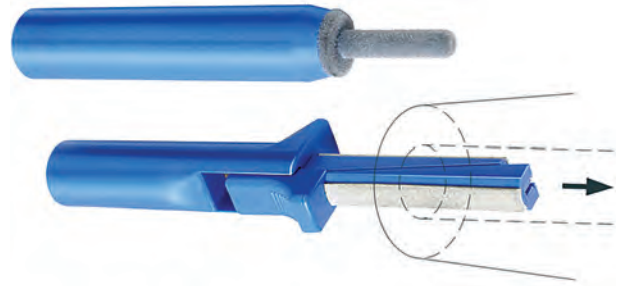
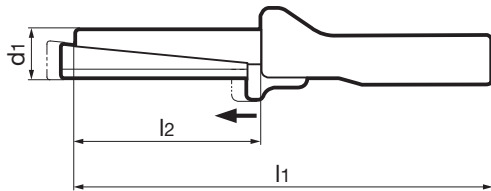


Cylindrical cleaning mandrels

Article no. **4918**

Product information:

- for cleaning the bore of the tool holder
- i.e. hydraulic, shrink fit and HPC clamping chucks



Article no. **4918**

d1 mm	l2 mm	l1 mm	Order no.
6	37	158	4918 6.000
8	37	158	4918 8.000
10	47	168	4918 10.000
12	47	168	4918 12.000
14	47	168	4918 14.000
16	70	176	4918 16.000
18	70	176	4918 18.000
20	70	176	4918 20.000
25	80	186	4918 25.000
32	100	221	4918 32.000
40	105	226	4918 40.000



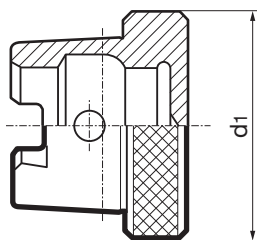
HSK-C sealing plugs

Article no. **4985**



Product information:

- With high coolant pressure applications, it is imperative to seal the spindle with the sealing plug for safety reasons when the machine spindle is not fitted with a tool. The sealing plug protects the spindle from contamination.



Article no. **4985**

for	d1 mm	Order no.
HSK-C 32	34	4985 32.000
HSK-C 40	42	4985 40.000
HSK-C 50	52	4985 50.000
HSK-C 63	65	4985 63.000
HSK-C 80	82	4985 80.000
HSK-C 100	102	4985 100.000



Tool setting fixtures

Article no. **4946**

Product information:

- The HSK shanks are clamped vertically and horizontally at the collar. Therefore, all tapers with the same diameter of the collar can be clamped with one fixture.
- for HSK shanks HSK 32, 40, 50 and 63, form A, C, E and F

Scope of delivery:

- incl. holder adaptors



Article no. **4946**

for	Length mm	Width mm	Height mm	kg	Order no.
HSK 32	260	130	160	9	4946 450.032
HSK 40	260	130	160	9	4946 450.040
HSK 50	260	130	160	9	4946 450.050
HSK 63	260	130	160	9	4946 450.063

Tool setting fixtures

Article no. **4990**

Product information:

- The HSK shank is held vertically by its own weight in the tool assembly block. The torque is transmitted via the drivers at the taper end.
- All taper variants of the same taper size, such as DIN 69871/DIN 2080/MAS-BT and D-BT) can be clamped without changing the inserts, simply by adjusting the clamping spindle axially.

Scope of delivery:

- incl. interchangeable discs art. no. 4991



Article no. **4990**

for	Length mm	Width mm	Height mm	kg	Order no.
SK/BT 40	260	130	160	9	4990 400.040
SK/BT 50	260	130	160	9	4990 400.050
HSK 63	260	130	160	9	4990 450.063
HSK 80	260	130	160	9	4990 450.080
HSK 100	260	130	160	9	4990 450.100



Interchangeable discs

Article no. **4991**

Product information:

- for tool setting fixture, art. no. 4990

Scope of delivery:

- 1 pair



Article no.

