



CLAMPING TECHNOLOGY

Europe's leading system partner for quality tools

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suttontools
world class cutting tools

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DIN
6359

ISO
7388-2

JIS
B6339


HPC

MAS-BT - Side lock arbors Weldon – JIS B 6339

30 2593/2596/2606/2650/2655 – All shanks hard turned (for smooth running). Balancing quality G2.5 / 25,000 rpm. **With coolant supply holes that can be plugged.**

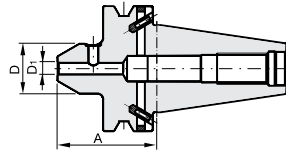
30 2597/2607/2617/2657/2667 – All shanks fine bead blasted. Balancing quality G6.3 / 18,000 rpm.

30 2605/2615/2665 – Coolant channel bore can be plugged with an O-ring.

Application: For clamping tools with side flats to DIN 1835 B and DIN 6535 HB.

Optional extras: Pull studs (PS) No. 308760 – 308806. Pull stud wrenches No. 308820; 308835.

Side lock arbors, Weldon



Clamping $\varnothing D_1$				mm	6	8	10	12	14	16	18	20	25	32
31A	30 2593	Garant	Side lock arbor Form AD with cooling channel bores	BT 30 short	•	•	•	•	•	•	•	•	–	–
32A	30 2597	HOLEX	Side lock arbors Form AD	BT 30 short	•	•	•	•	–	•	–	•	–	–
31A	30 2596	Garant	Side lock arbor Form ADB with cooling channel bores	BT 40 short	•	•	•	•	•	•	•	•	•	•
32A	30 2607	HOLEX	Side lock arbor Form AD	BT 40 short	•	•	•	•	–	•	–	•	•	•
31A	30 2606	Garant	Side lock arbor Form ADB with cooling channel bores	BT 40 A = 100	•	•	•	•	•	•	•	•	–	–
NEW 32A	30 2617	HOLEX	Side lock arbor Form AD	BT 40 A = 100	•	•	•	•	–	•	–	•	–	–
31A	30 2650	Garant	Side lock arbor Form ADB with cooling channel bores	BT 50 short	•	•	•	•	–	•	–	•	•	•
32A	30 2657	HOLEX	Side lock arbor Form AD	BT 50 short	•	•	•	•	–	•	–	•	•	•
31A	30 2655	Garant	Side lock arbors Form ADB with cooling channel bores	BT 50 A = 100	•	•	•	•	•	•	•	•	–	–
NEW 32A	30 2667	HOLEX	Side lock arbor Form AD	BT 50 A = 100	•	•	•	•	–	•	–	•	–	–
Dimension A (30 2593, 30 2597)				mm	50	50	50	55	55	63	63	70	–	–
Dimension A (30 2596, 30 2607)				mm	50	50	63	63	63	63	63	63	90	100
Dimension A (30 2650, 30 2657)				mm	63	63	70	80	–	80	–	80	100	105
$\varnothing D$				mm	25	28	35	42	44	48	50	52	65	72
Spare clamping screw 309900					6	8	10	12	12	16	16	20	25	32

ISO
7388-2

JIS
B6339


HSC

MAS-BT - ER collet chuck – JIS B6339

External and internal taper ground.

30 2745/2755/2765/2818/2828 – • All shanks hard turned (for smooth running!).

Balancing quality G2.5/25,000 rpm.

- Clamping nut balanced for HSM (G2.5/25,000 rpm).
- Optimum wear characteristics and torque transmission due to the coated precision clamping nut.

30 2747/2757/2767/2817/2827 – • All shanks fine bead blasted. Balancing quality G6.3 / 18,000 rpm.

- High-quality precision clamping nut.

Application: For clamping tools with parallel shank in collets to **DIN 6499 Form A and B.**

Supplied with: ER clamping nut.

Optional extras: ER collets No. 308881 – 309434, ER chuck key No. 309680 – 309720.
Pull studs (PS) No. 308760 – 308806. Pull stud wrenches No. 308820; 308835.

Note: Matching clamping nut No. 309580 or 309610.

G 2.5
25000
min⁻¹

Form
AD


30 2745

G 2.5
25000
min⁻¹

Form
ADB


30 2755

G 2.5
25000
min⁻¹

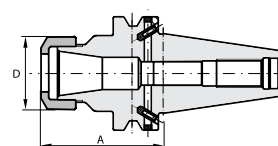
Form
ADB


30 2818

G 6,3
18000
min⁻¹

Form
AD


30 2757



for ER collets				ER	16	20	25	32	40
31A	30 2745	Garant	ER collet chuck	BT 30 A = 60	•	•	•	•	—
32A	30 2747	HOLEX	Form AD	BT 30 A = 60	•	•	•	—	—
31A	30 2755	Garant	ER collet chuck	BT 40 short	•	•	•	•	•
			Form ADB						
32A	30 2757	HOLEX	ER collet chuck	BT 40 short	•	—	•	•	•
			Form AD						
31A	30 2765	Garant	ER collet chuck	BT 40 A = 100	•	•	•	•	•
			Form AD						
32A	30 2767	HOLEX	Form AD	BT 40 A = 100	•	—	•	•	•
36E	30 2800		ER collet chuck	BT 40 A = 160	•	—	•	•	•
		Garant	Form ADB						
31A	30 2818		Form ADB	BT 50 short	•	•	•	•	•
32A	30 2817	HOLEX	ER collet chuck	BT 50 short	•	—	•	•	•
			Form AD						
36E	30 2820		ER collet chuck	BT 50 short	•	—	•	•	•
		Garant	Form ADB						
31A	30 2828		Form ADB	BT 50 A = 100	•	•	•	•	•
32A	30 2827	HOLEX	ER collet chuck	BT 50 A = 100	•	—	•	•	•
			Form AD						
Clamping range				mm	0.5 – 10	1 – 13	1 – 16	2 – 20	3 – 26
Dimension A (30 2755, 30 2757, 30 2820)				mm	70	70	70	70	80
Dimension A (30 2818, 30 2817)				mm			80		
Ø D				mm	28	34	42	50	63
Spare ER clamping nut (30 9580)					16	20	25	32	40
ER chuck key (30 9680)					16	20	25	32	40

NEW

ISO 7388-2	JIS B6339	Form ADB	G 2.5 25000 min ⁻¹		HPC	HSC
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Garant MAS-BT - HiRunER Precision ER collet chuck – JIS B6339

External and internal tapers are ground. All shanks are hard turned for a smooth cutting action. Including Balluffchip bore, high-performance clamping nut (up to 25000 rpm).

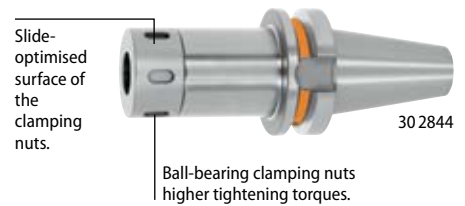
- Advantage:**
- **Excellent concentricity in the system** (chuck + collet + clamping nut), 3µm radial run-out with a 2µm collet, 6µm radial run-out with a 5µm collet.
 - **Extremely strong holding force** (up to **factor 2** better than the standard ER chuck).
 - **Vibration reduction effect** due to 2-part clamping nut.

Application: For clamping tools with plain shank in collets to DIN 6499 – Form A and B.

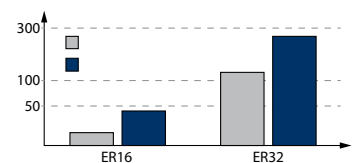
Supplied with: Precision clamping nut.

Optional extras: Pull studs (PS) No. 308760 – 308806,
PS wrenches No. 308820 – 308835,
ER collets No. 308881 – 309434,
Fahrion ER collets 308901 - 309434,
ER clamping wrenches No. 309748 – 309749.

- Note:**
- Clamps only nominal Ø up to shank Ø tolerance h 10.
 - Do not use the clamping nut in combination with a sealing washer.
 - Use it in only combination with Fahrion collets.



Mini – size 11M/ 16M (extremely slim design).



for ER collets		ER	11M	16M	16	25	32	40
31A	30 2839	HiRunER precision ER collet chuck	BT 30 A = 60	•	•	•	•	–
31A	30 2843		BT 40 A = 70	–	–	•	•	•
31A	30 2844		BT 40 A = 100	•	•	•	•	•
Clamping range		mm	1 – 7	1 – 10	0.5 – 10	1 – 16	2 – 20	3 – 26
Ø D		mm	16	24	34	44	52	62
Spare ER clamping nut			309618 11M	309618 16M	–	–	–	–
Spare ER clamping nut 309617			–	–	16	25	32	40



HiRunER -> the full surface of the collet is seated in the chuck -> higher retention forces! -> better concentricity.

Standard ER chuck -> Collets are not inserted 100 % into the chuck.

ISO 7388-2	JIS B6339	Form AD	G 6.3 15000 min ⁻¹	 $\leq 5 \mu\text{m}$	HPC
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MAS-BT - Heavy-duty chuck – JIS B6339

- Low friction due to needle bearings.
- Protected with anti-corrosion coating.
- Dust-tight and watertight.
- Very high clamping force prolongs tool life and improves surface quality.
- Flexible clamping range by means of collets.

30 2879 – **Clamping force up to 150 Nm at $\varnothing$ 12, up to 300 Nm at $\varnothing$ 16 and up to 400 Nm at $\varnothing$ 20.**

30 2865/2870 – **Clamping force up to 1000 Nm.**

Advantage:

30 2879 – Low interference contour due to slim design.

Application: For clamping tools with plain shanks.

Supplied with: Clamping nut

Optional extras: C wrench No. 628400.

Pull studs No. 308760 – 308795.

30 2879 – Collets No. 309581 – 309582, tightening wrench No. 309447.

30 2861/2862 – Collets No. 309575 – 309576.

30 2865/2870 – Collets No. 309566 – 309570.



30 2865



30 2879

Internal axial recesses

effectively prevent the tool slipping.

T-slots

take up the oil and grease so that reliable torque transmission is achieved.

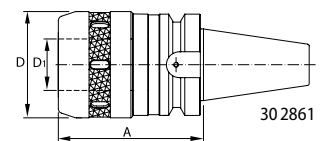


Absolutely smooth running of the clamping nut.

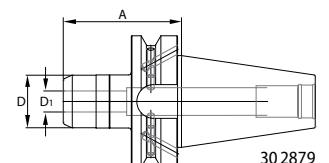
High radial stiffness

due to repeatable clamping accuracy against a flat face, which prevents misalignment and ensures highly accurate machining coupled with long tool life.

$\varnothing$ D ₁		mm	12	16	20	32
32A	30 2865	HOLEX	BT 40	—	—	—
32A	30 2870	HOLEX	BT 50	—	—	—
32A	30 2879	HOLEX Heavy-duty chuck slim	BT 40	—	—	—
Dimension A			70	70	90	105
$\varnothing$ D (30 2861, 30 2862)			—	—	52	73
$\varnothing$ D (30 2865, 30 2870)			—	—	52	66
$\varnothing$ D (30 2879)			30	38	44	—
suitable hook spanner 628400 (30 2861, 30 2862, 30 2865, 30 2870)			—	—	52 / 55	68 / 75
suitable tightening wrench 309747 (30 2879)			S10	S16	S20	—



30 2861



30 2879

Garant

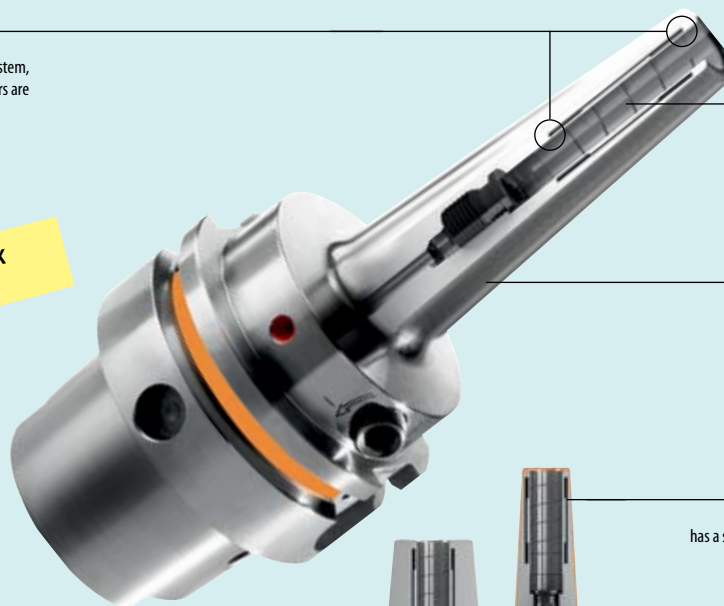
Hydraulic chucks



Temperature-resistant

Due to the sintered structure and the resulting enclosed system, no soldered pressure chambers are necessary, which enables use of the chuck up to 120 °C.

Available as BT/SK, HSK and BT arbors



For reliable

clamping of tool shanks forms HA, HB and HE.



High precision

Concentricity $\leq 3 \mu\text{m}$.



Exceptionally slim

The GARANT hydraulic chuck has a significantly more streamlined design than the standard hydraulic chuck.



DIN
6357

MAS-BT - Face mill adapter – JIS B 6339

30 3007/3017/3027/3037 –

All shanks fine bead blasted. Balancing quality G6.3 / 18,000 rpm. Form A.

30 3010–3015/3025/3035 –

All shanks hard turned (for smooth running!). Balancing quality G2.5 / 25,000 rpm. Form ADB. With 4 cooling channel bores.

Supplied with: Lock screw.

G 2.5
25000
min⁻¹


30 3015

G 2.5
25000
min⁻¹

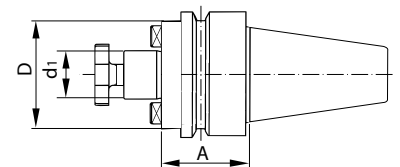

30 3025

G 6,3
18000
min⁻¹


30 3017

G 2.5
25000
min⁻¹


30 3035



Spigot Ø d ₁			mm	16	22	27	32	40
31A	30 3010	Garant Face mill arbor with cooling channel bore form ADB	BT 30 short	•	•	•	–	–
32A	30 3007	HOLEX Face mill arbor Form A	BT 30 short	•	•	•	–	–
31A	30 3015	Garant Face mill arbor with cooling channel bore form ADB	BT 40 short	•	•	•	•	•
32A	30 3017	HOLEX Face mill arbor Form A	BT 40 short	•	•	•	•	•
31A	30 3025	Garant Face mill arbor with cooling channel bore form ADB	BT 40 A = 100	•	•	•	•	•
32A	30 3027	HOLEX Face mill arbor Form A	BT 40 A = 100	•	•	•	•	–
31A	30 3035	Garant Face mill arbor with cooling channel bore form ADB	BT 50 A = 100	–	•	•	•	•
32A	30 3037	HOLEX Face mill arbor Form A	BT 50 A = 100	–	•	•	•	•
Dimension A (30 3010, 30 3007, 30 3020)			mm	35	40	40	50	50
Dimension A (30 3015, 30 3017)			mm	35	35	35	50	50
Ø D (30 3010, 30 3007, 30 3015, 30 3017, 30 3025, 30 3027)			mm	38	48	50	78	89
Ø D (30 3020, 30 3045)			mm	–	48	58	78	88
Ø D (30 3035, 30 3037)			mm	–	48	60	78	89
Spare milling cutter lock screw 309860				16	22	27	32	40
suitable special toggle spanner 309840				16	22	27	32	40

NEW

DIN 6357	DIN 69882-3	DIN 69893	ISO 12164-1	Form A	G 6.3 8000 min ⁻¹	≤6μm	HPC	
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Garant MAS-BT - Face mill arbors, vibration damped

- Plain shank.
- Taper shank, spigot, and all contact surfaces are ground at the collar.
- With Balluffchip bore.
- Larger collar contact face..
- **Vibration damped version, arbor with vibration-damping core.**

Advantage: Significantly lower tendency to vibrate. Considerable increase in feed rate.

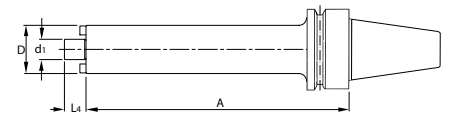
Supplied with: Cutter lock screw and drive dog.

Optional extras: Special toggle spanner No. 309840.

Note: Further sizes on request.



Spigot Ø d ₁		mm	16	22	27	32
31A 30 3050	Face mill arbor vibration damped	BT 40 A = 200	•	•	•	—
31A 30 3051		BT 40 A = 300	•	•	—	—
31A 30 3054		BT 50 A = 200	•	•	•	—
31A 30 3055		BT 50 A = 300	•	•	•	•
31A 30 3056		BT 50 A = 400	•	•	•	—
Ø D		mm	38	48	58	78
L ₄		mm	17	19	21	24



DIN 6383	ISO 7388-2	JIS B6339	G 6.3 15000 min ⁻¹	≤8μm
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HOLEX MAS-BT - Reducing adapters for tools with MT shank – JIS B 6339

Ground internally and externally.

