

A close-up photograph of a Gühring hydraulic chuck. The chuck is a long, slender, cylindrical metal tool with a polished finish. It has a complex, multi-part top section with various ports and a flange. The tool is positioned vertically, with its tip pointing towards a workpiece. The background is a blurred industrial setting with metallic surfaces and a bright light source creating a lens flare effect.

GÜHRING

Hydraulic chuck slim cylindrical

Up to 200 mm usable length for machining
components with deep and complex contours



Hydraulic chuck slim cylindrical

Reaming to maximum depths

Fewer interfaces,
greater stability

When reaming components with deep and complex contours, extensions or expensive custom solutions are often essential. However, every additional interface affects stability and concentricity.

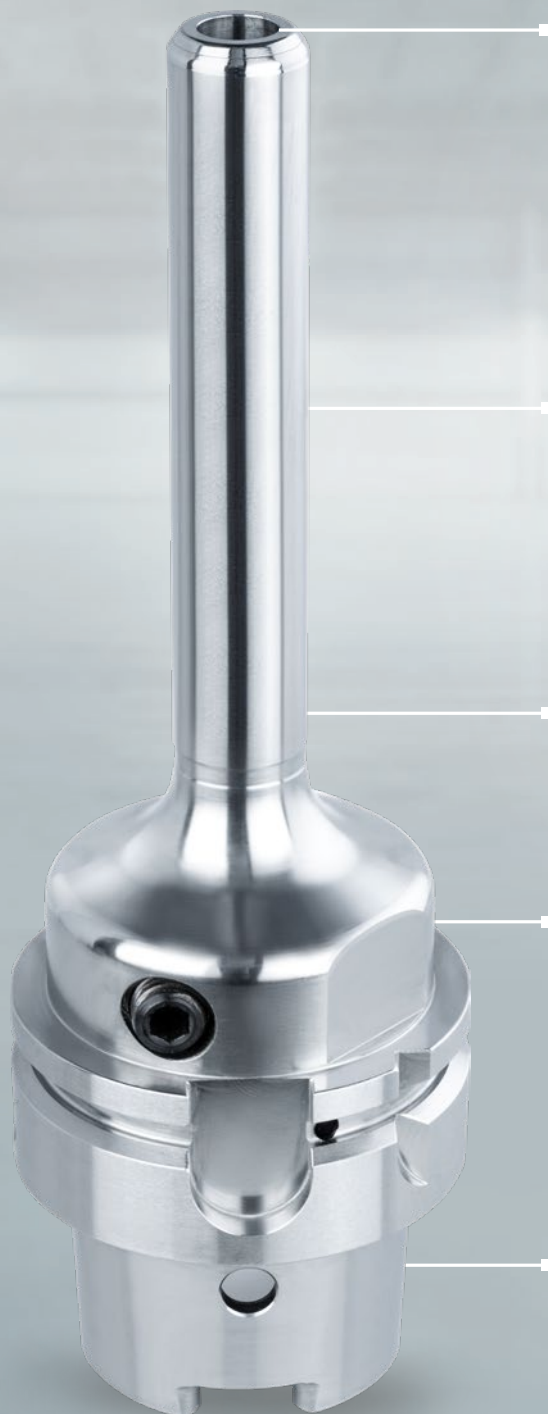
With the new hydraulic chuck in a slim, cylindrical design, Gühring offers the perfect solution in combination with the solid carbide reamer HR 500 T: the usable length of up to 200 mm eliminates the need for extensions and expensive special tools. This not only saves costs – it also improves machining quality by eliminating additional interfaces.

And even when compared to standard shrink fit chucks, the hydraulic chuck delivers up to 35 % longer tool life.

- X reaming with a usable length of up to 200 mm**
- X up to 35 % longer tool life**

X higher concentricity due to fewer interfaces

X maximum accessibility for complex workpiece geometries



**clamping diameters
from 6 to 20 mm**
for versatile reaming applications

**slim, cylindrical design with
usable lengths of up to 200 mm**
for maximum accessibility even
with deep contours

brightly polished surface
reduced susceptibility to rust

patented Z-geometry in the hydraulic system
for uniform distribution of clamping pressure

HSK-A / SK / MAS-BT interface
for maximum machine compatibility

Deep reaming in comparison

Hydraulic chuck vs. shrink fit chuck with extension:
Application with the solid carbide reamer HR 500 T.