4991

for	for art. no.	kg	Order no.
SK/BT 40	4990	1.5	4991 400.100
SK/BT 50	4990	1.5	4991 400.200
HSK 32	4946	0.8	4991 450.100
HSK 40	4946	0.8	4991 450.200
HSK 50	4946	0.0	4991 450.300
HSK 63	4990	0.1	4991 450.400
HSK 80	4990	0.2	4991 450.500
HSK 100	4990	0.4	4991 450.600



Torque wrenches

Article no. **4915**

Product information:

incl. torque setting tool and bit holder • torque wrench, art. no. 4915 3,000 (incl. bit SW4) exclusively for HPC extension, art. no. 4208

Suitable accessories separately available:

• hexagonal insert art. no. 4916



Article no. **4915**

	Drive	Torque Nm	Order no.
hexagonal	1/4"	0,4-1	4915 1.001
hexagonal	1/4"	0,5-2	4915 2.000
hexagonal	1/4"	1,5-3	4915 3.000
hexagonal	1/4"	0,8-5	4915 5.001
hexagonal	1/4"	2-8	4915 8.000

Torque wrenches

Article no. **4987**

Product information:

• firmly set to 10 Nm; suitable for our HPC chucks, art. no. 4300, 4301, 4243, 4244

Suitable accessories separately available:

• hexagonal insert art. no. 4916



Article no. **4987**

	Drive	Torque Nm	Order no.
square	1/4"	10	4987 10.000



Torque wrenches

Article no. **4988**

Product information:

- incl. torque setting tool and bit holder

Suitable accessories separately available:

- hexagonal insert art. no. 4916
- Torx Plus insert art. no. 4879



Article no. **4988**

	Drive	Torque Nm	Order no.
T-handle	1/4"	5-14	4988 14.000

Torque wrenches

Article no. **4989**

Product information:

- with ratchet

Suitable accessories separately available:

- hexagonal insert art. no. 4916
- Torx Plus insert art. no. 4879



Article no. **4989**

	Drive	Torque Nm	Order no.
square	3/8"	10-50	4989 50.000
square	1/2"	20-200	4989 200.000

General accessories

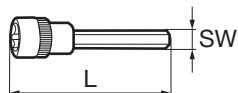


Socket/attachments

Article no. **4916**

Product information:

- for hexagon socket screws
- type D for HPC clamping chuck



Article no. **4916**

Drive	SW mm		L mm	Type	Order no.
1/4	2.0	hexagonal	50	A	4916 2.019
1/4	2.5	hexagonal	50	A	4916 2.524
1/4	2.0	hexagonal	50	A	4916 3.030
3/8	3.0	square	52	B	4916 3.038
1/4	4.0	hexagonal	55	D	4916 4.000
3/8	4.0	square	100	B	4916 4.038
3/8	4.0	square	100	B	4916 4.138
3/8	5.0	square	100	B	4916 5.048
3/8	5.0	square	105	B	4916 5.148
1/2	6.0	square	90	C	4916 6.038
3/8	6.0	square	100	B	4916 6.060
1/2	8.0	square	90	C	4916 8.048
3/8	8.0	square	100	B	4916 8.075
1/2	10.0	square	140	C	4916 10.060
1/2	12.0	square	140	C	4916 12.000
1/2	14.0	square	60	C	4916 14.000

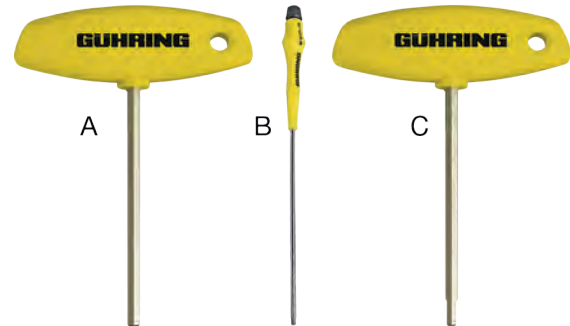
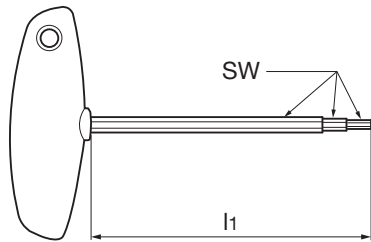