Application: For clamping tools with MT shank.

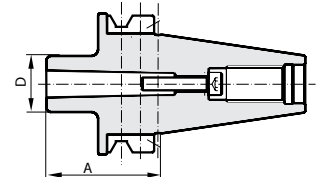
Optional extras: Pull studs (PS) No. 308760 – 308806.

For MT tools with tang to DIN 228-B

MT internal			1	2	3	4
32A 30 3082	Reducing adapter SK / MT for tangs, form AD	BT 40	•	•	•	•
32A 30 3087		BT 50	•	•	•	•
Dimension A (30 3082)		mm	50	50	70	95
Dimension A (30 3087)		mm	45	60	65	95
Ø D		mm	25	32	40	48

For MT tools with draw thread to DIN 228-A

MT internal			2	3	4
32A 30 3092	Reducing adapter SK / MT for locking threads, form A	BT 40	•	•	•
32A 30 3097		BT 50	•	•	•
Dimension A (30 3092)		mm	50	70	95
Dimension A (30 3097)		mm	60	65	70
Ø D		mm	32	40	48



ISO
7388-2

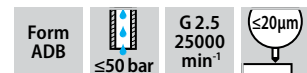
JIS
B6339

MAS-BT - Short drill chucks – with chuck key operation – JIS B6339

For clockwise and anticlockwise rotation.

- 30 3165–3172 – Slim design.
- Specific coolant transfer to tools with IC.
- Optimum holding torques at the tool.
- 30 3171–3176 – Concentricity $\leq 20 \mu\text{m}$.

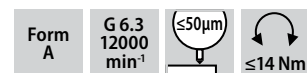
Supplied with: Clamping wrench.

Optional extras: Pull studs (PS) No. 308760 – 308806. Pull stud wrenches No. 308820; 308835.


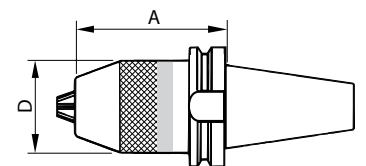
30 3175_0,5-16



30 3175_0,3-10



30 3165

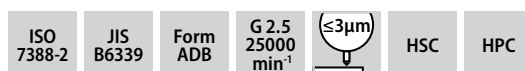


30 3171_0,5-13



30 3171_1-16

Clamping range		mm		0,3-10	0,5-13	0,5-16	1-16	2,5-16
31B	30 3171	Garant	Short drill chuck	BT 40	—	•	—	•
31B	30 3172	Garant	Form AD	BT 50	—	—	•	—
31B	30 3175	Garant	Short drill chuck	BT 40	•	—	•	—
31B	30 3176	Garant	Form ADB	BT 50	—	—	•	—
32K	30 3165	HOLEX	Short drill chuck	BT 40	—	—	—	•
32K	30 3166	HOLEX	Form A	BT 50	—	—	—	•
Dimension A (30 3171, 30 3175, 30 3165)		mm		73	92	98	95	95
Dimension A (30 3172, 30 3176, 30 3166)		mm		—	—	110	106	106
Ø D		mm		38	43	57	50	50
Spare Torx® screwdriver 625220				—	TX25	—	TX25	TX25
Spare hexagon screwdriver 627425				4 AF	—	6 AF	—	—



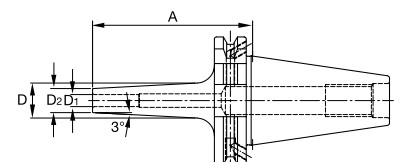
Garant MAS-BT - Shrink-fit chucks 3° (for tool-making and mould-making) – JIS B6339

- All shanks hard turned.
 - Extra slim design (3° contour).
- Application:**
- Especially for tool and mould making.
 - Wherever reduced interference contours are required.
 - For clamping tools with shank tolerance h6.

Optional extras: Pull studs (PS) No. 308760 – 308806, shrink-fit chuck extensions No. 302410, sizes 12/3 and 12/4, shrink-fit units No. 354210 – 304450, PS wrenches No. 308820 – 308835.

Note: No length adjustment available!


30 3443



Clamping range Ø D ₁		mm	3	4	5	6	8	10	12
31A	30 3443	Shrink-fit chuck 3°	BT 40	•	•	•	•	•	•
			A = 90						
Ø D		mm	14	15	16	19	21	23	25
Ø D ₂		mm	9	10	11	12	14	16	18

ISO 7388-2	JIS B6339	G 2.5 25000 min ⁻¹		HSC	HPC
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Garant MAS-BT - Shrink-fit chucks 4.5° – JIS B6339

- Integral tool length adjustment, range 10 mm (from Ø 6).
- Size 3-5 for carbide, from size 6 for HSS and carbide.

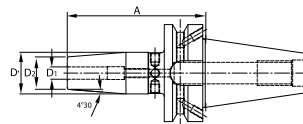
Standard: Similar to E-DIN 69882-8, form G.

Application: For clamping tools with parallel shank to h6 tolerance.

Optional extras: Pull studs (PS), No. 308760 – 308806, shrink-fit chuck extension No. 302410 – 302417, shrink-fit units No. 354210 – 354400.



Form
ADB



NEW

Clamping range Ø D ₁			mm	3	4	5	6	8	10	12	14	16	18	20	25
31A	30 3405	Shrink-fit chuck Form AD	BT 30 short	•	•	•	•	•	•	•	•	•	•	•	–
31A	30 3407	Shrink-fit chuck Form AD with cooling channel bores	BT 30 short	–	–	–	•	•	•	•	–	•	–	•	–
31A	30 3410	Shrink-fit chuck Form ADB	BT 40 short	•	•	•	•	•	•	•	•	•	•	•	•
31A	30 3415	Shrink-fit chuck, Form ADB with cooling channel bore	BT 40 short	–	–	–	•	•	•	•	•	•	•	•	•
31A	30 3425	Shrink-fit chuck Form ADB	BT 40 A = 120	–	–	–	•	•	•	•	•	•	•	•	•
31A	30 3427	Shrink-fit chuck Form ADB	BT 40 A = 130	•	•	•	•	•	•	•	•	•	•	•	•
31A	30 3428	Shrink-fit chucks Form ADB with cooling channel bore	BT 40 A = 130	–	–	–	•	•	•	•	•	•	•	•	–
31A	30 3430	Shrink-fit chuck Form ADB	BT 40 A = 160	–	–	–	•	•	•	•	•	•	•	•	•
31A	30 3445	Shrink-fit chuck Form ADB	BT 50 A = 100	–	–	–	•	•	•	•	•	•	•	•	•
Dimension A (30 3405, 30 3407)			mm	80	80	80	80	80	80	80	80	80	90	90	–
Dimension A (30 3410, 30 3415)			mm	90	90	90	90	90	90	90	90	90	90	90	100
Ø D			mm	17	17	17	27	27	32	32	34	34	42	42	53
Ø D ₂			mm	12	12	12	21	21	24	24	27	27	33	33	44

ISO
7388-2

JIS
B6339

Form
AD

G 2.5
25000
min⁻¹

≤3μm

HPC

HSC

Garant MAS-BT - Slim hydraulic chuck 3° – JIS B6339

- Extremely slim design (3° contour).
- Ideal damping characteristics.
- Axial length adjustment facility.
- Shanks hard turned.

Application:

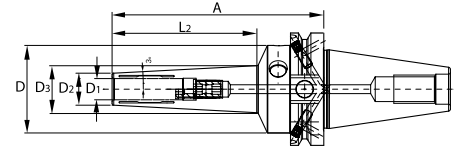
- Especially for tool and mould making.
- Wherever reduced interference contours are required.
- For drilling, reaming and milling.
- For clamping tools with shank tolerance h6.

Supplied with: Hexagon socket drive with T-handle.

Optional extras: Pull studs (PS) No. 308760 – 308806, Slotted reducing sleeves No. 302135 – 302180.



30 3465



Clamping Ø D ₁	mm	3	4	5	6	8	10	12	16	20
31A 30 3446	BT 30 A = 85	•	•	•	•	•	•	•	–	–
31A 30 3465	BT 40 A = 120	•	•	•	•	•	•	•	•	•
31A 30 3467	BT 40 A = 160	–	–	–	•	•	•	•	–	–
31A 30 3468	BT 40 A = 200	–	–	–	•	•	•	•	–	–
Ø D ₂ (30 3446)	mm	10	12	13	14	16	18	20	–	–
Ø D ₂ (30 3465)	mm	9	10	11	12	14	16	18	24	28
Ø D ₂ (30 3467, 30 3468)	mm	–	–	–	16	18	20	22	–	–
Ø D ₃ (30 3446)	mm	14.7	16.7	17.7	18.8	20.8	22.9	24.9	–	–
Ø D ₃ (30 3465)	mm	16.5	17.5	18.5	19.5	21.5	23.7	25.8	31.4	35.5
Ø D ₃ (30 3467)	mm	–	–	–	33.5	34.6	36.3	37.9	–	–
Ø D ₃ (30 3468)	mm	–	–	–	37.9	38.9	40.6	42.2	–	–
Ø D (30 3446)	mm	40	40	40	40	40	40	40	–	–
Ø D (30 3465, 30 3467, 30 3468)	mm	49.5								
L ₁ (30 3446)	mm	45	45	45	46	46	47	47	–	–
L ₁ (30 3465)	mm	71	71	71	73	74	74	75	79	80
L ₁ (30 3467)	mm	–	–	–	111	111.5	113	114	–	–
L ₁ (30 3468)	mm	–	–	–	152.5	152.5	154	155	–	–

ISO
7388-2

JIS
B6339

Form
ADB

G 2.5
25000
min⁻¹

≤3μm

HSC

HPC

MAS-BT - Hydraulic chuck – version HT (High Torque) – JIS B6339

- Very high overall stiffness due to optimised design.
- Axial length adjustment, adjustment travel 10 mm.

Advantage:

- Maximum transmissible torque 550 Nm, version HT (High Torque), for high process reliability.
- Ideal damping characteristics, resulting in optimum surface finishes, increased tool life and spindle protection.
- Temperature resistance up to 120 °C.

Application: Especially for heavy-duty milling.

Supplied with: Hexagon cross-bar wrench.

Optional extras: Pull studs (PS) No. 308760 – 308806.



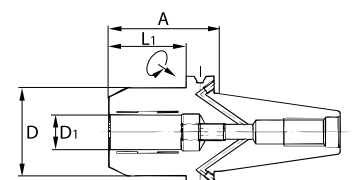
30 3450



30 3451

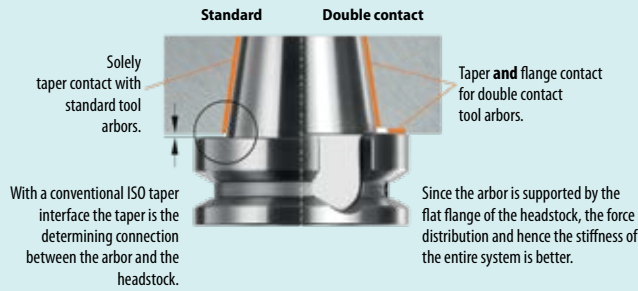


30 3459



Clamping range Ø D ₁	mm	12	16	20	32
31H 30 3450	HT chuck	•	–	•	–
31H 30 3451	HT chuck with cooling channel bores	•	•	•	–
32A 30 3459	HT chuck	–	–	•	–
31H 30 3452	HT chuck	–	–	•	•
32A 30 3469	HT chuck	–	–	•	–
Dimension A (30 3450, 30 3451, 30 3459)	mm	58	72.5	72.5	–
Dimension A (30 3452, 30 3469)	mm	–	–	83.5	90
Ø D (30 3450, 30 3451, 30 3452)	mm	42	46	49	72
Ø D (30 3459, 30 3469)	mm	–	–	49.25	–
L ₁ (30 3450, 30 3459)	mm	31	–	45	–
L ₁ (30 3451, 30 3452, 30 3469)	mm	31	45.5	45.5	52
suitable reducing adapter		302140 / 302135	–	302160 / 302155	302180 / 302175

Garant MAS-BT - Tool arbors JIS B 6339 with double contact



The double contact between the taper and the flat flange creates a more stable and precise clamping situation.

The result:

- Better surface quality.
- Longer tool life times.
- Consistent seating in the headstock, even at high speeds.
- Smaller radial run-out.



Send us your enquiry or ask your contact person.

DIN 6359	ISO 7388-2	JIS B6339	Form AD	G 2.5 25000 min ⁻¹	≤3μm	HPC	BT-DC
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Garant MAS-BT - Side lock arbor (Weldon) – JIS B6339 with double contact

All shanks hard turned (for smooth running!). With Balluffchip bore.

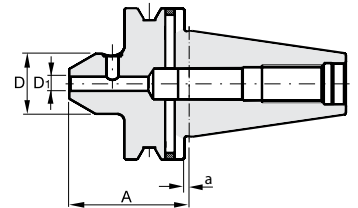
Application: For clamping tools with side flats to DIN 1835 B and DIN 6535 HB.

Optional extras: Pull studs (PS) No. 308760 – 308806. Pull stud wrenches No. 308820; 308835.



30 3640

Clamping range Ø D	mm	6	8	10	12	16	20	25
31A 30 3610	Side lock arbor	•	•	•	•	•	•	–
31A 30 3640	Form AD	•	•	•	•	•	•	•
31A 30 3670	Form AD	•	•	•	•	•	•	•
Dimension A (30 3610)	mm	50	50	50	55	63	70	–
Dimension A (30 3640)	mm	50	50	63	63	63	63	90
Dimension A (30 3670)	mm	63	63	70	80	80	80	100
a (30 3610, 30 3640)	mm	1						
a (30 3670)	mm	1.5						
Ø D	mm	25	28	35	42	48	52	65
Spare clamping screw 309900		6	8	10	12	16	20	25



ISO 7388-2	JIS B6339	Form AD	G 2.5 25000 min ⁻¹	≤3μm	HSC	BT-DC
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Garant MAS-BT - ER collet chuck – JIS B6339 with double contact

Taper ground internally and externally. All shanks hard turned (for smooth running!). With Balluffchip bore.

- High-quality precision clamping nut.
- Clamping nut balanced for HSM (G2.5/25,000 rpm).
- Optimum wear characteristics and torque transmission due to the coated precision clamping nut.

Application: For clamping tools with parallel shank in collets to DIN 6499 Form A and B.

Supplied with: ER clamping nut.

Optional extras: ER collets No. 308881 – 309434, ER chuck key No. 309680 – 309720.

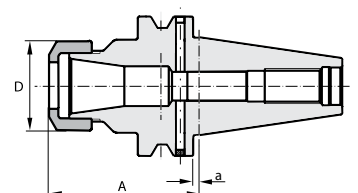
Pull studs (PS) No. 308760 – 308806. Pull stud wrenches No. 308820; 308835.

Note: Matching clamping nut No. 309580 or 309610.



30 3710

for ER collets	ER	16	20	25	32	40
31A 30 3690	ER Collet Chuck	•	•	•	•	–
31A 30 3710	Form AD	•	–	•	•	•
31A 30 3740	Form AD	•	–	•	•	•
Clamping range	mm	0.5 – 10	1 – 13	1 – 16	2 – 20	3 – 26
Dimension A (30 3690)	mm	60	60	60	70	–
Dimension A (30 3710)	mm	70	–	70	70	80
Dimension A (30 3740)	mm	80	–	80	80	80
a (30 3690, 30 3710)	mm	1				
a (30 3740)	mm	1.5	–	1.5	1.5	1.5
Ø D	mm	28	34	42	50	63
Spare ER clamping nut 309580		16	20	25	32	40
ER clamping wrench 309680		16	20	25	32	40



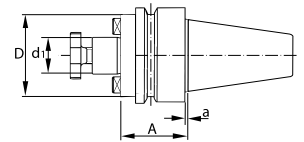
DIN 6357	ISO 7388-2	JIS B6339	Form AD		G 2.5 25000 min ⁻¹		HPC	
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Garant MAS-BT - Face mill arbors – JIS B6339 with double contact

All shanks hard turned (for smooth running!). With Balluffchip bore and coolant duct bores.

Supplied with: Lock screw.

Optional extras: Pull studs (PS) No. 308760 – 308806. Special toggle spanner No. 309840.



Spigot Ø d ₁		mm	16	22	27	32
31A 30 3780	Face mill arbor Form AD	BT 30 short	•	•	•	—
31A 30 3800		BT 40 short	•	•	•	•
Dimension A (30 3780)		mm	35	40	40	—
Dimension A (30 3800)		mm	35	35	35	50
a		mm	1			
Ø D		mm	38	48	50	78
Spare milling cutter lock screw 309860			16	22	27	32
suitable special toggle spanner 309840			16	22	27	32

ISO 7388-2	JIS B6339	Form AD	G 2.5 25000 min ⁻¹		HSC	HPC	
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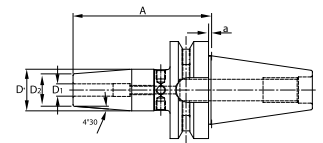
Garant MAS-BT - Shrink-fit chucks 4.5° – JIS B6339 with double contact

- High-temperature steel.
- Integral tool length adjustment, adjustment track 10 mm.
- Suitable for shrink fitting of HSS and carbide tools.
- All shanks hard turned (for smooth running!).
- With Balluffchip bore.

