

GUHRING

THE BEST OF TWO SYSTEMS

THE ADVANTAGES OF HYDRAULIC
CHUCKS & SYNCHRO TAPPING CHUCKS
IN ONE TOOL HOLDER

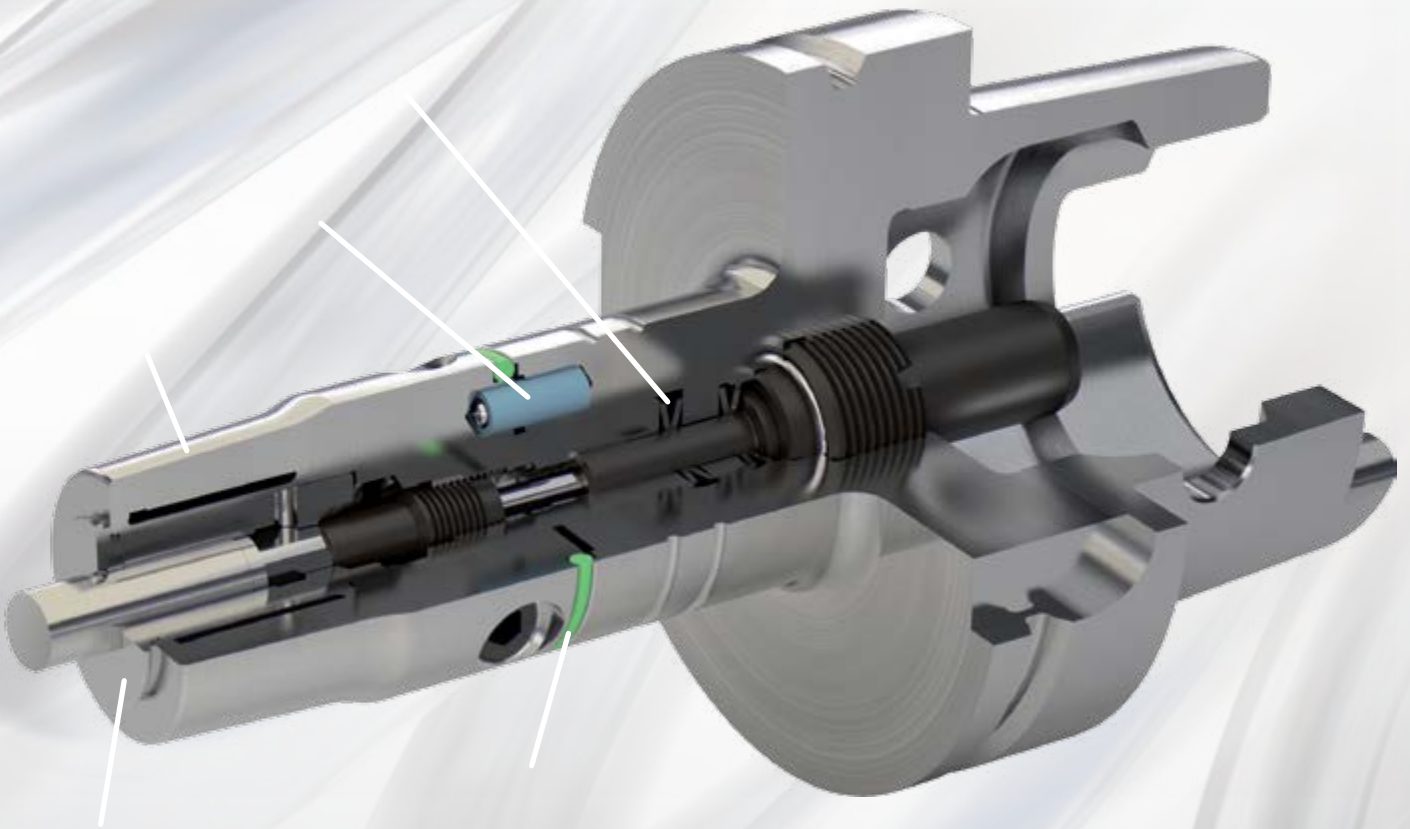


GUHROSync Synchro tapping chucks

GUHRING - YOUR WORLD-WIDE PARTNER

GUHROSYNC

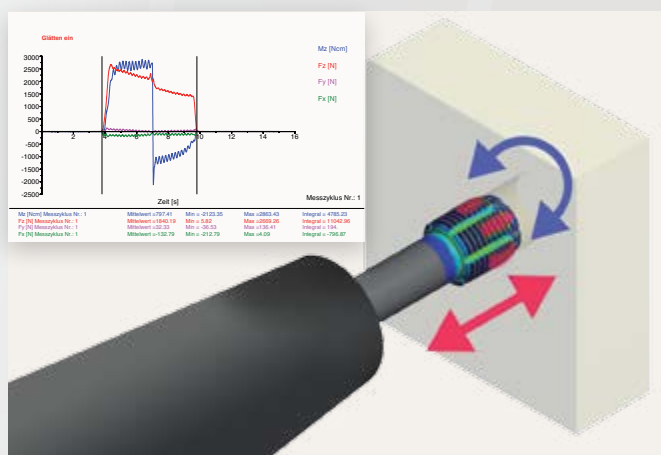
THE EASY WAY
TO THE PERFECT THREAD



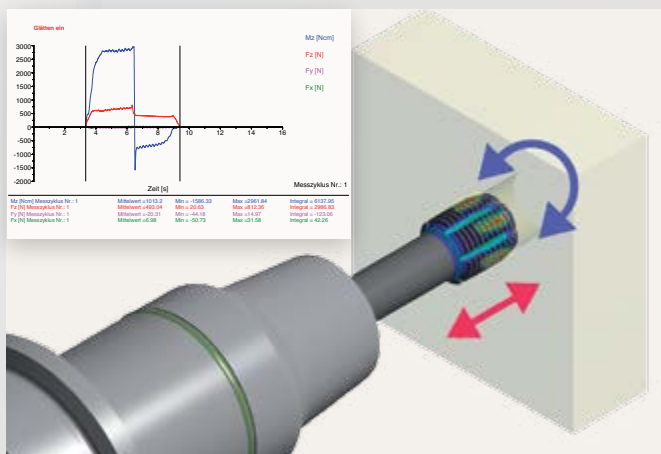
Intelligent design:

As well as the suspension and damping elements in the slender GUHROSync chucks (for the reduction of axial and radial forces during the tapping process) there is also room for the delivery set for MQL or conventional cooling lubrication and the length setting screw.

Die optimale Kombination aus langlebiger Metall-Feder und Dämpfungselementen aus Polymer reduziert die Axial- und Radialkräfte erheblich



Starres Futter



GUHROSync



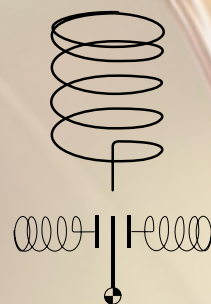
**IMPROVED
TOOL LIFE**



**IMPROVED THREAD
QUALITY**



**GREATER PROCESS
RELIABILITY**



GUHRING

Made visible:
The spring symbol on the GUHROSync displays the effect of axial and radial force.



*REDUCTION OF AXIAL
AND RADIAL FORCES*



*COMPENSATE
SYNCHRONISATION ERRORS*



*QUICK AND ACCURATE
LENGTH SETTING OF TOOLS*



*MODULARER AUFBAU FÜR
VERSCHIEDENE STANDARD-
UND SONDERAUSFÜHRUNGEN*



*HÖHERE
STANDMENGEN*



*REDUCED
CYCLE TIMES*



*IMPROVED
THREAD QUALITY*



*GREATER PROCESS
RELIABILITY*

GUHROSync synchro tapping chucks for internal cooling

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GUHROSync synchro tapping chucks for MQL

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Shrink fit chucks

4736 HSK-A

4726 TSG 3000 HSK-A

4758 HSK-C

4738 SK

Hydraulic synchro tapping chucks with increased clamping force

4221 MAS-BT

4299 HSK-A

4267 HSK-C

4213 SK

4949 Coolant delivery set HSK-A for conventional cooling



Hydraulic synchro tapping chucks

4601 HSK-A

4925 Pull studs for SK



Hydraulic synchro tapping chucks

4576 SK

4927 Pull studs for MAS/BT



Hydraulic synchro tapping chucks

4577 MAS-BT



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 Reduzierbuchse



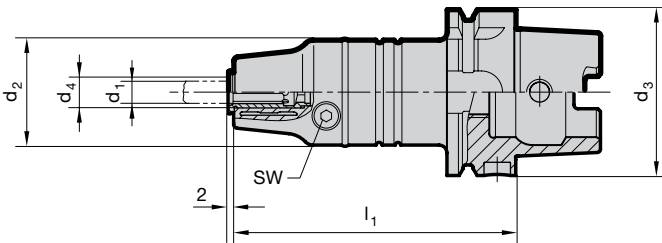
Threading tool:
shank diameter x square

Product information

- compensate synchronisation errors
- guarantees high thread quality and optimal tool life
- minimal length compensation in tension and compression direction balances very small pitch differences between synchro spindle and tap
- reduces an increase in axial forces during the cutting cycle to a minimum
- convenient hydraulic clamping using reduction bushes with active drive
- length-setting screw allows 3 mm readjustment
- suitable for internal cooling identifiable by black coloured ring
- coolant pressure up to max. 80 bar

Scope of delivery

- incl. hexagon clamping key
Guhring no. 4912
- incl. adjustment key for adjustment screws
- order setting screw "face"
Guhring no. 4364 separately
- order reduction bushes
Guhring no. 4605 or 4606 separately
- for conventional cooling order coolant delivery set Guhring no. 4949 separately



GÜHROSync

Guhring no.	4601
Discount group	114

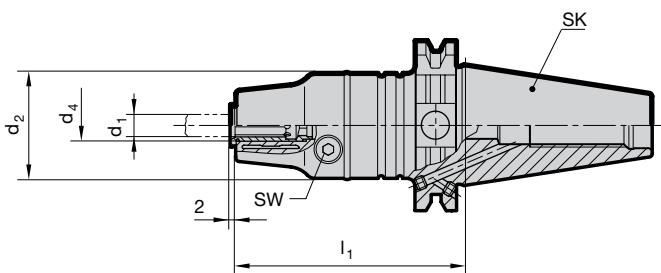
HSK-A d ₃	d ₄ mm	for shank Ø d ₁ x VKT	for thread	d ₂ mm	l ₁ mm	tension/ compr. ± mm	SW	kg	Code no.	Availability
63	12.00	6-10	M5-M12	40	108.5	0.3	4	1.5	12.063	●
100	12.00	6-10	M5-M12	40	115.0	0.3	5	2.8	12.100	●
63	20.00	6-16	M8-M20	40	122.5	0.3	4	1.6	20.063	●
100	20.00	6-16	M8-M20	40	129.0	0.3	5	2.9	20.100	●