Hexagon clamping keys

Article no. 4912

Product information:

- for hexagon socket screws
- order no. 4912 4.600 and 4912 4,010 special key for HPC chucks
- order no. 4912 3.456 SW 3/4/5/6 mm
- order no. 4912 4.600 SW 4/6 mm



Article no. 4912

SW mm	l1 mm	Type	Order no.
2.0	100	A	4912 2.000
2.5	100	A	4912 2.500
2.5	200	A	4912 2.501
3.0	100	A	4912 3.000
3.0	200	A	4912 3.001
4.0	100	A	4912 4.000
4.0	200	A	4912 4.001
5.0	100	A	4912 5.000
5.0	200	A	4912 5.001
6.0	100	A	4912 6.000
6.0	200	A	4912 6.001
7.0	200	A	4912 7.001
8.0	100	A	4912 8.000
8.0	200	A	4912 8.001
10.0	100	A	4912 10.000
12.0	100	A	4912 12.000
1.5	150	B	4912 1.500
2.0	150	B	4912 2.001
2.5	120	B	4912 2.502
3.0	150	B	4912 3.002
4.0	150	B	4912 4.002
2.5	60	C	4912 2.509
3456.0	100	C	4912 3.456
46.0	100	C	4912 4.600



Hexagon-socket offset screw keys

Article no. 4921

Product information:

- for hexagon socket screws
- for threaded pin, art. no. 4551
in clamping set PowerClamp, art. no. 4554



Article no. 4921

SW mm	Order no.
0.7	4921 0.700
0.9	4921 0.900
1.3	4921 1.300
1.5	4921 1.501
1.5	4921 1.500
2.0	4921 2.000
2.5	4921 2.500
3.0	4921 3.000
4.0	4921 4.000
5.0	4921 5.000
6.0	4921 6.000

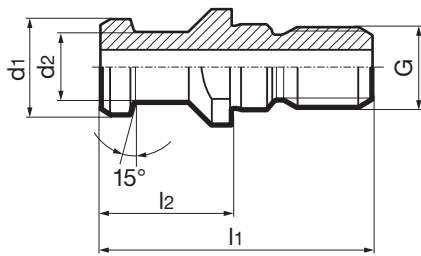


Pull studs ISO taper DIN ISO 7388-3 form AD

Article no. **4925**

Product information:

- for ISO taper tool holders to DIN ISO 7388-3 form AD
- through hole for central coolant supply



Article no. **4925**

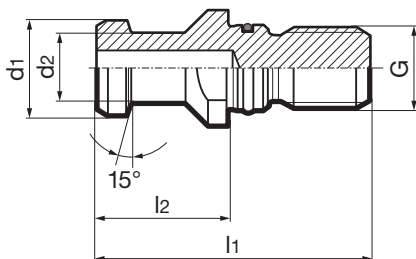
for	d1 mm	d2 mm	l1 mm	l2 mm	Mt max. Nm	G	Order no.
30	13.0	9.0	44.0	24	20-25	M12	4925 30.000
40	19.0	14.0	54.0	26	60-80	M16	4925 40.000
50	28.0	21.0	74.0	34	200-250	M24	4925 50.000

Pull studs ISO taper DIN ISO 7388-3 form AF

Article no. **4926**

Product information:

- for ISO taper tool holders to DIN ISO 7388-3 form AD
- sealed for coolant supply above the collar



Article no. **4926**

for	d1 mm	d2 mm	l1 mm	l2 mm	Mt max. Nm	G	Order no.
30	13.0	9.0	44.0	24	20-25	M12	4926 30.000
40	19.0	14.0	54.0	26	60-80	M16	4926 40.000
50	28.0	21.0	74.0	34	200-250	M24	4926 50.000