Standard: Similar to E-DIN 69882-8, form G.

Application: For clamping tools with parallel shank to h6 tolerance.

Optional extras: Pull studs (PS), No. 308760 – 308806,
Shrink-fit chuck extension No. 302410 – 302417,
Shrink-fit units No. 354210 – 354400.



Clamping range Ø D ₁		mm	6	8	10	12	16	20	25
31A 30 3830	Shrink-fit chuck Form AD	BT 30 short	•	•	•	•	•	•	—
31A 30 3850		BT 40 short	•	•	•	•	•	•	•
Dimension A (30 3830)		mm	80	80	80	80	80	90	—
Dimension A (30 3850)		mm	90	90	90	90	90	90	100
a		mm	1						
Ø D		mm	27	27	32	32	34	42	53
Ø D ₂		mm	21	21	24	24	27	33	44

G 2.5
25000
min⁻¹


HSC

HSK - ER collet holder for extending the reach of side lock arbors or collet chucks

30 0682 – Fahrion CENTRO P cylindrical holder **without clamping nuts**.

30 0684 – Cylindrical holder with ER nut.

30 0683/0685 – Cylindrical holder with Weldon shank and ER nut.

Optional extras:

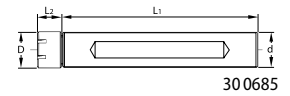
30 0682 – ER collets No. 309365 – 309372, Spare ER mini nuts No. 309655; 309665.

30 0683–0685 – ER collets No. 308878 – 309434, Spare ER nuts No. 309580; 309650.

Note: 30 0682/0684 Size 8 – No length adjustment available.



30 0685



30 0685



30 0682

Please order
clamping nuts
separately!



30 0683



30 0684

for ER collets		ER	8	11	16	20	25	32	40
31A	30 0685	Garant ER mini collet holder cylindrical	–	•	•	•	–	–	–
33F	30 0682	FAHRION CENTRO P ER collet holder cylindrical	•	•	•	–	–	–	–
32A	30 0683	ER collet holder cylindrical	–	–	–	•	•	•	•
32A	30 0684	HOLEX ER mini collet holder cylindrical	•	•	•	•	–	–	–
Ø d (30 0682, 30 0683)		mm	10	16	16	25	25	32	40
Clamping range		mm	1 – 5	0.5 – 7	0.5 – 10	1 – 13	1 – 16	2 – 20	3 – 26
Ø D (30 0685, 30 0682, 30 0683)		mm	10	16	22	28	42	50	63
Ø D (30 0684)		mm	12	16	22	28	–	–	–
Ø d (30 0685)		mm	–	16	20	25	–	–	–
Ø d (30 0684)		mm	12	16	20	20	–	–	–
L ₁ (30 0685)		mm	–	150	140	140	–	–	–
L ₁ (30 0682, 30 0683)		mm	138	133	117	60	65	70	75
L ₁ (30 0684)		mm	70	140	140	140	–	–	–
L ₂ (30 0685)		mm	–	19	23	24	–	–	–
L ₂ (30 0682, 30 0683)		mm	10	17	33	24	28	32	40
L ₂ (30 0684)		mm	15.6	19	23	29.5	–	–	–

DIN
69871

ISO
7388-1

Form
AD

G 2.5
25000
min⁻¹


HSC

Garant HSK - ER collet chuck, ultra-short – DIN 69871

Taper ground internally and externally. **Ultra-short type with internal precision clamping nut.**

Best suited to working in restricted working areas, with higher stability.

Application: For clamping tools with parallel shank in collets to DIN 6499 Form A and B.

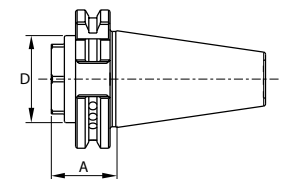
Supplied with: ER clamping nut (internal).

Optional extras: ER collets No. 308941 – 309448, Pull studs (PS) No. 308600 – 308806, PS wrenches No. 308820 – 308835.

Note: Matching clamping nut No. 309621.



30 0445



for ER collets		ER	25	32
31A	30 0445	SK 40	•	•
31A	30 0446	SK 50	–	•
Dimension A		mm	25	30
Ø D		mm	32	40

DIN
69871

ISO
7388-1

Form
ADB

G 2.5
25000
min⁻¹


Garant HSK - OZ collet chuck – DIN 69871

External and internal taper ground.

Ball-bearing power-clamping nut. For higher clamping force and improved radial run-out.

GARANT –

With Balluffchip bore. All shanks hard turned (for smooth running!). Clamping nut balanced (G 2.5 / 25,000 rpm).

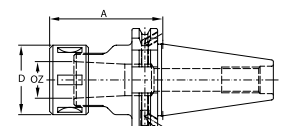
Application: For clamping tools with plain shank in collets to DIN 6388 - Form A and B.

Supplied with: Clamping nut

Optional extras: Pull studs (PS) No. 308600 – 308806, PS wrench No. 308820; 308835, OZ collets No. 309540 – 309565, Hook spanner No. 628400.



30 0695



Clamping range		mm	2-16	2-25
31A	30 0695	OZ collet chuck Form ADB	•	•
Ø D		mm	43	60
Spare clamping nut 309670			2 – 16	2 – 25
suitable hook spanner 628400			40 / 42	58 / 62

ISO 12164-1	DIN 69882-4	DIN 69893	$\leq 3\mu\text{m}$	HSC	HPC
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HSK - Side lock arbor – ISO 12164 (DIN 69893)

- With Balluffchip bore.
- HSK mating faces machined.

30 4272/4305/4328/4336/4392/4402/4411 –

With **coolant hole bores** tapped for plugging.

30 4270/4272/4305/4315/4328/4335/4336/4390/4392/4402/4410/4411 –

GARANT: All shanks hard turned (for smooth running!).

30 4272/4392 – Special nickel plating.

Application: For clamping tools with Weldon shank to DIN 1835 Form B and DIN 6535 Form HB.

Optional extras: Coolant pipe No. 309880, coolant pipe wrench No. 309890

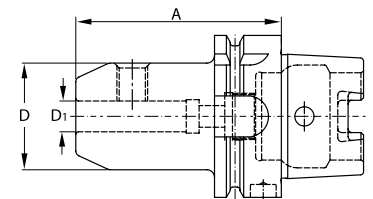
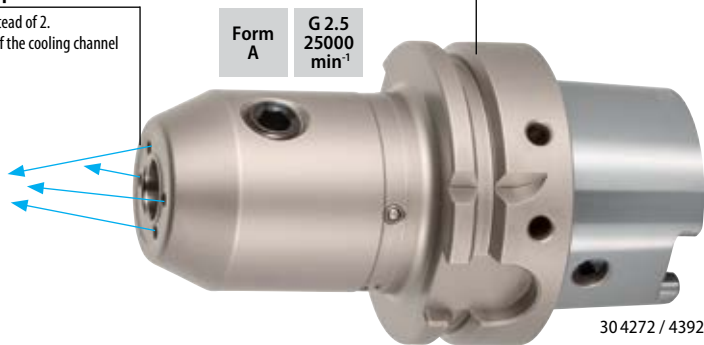
Note: HSK 40 and 50, Form A and E available ex works by the manufacturer.

Optimised cooling concept

- 4 cooling channel bores instead of 2.
- Different approach angles of the cooling channel bores.

Corrosion protection

due to special surface treatment.



Clamping range Ø D ₁		mm											
		6	8	10	12	14	16	18	20	25	32	40	
31A	30 4270 GARANT	Side lock arbor	HSK-A 63 short	•	•	•	•	•	•	•	•	•	•
32A	30 4277 HOLEX	Side lock arbor	HSK-A 63 short	•	•	•	•	•	•	•	•	•	•
32A	30 4278 HOLEX	Side lock arbor with cooling channel bore	HSK-A 63 short	•	•	•	•	•	•	•	•	•	•
31A	30 4272 GARANT	Side lock arbor Nickel-plated, with cooling channel bore	HSK-A 63 short	•	•	•	•	•	•	•	•	•	•
31A	30 4305 GARANT	Side lock arbor with cooling channel bore	HSK-A 63 short	•	•	•	•	•	•	•	•	•	•
31A	30 4306 GARANT	Side lock arbor	HSK-F 63 short	•	•	•	•	•	•	•	•	•	•
31A	30 4315 GARANT	Side lock arbor	HSK-A 63 A = 120	•	•	•	•	•	•	•	•	•	•
32A	30 4317 HOLEX	Side lock arbor	HSK-A 63 A = 120	•	•	•	•	•	•	•	•	•	•
31A	30 4328 GARANT	Side lock arbor with cooling channel bore	HSK-A 63 A = 120	•	•	•	•	•	•	•	•	•	•
31A	30 4335 GARANT	Side lock arbor	HSK-A 63 A = 160	•	•	•	•	•	•	•	•	•	•
31A	30 4336 GARANT	Side lock arbor with cooling channel bore	HSK-A 63 A = 160	•	•	•	•	•	•	•	•	•	•
31A	30 4390 GARANT	Side lock arbor	HSK-A 100 short	•	•	•	•	•	•	•	•	•	•
32A	30 4397 HOLEX	Side lock arbor	HSK-A 100 short	•	•	•	•	•	•	•	•	•	•
32A	30 4398 HOLEX	Side lock arbor with cooling channel bore	HSK-A 100 short	•	•	•	•	•	•	•	•	•	•
31A	30 4392 GARANT	Side lock arbor Nickel-plated, with cooling channel bore	HSK-A 100 short	•	•	•	•	•	•	•	•	•	•
31A	30 4402 GARANT	Side lock arbor with cooling channel bore	HSK-A 100 short	•	•	•	•	•	•	•	•	•	•
31A	30 4410 GARANT	Side lock arbor	HSK-A 100 A = 160	•	•	•	•	•	•	•	•	•	•
31A	30 4411 GARANT	Side lock arbor with cooling channel bore	HSK-A 100 A = 160	•	•	•	•	•	•	•	•	•	•
Dimension A (30 4270, 30 4277, 30 4278, 30 4272, 30 4305, 30 4306)		mm	65	65	65	80	80	80	80	80	110	110	125
Dimension A (30 4390, 30 4397, 30 4398, 30 4392, 30 4402)		mm	80	80	80	80	80	100	100	100	100	100	120
Ø D		mm	25	28	35	42	44	48	50	52	65	72	80
Spare clamping screw 309900			6	8	10	12	12	16	16	20	25	32	32

HSK - ER collet chuck and ER set – ISO 12164 (DIN 69893)

ISO 12164-1	DIN 69882-6	DIN 69893		HSC
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- All shanks hard turned (for smooth running!).
 - Through bored (without adjustment screw).
 - HSK mating faces machined.
- 305390/305391/305394/305397/305425/305426/305435/305436/305437/305438/305485/
305486/305487/305488/305515/ – With Balluffchip bore.

30 5394/5486 – Nickel-plated to prevent corrosion.

Application: For clamping tools with plain shanks in ER collets to DIN 6499 – Form A and B.

Supplied with: Coated high-speed clamping nut.

Optional extras: Coolant pipe No. 309880, Coolant pipe plug-in socket No. 309890, ER collets No. 308881 – 309434, ER clamping wrenches No. 309680 – 309740.

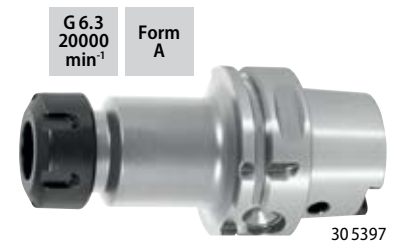
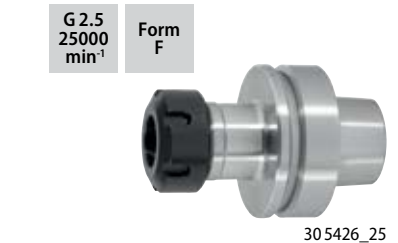
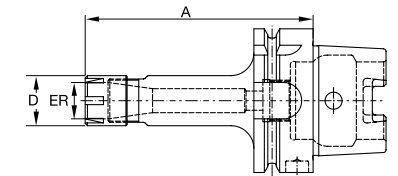
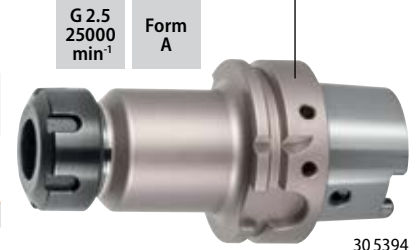
Note:

30 5391/5426/5436 – Without a thread for the coolant pipe.

for ER collets			ER	11	16	20	25	32	40
31A	30 5150	Garant	ER collet chuck	HSK-E 40 short	•	•	–	•	–
31A	30 5100	Garant		HSK-A 40 A = 80	•	•	–	•	–
31A	30 5425	Garant		HSK-A 63 ultra short	–	•	–	•	•
32A	30 5427	HOLEX		HSK-A 63 ultra short	–	•	–	•	•
31A	30 5426	Garant		HSK-F 63 ultra short	–	•	–	•	•
31A	30 5390	Garant		HSK-A 63 long	–	•	•	•	•
31A	30 5394	Garant	ER collet chuck nickel-plated	HSK-A 63 long	–	•	–	•	•
32A	30 5397	HOLEX		HSK-A 63 long	–	•	–	•	•
31A	30 5391	Garant	ER collet chuck	HSK-F 63 A = 100	–	•	–	•	•
31A	30 5437	Garant		HSK-A 63 A = 130	–	•	–	•	•
31A	30 5435	Garant		HSK-A 63 A = 160	–	•	–	•	•
32A	30 5439	HOLEX		HSK-A 63 A = 160	–	•	–	•	•
31A	30 5436	Garant		HSK-F 63 A = 160	–	•	–	•	•
31A	30 5438	Garant		HSK-A 63 A = 200	–	•	–	•	–
31A	30 5485	Garant		HSK-A 100 long	–	•	–	•	•
31A	30 5486	Garant		HSK-A 100 long	–	•	–	•	•
32A	30 5487	HOLEX	ER collet chuck	HSK-A 100 long	–	•	–	•	•
31A	30 5488	Garant		HSK-A 100 A = 130	–	•	–	•	•
31A	30 5515	Garant		HSK-A 100 A = 160	–	•	–	•	•
32A	30 5517	HOLEX		HSK-A 100 A = 160	–	•	–	•	•
Clamping range			mm	0.5 – 7	0.5 – 10	1 – 13	1 – 16	2 – 20	3 – 26
Dimension A (30 5150)			mm	60	60	–	80	–	–
Dimension A (30 5425, 30 5427)			mm	–	75	–	75	75	85
Dimension A (30 5426)			mm	–	60	–	75	75	75
Dimension A (30 5390, 30 5394, 30 5397, 30 5485, 30 5486, 30 5487)			mm	–	100	100	100	100	120
Ø D			mm	19	28	34	42	50	63

Corrosion protection

due to special surface treatment.



HSK - ER collet chuck sets – A63

Advantage: Longer working life due to system run-out $\leq 10 \mu\text{m}$.

Supplied with: ER chuck (with nut) No. 305390, including a plastic case.

Size 16 – ER lock wrench No. 613300 size 25, ER collets No. 308901
ER 16 (426 E): D = 2, 3, 4, 5, 6, 7, 8, 9 and 10 mm.

Size 25 – ER lock wrench No. 628400 size 16/20, ER collet No. 308941
ER 25 (430 E): D = 3, 4, 5, 6, 8, 10, 12, 14 and 16 mm.

Size 32 – ER lock wrench No. 309680 – 32, ER collet No. 308981
ER 32 (470 E): D = 4, 6, 8, 10, 12, 14, 16, 18 and 20 mm.

for ER collets			ER	16	25	32
37D	30 5450	ER collet chuck set	HSK-A 63	•	•	•

Maximum system accuracy



• Aus Stock | • Euro Stock

DIN 69882-4	DIN 69893	ISO 12164-1	Form A	G 2.5 25000 min ⁻¹	≤3μm	HPC	HSC
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Garant HSK - Performance milling chuck – ISO 12164 (DIN 69893-1)

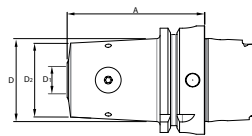
- With Balluffchip bore.
- All shanks hard turned.
- Supplied with 4 cooling channel bores.

Advantage:

- No risk of the cutter being pulled out, not even a tug.
- Optimised external contour – vibration-damping behaviour.
- Pleasant handling thanks to the differential thread.
- Breakage of the milling cutter shank is improbable.
- Precision version.