Product information

- SK30 to DIN 69871 form AD without coolant supply over collar
- SK40 to DIN 69871 form AD/B
- form B supplied with threaded pins in bores
- compensate synchronisation errors
- guarantees high thread quality and optimal tool life
- minimal length compensation in tension and compression direction balances very small pitch differences between synchro spindle and tap
- reduces an increase in axial forces during the cutting cycle to a minimum
- convenient hydraulic clamping using reduction bushes with active drive
- length-setting screw allows 3 mm readjustment
- suitable for internal cooling identifiable by black coloured ring
- coolant pressure up to max. 80 bar

Scope of delivery

- incl. hexagon clamping key
Guhring no. 4912
- incl. adjustment key for adjustment screws
- order setting screw "face"
Guhring no. 4364 separately
- order reduction bushes
Guhring no. 4605 or 4606 separately
- order pull studs, Guhring no. 4925 or 4926 separately



GÜHROSync

Guhring no.	4576
Discount group	114

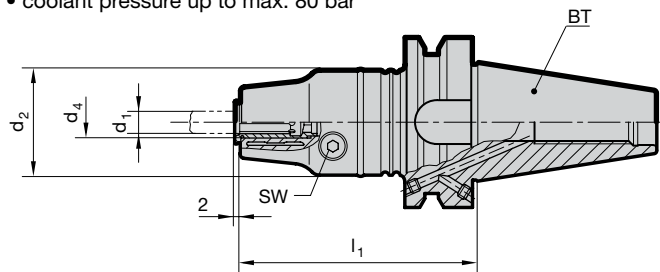
SK	d ₄ mm	for shank Ø d ₁	for thread	d ₂ mm	l ₁ mm	tension/ compr. ± mm	SW	kg	Code no.	Availability
30	12.00	2.8-10	M3-M12	40	81	0.3	4	0.8	12,030	●
30	20.00	6-16	M8-M20	40	95	0.3	5	0.9	20,030	●
40	12.00	2.8-10	M3-M12	40	85	0.3	4	1.3	12,040	●
40	20.00	6-16	M8-M20	40	99	0.3	5	1.4	20,040	●

Product information

- MAS/BT30 to JIS B 6339-2 form JD without coolant supply over collar
- MAS/BT40 to JIS B 6339-2 form JD/JF (form AD/B)
- form B supplied with threaded pins in bores
- compensate synchronisation errors
- guarantees high thread quality and optimal tool life
- minimal length compensation in tension and compression direction balances very small pitch differences between synchro spindle and tap
- reduces an increase in axial forces during the cutting cycle to a minimum
- convenient hydraulic clamping using reduction bushes with active drive
- length-setting screw allows 3 mm readjustment
- suitable for internal cooling identifiable by black coloured ring
- coolant pressure up to max. 80 bar

Scope of delivery

- incl. hexagon clamping key
Guhring no. 4912
- incl. adjustment key for adjustment screws
- order setting screw "face"
Guhring no. 4364 separately
- order reduction bushes
Guhring no. 4605 or 4606 separately
- order pull studs, Guhring no. 4927 or 4928 separately



GÜHROSync

Guhring no. **4577**

Discount group **114**

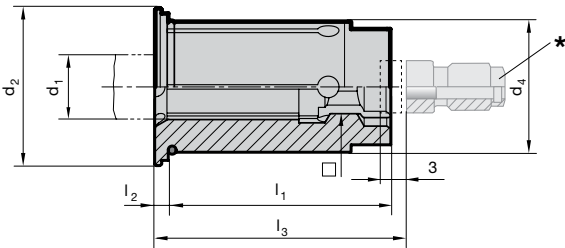
BT	d ₄ mm	for shank Ø d ₁	for thread	d ₂ mm	l ₁ mm	tension/ compr. ± mm	SW	kg	Code no.	Availability
30	12.00	2.8-10	M3-M12	40	81	0.3	4	0.8	12,030	●
30	20.00	6-16	M8-M20	40	95	0.3	5	0.9	20,030	●
40	12.00	2.8-10	M3-M12	40	85	0.3	4	1.3	12,040	●
40	20.00	6-16	M8-M20	40	99	0.3	5	1.4	20,040	●

Product information

- for clamping taps with square shank in GUHROSynch synchro tapping chucks
- clamping-Ø for tool shank tolerance h6-h9
- Stirnseite geschlossen, dadurch kühlmitteldicht für Gewindewerkzeuge mit IK
- positive Mitnahme
- Einstellschraube an Gewindebohrerschaft anlegen
- length-setting screw allows 3 mm readjustment

Scope of delivery

- order setting screw "face" Guhring no. 4364 separately
- order MQL setting screws Guhring no. 4305 separately