General accessories

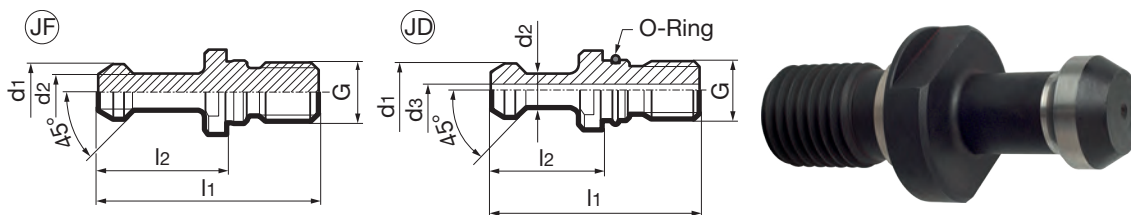


Pull studs BT DIN ISO 7388-3

Article no. **4927**

Product information:

- for tool holders to DIN ISO 7388-2 (MAS 403 BT)
- 45° clamping shoulder angle
- design JD sealed with through hole
- design JF without through hole
- 40.100 shortened and sealed, for draw-in clamping force test equipment art. no. 4973



Article no. **4927**

for	Form	d1 mm	d2 mm	d3 mm	l1 mm	l2 mm	Mt max. Nm	G	Order no.
30	JF	11.0	7.0		43.0	23	20-25	M12	4927 30.000
30	JD	11.0	7.0	2.5	43.0	23	20-25	M12	4927 30.001
40	JF	15.0	10.0		60.0	35	60-80	M16	4927 40.000
40	JD	15.0	10.0	4.0	60.0	35	60-80	M16	4927 40.001
40	JF	15.0	10.0		57.0	32	60-80	M16	4927 40.100
50	JF	23.0	17.0		85.0	45	200-250	M24	4927 50.000
50	JD	23.0	17.0	8.5	85.0	45	200-250	M24	4927 50.001

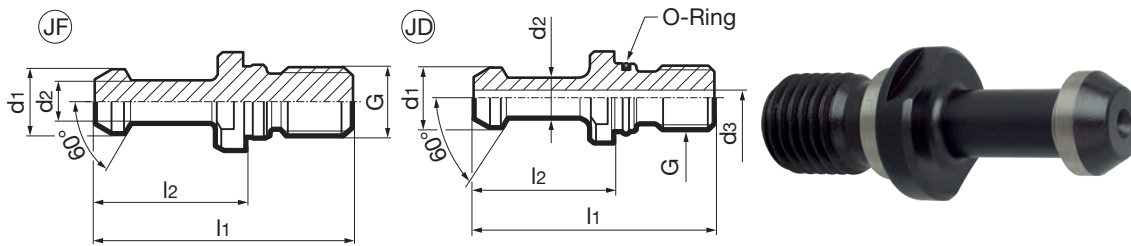


Pull studs BT DIN ISO 7388-3

Article no. **4928**

Product information:

- for tool holders to DIN ISO 7388-2 (MAS 403 BT)
- 60° clamping shoulder angle
- design JD sealed with through hole
- design JF without through hole
- 40.100 shortened and sealed, for draw-in clamping force test equipment art. no. 4973



Article no. **4928**

for	Form	d1 mm	d2 mm	d2 mm	l1 mm	l2 mm	Mt max. Nm	G	Order no.
30	JF	11.0	7.0		43.0	23	20-25	M12	4928 30.000
30	JD	11.0	7.0	2.5	43.0	23	20-25	M12	4928 30.001
40	JF	15.0	10.0		60.0	35	60-80	M16	4928 40.000
40	JD	15.0	10.0	4.0	60.0	35	60-80	M16	4928 40.001
40	JF	15.0	10.0		57.0	32	60-80	M16	4928 40.100
50	JF	23.0	17.0		85.0	45	200-250	M24	4928 50.000
50	JD	23.0	17.0	8.5	85.0	45	200-250	M24	4928 50.001
60	JD	32.0	24.0	12.0	115.0	65	200-250	M30	4928 60.001

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