Application: For clamping tools with side drive flats to DIN 1835 Form B and DIN 6535 Form HB. Best suited for TPC milling or high feed rate applications. No risk of the cutter being pulled out, more precise radial run-out, **process reliability!**

Optional extras: Coolant pipe No. 309880, coolant pipe wrench No. 309890



30 4450



- Spring in the base body presses the milling cutter or HB shank into the correct position.
- Contact piece on the tightening screw holds the milling cutter in the HB face.

Clamping Ø D ₁	mm	6	8	10	12	16	20
31A 30 4450	Performance milling chuck with cooling channel bore	HSK-A 63 short	•	•	•	•	•
31A 30 4460		HSK-A 100 short	•	•	•	•	•
Dimension A (30 4450)	mm	65	65	70	80	80	80
Dimension A (30 4460)	mm	80	80	80	85	100	100
Ø D (30 4450)	mm	26.5	29	36.5	43	48.5	52
Ø D (30 4460)	mm	27.5	30	37	43	50	53.5
Ø D ₂	mm	22.5	25	32	37.5	43	46.5

DIN 69893	ISO 12164-1	Form A	G 2.5 25000 min ⁻¹	≤3μm	HPC	HSC
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Garant HSK - HiRunER Precision ER collet chuck – ISO 12164 (DIN 69893)

External and internal tapers are ground. All shanks are hard turned for a smooth cutting action. Including Balluffchip bore, high-performance clamping nut up to 25000 rpm.

Advantage:

- **Excellent concentricity in the system** (chuck + collet + clamping nut), 3μm radial run-out with a 2μm collet, 6μm radial run-out with a 5μm collet.
- **Extremely strong holding force** (up to **factor 2** better than the standard ER chuck).
- **Vibration reduction effect** due to 2-part clamping nuts.

Application: For clamping tools with plain shank in collets to DIN 6499 - Form A and B.

Supplied with: Precision clamping nut.

Optional extras: Coolant pipe No. 309880, coolant pipe plug-in socket No. 309890, ER clamping wrenches No. 309748 / 309749 Fahrion ER collets 308901 – 309434.

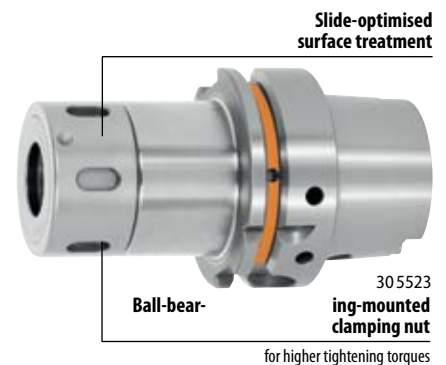
- Note:**
- Clamps only nominal Ø up to shank Ø tolerance h 10.
 - Do not use the clamping nut in combination with a sealing washer.
 - Use the precision collet chuck always in conjunction with the precision clamping nut No. 309617; 309618.
 - Use in combination with Fahrion collets.



- HiRunER**
- Collet is fully seated in the chuck
 - higher clamping forces!
 - improved radial run-out!



- Standard ER chuck**
- Collet is not inserted 100 % in the chuck.



Slide-optimised surface treatment

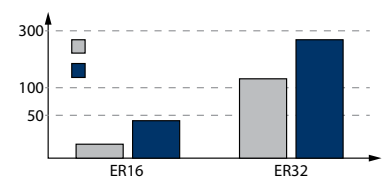
Ball-bearing-

30 5523

ing-mounted clamping nut

for higher tightening torques

for ER collets		ER	11M	16M	16	25	32	40
31A 30 5518	HiRunER precision ER collet chuck	HSK-E 40 short	•	•	•	•	–	–
31A 30 5523		HSK-A 63 short	–	–	•	•	•	•
31A 30 5524		HSK-A 63 medium	•	•	•	•	•	•
31A 30 5531		HSK-A 100 short	–	–	–	•	•	•
31A 30 5532		HSK-A 100 A = 100	–	–	–	•	•	•
Clamping range	mm	1 – 7	1 – 10	0.5 – 10	1 – 16	2 – 20	3 – 26	
Dimension A (30 5518)	mm	70	70	60	65	–	–	
Dimension A (30 5523, 30 5531)	mm	–	–	75	75	75	85	
Dimension A (30 5524)	mm	100	100	100	100	100	120	
Ø D	mm	16	24	34	44	52	62	
Spare ER clamping nut 309617		–	–	16	25	32	40	
Spare ER clamping nut 309618		11M	16M	–	–	–	–	



Mini – size 11M/ 16M (extremely slim design).

30 5524

ISO 12164-1	DIN 69893	Form A	G 6.3 15000 min ⁻¹		HPC
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HSK - Heavy-duty chuck – ISO 12164-1 (DIN 69893-1)

- Low friction due to needle bearings.
 - Protected with anti-corrosion coating.
 - Dust-tight and watertight.
 - Very high clamping force prolongs tool life and improves surface quality.
- 30 5539 – **Clamping force up to 150 Nm at Ø 12, 300 Nm at Ø 16 and 400 Nm at Ø 20.**
30 5525/5528 – **Clamping force up to 900 Nm.**

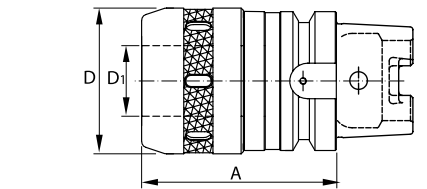
Advantage:

- 30 5539 – Low interference contour due to slim design.
30 5535/5538 – Long tool life. Vibration damping properties.
High stability due to strengthened clamping nut.

Application: For clamping tools with plain shanks.

Supplied with: Clamping nut

Optional extras: Coolant tube No. 309880,
collets No. 309566 – 309570 and No. 309575 – 309576,
wrench No. 309747 for No. 305539.



Ø D			mm	12	16	20	32
32A	30 5525	HOLEX	Heavy-duty chuck	HSK-A 63	—	—	—
32A	30 5528		Heavy-duty chuck	HSK-A 100	—	—	—
32A	30 5539		Heavy-duty chuck slim	HSK-A 63	—	—	—
Dimension A (30 5535, 30 5538)			mm	—	—	105	105
Dimension A (30 5525, 30 5539)			mm	90	90	90	135
Dimension A (30 5528)			mm	—	—	100	135
Ø D (30 5535, 30 5538)			mm	—	—	52	73
Ø D (30 5525, 30 5528)			mm	—	—	52	66
Ø D (30 5539)			mm	30	38	44	—
suitable hook spanner 628400 (30 5535, 30 5538, 30 5525, 30 5528)				—	—	52 / 55	68 / 75
suitable tightening wrench 309747 (30 5539)				S10	S16	S20	—

DIN 69893	ISO 12164-1	Form A	G 2.5 25000 min ⁻¹		HPC
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Garant HSK - Heavy-duty chuck with security function – ISO 12164-1 (DIN 69893-1)

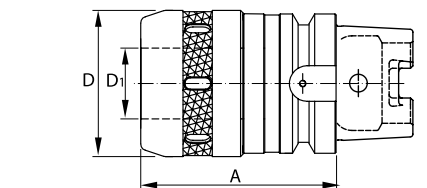
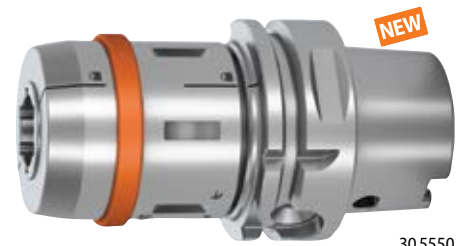
- Shanks hard turned (smooth cutting action).
- Very high clamping force prolongs tool life and improves surface quality.
- Centred tool clamping with optimum concentricity.
- Integral length adjustment screw.
- Internal coolant feed.

Advantage: HB (Weldon) flat provides quick and easy protection against the milling cutter pulling out. Positive connection between the milling cutter and arbor. Compact vibration-optimised contour.

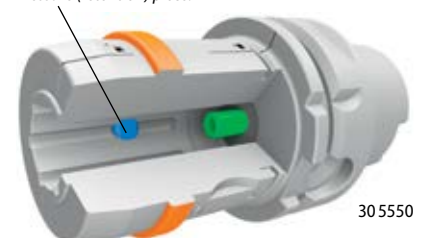
Application: For clamping tools with parallel shank and HB flat. Ideally suited for heavy-duty machining (HPC, TPC).

Supplied with: Clamping nut.

Optional extras: Coolant tube No. 309880.



Pressure (retention) piece.



Ø D			mm	12	16	20
31A	30 5550	Heavy-duty chuck with security function	HSK-A 63	●	●	●
31A	30 5560		HSK-A 100	●	●	●
Dimension A (30 5550)			mm	80	83	86
Dimension A (30 5560)			mm	99	102	105
Ø D			mm	40	45	50
Clamping force up to			N-m	430	520	900
suitable hook spanner 628400				40/42	45/50	45/50

ISO
12164-1

DIN
69882-3

DIN
69893


HPC

HSK - Face mill arbor – ISO 12164 (DIN 69893)

- Spigot Ø 40 with 4 tapped holes for face mills to DIN 2079.
- With Balluffchip bore.
- Increased collar contact surface.
- HSK mating faces machined.

30 6541/6530/6537/6531 – With **cooling channel bores**.

Application: For clamping shell end mills and milling cutter heads.

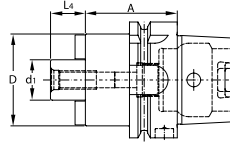
Supplied with: Lock screw

G 2.5
25000
min⁻¹


30 6510

G 6.3
20000
min⁻¹


30 6537



Spigot Ø d ₁			mm	16	22	27	32	40
31A 30 6510	Garant	Face mill arbor	HSK-A 63 short	•	•	•	•	•
31A 30 6530	Garant		HSK-A 63 short	•	•	•	•	•
32A 30 6537	HOLEX	Face mill arbor	HSK-A 63 short	•	•	•	•	•
31A 30 6531	Garant	with cooling channel bore	HSK-F 63 short	•	•	•	•	•
31A 30 6541	Garant		HSK-A 63 medium	•	•	•	•	•
Dimension A (30 6510, 30 6530, 30 6537)			mm	50	50	60	60	60
Dimension A (30 6531)			mm	45	50	55	60	65
Dimension A (30 6541)			mm	75	75	80	80	80
Ø D (30 6510, 30 6530)			mm	38	48	60	78	88
Ø D (30 6537)			mm	35	50	60	78	88
Ø D (30 6531)			mm	38	48	58	78	88
Ø D (30 6541)			mm	38	48	60	78	89
L ₄			mm	17	19	21	24	27
Spare milling cutter lock screw 309860				16	22	27	32	40
suitable special toggle spanner 309840				16	22	27	32	40

ISO
12164-1

DIN
69882-3

DIN
69893


HPC

HSK - Face mill arbor – ISO 12164 (DIN 69893)

- Spigot Ø 40 with 4 tapped holes for face mills to DIN 2079.
- With Balluffchip bore.
- Increased collar contact surface.
- HSK mating faces machined.

30 6562–6566/6575/6675/6677/6684/6686/6687/6691 – With **cooling channel bores**.

Application: For clamping shell end mills and milling cutter heads.

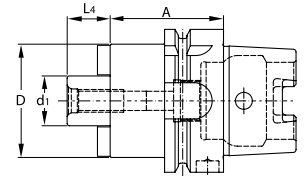
Supplied with: Lock screw.

Optional extras: Coolant tube No. 309880, socket wrench for coolant tubes No. 309890, toggle spanner No. 309840.

Form
A

G 2.5
25000
min⁻¹


30 6550



Spigot Ø d ₁				mm	16	22	27	32	40	50	60
31A	30 6550	Face mill arbor with cooling channel bore	HSK-A 63 A = 100		•	•	•	•	—	—	—
31A	30 6562		HSK-A 63 A = 100		•	•	•	•	•	—	—
31A	30 6563		HSK-F 63 A = 100		•	•	•	•	•	—	—
31A	30 6566		Garant	HSK-A 63 A = 130		•	•	•	•	•	—
31A	30 6570	Face mill arbor with cooling channel bore	HSK-A 63 A = 160		•	•	•	•	—	—	—
31A	30 6575		HSK-A 63 A = 160		•	•	•	•	—	—	—
31A	30 6675		HSK-A 100 short		•	•	•	•	•	•	•
32A	30 6677		HOLEX	HSK-A 100 short		•	•	•	•	•	•
31A	30 6678	Garant	Face mill arbor	HSK-A 100 A = 100		•	•	•	•	•	—
32A	30 6687	HOLEX		HSK-A 100 A = 100		•	•	•	•	•	—
31A	30 6684	Face mill arbor with cooling channel bore	Garant	HSK-A 100 A = 100		•	•	•	•	—	—
31A	30 6686			HSK-A 100 A = 130		•	•	•	•	—	—
31A	30 6690			HSK-A 100 A = 160		•	•	•	•	—	—
31A	30 6691			HSK-A 100 A = 160		•	•	•	•	•	—
Dimension A (30 6675, 30 6677)				mm	50	50	50	50	60	70	70
Ø D (30 6550, 30 6562, 30 6566, 30 6570, 30 6575, 30 6675, 30 6678, 30 6684, 30 6686, 30 6690, 30 6691)				mm	38	48	60	78	89	120	140
Ø D (30 6563)				mm	38	48	58	78	88	—	—
Ø D (30 6677, 30 6687)				mm	38	50	60	78	89	120	—
L ₄				mm	17	19	21	24	27	30	40
Spare milling cutter lock screw 309860					16	22	27	32	40	50	60
suitable special toggle spanner 309840					16	22	27	32	40	50	60

DIN 69893	ISO 12164-1	Form A	G 2.5 25000 min ⁻¹		HPC	HSC
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Garant HSK - Slim hydraulic chuck 3° – ISO 121641 (DIN 69893-1)

- **Extremely slim design** (3°-contour).
- With Balluffchip bore.
- Axial length adjustment facility.
- Shanks hard turned.

Advantage:

- **Temperature-resistant** due to completely enclosed system, i.e. no soldered pressure chambers.
- Ideal damping characteristics.
- High transmissible torques, providing high process reliability.

Application: Especially in operations in toolmaking and mould making.
Wherever reduced interference contours are required.
 For drilling, reaming and milling
 For clamping tools with shank tolerance h6.

Supplied with: Hexagon socket drive with T-handle.

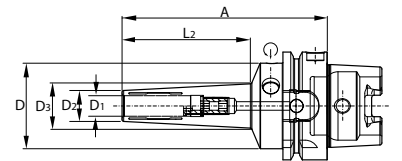
Optional extras: Reducing sleeves No. 302135 – 302180.



307533



307537



Clamping Ø D ₁	mm	3	4	5	6	8	10	12	16	20
31A 307526	HSK-E 40 A = 85	•	•	•	•	•	•	•	–	–
31A 307528	HSK-E 50 A = 70	–	•	•	•	•	•	•	–	–
31A 307531	HSK-A 63	–	•	•	•	•	•	•	•	•
31A 307533	HSK-A 63 A = 120	•	•	•	•	•	•	•	•	•
31A 307536	HSK-A 63 A = 160	–	–	–	•	•	•	•	–	–
31A 307537	HSK-A 63 A = 200	–	–	–	•	•	•	•	–	–
31A 307543	HSK-A 100 A = 120	–	–	–	•	•	•	•	•	•
Dimension A (307531)	mm	–	80	80	80	80	85	90	95	100
Ø D ₂ (307526, 307528, 307531, 307533, 307543)	mm	9	10	11	12	14	16	18	24	28
Ø D ₂ (307536, 307537)	mm	–	–	–	16	18	20	22	–	–
Ø D ₃ (307526)	mm	13.7	14.7	15.7	16.8	18.8	20.9	22.9	–	–
Ø D ₃ (307528)	mm	–	13.88	14.88	15.99	17.99	20.1	20.1	–	–
Ø D ₃ (307531)	mm	–	13.46	14.46	15.57	17.57	20.1	22.72	28.93	33.45
Ø D ₃ (307533)	mm	16.7	17.7	18.7	20.4	22.4	24.5	26.6	31.5	35.5
Ø D ₃ (307536)	mm	–	–	–	27.63	29.63	31.84	33.84	–	–
Ø D ₃ (307537)	mm	–	–	–	31.93	33.93	36.14	38.14	–	–
Ø D ₃ (307543)	mm	–	–	–	19.34	21.45	23.45	25.55	31.13	35.24
Ø D (307526)	mm	34	34	34	34	34	34	34	–	–
Ø D (307528)	mm	–	42	42	42	42	42	42	–	–
Ø D (307531, 307533, 307536, 307537, 307543)	mm	–	–	–	–	50	–	–	–	–
L ₁ (307526)	mm	45	45	45	46	46	47	47	–	–
L ₁ (307528)	mm	–	37	37	38	38	39	39	–	–
L ₁ (307531)	mm	–	33	33	34	34	39	45	47	52
L ₁ (307533)	mm	73	73	73	73	74	74	75	71.5	72
L ₁ (307536)	mm	–	–	–	111	111	113	113	–	–
L ₁ (307537)	mm	–	–	–	152	152	154	154	–	–
L ₁ (307543)	mm	–	–	–	70	71	71	72	68	69

ISO 12164-1	DIN 69893	Form A	G 2.5 25000 min ⁻¹		HSC	HPC
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HSK - Hydraulic chuck – version HT (High Torque) – ISO 12164-1 (DIN 69893-1)

- Very high total rigidity due to optimised design.
- With Balluffchip bore.
- Axial length adjustment available, adjustment travel 10 mm.
- Flexible due to the use of reducing sleeves.