Guhring no. **4605**

Discount group **114**

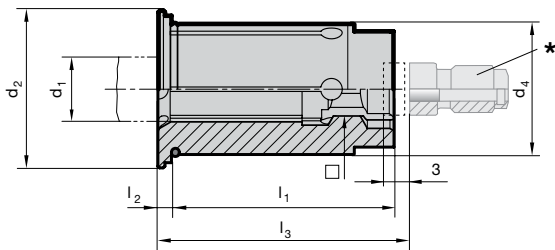
d ₄ mm	d ₁ mm	□ mm	Standard	d ₁ inch	□ inch	d ₂ mm	l ₁ mm	l ₂ mm	l ₃ mm	* for adjustment screw	for thread	Code no.	Availability
12.00	2.800	2.100	DIN	-	-	16.50	29.00	2.00	-	-	M2 / M4	2,812	●
12.00	3.500	2.700	DIN	-	-	16.50	29.00	2.00	-	-	M3 / M4.5 / M5	3,512	●
12.00	4.000	3.200	JIS	-	-	16.50	29.00	2.00	-	-	M3	4,012	●
12.00	4.500	3.400	DIN	-	-	16.50	29.00	2.00	26.00	4364 5.020	M4 / M6	4,512	●
12.00	4.928	3.861	ANSI	0.194	0.152	16.50	29.00	2.00	26.00	4364 5.020	10-24 & 10-32	4,912	●
12.00	5.000	4.000	JIS	-	-	16.50	29.00	2.00	26.00	4364 5.020	M4	5,012	●
12.00	5.500	4.500	JIS	-	-	16.50	29.00	2.00	26.00	4364 5.020	M5	5,512	●
12.00	5.588	4.191	ANSI	0.220	0.165	16.50	29.00	2.00	26.00	4364 5.020	12-24 & 12-28	15,512	●
12.00	6.000	4.500	JIS	-	-	16.50	29.00	2.00	26.00	4364 5.020	M6	16,012	●
12.00	6.000	4.900	DIN	-	-	16.50	29.00	2.00	26.00	4364 6.020	M4.5	6,012	●
12.00	6.200	5.000	JIS	-	-	16.50	29.00	2.00	26.00	4364 6.020	M7 / M8	6,212	●
12.00	6.477	4.851	ANSI	0.255	0.191	16.50	29.00	2.00	26.00	4364 6.020	1/4-20 & 1/4-28	6,412	●
12.00	7.000	5.500	DIN / JIS	-	-	16.50	29.00	2.00	26.00	4364 7.020	M7 / M9 / M10	7,012	●
12.00	7.938	5.944	ANSI	0.3125	0.234	16.50	29.00	2.00	31.00	4364 7.020	1/16-27	7,912	●
12.00	8.000	6.200	DIN	-	-	16.50	29.00	2.00	31.00	4364 8.020	M8 / M11	8,012	●
12.00	8.000	6.500	JIS	-	-	16.50	29.00	2.00	31.00	4364 8.020	M11	18,012	●
12.00	8.077	6.045	ANSI	0.318	0.238	16.50	29.00	2.00	31.00	4364 7.020	5/16-18 & 5/16-24	28,012	●
12.00	8.204	6.147	ANSI	0.323	0.242	16.50	29.00	2.00	31.00	4364 7.020	7/16-14 & 7/16-20	8,212	●
12.00	8.500	6.500	JIS	-	-	16.50	29.00	2.00	31.00	4364 8.020	M12	8,512	●
12.00	9.000	7.000	DIN	-	-	16.50	29.00	2.00	32.00	4364 9.020	M9 / M12	9,012	●
12.00	9.322	6.985	ANSI	0.367	0.275	16.50	29.00	2.00	32.00	4364 9.020	1/2-13 & 1/2-20	9,312	●
12.00	9.677	7.264	ANSI	0.381	0.286	16.50	29.00	2.00	33.00	4364 9.020	3/8-16 & 3/8-24	9,612	●
12.00	10.000	8.000	DIN	-	-	16.50	29.00	2.00	36.00	4364 10.020	M10	10,012	●

Product information

- for clamping taps with square shank in GUHROSync synchro tapping chucks
- clamping-Ø for tool shank tolerance h6-h9
- Stirnseite geschlossen, dadurch kühlmitteldicht für Gewindewerkzeuge mit IK
- positive Mitnahme
- Einstellschraube an Gewindebohrerschaft anlegen
- length-setting screw allows 3 mm readjustment

Scope of delivery

- order setting screw "face" Guhring no. 4364 separately
- order MQL setting screws Guhring no. 4305 separately