**Hydraulic chuck
slim cylindrical #8175**

Machining
parameters:

v_c 200 m/min
 f 2 mm/rev
 a_p 25 mm

Tool life:

50 min

up to **35%** longer tool life
for the reamer



**Shrink fit chuck #4736
+ Extension #4719**

v_c 200 m/min
 f 2 mm/rev
 a_p 25 mm

37 min


HSK-A hydraulic chucks, slim cylindrical design

Article no. **8175**

Product information:

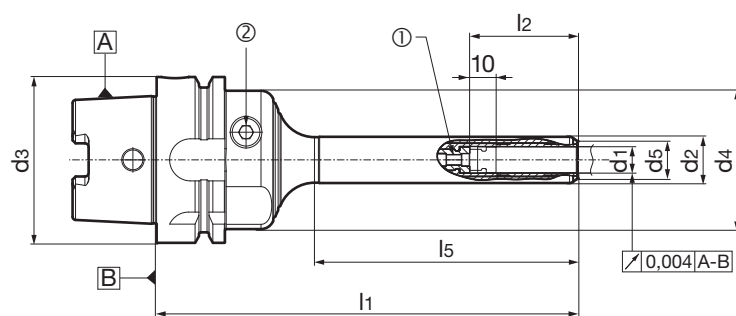
- HSK-A according to ISO 12164-1 / DIN 69893-1
- balancing quality: G 2.5 / 25,000 rev./min or rev. ≤ 1 gmm
- for tool shanks: d1 h6
- axial length adjustment
- Concentricity:
 $l1 \leq 120$ mm: max. 4 μ m at 2.5xD
 $l1 \leq 160$ mm: max. 6 μ m at 2.5xD
 $l1 \leq 200$ mm: max. 8 μ m at 2.5xD

scope of delivery:

- incl. adjusting screw (1) art. no. 6156
- incl. clamping screw (2) art. no. 4241

Suitable accessories separately available:

- coolant supply set art. no. 4949
- Replacement adjusting screw (1) art. no. 6156
- replacement clamping screw (2) art. no. 4241
- hexagonal key (2), art. no. 4912



Article no.

8175

d3	d1 mm	d2 mm	d4 mm	d5 mm	l1 mm	l2 mm	l5 mm	①	②	②	kg	Order no.
HSK-A 63	6	13.5	52.5	10	120	37	60	6156 6.941	4241 10.002	4912 5.000	1.0	8175 6.163
HSK-A 63	8	14.5	52.5	12	120	37	60	6156 8.940	4241 10.002	4912 5.000	1.0	8175 8.163
HSK-A 63	10	17.5	52.5	14	120	41	60	6156 10.950	4241 10.002	4912 5.000	1.0	8175 10.163
HSK-A 63	12	19.5	52.5	16	120	46	60	6156 12.900	4241 10.002	4912 5.000	1.1	8175 12.163
HSK-A 63	16	23.5	52.5	22	120	49	60	6156 16.900	4241 10.002	4912 5.000	1.1	8175 16.163
HSK-A 63	20	27.5	52.5	26.6	120	51	60	6156 20.900	4241 10.002	4912 5.000	1.2	8175 20.163
HSK-A 63	6	13.5	52.5	10	160	37	100	6156 6.941	4241 10.002	4912 5.000	1.0	8175 6.263
HSK-A 63	8	14.5	52.5	12	160	37	100	6156 8.940	4241 10.002	4912 5.000	1.0	8175 8.263
HSK-A 63	10	17.5	52.5	14	160	41	100	6156 10.950	4241 10.002	4912 5.000	1.1	8175 10.263
HSK-A 63	12	19.5	52.5	16	160	46	100	6156 12.900	4241 10.002	4912 5.000	1.1	8175 12.263
HSK-A 63	16	23.5	52.5	22	160	49	100	6156 16.900	4241 10.002	4912 5.000	1.3	8175 16.263
HSK-A 63	20	27.5	52.5	26.6	160	51	100	6156 20.900	4241 10.002	4912 5.000	1.4	8175 20.263
HSK-A 63	6	13.5	52.5	10	200	37	140	6156 6.941	4241 10.002	4912 5.000	1.1	8175 6.363
HSK-A 63	8	14.5	52.5	12	200	37	140	6156 8.940	4241 10.002	4912 5.000	1.1	8175 8.363
HSK-A 63	10	17.5	52.5	14	200	41	140	6156 10.950	4241 10.002	4912 5.000	1.2	8175 10.363
HSK-A 63	12	19.5	52.5	16	200	46	140	6156 12.900	4241 10.002	4912 5.000	1.2	8175 12.363
HSK-A 63	16	23.5	52.5	22	200	49	140	6156 16.900	4241 10.002	4912 5.000	1.4	8175 16.363
HSK-A 63	20	27.5	52.5	26.6	200	51	140	6156 20.900	4241 10.001	4912 5.000	1.5	8175 20.363