Advantage:

- **Very high transmitted torque (550 Nm)**, providing high process reliability.
- **Ideal damping characteristics**, resulting in optimum surface finishes, increased tool life and spindle protection.

Application:

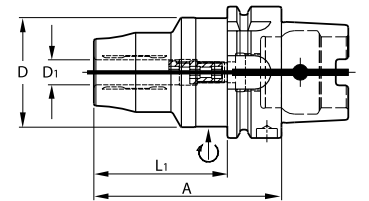
- **Especially for heavy-duty milling.**
- For clamping tools with shank tolerance h6.

Supplied with: Hexagon cross-bar wrench.

Optional extras: Coolant pipe No. 309880, coolant pipe wrench No. 309890



Clamping range Ø D ₁			mm	12	16	20	32	
31H	30 7550		HT chuck	HSK-A 63 short	●	—	●	—
32A	30 7552			HSK-A 63 short	—	—	●	—
31H	30 7553		HT chuck with cooling channel bores	HSK-A 63 short	●	●	●	—
31H	30 7555		HT chuck	HSK-A 100 short	●	—	●	●
32A	30 7557			HSK-A 100 short	—	—	●	—
Dimension A (30 7550, 30 7552, 30 7553)			mm	80	80	80	—	
Dimension A (30 7555)			mm	85	—	85	100	
Dimension A (30 7557)			mm	—	—	90	—	
Ø D			mm	52.5	52.5	52.5	72	
L ₁ (30 7550, 30 7552, 30 7553)			mm	54	54	54	—	
L ₁ (30 7555, 30 7557)			mm	56	—	56	71	
suitable reducing adapter				302140 / 302135	—	302160 / 302155	302180 / 302175	



ISO 12164-1	DIN 69893	G 2.5 25000 min ⁻¹	$\leq 3\mu\text{m}$	HSC	HPC
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HSK - Shrink-fit chucks 4.5° – ISO 12164-1 (DIN 69893-1)

- High-temperature steel.
- Size 3 – 5 for carbide, from size 6 for HSS and carbide.
- With Balluffchip bores.

30 8165 – **Ultra short:** More stability and stiffness, less vibration.
This ensures longer tool life and better surface quality.
No length adjustment available.

30 8170–8294 – Integral length adjustment of the tool from clamping $\varnothing D_1$ 6 mm
(adjustment travel 10 mm).

30 8165/8187/8192/8206/8277/8283/8284 – With **cooling channel bores** tapped for plugging.

30 8165/8170/8172/8187/8189/8192/8195/8196/8205/8206/8235/8265/8267/
8277/8282/8283/8284/8285/8286/8294 –

From clamping $\varnothing D_1$ 6 mm with tapped holes for balancing screws.

30 8165/8170/8172/8184/8187/8189/8192/8193/8195/8196/8205/8206/8235/8265/8267/8277/8282/
8283/8284/8285/8286/8294 –

GARANT: HSK mating faces machined. **All shanks hard turned (for smooth running!).**

30 8172/8267 – Premium version:

Nickel plated version with 4 pluggable **cooling channel bores**.

30 8184/8193 – Without tapped holes for balancing screws.

30 8196/8286 – With **cooling channel bores** tapped for plugging.
 $\varnothing D_1$: 3 mm, 4 mm, 5 mm cannot be plugged.

- Application:**
- For holding end mills and drills with parallel shank to h6 tolerance.
 - Suitable for inductive, contact and hot air shrink-fit units.

Supplied with: For chucks with length adjustment incl. a length adjustment screw (from clamping $\varnothing D_1$ 6 mm).

Optional extras: Coolant tube No. 309880, socket wrench No. 309890,
shrink-fit chuck extension No. 302410 – 302419,
shrink-fit units No. 354210 – 354450,
balancing screw set No. 309906 180.

Different setting angles

of the cooling channel holes: Improved tool
life thanks to optimised cooling and washing
of the various chip flutes.

No corrosion

due to special surface coating
(HSK ground)

Perfect cooling

by four cooling channel holes which can be plugged



Form
A



30 8165



Form
A



30 8170



Form
A



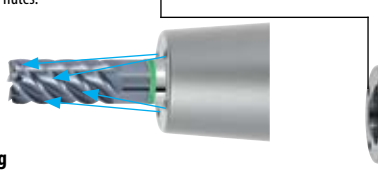
30 8191



Form
F

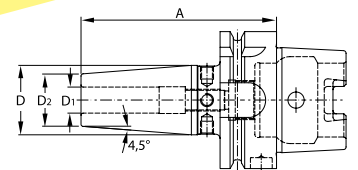


30 8193



30 8172/30 8267

Premium version



Clamping range $\varnothing D_1$		mm	3	4	5	6	8	10	12	14	16	18	20	25	32
31A	30 8165	Shrink-fit chuck with cooling channel bore	HSK-A 63 ultra short	–	–	–	–	–	•	•	–	•	–	•	–
31A	30 8170	Garant Shrink-fit chuck	HSK-A 63 short	•	•	•	•	•	•	•	•	•	•	•	–
31A	30 8172	Shrink-fit chuck with cooling channel bore, nickel plated	HSK-A 63 short	–	–	–	•	•	•	–	•	–	•	–	–
31A	30 8184	Shrink-fit chuck	HSK-F 63 short	•	•	•	•	•	•	•	•	•	•	–	–
31A	30 8187	Garant Shrink-fit chuck with cooling channel bore	HSK-A 63 short	•	•	•	•	•	•	•	•	•	•	•	–
31A	30 8189	Shrink-fit chuck	HSK-A 63 A = 120	•	•	•	•	•	•	•	•	•	•	•	–
31A	30 8192	Shrink-fit chuck with cooling channel bore	HSK-A 63 A = 120	–	–	–	•	•	•	•	•	•	•	–	–
31A	30 8193	Shrink-fit chuck	HSK-F 63 A = 120	•	•	•	•	•	•	•	•	•	•	•	•
Dimension A (30 8165)		mm	–	–	–	–	–	70	70	–	75	–	75	85	–
Dimension A (30 8170, 30 8172, 30 8183, 30 8184, 30 8187)		mm	80	80	80	80	80	85	90	90	95	95	100	115	120
$\varnothing D$ (30 8165)		mm	–	–	–	–	–	33	33	–	37	–	43	50	–
$\varnothing D$ (30 8170, 30 8172, 30 8187, 30 8189, 30 8192)		mm	17	17	17	27	27	32	32	34	34	42	42	53	–
$\varnothing D$ (30 8184, 30 8193)		mm	20	22	22	27	27	31	31	34	34	40	40	53	53
$\varnothing D_1$ (30 8165)		mm	–	–	–	–	–	26	26	–	29	–	35	45	–
$\varnothing D_2$ (30 8170, 30 8172, 30 8187, 30 8189, 30 8192)		mm	12	12	12	21	21	24	24	27	27	33	33	44	–
$\varnothing D_2$ (30 8183, 30 8191)		mm	10	15	15	21	21	24	24	27	27	33	33	44	44
$\varnothing D_2$ (30 8184, 30 8193)		mm	10	15	15	20	20	24	24	27	27	33	33	44	44

Clamping range Ø D ₁				mm	3	4	5	6	8	10	12	14	16	18	20	25	32
31A	30 8195	Garant	Shrink-fit chuck	HSK-A 63 A = 130	•	•	•	•	•	•	•	•	•	•	•	•	•
31A	30 8196		Shrink-fit chuck with cooling channel bore	HSK-A 63 A = 130	•	•	•	•	•	•	•	•	•	•	•	•	•
31A	30 8205		Shrink-fit chuck	HSK-A 63 A = 160	•	•	•	•	•	•	•	•	•	•	•	•	—
31A	30 8206		Shrink-fit chuck with cooling channel bore	HSK-A 63 A = 160	—	—	—	•	•	•	•	—	•	—	•	—	—
31A	30 8235	Garant	Shrink-fit chuck	HSK-A 63 A = 200	—	—	—	•	•	•	•	•	•	•	•	•	—
31A	30 8267		Shrink-fit chuck with cooling channel bore, nickel plated	HSK-A 100 short	—	—	—	•	•	•	•	—	•	—	•	—	—
31A	30 8265		Shrink-fit chuck	HSK-A 100 short	—	—	—	•	•	•	•	•	•	•	•	•	•
31A	30 8277		Shrink-fit chucks with cooling channel bore	HSK-A 100 short	—	—	—	•	•	•	•	•	•	•	•	•	•
31A	30 8282	Garant	Shrink-fit chuck	HSK-A 100 A = 120	—	—	—	•	•	•	•	•	•	•	•	•	—
31A	30 8285			HSK-A 100 A = 160	—	—	—	•	•	•	•	•	•	•	•	•	•
31A	30 8283		Shrink-fit chucks with cooling channel bore	HSK-A 100 A = 120	—	—	—	•	•	•	•	•	•	•	•	•	—
31A	30 8284			HSK-A 100 A = 130	—	—	—	•	•	•	•	•	•	•	•	•	—
31A	30 8286			HSK-A 100 A = 160	—	—	—	•	•	•	•	—	•	—	•	•	—
31A	30 8294			Shrink-fit chuck	HSK-A 100 A = 200	—	—	—	•	•	•	•	•	•	•	•	•
Dimension A (30 8267, 30 8265, 30 8268, 30 8277)				mm	—	—	—	85	85	90	95	95	100	100	105	115	120
Ø D (30 8195, 30 8196, 30 8205, 30 8206, 30 8235, 30 8267, 30 8265, 30 8277, 30 8282, 30 8285, 30 8283, 30 8284, 30 8286, 30 8294)				mm	17	17	17	27	27	32	32	34	34	42	42	53	53
Ø D (30 8208)				mm	20	22	22	27	27	32	32	34	34	42	42	53	—
Ø D (30 8268)				mm	—	—	—	27	27	34	34	36	36	44	44	53	53
Ø D ₂ (30 8195, 30 8196, 30 8205, 30 8206, 30 8235, 30 8267, 30 8265, 30 8268, 30 8277, 30 8282, 30 8285, 30 8283, 30 8284, 30 8286, 30 8294)				mm	12	12	12	21	21	24	24	27	27	33	33	44	44
Ø D ₂ (30 8208)				mm	10	15	15	21	21	24	24	27	27	33	33	44	—

Garant

Performance milling chuck



Specially developed milling chuck for the most demanding applications, ideally suited to TPC milling and high feed rate applications. Milling cutter will not be pulled out, more precise radial run-out, good process reliability!

GARANT Performance -milling chucks ensure the following advantages:

- No risk of the cutter being pulled out, even when suddenly jerked.
- Precision version.
- Optimised external contour – vibration-damping behaviour.
- Thread self-locking, even when subjected to micro-vibrations.
- Nasty surprises in the form of shank breakages when opening the chuck and virtually completed excluded.
- Pleasant handling thanks to the differential thread.

These can be found at:

SK: 30 0395 or 30 0398.

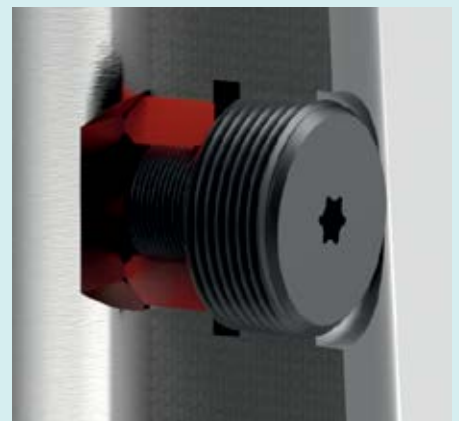
HSK: 30 4450 or 30 4460.



Spring in the base body presses the milling cutter or HB shank into the correct position.



Contact piece on the tightening screw holds the milling cutter in the HB face.



Differential thread on the tightening screw. Less manual force required to achieve the desired tightening torque.

DIN 69893	ISO 12164-1		HSC
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Garant HSK - Shrink-fit chucks 3° (for tool and mould making) – ISO 12164-1 (DIN 69893-1)

- All shanks hard turned (for smooth running!).
- HSK mating faces machined.
- Slim design (3° contour).**
30 8321 – Extra-slim style.

30 8302–8314/8321 – **Balancing quality 2.5 / 40,000 rpm.**

30 8316/8318 – **Balancing quality 2.5 / 25,000 rpm.** With Balluffchip bore.

Application:

- Especially in tool and mould making.
- For clamping tools with shank tolerance h6.

Optional extras: Coolant feed pipe No. 309880. Socket No. 309890.
Shrink-fit chuck extensions No. 302410 sizes 12/3 and 12/4.
Shrink-fit units No. 354210 – 354450.
Balancing screw set No. 309906 180.

G 2.5
40000
min⁻¹

Form
E



30 8321

G 2.5
40000
min⁻¹

Form
E



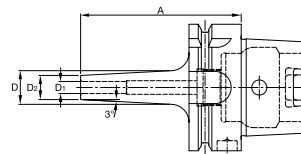
30 8302

G 2.5
25000
min⁻¹

Form
A



30 8318



Clamping Ø D ₁		mm	3	4	5	6	8	10	12
31A 30 8321	Shrink-fit chuck 3°, extra slim	HSK-E 40 A = 60	•	•	•	•	•	•	•
31A 30 8302		HSK-E 40 A = 60	•	•	•	•	•	•	•
31A 30 8304		HSK-E 40 A = 70	•	•	•	•	•	•	•
31A 30 8306		HSK-E 40 A = 80	•	•	•	•	•	•	•
31A 30 8308		HSK-E 50 A = 70	•	•	•	•	•	•	•
31A 30 8312	Shrink-fit chuck 3°	HSK-E 50 A = 80	•	•	•	•	•	•	•
31A 30 8314		HSK-E 50 A = 100	•	•	•	•	•	•	•
31A 30 8316		HSK-A 63 A = 80	•	•	•	•	•	•	•
31A 30 8318		HSK-A 63 A = 120	•	•	•	•	•	•	•
Ø D (30 8321)		mm	10	11	12	13	15	17	19
Ø D (30 8302, 30 8308)		mm	14	15	16	17	19	21	23
Ø D (30 8304, 30 8312, 30 8316)		mm	15	16	17	18	20	22	24
Ø D (30 8306)		mm	16	17	18	19	21	23	25
Ø D (30 8314)		mm	17	18	19	20	22	24	26
Ø D (30 8318)		mm	19	20	21	22	24	26	28
Ø D ₂ (30 8321)		mm	6	7	8	9	11	13	15
Ø D ₂ (30 8302, 30 8304, 30 8306, 30 8308, 30 8312, 30 8314, 30 8316, 30 8318)		mm	9	10	11	12	14	16	18

ISO 12164-1	DIN 69893	Form A	G 2.5 25000 min ⁻¹		HSC
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Garant HSK - Shrink-fit chucks 4.5°, long version – ISO 12164-1 (DIN 69893-1)

- External taper 4°30'.
- With Balluffchip bore.
- HSK mating faces machined.
- 30 8329/8337 – With **cooling channel bores.**

Application:

- For working in places where access is particularly difficult.
- For clamping tools with parallel shank to h6 tolerance.

Optional extras: Coolant pipe No. 309880, Plug-in socket No. 309890,
Shrink-fit extension No. 302410 size 12/3 and 12/4.
Shrink-fit units No. 354210 – 354450.
Balancing screw set No. 309906 180.

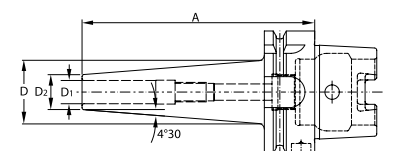
Clamping range Ø D ₁		mm	6	8	10	12
31A 30 8328	Shrink-fit chuck 4°30'	HSK-A 63 A = 120	•	•	•	•
31A 30 8329	Shrink-fit chuck 4°30', with cooling channel bores	HSK-A 63 A = 120	•	•	•	•
31A 30 8334	Shrink-fit chuck 4°30'	HSK-A 63 A = 160	•	•	•	•
31A 30 8337	Shrink-fit chuck 4°30', with cooling channel bores	HSK-A 63 A = 160	•	•	•	•
Ø D		mm	30	30	33	33
Ø D ₂		mm	15	15	18	18



30 8328



30 8329



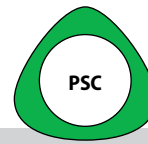
NEW

ISO 26623-1	G 2.5 25000 min ⁻¹	≤3μm	HSC	HPC
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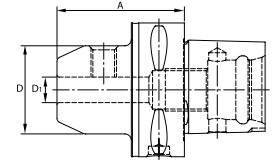
Garant PSC - Tool arbors with polygonal shank – ISO 26623-1

- With Balluffchip bore.
- All shanks hard turned (for smooth running!).
- Mating faces of the PSC internal contour machined.