Guhring no. 4605
Discount group 114

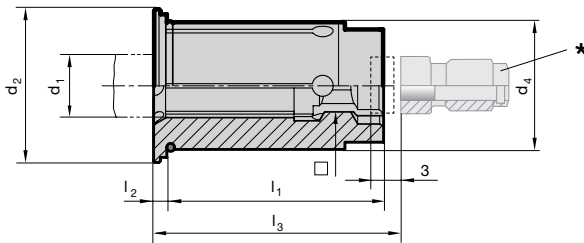
d ₄ mm	d ₁ mm	□ mm	Standard	d ₁ inch	□ inch	d ₂ mm	l ₁ mm	l ₂ mm	l ₃ mm	* for adjustment screw	for thread	Code no.	Availability
20.00	6.000	4.500	JIS	-	-	24.10	34.00	2.00	26.00	4364 6.032	M6	26,020	●
20.00	6.000	4.900	DIN	-	-	24.10	34.00	2.00	26.00	4364 6.032	M4.5/M5/M6/M8	6,020	●
20.00	6.200	5.000	JIS	-	-	24.10	34.00	2.00	26.00	4364 6.032	M7 / M8	6,220	●
20.00	6.477	4.851	ANSI	0.255	0.191	24.10	34.00	2.00	26.00	4364 6.032	1/4-20 & 1/4-28	6,420	●
20.00	7.000	5.500	DIN / JIS	-	-	24.10	34.00	2.00	26.00	4364 7.032	M7 / M9 / M10	7,020	●
20.00	7.938	5.944	ANSI	0.3125	0.234	24.10	34.00	2.00	31.00	4364 7.032	1/16-27	7,920	●
20.00	8.000	6.200	DIN	-	-	24.10	34.00	2.00	31.00	4364 8.032	M8 / M11	8,020	●
20.00	8.000	6.500	JIS	-	-	24.10	34.00	2.00	31.00	4364 8.032	M11	18,020	●
20.00	8.077	6.045	ANSI	0.318	0.238	24.10	34.00	2.00	31.00	4364 8.032	5/16-18 & 5/16-24	28,020	●
20.00	8.204	6.147	ANSI	0.323	0.242	24.10	34.00	2.00	31.00	4364 8.032	7/16-14 & 7/16-20	8,220	●
20.00	8.500	6.500	JIS	-	-	24.10	34.00	2.00	31.00	4364 8.032	M12	8,520	●
20.00	9.000	7.000	DIN	-	-	24.10	34.00	2.00	32.00	4364 9.032	M9 / M12	9,020	●
20.00	9.322	6.985	ANSI	0.367	0.275	24.10	34.00	2.00	32.00	4364 8.032	1/2-13 & 1/2-20	9,320	●
20.00	9.677	7.264	ANSI	0.381	0.286	24.10	34.00	2.00	33.00	4364 9.032	3/8-16 & 3/8-24	9,620	●
20.00	10.000	8.000	DIN	-	-	24.10	34.00	2.00	36.00	4364 10.032	M10	10,020	●
20.00	10.500	8.000	JIS	-	-	24.10	34.00	2.00	36.00	4364 10.032	M14	10,520	●
20.00	10.897	8.179	ANSI	0.4290	0.3220	24.10	34.00	2.00	35.00	4364 10.032	9/16-12 & 9/16-18	10,820	●
20.00	11.000	9.000	DIN	-	-	24.10	34.00	2.00	37.00	4364 11.032	M14	11,020	●
20.00	12.000	9.000	DIN	-	-	24.10	34.00	2.00	37.00	4364 11.032	M12 / M16	12,020	●
20.00	12.192	9.144	ANSI	0.480	0.36	24.10	34.00	2.00	36.00	4364 11.032	5/8-11 & 5/8-18	12,120	●
20.00	12.500	10.000	JIS	-	-	24.10	34.00	2.00	38.00	4364 11.032	M16	12,520	●
20.00	13.000	10.000	JIS	-	-	24.10	34.00	2.00	38.00	4364 11.032	M17	13,020	●
20.00	14.000	11.000	DIN / JIS	-	-	24.10	34.00	2.00	39.00	4364 11.032	M18	14,020	●
20.00	14.288	10.693	ANSI	0.5625	0.421	24.10	34.00	2.00	38.00	4364 11.032	1/4-18	14,220	●
20.00	14.986	10.719	ANSI	0.590	0.422	24.10	34.00	2.00	39.00	4364 11.032	3/4-10 & 3/4-16	14,920	●
20.00	15.000	12.000	JIS	-	-	24.10	34.00	2.00	40.00	4364 16.032	M20	15,020	●
20.00	16.000	12.000	DIN	-	-	24.10	34.00	2.00	41.00	4364 16.032	M20	16,020	●

Product information

- for clamping taps with square shank in GUHROSynch tapping chucks
- clamping-Ø for tool shank tolerance h6-h9
- positive Mitnahme der Reduzierbuchse im Gührosync Synchrofutter
- with coolant slots for peripheral cooling, therefore process and tool life improvement
- coiled swarf is consistently washed away
- Einstellschraube an Gewindebohrschaff anlegen
- length-setting screw allows 3 mm readjustment

Scope of delivery

- order MQL setting screws
Guhring no. 4305 separately
- order setting screw "face"
Guhring no. 4364 separately



GÜHROJET

Guhring no. **4606**

Discount group **114**

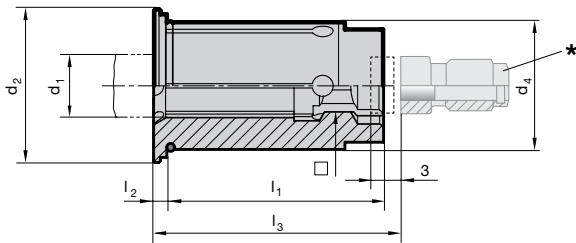
d ₄ mm	d ₁ mm	□ mm	Standard	d ₁ inch	□ inch	d ₂ mm	l ₁ mm	l ₂ mm	l ₃ mm	* for adjustment screw	for thread	Code no.	Availability
12.00	2.800	2.100	DIN	-	-	16.50	29.00	2.00	-	-	M2 / M4	2.812	●
12.00	3.500	2.700	DIN	-	-	16.50	29.00	2.00	-	-	M3 / M4.5 / M5	3.512	●
12.00	4.000	3.200	JIS	-	-	16.50	29.00	2.00	-	-	M3	4.012	●
12.00	4.500	3.400	DIN	-	-	16.50	29.00	2.00	-	-	M4 / M6	4.512	●
12.00	4.928	3.861	ANSI	0.194	0.152	16.50	29.00	2.00	-	-	10-24 & 10-32	4.912	●
12.00	5.000	4.000	JIS	-	-	16.50	29.00	2.00	-	-	M4	5.012	●
12.00	5.500	4.500	JIS	-	-	16.50	29.00	2.00	-	-	M5	5.512	●
12.00	5.588	4.191	ANSI	0.220	0.165	16.50	29.00	2.00	-	-	12-24 & 12-28	15.512	●
12.00	6.000	4.500	JIS	-	-	16.50	29.00	2.00	26.00	6.020	M6	16.012	●
12.00	6.000	4.900	DIN	-	-	16.50	29.00	2.00	26.00	6.020	M4.5	6.012	●
12.00	6.200	5.000	JIS	-	-	16.50	29.00	2.00	26.00	6.020	M7 / M8	6.212	●
12.00	6.477	4.851	ANSI	0.255	0.191	16.50	29.00	2.00	26.00	6.020	1/4-20 & 1/4-28	6.412	●
12.00	7.000	5.500	DIN / JIS	-	-	16.50	29.00	2.00	26.00	7.020	M7 / M9 / M10	7.012	●
12.00	7.938	5.944	ANSI	0.3125	0.234	16.50	29.00	2.00	31.00	7.020	1/16-27	7.912	●
12.00	8.000	6.200	DIN	-	-	16.50	29.00	2.00	31.00	8.020	M8 / M11	8.012	●
12.00	8.000	6.500	JIS	-	-	16.50	29.00	2.00	31.00	8.020	M11	18.012	●
12.00	8.077	6.045	ANSI	0.318	0.238	16.50	29.00	2.00	31.00	7.020	5/16-18 & 5/16-24	28.012	●
12.00	8.204	6.147	ANSI	0.323	0.242	16.50	29.00	2.00	31.00	8.020	7/16-14 & 7/16-20	8.212	●
12.00	8.500	6.500	JIS	-	-	16.50	29.00	2.00	31.00	8.020	M12	8.512	●
12.00	9.000	7.000	DIN	-	-	16.50	29.00	2.00	32.00	9.020	M9 / M12	9.012	●
12.00	9.322	6.985	ANSI	0.367	0.275	16.50	29.00	2.00	32.00	9.020	1/2-13 & 1/2-20	9.312	●
12.00	9.677	7.264	ANSI	0.381	0.286	16.50	29.00	2.00	33.00	9.020	3/8-16 & 3/8-24	9.612	●
12.00	10.000	8.000	DIN	-	-	16.50	29.00	2.00	36.00	10.020	M10	10.012	●