Hydraulic chuck SK, slim design (cylindrical)

Article no. **8176**



Product information:

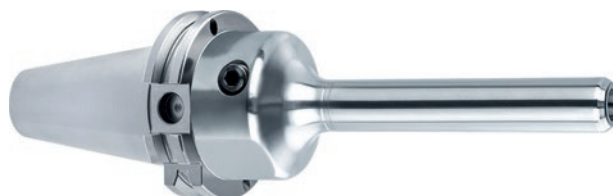
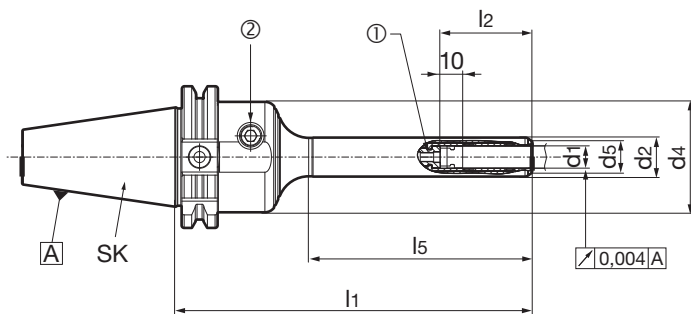
- ISO taper to DIN ISO 7388-1 form AD/AF
- balancing quality: G 2.5 / 25,000 rev./min or rev. ≤ 1 gmm
- for tool shanks: d1 h6
- axial length adjustment
- Concentricity:
 $l1 \leq 120$ mm: max. 4 μ m at 2.5xD
 $l1 \leq 160$ mm: max. 6 μ m at 2.5xD
 $l1 \leq 200$ mm: max. 8 μ m at 2.5xD

scope of delivery:

- incl. adjusting screw (1) art. no. 6156
- incl. clamping screw (2) art. no. 4241

Suitable accessories separately available:

- ISO pull studs art. no. 4925, 4926
- Replacement adjusting screw (1) art. no. 6156
- replacement clamping screw (2) art. no. 4241
- hexagonal key (2), art. no. 4912



Article no.

8176

d3	d1 mm	d2 mm	d4 mm	d5 mm	l1 mm	l2 mm	l5 mm	①	②	②	kg	Order no.
SK 40	6	13.5	49.5	10	120	37	60	6156 6.941	4241 10.002	4912 5.000	1.2	8176 6.140
SK 40	8	14.5	49.5	12	120	37	60	6156 8.940	4241 10.002	4912 5.000	1.2	8176 8.140
SK 40	10	17.5	49.5	14	120	41	60	6156 10.950	4241 10.002	4912 5.000	1.2	8176 10.140
SK 40	12	19.5	49.5	16	120	46	60	6156 12.900	4241 10.002	4912 5.000	1.3	8176 12.140
SK 40	16	23.5	49.5	22	120	49	60	6156 16.900	4241 10.002	4912 5.000	1.3	8176 16.140
SK 40	20	27.5	49.5	26.6	120	51	60	6156 20.900	4241 10.002	4912 5.000	1.4	8176 20.140
SK 40	6	13.5	49.5	10	160	37	100	6156 6.941	4241 10.002	4912 5.000	1.2	8176 6.240
SK 40	8	14.5	49.5	12	160	37	100	6156 8.940	4241 10.002	4912 5.000	1.2	8176 8.240
SK 40	10	17.5	49.5	14	160	41	100	6156 10.950	4241 10.002	4912 5.000	1.3	8176 10.240
SK 40	12	19.5	49.5	16	160	46	100	6156 12.900	4241 10.002	4912 5.000	1.3	8176 12.240
SK 40	16	23.5	49.5	22	160	49	100	6156 16.900	4241 10.002	4912 5.000	1.5	8176 16.240
SK 40	20	27.5	49.5	26.6	160	51	100	6156 20.900	4241 10.002	4912 5.000	1.5	8176 20.240
SK 40	6	13.5	49.5	10	200	37	140	6156 6.941	4241 10.002	4912 5.000	1.3	8176 6.340
SK 40	8	14.5	49.5	12	200	37	140	6156 8.940	4241 10.002	4912 5.000	1.3	8176 8.340
SK 40	10	17.5	49.5	14	200	41	140	6156 10.950	4241 10.002	4912 5.000	1.4	8176 10.340
SK 40	12	19.5	49.5	16	200	46	140	6156 12.900	4241 10.002	4912 5.000	1.4	8176 12.340
SK 40	16	23.5	49.5	22	200	49	140	6156 16.900	4241 10.002	4912 5.000	1.6	8176 16.340
SK 40	20	27.5	52.5	26.6	200	51	140	6156 20.900	4241 10.001	4912 5.000	1.7	8176 20.340