Optional extras: Coolant pipe No. 309885, coolant pipe wrench No. 309893.



30 8502



Sidelock arbors (Weldon)

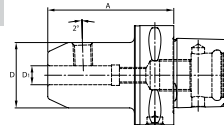
Application: For clamping tools with Weldon shank to DIN 1835 Form B and DIN 6535 Form HB.

Note: Suitable reduction of PSC 63 to PSC 40 or PSC 50 No. 318892.
Suitable reducing adapter from SK 40 and HSK 63 to PSC 40 or PSC 50 No. 301275 and No. 306975.
Suitable reducing adapter for SK 50 and HSK 100 to PSC 63 or PSC 80 No. 301276 and No. 306976.
Suitable extensions see No. 318894, No. 318895 and No. 318896.

Clamping range Ø D ₁		mm	6	8	10	12	14	16	18	20	25	32
31C 30 8499	Side lock arbor	PSC 40 short	•	•	•	•	•	•	–	–	–	–
31C 30 8501		PSC 50 short	•	•	•	•	•	•	•	•	–	–
31C 30 8502		PSC 63 short	•	•	•	•	•	•	•	•	•	•
31C 30 8506		PSC 63 short	•	•	•	•	•	•	•	•	•	•
31C 30 8504	Side lock arbor with cooling channel bores	PSC 63 short	•	•	•	•	•	•	•	•	•	•
31C 30 8504	Side lock arbor	PSC 63 A = 100	•	•	•	•	•	•	•	•	–	–
31C 30 8509	Side clamping chuck with cooling channel bores	PSC 63 A = 100	•	•	•	•	–	•	–	•	–	–
31C 30 8508	Side clamping chuck	PSC 63 A = 130	•	•	•	•	–	•	–	•	–	–
31C 30 8503		PSC 80 short	•	•	•	•	•	•	•	•	•	•
Dimension A (30 8499)		mm	50	50	50	55	55	55	–	–	–	–
Dimension A (30 8501)		mm	50	50	55	60	60	60	60	60	80	–
Dimension A (30 8502, 30 8506)		mm	55	55	60	60	60	65	65	65	80	90
Dimension A (30 8503)		mm	70	70	70	70	70	70	70	70	80	80
Ø D		mm	25	28	35	42	44	48	50	52	65	72

Whistle-Notch

Application: For clamping tools with suitable clamping flat (2°) to DIN 1835 Form E and DIN 6535 Form HE (= Whistle Notch).



30 8510

Clamping range Ø D ₁		mm	6	8	10	12	14	16	18	20	25	32
31C 30 8510	Whistle-Notch arbor	PSC 63 short	•	•	•	•	•	•	•	•	•	•
Dimension A		mm	75	75	75	80	80	80	80	85	90	95
Ø D		mm	25	28	35	42	44	48	50	52	65	72

ISO 26623-1	G 2.5 25000 min ⁻¹	≤3μm	HPC	HSC
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Garant PSC - HiRunER precision ER collet chuck - ISO26623-1

External and internal tapers are ground. All shanks are turned for a smooth cutting action. Including Balluffchip bore, high-performance clamping nut up to 25000 rpm.

- Advantage:**
- Excellent concentricity in the system** (chuck + collet + clamping nut), 3 μm radial run-out with a 2 μm clamping nut, 6 μm radial run-out with a 5 μm clamping nut.
 - Extremely strong holding force** (up to **factor 2** better than the standard ER chuck).
 - Vibration reduction effect** due to 2-part clamping nuts.

Application: For clamping tools with plain shank in collets to DIN 6499 – Form A and B.

Supplied with: Supplied with **precision clamping nut**.

Optional extras: Coolant pipe No. 309885, Coolant pipe plug-in socket No. 309893, ER collets No. 308901 – 309434, ER clamping wrenches No. 309748 / 309749.

- Note:**
- Clamps only nominal Ø up to shank Ø tolerance h 10.
 - Do not use the clamping nut in combination with a sealing washer.
 - Use the precision collet chuck always in conjunction with the precision clamping nut No. 309617.
 - Use in combination with Fahrion collets.



Standard ER chuck -> Collets are not inserted 100 % into the chuck.



HiRunER -> the full surface of the collet is seated in the chuck -> higher retention forces! -> reduced radial run-out!



30 8542

for ER collets		ER	16	25	32
31C 30 8542	HiRunER precision ER collet chuck	PSC 63 A = 100	•	•	•
Clamping range		mm	1 – 10	1 – 16	2 – 19
Ø D		mm	34	44	52
Spare ER clamping nut 309617			16	25	32

ISO
26623-1

G 2.5
25000
min⁻¹

Garant PSC - Tool arbors with polygonal shank – ISO 26623-1

- With Balluffchip bore.
- All shanks hard turned (for smooth running!).
- Mating faces of the PSC internal contour machined.

Optional extras: Coolant pipe and plug-in socket No. 309885 / 9893.

ER collet chuck



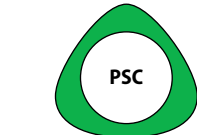
HSC



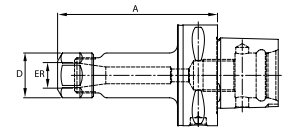
Application: For clamping tools with plain shank in ER collets to DIN 6499 Form A and B.

Supplied with: Coated high-speed clamping nut.

Optional extras: ER collets No. 308881 – 309434. ER chuck keys No. 309680 – 309740.



308513



for ER collets	ER	16	25	32	40
31C 308513	PSC 40 short	•	•	•	–
31C 308514	PSC 50 short	•	•	•	–
31C 308515	PSC 63 short	•	•	•	•
31C 308522	PSC 63 A = 100	•	•	•	•
31C 308530	PSC 63 A = 130	–	•	•	–
31C 308535	PSC 63 A = 160	•	•	–	–
31C 308539	PSC 80 short	•	•	•	•
Clamping range	mm	0.5 – 10	1 – 16	2 – 20	3 – 26
Dimension A (308513)	mm	70	55	55	–
Dimension A (308514)	mm	55	55	60	–
Dimension A (308515)	mm	60	60	60	65
Dimension A (308539)	mm	65	70	70	70
Ø D	mm	28	42	50	63
Spare high-speed nut GARANT No. 309610		16	25	32	40

Face mill arbors



HPC



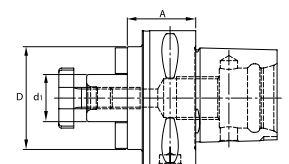
Application: For holding shell end mills and face mills with cross keyway.

Supplied with: Lock screw.

Optional extras: Toggle spanner No. 309840, cutter lock screw No. 309860.



308546



Spigot Ø d ₁	mm	16	22	27	32	40
NEW 31A 308543	PSC-40 short	•	•	–	–	–
NEW 31A 308544	PSC-50 short	•	•	•	–	–
31C 308546	BT 63 ultra short	•	•	•	•	–
31C 308547	PSC 63 A = 65	•	•	•	•	–
31C 308551	PSC 80 short	•	•	•	•	•
Dimension A (308543)	mm	32	25	–	–	–
Dimension A (308544)	mm	35	25	25	–	–
Dimension A (308546)	mm	40	25	25	25	–
Dimension A (308551)	mm	50	50	50	60	60
Ø D (308543, 308544, 308546, 308547)	mm	38	48	60	63	–
Ø D (308551)	mm	38	48	60	78	88

ISO
26623-1

G 2.5
25000
min⁻¹


HPC

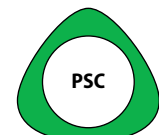
HSC

Garant PSC - Hydraulic chucks, version HT (High Torque) - ISO26623-1

- With Balluffchip bore.
- Axial length adjustment (adjustment 10 mm) available.
- Flexible due to use of reducing sleeves.

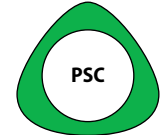
Application: • Maximum transmissible torque **550 Nm**, version HT (High Torque).

Optional extras: • Slotted reducing adapters No. 302155 and No. 302160.



308556

Clamping Ø D1	mm	20
31C 308556	HD chuck HD chuck short, version HT	PSC 63
Dimension A	mm	80
Ø D	mm	49
L ₁	mm	41

ISO
26623-1


Garant PSC - Tool arbors with polygonal shank – ISO 26623-1

- With Balluffchip bore.
- All shanks hard turned (for smooth running!).
- Mating faces of the PSC internal contour machined.

Optional extras: Coolant pipe and plug-in socket No. 309885 / 9893.

Shrink-fit chucks 4° 30'

G 2.5
25000
min⁻¹

HSC

HPC

Application: For clamping tools with shank tolerance h6.

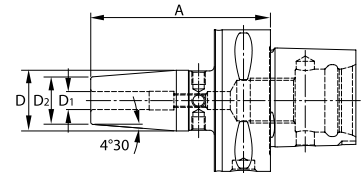
Optional extras: Shrink-fit chuck extensions No. 302410 – 302417. Shrink-fit units No. 354210 – 354450.

Note:

30 8568 Size 3–5 – No length adjustment available.



30 8568



Clamping range Ø D ₁	mm	3	4	5	6	8	10	12	14	16	18	20	25	32
31C 30 8566	PSC 40 short	–	–	–	•	•	•	•	•	•	•	•	–	–
31C 30 8567	PSC 50 short	–	–	–	•	•	•	•	•	•	•	•	•	–
31C 30 8568	PSC 63 short	•	•	•	•	•	•	•	•	•	•	•	•	•
31C 30 8571	PSC 63 A = 120	–	–	–	•	•	•	•	•	•	•	•	–	–
31C 30 8573	PSC 63 short	–	–	–	•	•	•	•	–	•	–	•	–	–
31C 30 8574	PSC 63 A = 120	–	–	–	•	•	•	•	–	•	–	•	–	–
31C 30 8575	PSC 80 short	–	–	–	•	•	•	•	•	•	•	•	•	•
Dimension A (30 8566, 30 8567)	mm	–	–	–	75	75	75	75	80	80	80	85	90	–
Dimension A (30 8568, 30 8573, 30 8575)	mm	80	80	80	80	80	80	80	85	85	85	85	90	95
Ø D	mm	17	17	17	27	27	32	32	34	34	42	42	53	53
Ø D ₂	mm	12	12	12	21	21	24	24	27	27	33	33	44	44

PSC - Precision short drill chucks with polygonal shank

G 2.5
18000
min⁻¹


- For clockwise and anticlockwise rotation.
- Sand-blasted.

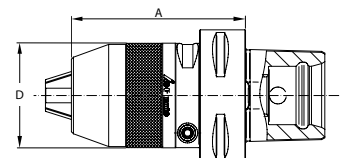
Supplied with:

30 8587 – Clamping wrench.

30 8595 – Torx® clamping wrench.



30 8595



Clamping range	mm	0,3-10	1-16
31B 30 8587	PSC 40	•	–
31B 30 8595	PSC 63	–	•
Dimension A	mm	74	93.1
Ø D	mm	36	50
Spare Torx® screwdriver 625220		–	TX25
Spare hexagon screwdriver 627425		4 AF	–

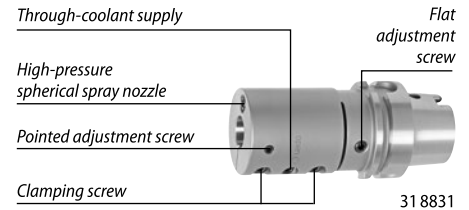
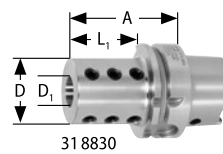
PSC/HSK - Turning Toolholders – for Boring bars / Parting-off / Blanks / Square Shanks

Boring bar holders



31 8831 – **GARANT** - more stability and vibration damping effect due to wrapping around the boring bar.

Application: For mounting boring bars.



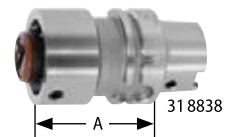
Clamping range $\varnothing D_1$		mm	6	8	10	12	16	20	25	32	40
36D 31 8829	Boring bar holder	HSK-T 40	•	•	•	•	•	–	–	–	–
36D 31 8830	Boring bar holder	HSK-T 63	•	•	•	•	•	•	•	•	•
31G 31 8831	Boring bar holder slotted	HSK-T 63	–	–	•	•	•	•	•	–	–
Dimension A (31 8829)		mm	55	55	55	55	70	–	–	–	–
Dimension A (31 8830)		mm	60	60	60	60	75	75	75	90	90
Dimension A (31 8831)		mm	–	–	105	105	105	105	105	–	–
$\varnothing D$ (31 8829, 31 8830)		mm	34	34	34	36	40	44	50	56	63
$\varnothing D$ (31 8831)		mm	–	–	45	45	45	55	55	–	–
L_1 (31 8829)		mm	35	35	35	35	50	–	–	–	–
L_1 (31 8830)		mm	34	34	34	34	49	49	49	64	64
L_1 (31 8831)		mm	–	–	79.05	79.05	79.05	79.05	79.05	–	–

Extensions



Application: For extension of HSK interfaces.

A dimension		mm	80	120
36D 31 8838	Extension HSK-T63 / HSK-T63	HSK-T 63	•	•
Dimension A		mm	80	120

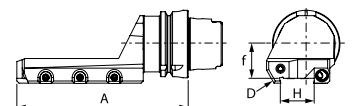
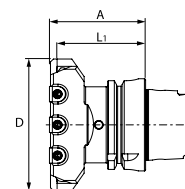


Parting-off toolholder



Application: To take parting-off blades with coolant delivery from all popular manufacturers. Transfer holes not used can be closed off using the screws supplied. Supplied with ball spray nozzle.

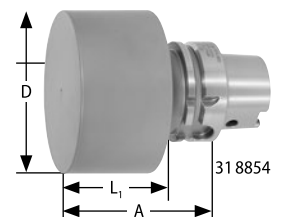
for blade height H		mm	32
36D 31 8843	eco radial parting-off toolholder	HSK-T 63	•
36D 31 8844	eco axial parting-off toolholder, right-hand	HSK-T 63	•
36D 31 8845	eco axial parting-off toolholder, left-hand	HSK-T 63	•
Dimension A (31 8843)		mm	65
Dimension A (31 8844, 31 8845)		mm	160
L_1 (31 8843)		mm	60
$\varnothing D$ (31 8843)		mm	90
$\varnothing D$ (31 8844, 31 8845)		mm	75
f (31 8844, 31 8845)		mm	32



Blanks

Application: For making special tools.

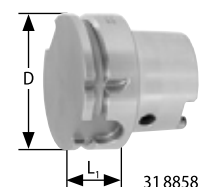
$\varnothing D \times A$ dimension		mm	54×55	63×200	102×100
36D 31 8853	Blank	HSK-T 40	•	–	–
36D 31 8854	Blank	HSK-T 63	–	•	•
L_1		mm	35	174	74



Blanking plug

Application: For closing off unused HSK clamping units.

HSK-T		40	63
36D 31 8858	 HSK-T - blanking plug		
Adapter		HSK-T 40	HSK-T 63
Ø D	mm	40	63
L	mm	20	26

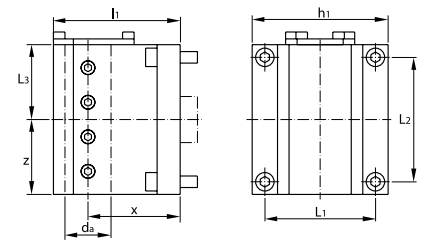


Boring bar / combination holder

For internal and external cooling.

Application: For internal machining with boring bar holder or indexable drills.

BMT		40	60	55/E	55/D	68
31V 31 9888	Boring bar holder	•	•	•	•	•
Z	mm	65	70	58	60	64
x	mm	100	80	85	60	95
I ₁	mm	125	110	115	90	123
d _a	mm	32	40	32	40	32
L ₁	mm	70	94	64	64	110
L ₂	mm	62	84	64	64	68
L ₃	mm	10	30	22	45	21
h ₁	mm	78	108	85	85	76
Suitable machines		Mori NZ, Mori NT, CTX310-BMT	Mori NL, Mori NT	Emag VL, Emag VT	Doosan Lynx, Doosan Puma, Hwacheon	Mazak: QT Smart, QT Kompakt



Toolholder with hollow taper shank (HSK) – Form T for turning / milling centres

ISO
12164-3

Application: For use on lathes and milling centres.

Toolholder for toolholders with square shanks



With adjustable cooling nozzle with internal thread.

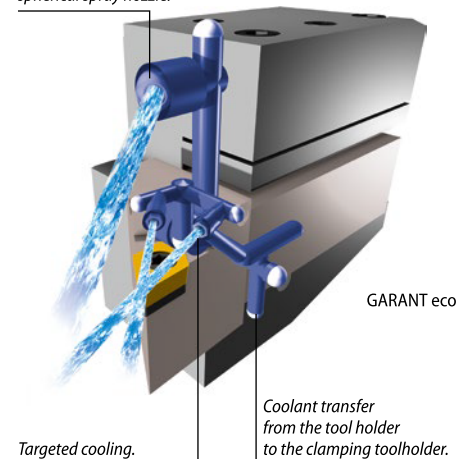
31 8620–8628 – **GARANT** - Optimisation of tool life, better surface finishes, increased process reliability and increased productivity due to GARANT eco.