Product information

- for clamping taps with square shank in GÜHROSynch synchro tapping chucks
- clamping-Ø for tool shank tolerance h6-h9
- positive Mitnahme der Reduzierbuchse im Gührosynch Synchrofutter
- with coolant slots for peripheral cooling, therefore process and tool life improvement
- coiled swarf is consistently washed away
- Einstellschraube an Gewindebohrerschaft anlegen
- length-setting screw allows 3 mm readjustment

Scope of delivery

- order MQL setting screws
Guhring no. 4305 separately
- order setting screw "face"
Guhring no. 4364 separately



GÜHROJET

Guhring no. **4606**

Discount group **114**

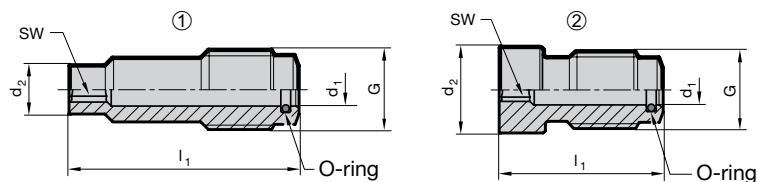
d ₄ mm	d ₁ mm	□ mm	Standard	d ₁ inch	□ inch	d ₂ mm	l ₁ mm	l ₂ mm	l ₃ mm	* for adjustment screw	for thread	Code no.	Availability
20.00	6.000	4.500	JIS	-	-	24.10	34.00	2.00	26.00	6.032	M6	26,020	●
20.00	6.000	4.900	DIN	-	-	24.10	34.00	2.00	26.00	6.032	M4.5/M5/M6/M8	6,020	●
20.00	6.200	5.000	JIS	-	-	24.10	34.00	2.00	26.00	6.032	M7 / M8	6,220	●
20.00	6.477	4.851	ANSI	0.255	0.191	24.10	34.00	2.00	26.00	6.032	1/4-20 & 1/4-28	6,420	●
20.00	7.000	5.500	DIN / JIS	-	-	24.10	34.00	2.00	26.00	7.032	M7 / M9 / M10	7,020	●
20.00	7.938	5.944	ANSI	0.3125	0.234	24.10	34.00	2.00	31.00	7.032	1/16-27	7,920	●
20.00	8.000	6.200	DIN	-	-	24.10	34.00	2.00	31.00	8.032	M8 / M11	8,020	●
20.00	8.000	6.500	JIS	-	-	24.10	34.00	2.00	31.00	8.032	M11	18,020	●
20.00	8.077	6.045	ANSI	0.318	0.238	24.10	34.00	2.00	31.00	8.032	5/16-18 & 5/16-24	28,020	●
20.00	8.204	6.147	ANSI	0.323	0.242	24.10	34.00	2.00	31.00	8.032	7/16-14 & 7/16-20	8,220	●
20.00	8.500	6.500	JIS	-	-	24.10	34.00	2.00	31.00	8.032	M12	8,520	●
20.00	9.000	7.000	DIN	-	-	24.10	34.00	2.00	32.00	9.032	M9 / M12	9,020	●
20.00	9.322	6.985	ANSI	0.367	0.275	24.10	34.00	2.00	32.00	9.032	1/2-13 & 1/2-20	9,320	●
20.00	9.677	7.264	ANSI	0.381	0.286	24.10	34.00	2.00	33.00	9.032	3/8-16 & 3/8-24	9,620	●
20.00	10.000	8.000	DIN	-	-	24.10	34.00	2.00	36.00	10.032	M10	10,020	●
20.00	10.500	8.000	JIS	-	-	24.10	34.00	2.00	36.00	10.032	M14	10,520	●
20.00	10.897	8.179	ANSI	0.4290	0.3220	24.10	34.00	2.00	35.00	10.032	9/16-12 & 9/16-18	10,820	●
20.00	11.000	9.000	DIN	-	-	24.10	34.00	2.00	37.00	11.032	M14	11,020	●
20.00	12.000	9.000	DIN	-	-	24.10	34.00	2.00	37.00	11.032	M12 / M16	12,020	●
20.00	12.192	9.144	ANSI	0.480	0.36	24.10	34.00	2.00	36.00	11.032	5/8-11 & 5/8-18	12,120	●
20.00	12.500	10.000	JIS	-	-	24.10	34.00	2.00	38.00	11.032	M16	12,520	●
20.00	13.000	10.000	JIS	-	-	24.10	34.00	2.00	38.00	11.032	M17	13,020	●
20.00	14.000	11.000	DIN / JIS	-	-	24.10	34.00	2.00	39.00	14.032	M18	14,020	●
20.00	14.288	10.693	ANSI	0.5625	0.421	24.10	34.00	2.00	38.00	11.032	1/4-18	14,220	●
20.00	14.986	10.719	ANSI	0.590	0.422	24.10	34.00	2.00	39.00	11.032	3/4-10 & 3/4-16	14,920	●
20.00	15.000	12.000	JIS	-	-	24.10	34.00	2.00	40.00	16.032	M20	15,020	●
20.00	16.000	12.000	DIN	-	-	24.10	34.00	2.00	41.00	16.032	M20	16,020	●