MAS/BT hydraulic chucks, slim cylindrical design

Article no. 8177



Product information:

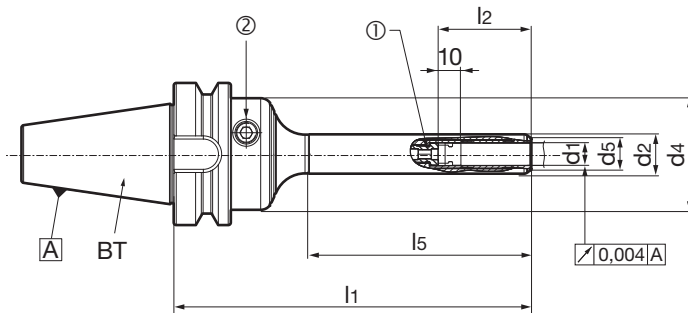
- MAS/BT according to DIN ISO 7388-2 form JD/JF
- balancing quality: G 2.5 / 25,000 rev./min or rev. ≤ 1 gmm
- for tool shanks: d1 h6
- axial length adjustment
- Concentricity:
 $l1 \leq 120$ mm: max. 4 μ m at 2.5xD
 $l1 \leq 160$ mm: max. 6 μ m at 2.5xD
 $l1 \leq 200$ mm: max. 8 μ m at 2.5xD

scope of delivery:

- incl. adjusting screw (1) art. no. 6156
- incl. clamping screw (2) art. no. 4241

Suitable accessories separately available:

- BT pull studs art. no. 4927, 4928
- Replacement adjusting screw (1) art. no. 6156
- replacement clamping screw (2) art. no. 4241
- hexagonal key (2), art. no. 4912



Article no.

8177

d3	d1 mm	d2 mm	d4 mm	d5 mm	l1 mm	l2 mm	l5 mm	①	②	②	kg	Order no.
BT 40	6	13.5	49.5	10	120	37	60	6156 6.941	4241 10.002	4912 5.000	1.2	8177 6.140
BT 40	8	14.5	49.5	12	120	37	60	6156 8.940	4241 10.002	4912 5.000	1.2	8177 8.140
BT 40	10	17.5	49.5	14	120	41	60	6156 10.950	4241 10.002	4912 5.000	1.3	8177 10.140
BT 40	12	19.5	49.5	16	120	46	60	6156 12.900	4241 10.002	4912 5.000	1.3	8177 12.140
BT 40	16	23.5	49.5	22	120	49	60	6156 16.900	4241 10.002	4912 5.000	1.4	8177 16.140
BT 40	20	27.5	49.5	26.6	120	51	60	6156 20.900	4241 10.002	4912 5.000	1.4	8177 20.140
BT 40	6	13.5	49.5	10	160	37	100	6156 6.941	4241 10.002	4912 5.000	1.3	8177 6.240
BT 40	8	14.5	49.5	12	160	37	100	6156 8.940	4241 10.002	4912 5.000	1.3	8177 8.240
BT 40	10	17.5	49.5	14	160	41	100	6156 10.950	4241 10.002	4912 5.000	1.3	8177 10.240
BT 40	12	19.5	49.5	16	160	46	100	6156 12.900	4241 10.002	4912 5.000	1.4	8177 12.240
BT 40	16	23.5	49.5	22	160	49	100	6156 16.900	4241 10.002	4912 5.000	1.5	8177 16.240
BT 40	20	27.5	49.5	26.6	160	51	100	6156 20.900	4241 10.002	4912 5.000	1.6	8177 20.240
BT 40	6	13.5	49.5	10	200	37	140	6156 6.941	4241 10.002	4912 5.000	1.3	8177 6.340
BT 40	8	14.5	49.5	12	200	37	140	6156 8.940	4241 10.002	4912 5.000	1.3	8177 8.340
BT 40	10	17.5	49.5	14	200	41	140	6156 10.950	4241 10.002	4912 5.000	1.4	8177 10.340
BT 40	12	19.5	49.5	16	200	46	140	6156 12.900	4241 10.002	4912 5.000	1.5	8177 12.340
BT 40	16	23.5	49.5	22	200	49	140	6156 16.900	4241 10.002	4912 5.000	1.6	8177 16.340
BT 40	20	27.5	52.5	26.6	200	51	140	6156 20.900	4241 10.001	4912 5.000	1.8	8177 20.340



Hydraulic chuck slim cylindrical

GÜHRING

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