Application: For mounting ISO toolholders with square shanks.

for toolholder square		mm	20	25
36D 31 8602	Toolholder axial, single, right-hand	HSK-T 40	•	–
36D 31 8606	Toolholder axial, single, left-hand	HSK-T 40	•	–
36D 31 8618	Toolholder radial	HSK-T 40	•	–
31G 31 8620	eco toolholder axial single, right-hand	HSK-T 63	–	•
31G 31 8621	eco toolholder axial single, left-hand	HSK-T 63	–	•
36D 31 8802	Toolholder axial, single, right-hand	HSK-T 63	•	•
36D 31 8806	Toolholder axial, single, left-hand	HSK-T 63	•	•
31G 31 8623	eco toolholder axial double, right-hand	HSK-T 63	–	•
36D 31 8811	Toolholder axial, double, right-hand	HSK-T 63	•	•
36D 31 8814	Toolholder axial, triple, right-hand	HSK-T 63	•	•
31G 31 8625	eco toolholder radial	HSK-T 63	–	•
36D 31 8818	Toolholder radial	HSK-T 63	•	•
31G 31 8627	eco toolholder diagonal 45°, right-hand	HSK-T 63	–	•
31G 31 8628	eco toolholder diagonal 45°, left-hand	HSK-T 63	–	•
36D 31 8822	Toolholder diagonal 45°, right-hand	HSK-T 63	•	•
36D 31 8826	Toolholder diagonal 45°, left-hand	HSK-T 63	•	•
Dimension A (31 8602, 31 8606, 31 8620, 31 8621, 31 8623)	mm	80	130	
Dimension A (31 8618, 31 8625)	mm	75	90	
Dimension A (31 8802, 31 8806, 31 8811, 31 8814)	mm	90	100	
Dimension A (31 8818)	mm	90		
Dimension A (31 8627, 31 8628)	mm	–	112.7	
Dimension A (31 8822, 31 8826)	mm	100		
L ₁ (31 8602, 31 8606, 31 8620, 31 8621, 31 8623, 31 8625)	mm	45	88	
L ₁ (31 8802, 31 8806, 31 8811, 31 8814, 31 8822, 31 8826)	mm	45	58	
L ₁ (31 8627, 31 8628)	mm	–	80	
B (31 8602, 31 8606, 31 8618, 31 8620, 31 8621, 31 8802, 31 8806, 31 8623, 31 8811, 31 8814, 31 8818, 31 8627, 31 8628, 31 8822, 31 8826)	mm	30	40	
B (31 8625)	mm	–	55	
Ø D (31 8602, 31 8606, 31 8618, 31 8620, 31 8621, 31 8802, 31 8806, 31 8623, 31 8811, 31 8625, 31 8818, 31 8822, 31 8826)	mm	80	102	
Ø D (31 8814)	mm	90	102	
Ø D (31 8627, 31 8628)	mm	–	94	
f (31 8627, 31 8628)	mm	–	12.7	
f (31 8822, 31 8826)	mm	15		

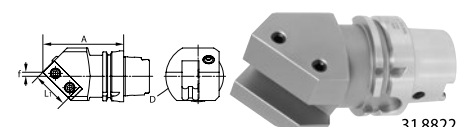
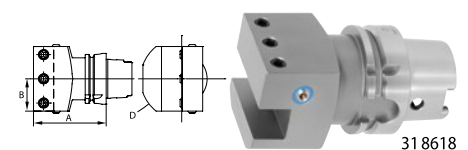
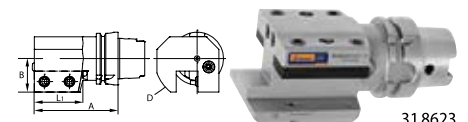


Additional cooling using a high-pressure spherical spray nozzle.



Adapted mating face for strong grip.

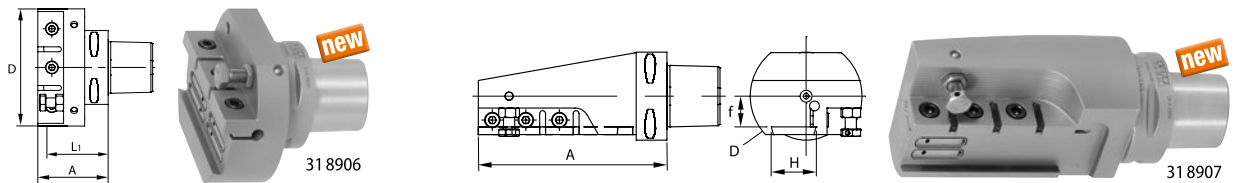
With pass-through shim. Suitable for toolholders with shank 20 and 25 mm.



Parting-off toolholder



Application: To take parting-off blades with coolant delivery from all popular manufacturers. Transfer holes not used can be closed off using the screws supplied. Supplied with ball spray nozzle.



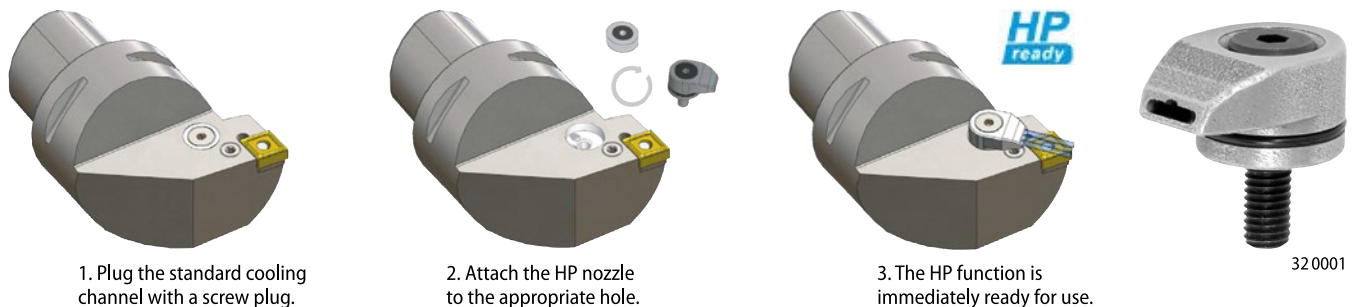
for blade height H		mm	32
360 31 8906	eco radial parting-off toolholder	PSC 63	•
360 31 8907	eco axial parting-off toolholder, right-hand	PSC 63	•
360 31 8909	eco axial parting-off toolholder, left-hand	PSC 63	•
Dimension A (31 8906)		mm	50
Dimension A (31 8907, 31 8909)		mm	160
L ₁ (31 8906)		mm	45.5
Ø D (31 8906)		mm	107
Ø D (31 8907, 31 8909)		mm	96
f (31 8907, 31 8909)		mm	32.5

SWISS TOOLS High-pressure cooling nozzle (HP) for screw-on toolholders

Optimum cooling using a High Pressure (HP) cooling nozzle.

Application: Attachment to a screw-on toolholder with a HP channel.

Supplied with: 1 attachment screw, O-ring, plug screw for the standard cooling channel.



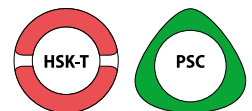
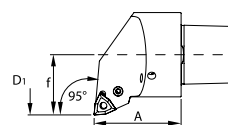
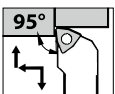
Type	63
360 32 0001	High-pressure cooling nozzle (HP)



SWISS TOOLS PSC/HSK - Turning Toolholders – for Indexable inserts

Note: Order the suitable **HP nozzle** No. 320001 separately. Spare parts No. 320610 – 320626 can be found in the spare parts list. PSC clamping stud on request.

PWLN R/L 95° lever-lock toolholder for WN..0804..



ISO 12164-3



32 0305

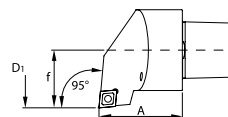
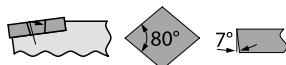
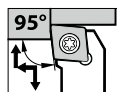
ISO 26623-1



32 0005

Shank Ø / insert size	360 32 0005	360 32 0006	360 32 0305	360 32 0306	Dimension A		Ø D ₁ min	f	suitable indexable insert	Spare part
	Lever-lock toolholder				32 0005	32 0305				
	right-hand	left-hand	right-hand	left-hand	32 0006	32 0306				
mm	HSK-T	HSK-T	PSC	PSC	mm	mm	mm	mm		
40/08HP	•	•	•	•	55	50	50	27	WN..0804..	P04
50/08HP	—	—	•	•	—	60	63	35	WN..0804..	P04
63/08HP	•	•	•	•	70	65	80	45	WN..0804..	P04

SCLC R/L 95° screw-on toolholder for CC..1204..



ISO 12164-3



32 0010

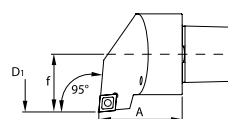
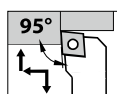
ISO 26623-1



32 0010

Shank Ø / insert size	36D 32 0010	36D 32 0011	36D 32 0310	36D 32 0311	Dimension A		Ø D ₁ min	f	suitable indexable insert	Spare part
	Screw-on toolholder				32 0010 32 0011	32 0310 32 0311	mm	mm		
mm	right-hand HSK-T	left-hand HSK-T	right-hand PSC	left-hand PSC	mm	mm	mm	mm		
40/12HP	•	•	•	•	55	50	50	27	CC..1204..	S01
50/12HP	—	—	•	•	—	60	63	35	CC..1204..	S01
63/12HP	•	•	•	•	70	65	80	45	CC..1204..	S01

PCLN R / L 95° lever-lock toolholder for CN..



ISO 12164-3



32 0315

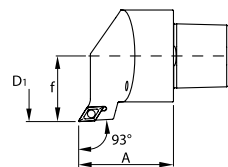
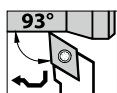
ISO 26623-1



32 0015

Shank Ø / insert size	36D 32 0015	36D 32 0016	36D 32 0315	36D 32 0316	Dimension A		Ø D ₁ min	f	suitable indexable insert	Spare part
	Lever-lock toolholder				32 0015 32 0016	32 0315 32 0316	mm	mm		
mm	right-hand HSK-T	left-hand HSK-T	right-hand PSC	left-hand PSC	mm	mm	mm	mm		
40/12HP	•	•	•	•	55	50	50	27	CN..1204..	P01
50/12HP	—	—	•	•	—	60	63	35	CN..1204..	P01
63/12HP	•	•	•	•	70	65	80	45	CN..1204..	P01
63/16HP	•	•	•	•	70	65	80	45	CN..1606..	P02

SDJC R / L 93° screw-on toolholder for DC..11T3..



ISO 12164-3



32 0030

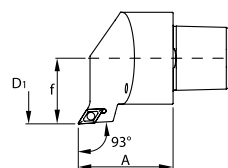
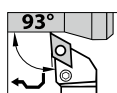
ISO 26623-1



32 0030

Shank Ø / insert size	36D 32 0030	36D 32 0031	36D 32 0330	36D 32 0331	Dimension A		Ø D ₁ min	f	suitable indexable insert	Spare part
	Screw-on toolholder				32 0030 32 0031	32 0330 32 0331	mm	mm		
mm	right-hand HSK-T	left-hand HSK-T	right-hand PSC	left-hand PSC	mm	mm	mm	mm		
40/11HP	•	•	•	•	55	50	50	27	DC..11T3..	S05
50/11HP	—	—	•	•	—	60	63	35	DC..11T3..	S05
63/11HP	•	•	•	•	70	65	80	45	DC..11T3..	S05

PDJN R / L 93° lever-lock toolholder for DN..1506..



ISO 12164-3



32 0035

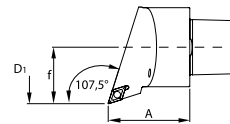
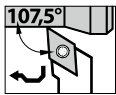
ISO 26623-1



32 0335

Shank Ø / insert size	36D 32 0035	36D 32 0036	36D 32 0335	36D 32 0336	Dimension A		Ø D ₁ min	f	suitable indexable insert	Spare part
	Lever-lock toolholder				32 0035 32 0036	32 0335 32 0336	mm	mm		
mm	right-hand HSK-T	left-hand HSK-T	right-hand PSC	left-hand PSC	mm	mm	mm	mm		
40/15HP	•	•	•	•	55	50	50	27	DN..1506..	P05
50/15HP	—	—	•	•	—	60	63	35	DN..1506..	P05
63/15HP	•	•	•	•	70	65	80	45	DN..1506..	P05

SDHC R / L 107.5° screw-on toolholder for DC..11T3..



ISO 12164-3



32 0040

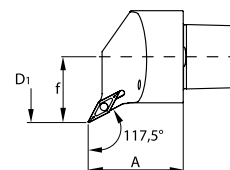
ISO 26623-1



32 0040

Shank Ø / insert size	36D 32 0040	36D 32 0041	36D 32 0340	36D 32 0341	Dimension A		Ø D ₁ min	f	suitable indexable insert	Spare part
	right-hand	left-hand	right-hand	left-hand	32 0040	32 0340				
mm	HSK-T	HSK-T	PSC	PSC	mm	mm	mm	mm		
40/11HP	•	•	•	•	55	50	50	27	DC..11T3..	S05
50/11HP	—	—	•	•	—	60	63	35	DC..11T3..	S05
63/11HP	•	•	•	•	70	65	80	45	DC..11T3..	S05

SVPB R / L 117.5° screw-on toolholder for VB..1604..



ISO 12164-3



32 0350

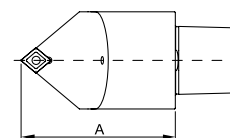
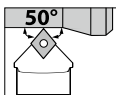
ISO 26623-1



32 0050

Shank Ø / insert size	36D 32 0050	36D 32 0051	36D 32 0350	36D 32 0351	Dimension A		Ø D ₁ min	f	suitable indexable insert	Spare part
	right-hand	left-hand	right-hand	left-hand	32 0050	32 0350				
mm	HSK-T	HSK-T	PSC	PSC	mm	mm	mm	mm		
40/16HP	•	•	•	•	55	50	50	27	VB..1604..	S07
50/16HP	—	—	•	•	—	60	63	35	VB..1604..	S07
63/16HP	•	•	•	•	70	65	80	45	VB..1604..	S07

PCMN N 50° lever-lock toolholder for CN..



ISO 12164-3



32 0065

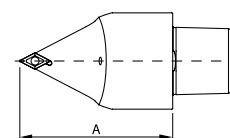
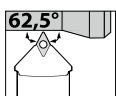
ISO 26623-1



32 0365

Shank Ø / insert size — A dimension	36D 32 0065	36D 32 0365	Dimension A	suitable indexable insert	Spare part
	HSK-T	PSC			
mm			mm		
4012-80HP	•	—	80	CN..1204..	P01
6312-100HP	•	•	100	CN..1204..	P01
6312-130HP	•	•	130	CN..1204..	P01
6316-100HP	•	•	100	CN..1606..	P02
6316-130HP	•	•	130	CN..1606..	P02

SDNC N 62.5° screw-on toolholder for DC..11T3



ISO 12164-3



32 0070

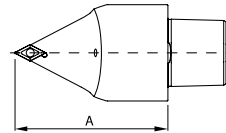
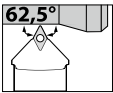
ISO 26623-1



32 0370

Shank Ø / insert size — A dimension	36D 32 0070	36D 32 0370	Dimension A	suitable indexable insert	Spare part
	HSK-T	PSC			
mm			mm		
4011-80HP	•	—	80	DC..11T3..	S05
6311-130HP	•	•	130	DC..11T3..	S05
6311-100HP	•	•	100	DC..11T3..	S05

PDNN N 62.5° lever-lock toolholder for DN..1506..



ISO 12164-3



32 0075

ISO 26623-1



32 0375

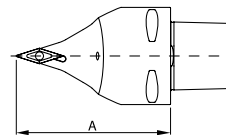
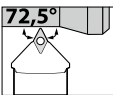
Shank Ø / insert size — A dimension	36D 32 0075	36D 32 0375	Dimension A	suitable indexable insert	Spare part
	Lever-lock toolholder neutral				
mm	HSK-T	PSC	mm		
4015-80HP	•	—	80	DN..1506..	P06
6315-100HP	•	•	100	DN..1506..	P06
6315-130HP	•	•	130	DN..1506..	P06



SWISS TOOLS Toolholder / boring bars for indexable inserts

Note: Appropriate spare parts No. 320610 — 320626 can be found in the spare parts list.

SVVB N 72.5° screw-on toolholder for VB..1604..