Product information

- for HSK-A synchro tapping chucks Guhring no. 4601
- for conventional internal cooling
- with facing stop for standard shank ends
- Einstellschraube an Gewindebohrerschaft anlegen
- length-setting screw allows 3 mm readjustment

Scope of delivery


















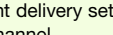


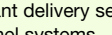









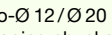
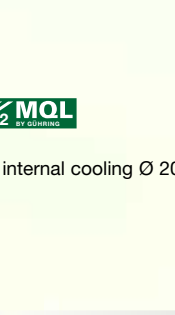











- with O-ring for secure seal



Guhring no. 4364

Discount group 114

for nominal size	for tap shank-Ø x □	G	d ₁ mm	d ₂ mm	l ₁ mm	SW	O-ring	image	Code no.	Availability
ER20 / Hydro12	< Ø6	M8x1	3.6	3.3	28.0	2.0	3.5x1	1	5,020	●
ER20 / Hydro12	6x4.9	M8x1	3.6	4.8	26.0	2.5	3.5x1	1	6,020	●
ER20 / Hydro12	7x5.5	M8x1	3.6	5.4	25.8	2.5	3.5x1	1	7,020	●
ER20 / Hydro12	8x6.2	M8x1	3.6	6.1	20.9	2.5	3.5x1	1	8,020	●
ER20 / Hydro12	9x7	M8x1	3.6	6.9	20.3	2.5	3.5x1	1	9,020	●
ER20 / Hydro12	10x8	M8x1	3.6	7.8	15.8	2.5	3.5x1	2	10,020	●
ER20 / Hydro12	11x9	M8x1	3.6	8.8	14.8	2.5	3.5x1	2	11,020	●
ER32 / Hydro20	< Ø6	M10x1	4.1	3.3	33.0	2.0	4x1	1	5,032	●
ER32 / Hydro20	6x4.9	M10x1	4.1	4.8	34.0	3.0	4x1	1	6,032	●
ER32 / Hydro20	7x5.5	M10x1	4.1	5.4	33.8	3.0	4x1	1	7,032	●
ER32 / Hydro20	8x6.2	M10x1	4.1	6.1	28.8	3.0	4x1	1	8,032	●
ER32 / Hydro20	9x7	M10x1	4.1	6.9	28.3	3.0	4x1	1	9,032	●
ER32 / Hydro20	10x8	M10x1	4.1	7.8	23.8	3.0	4x1	1	10,032	●
ER32 / Hydro20	11x9 & 12x9	M10x1	4.1	8.8	22.9	3.0	4x1	1	11,032	●
ER32 / Hydro20	14x11	M10x1	4.1	10.8	20.7	3.0	4x1	2	14,032	●
ER32 / Hydro20	16x12	M10x1	4.1	11.8	19.7	3.0	4x1	2	16,032	●
ER32 / Hydro20	18x14.5 & 20x16	M10x1	4.1	14.3	18.0	3.0	4x1	2	18,032	●

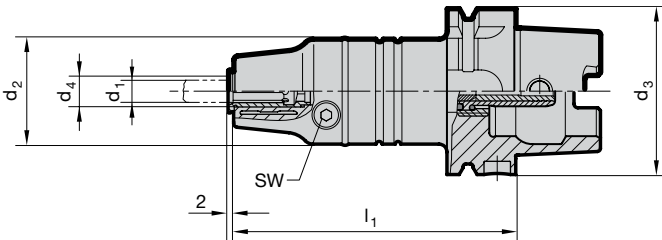
<p>MQL shrink fit chucks HSK-A auto. tool change</p> <p>4741  </p> <p>man. tool change</p> <p>4614  </p> <p>4735  </p> <p>4613  </p>		<p>MMS hydraulic tapping chucks HSK-A auto. tool change</p> <p>4210  </p> <p>man. tool change</p> <p>4612  </p> <p>4209  </p> <p>4611  </p>		<p>4508  </p> <p>MQL coolant delivery set for single channel HSK-A</p> 	<p>4511  </p> <p>MQL coolant delivery set for 2 channel systems HSK-A</p> 	<p>4513  </p> <p>MQL coolant delivery set HSK-A (filler)</p> 
						
 <p>4524  </p> <p>MQL Hydro-Ø 12/Ø 20 synchro tapping chucks with internal cooling Ø 20</p>		 <p>4602  </p> <p>MQL HSK-A hydraulic synchro tapping chucks for single channel auto. tool change</p>		 <p>4603  </p> <p>MQL HSK-A hydraulic synchro tapping chucks for 2 channel systems auto. tool change</p>		
		 <p>4604  </p> <p>MQL HSK-A hydraulic synchro tapping chucks man. tool change</p>				
		 <p>4305</p> <p>MQL setting screws with internal cone for MQL synchro tapping chucks</p>				
		 <p>4605</p> <p>Reduction bushes, sealed</p> <p>4606</p> <p>GÜHROJET reduction bushes</p>				
		 <p>Threading tool with MQL shank shank diameter x square</p>				

Product information

- for MQL 2 channel systems
- MQL coolant pressure up to max. 16 bar
- compensate synchronisation errors
- guarantees high thread quality and optimal tool life
- minimal length compensation in tension and compression direction balances very small pitch differences between synchro spindle and tap
- reduces an increase in axial forces during the cutting cycle to a minimum
- convenient hydraulic clamping using reduction bushes with active drive
- length-setting screw allows 3 mm readjustment
- Guhring MQL identifiable by green coloured ring

Scope of delivery

- incl. hexagon clamping key
Guhring no. 4912
- incl. MQL coolant delivery set for automatic tool change
- incl. adjustment key for MQL adjustment screws
- order MQL adjustment screw
Guhring no. 4305 separatel
- order reduction bushes Guhring no. 4605 or 4606 separately



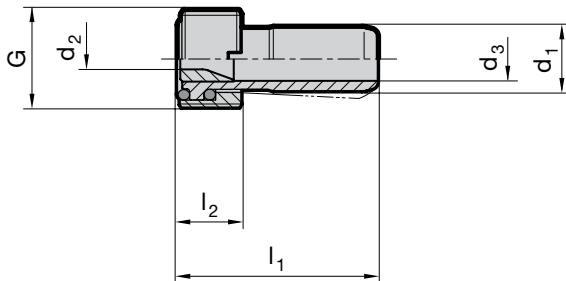
Guhring no.	4603
Discount group	114

HSK-A d ₃	d ₄ mm	for shank-Ø d ₁	for thread	d ₂ mm	l ₁ mm	tension/ compr. ± mm	SW	kg	Code no.	Availability
63	12.00	2.8-10	M3-M12	40	106.5	0.3	4	1.5	12,063	●
63	20.00	6-16	M8-M20	40	120.5	0.3	5	1.6	20,063	●
100	12.00	2.8-10	M3-M12	40	113.0	0.3	4	2.8	12,100	●
100	20.00	6-16	M8-M20	40	127.0	0.3	5	2.9	20,100	●

MQL coolant delivery set for single channel HSK-A

Product information

- to MQL standard
- version sim. to DIN 69895
- for MQL 1-channel systems
- for tool holders with automatic tool clamping
- Maßangaben d_2 und l_1 im eingebauten Zustand



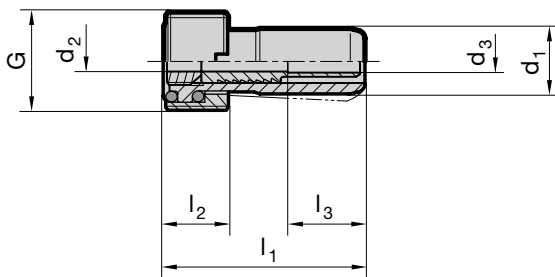
Guhring no. **4508**
Discount group **114**

for HSK-A	d_1 mm	d_2 mm	d_3 mm	l_1 mm	l_2 mm	G	Code no.	Availability
32	6.00	3.00	4.00	26.00	5.50	M10x1	10,032	●
40	8.00	3.80	5.40	29.50	7.50	M12x1	12,040	●
50	10.00	3.80	6.40	33.00	9.50	M16x1	16,050	●
63	12.00	3.80	8.00	36.50	11.50	M18x1	18,063	●
80	14.00	3.80	10.00	40.00	13.50	M20x1.5	20,080	●
100	16.00	3.80	12.00	44.00	15.50	M24x1.5	24,100	●

MQL coolant delivery set for 2 channel systems HSK-A

Product information

- to MQL standard
- version sim. to DIN 69895
- for MQL 2-channel systems
- for tool holders with automatic tool clamping
- Ausführung „Crashsafe“ analog DIN 69090-2 Übergabehals
- Maßangaben d_2 und l_1 im eingebauten Zustand



Guhring no. **4511**
Discount group **114**

for HSK-A	d_1 mm	d_2 mm	d_3 mm	l_1 mm	l_2 mm	l_3 mm	G	Code no.	Availability
32	6.00	3.00	4.00	26.00	5.50	-	M10x1	10,032	●
40	8.00	3.80	5.40	29.50	7.50	-	M12x1	12,040	●
50	10.00	3.60	4.00	33.00	9.50	21.00	M16x1	16,050	●
63	12.00	3.60	4.00	36.50	11.50	13.80	M18x1	18,063	●
80	14.00	3.60	4.00	40.00	13.50	14.00	M20x1.5	20,080	●
100	16.00	3.60	4.00	44.00	15.50	14.00	M24x1.5	24,100	●

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