ISO 12164-3



32 0380

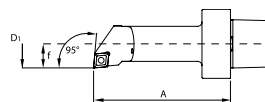
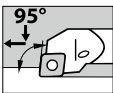
ISO 26623-1



32 0080

Shank Ø / insert size — A dimension	36D 32 0080	36D 32 0380	Dimension A	suitable indexable insert	Spare part
	Screw-on toolholder neutral				
mm	HSK-T	PSC	mm		
4016-80HP	•	—	80	VB..1604..	S07
6316-100HP	•	•	100	VB..1604..	S07
6316-130HP	•	•	130	VB..1604..	S07

SCLC R / L 95° boring bar for CC..1204..



ISO 12164-3



32 0385

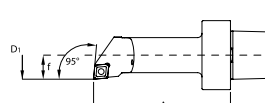
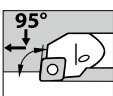
ISO 26623-1



32 0085

Shank Ø / insert size — A dimension	36D 32 0085	36D 32 0086	36D 32 0385	36D 32 0386	Dimension A	Ø D ₁ min	f	suitable indexable insert	Spare part
	Screw-on boring bar								
	right-hand	left-hand	right-hand	left-hand					
mm	HSK-T	HSK-T	PSC	PSC	mm	mm	mm		
40/12-90	—	—	—	—	90	32	17	CC..1204..	S01
40/12-110	•	•	•	•	110	40	22	CC..1204..	S01
40/12-140	•	•	—	—	140	32	17	CC..1204..	S01
50/12-90	—	—	•	•	90	32	17	CC..1204..	S01
50/12-110	—	—	•	•	110	40	22	CC..1204..	S01
63/12-125	•	•	•	•	125	40	22	CC..1204..	S01
63/12-140	•	•	•	•	140	50	27	CC..1204..	S01
63/12-160	•	•	•	•	160	40	22	CC..1204..	S01
63/12-180	•	•	•	•	180	50	27	CC..1204..	S01

PCLN R / L 95° boring bar for CN..1204..



ISO 12164-3



32 0390

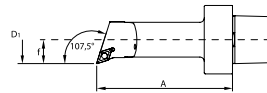
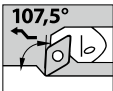
ISO 26623-1



32 0090

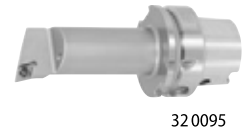
Shank Ø / insert size — A dimension	36D 32 0090	36D 32 0091	36D 32 0390	36D 32 0391	Dimension A	Ø D ₁ min	f	suitable indexable insert	Spare part
	Lever-lock boring bar								
	right-hand	left-hand	right-hand	left-hand					
mm	HSK-T	HSK-T	PSC	PSC	mm	mm	mm		
40/12-110	—	—	•	•	110	40	22	CN..1204..	P01
50/12-110	—	—	•	•	110	40	22	CN..1204..	P01
63/12-140	•	•	•	•	140	50	27	CN..1204..	P01
63/12-180	•	•	•	•	180	50	27	CN..1204..	P01

SDQC R / L 107.5° boring bar for DC..11T3..



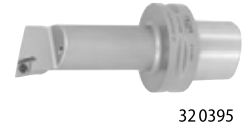
Shank Ø / insert size — A dimension	36D 32 0095	36D 32 0096	36D 32 0395	36D 32 0396	Dimension A	Ø D ₁ min	f	suitable indexable insert	Spare part
	right-hand HSK-T	left-hand HSK-T	right-hand PSC	left-hand PSC	mm	mm	mm		
40/11-90	—	—	•	•	90	32	17	DC..11T3..	S05
40/11-110	•	•	•	•	110	40	22	DC..11T3..	S05
40/11-140	•	•	—	—	140	32	17	DC..11T3..	S05
50/11-90	—	—	•	•	90	32	17	DC..11T3..	S05
50/11-110	—	—	•	•	110	40	22	DC..11T3..	S05
63/11-125	•	•	•	•	125	40	22	DC..11T3..	S05
63/11-140	•	•	•	•	140	50	27	DC..11T3..	S05
63/11-160	•	•	•	•	160	40	22	DC..11T3..	S05
63/11-180	•	•	•	•	180	50	27	DC..11T3..	S05

ISO 12164-3



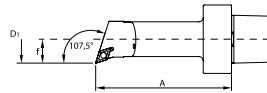
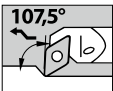
32 0095

ISO 26623-1



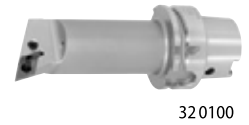
32 0395

PDQN R / L 107.5° boring bar for DN..1506..



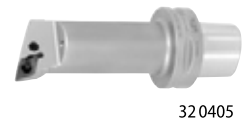
Shank Ø / insert size — A dimension	36D 32 0100	36D 32 0101	36D 32 0405	36D 32 0406	Dimension A	Ø D ₁ min	f	suitable indexable insert	Spare part
	right-hand HSK-T	left-hand HSK-T	right-hand PSC	left-hand PSC	mm	mm	mm		
40/15-110	—	—	•	•	110	40	22	DN..1506..	P05
50/15-110	—	—	•	•	110	40	22	DN..1506..	P05
63/15-140	•	•	•	•	140	50	27	DN..1506..	P05
63/15-180	•	•	•	•	180	50	27	DN..1506..	P05

ISO 12164-3



32 0100

ISO 26623-1



32 0405



ISO 26623-1

ISO 12164-3

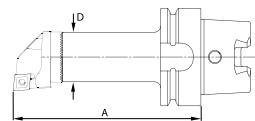


ST boring bar shanks for exchangeable heads

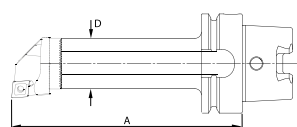
- For efficient turning.
- For left-hand and right-hand turning.

Application: For mounting exchangeable cutting heads.

Note: For suitable interchangeable heads see No. 264826 – 264827.



32 0102



32 0103

Boring bar shanks for HP ready

Shank Ø / Ø D — A dimension	36D 32 0102	36D 32 0407
	Boring bar shank	
	HSK-T	PSC
40/25-90	•	•
40/25-110	•	—
40/32-110	•	•
40/32-115	•	—
40/40-120	•	•
50/25-90	—	•
50/32-110	—	•
50/40-140	—	•
63/25-100	—	•
63/25-105	•	—
63/32-125	•	•
63/32-160	•	•
63/40-140	•	•
63/40-180	•	•

Ø D — A dimension	36D 32 0410
	Plain boring bar shank
mm	
25-200	•
32-218	•
40-283	•



32 0410

Shank Ø / Ø D — A dimension	36D 32 0103	36D 32 0408
	Boring bar shank vibration-damped	
	HSK-T	PSC
mm		
63/25-150	•	•
63/32-185	•	•
63/40-225	•	•

Recommended tightening torque (MA) ER collet



Code letter	Shank [mm]	MA [Nm]	Shank [mm]	MA [Nm]	Shank [mm]	MA [Nm]	Shank [mm]	MA [Nm]
ER 11	1.0 - 2.5	7	3.0 - 7.0	10	—	—	—	—
ER 16	1.0	10	1.5 - 3.5	25 - 30	4.0 - 10.0	50 - 55	—	—
ER 20	1.0 - 3.0	15 - 20	3.0 - 5.5	30 - 35	6.0 - 9.0	50 - 55	9.5 - 13.0	70 - 75
ER 25	1.0 - 3.0	25 - 30	3.5 - 6.5	35 - 40	7.0 - 10.0	55 - 60	10.5 - 16.0	80 - 90
ER 32	2.0 - 3.0	30 - 35	3.5 - 6.5	55 - 60	7.0 - 15.5	110 - 120	16.0 - 20.0	130 - 140
ER 40	3.0 - 7.0	60 - 70	8.0 - 11.0	100 - 110	12.0 - 17.0	140 - 150	18.0 - 26.0	190 - 200

30 9014/9018/9022/9026 – With seal.

Supplied with:

30 9008/9010 – In a wooden box, 0.5 mm increments.

30 9012–9021/9024/9028 – In a wooden box, 1 mm increments.

30 9022/9026 – In a wooden box, 2 mm increments.



30 9024

30 9026

39Y 30 9008	39Y 30 9010	39Y 30 9012	39Y 30 9014	39Y 30 9016	39Y 30 9018	39Y 30 9021	39Y 30 9022	39Y 30 9024	39Y 30 9026	39Y 30 9028
ER collet set 9 pieces 1–5 mm	ER collet set 13 pieces 1–7 mm	ER collet set 10 pieces 1–10 mm	ER collet set 6 pieces, 3, 4, 5, 6, 8, 10 mm with seal	ER collet set 12 pieces 2–13 mm	ER collet set 7 pieces 3, 4, 5, 6, 8, 10, 12 mm with seal	ER collet set 15 pieces 2–16 mm	ER collet set 7 pieces 4–16 mm with seal	ER collet set 18 pieces 3–20 mm	ER collet set 8 pieces 4–16, 20 mm with seal	ER collet set 23 pieces 4–26 mm
ER 8	ER 11	ER 16	ER 16	ER 20	ER 20	ER 25	ER 25	ER 32	ER 32	ER 40



Accessories - ER collets – for ER collet chucks

Through hardened and ground. Polished.

30 8922/8962/9002 – Sealed versions with spray nozzles only for nominal Ø.

Note:

30 8920/8930/8960/9000/9040 – The **collet clamping Ø range** is **always up to 1 mm less than nominal**, e.g. Ø 10 – 9 mm, **except for Ø 1, 1.5 and 2 (where it is only 0.5 mm).**

30 8920/8960/9000 – Collets ER16, ER25 and ER32 without a seal also available in inch sizes via the eShop.



30 9000



30 8922

Nominal clamping Ø d	32Z 30 8918	32Z 30 8920	32Z 30 8922	32Z 30 8930	32Z 30 8960	32Z 30 8962	32Z 30 9000	32Z 30 9002	32Z 30 9040
	ER collet								
	ER 11	ER 16	with seal and spray nozzles ER 16	ER 20	ER 25	with seal and spray nozzles ER 25	ER 32	with seal and spray nozzles ER 32	ER 40
mm									
1	•	•	–	•	–	–	–	–	–
2	•	•	–	•	•	–	–	–	–
3	•	•	•	•	•	•	•	•	–
4	•	•	•	•	•	•	•	•	•
5	•	•	•	•	•	•	•	•	•
6	•	•	•	•	•	•	•	•	•
7	•	•	•	•	•	•	•	•	•
8	–	•	•	•	•	•	•	•	•
9	–	•	•	•	•	•	•	•	•
10	–	•	•	•	•	•	•	•	•
11	–	–	–	•	•	•	•	•	•
12	–	–	–	•	•	•	•	•	•
13	–	–	–	•	•	•	•	•	•
14	–	–	–	•	•	•	•	•	•
15	–	–	–	•	•	•	•	•	•
16	–	–	–	•	•	•	•	•	•
17	–	–	–	–	–	–	•	•	•
18	–	–	–	–	–	–	•	•	•
19	–	–	–	–	–	–	•	•	•
20	–	–	–	–	–	–	•	•	•
21	–	–	–	–	–	–	–	–	•
22	–	–	–	–	–	–	–	–	•
23	–	–	–	–	–	–	–	–	•
24	–	–	–	–	–	–	–	–	•
25	–	–	–	–	–	–	–	–	•
26	–	–	–	–	–	–	–	–	•
Type	4008E	426 E	425 E	428 E	430 E	429 E	470 E	469 E	472 E
Ø D mm	11.3	17	17	21	26	26	33	33	41
L mm	18	27.5	27.5	31.5	34	34	40	40	46



HOLEX Accessories - ER collet set

Through hardened and ground. Polished.

30 9165 – Ø 1 mm and 2 mm are without spray nozzles and are not sealed.

30 9245 – Ø 2 mm without spray nozzles and not sealed.

30 9165/9245/9285 – Sealed versions with spray nozzles only for nominal Ø.

Supplied with:

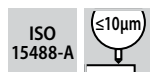
30 9165 – In a case with rigid foam inlay, 1 mm increments.

30 9155–9160/9200–9320 – In a case with rigid foam inlay, 1 mm increments.



30 9280

32Z	30 9155	32Z	30 9160	32Z	30 9165	32Z	30 9200	32Z	30 9240	32Z	30 9245	32Z	30 9280	32Z	30 9285	32Z	30 9320
	ER collet set 7 pieces 1–7 mm		ER collet set 10 pieces 1–10 mm		ER collet set 12 pieces 2–13 mm		ER collet set 15 pieces 2–16 mm		ER collet set 18 pieces 3–20 mm		ER collet set 23 pieces 4–26 mm						
					with seal and spray nozzles				with seal and spray nozzles					with seal and spray nozzles			
	ER 11		ER 16		ER 16		ER 20		ER 25		ER 25		ER 32		ER 32		ER 40
	•		•		•		•		•		•		•		•		•



HOLEX Accessories - ER collets, sealed - for ER collet chucks

Ø 2 mm without seal.

30 9164 – Ø 1 mm and 2 mm are without seal.

30 9244 – Ø 2 mm without seal.

Supplied with:

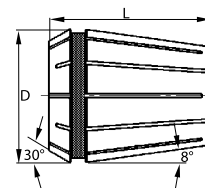
30 9164–9284 – In a case with rigid foam inlay, 1 mm increments.

Note: Collets ER16, ER25 and ER32 with seal also available in inch sizes via the eShop.



Sealed variant, no sealing washer necessary.

Nominal clamping Ø d	32Z	30 8921	32Z	30 8959	32Z	30 9001
mm		ER16		ER collet with seal ER25		ER32
3		•		•		•
4		•		•		•
5		•		•		•
6		•		•		•
7		•		•		•
8		•		•		•
9		•		•		•
10		•		•		•
11		–		•		•
12		–		•		•
13		–		•		•
14		–		•		•
15		–		•		•
16		–		•		•
17		–		–		•
18		–		–		•
19		–		–		•
20		–		–		•
Type		425 E		429 E		469 E
Ø D	mm	17		26		33
L	mm	27.5		34		40



30 8921



30 9001

32Z	30 9164	32Z	30 9244	32Z	30 9284
	ER collet set 10 pieces 1–10 mm		ER collet set 15 pieces 2–16 mm		ER collet set 18 pieces 3–20 mm
	with seal		with seal		with seal
	ER16		ER25		ER32
	•		•		•



30 9164


FAHRION®
PRAZISION

Accessories - Precision ER collets – for ER collet chucks

Through hardened and ground.

Corrosion protection: Collets fully coated with FAHRION Protect, including the functional faces.

Advantage: The coating increases the service life of the collet and ensures full functionality and precision.

Note:

30 8878–8881/8901/8911/8941/8981/8990 – The **collet clamping Ø range** is always up to 1 mm less than nominal, e.g. Ø 10 – 9 mm, **except for Ø 1, 1.5 and 2 (where it is only 0.5 mm).**

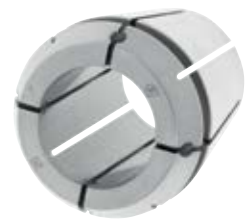
30 8882/8906/8916/8946/8986/8992 – With **seal** for through-coolant (for use up to 100 bar); only the nominal size can be clamped. **Similar to ISO 15488-A.**



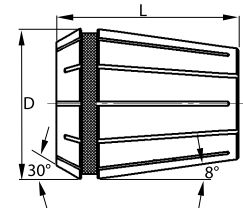
ISO
15488-A



30 8906



Sealed variant, no sealing washer necessary.



Nominal clamping Ø d	39Y 30 8878	39Y 30 8881	39Y 30 8882	39Y 30 8901	39Y 30 8906	39Y 30 8911	39Y 30 8916
	ER collet						
mm	ER 8	ER 11	with seal ER 11	ER 16	with seal ER 16	ER 20	with seal ER 20
1	•	•	–	•	–	•	–
1,5	•	•	–	•	–	•	–
2	•	•	–	•	–	•	–
2,5	•	•	–	•	–	•	–
3	•	•	•	•	•	•	•
3,5	•	•	–	–	–	–	–
4	•	•	•	•	•	•	•
4,5	•	•	–	–	–	–	–
5	•	•	•	•	•	•	•
5,5	–	•	–	–	–	–	–
6	–	•	•	•	•	•	•
6,5	–	•	–	–	–	–	–
7	–	•	–	•	•	•	•
8	–	–	–	•	•	•	•
9	–	–	–	•	•	•	•
10	–	–	–	•	•	•	•
11	–	–	–	–	–	•	•
12	–	–	–	–	–	•	•
13	–	–	–	–	–	•	–
Type	4004 E	4008 E	4012 E	426 E	425 E	428 E	427 E
Ø D mm	8.5	11.3	11.2	17	16.7	21	20.7
L mm	13.6	18	18	27.5	27.5	31.5	31.5

Nominal clamping Ø d	39Y 30 8941	39Y 30 8946	39Y 30 8981	39Y 30 8986	39Y 30 8990	39Y 30 8992
	ER collet					
mm	ER 25	with seal ER 25	ER 32	with seal ER 32	ER 40	with seal ER 40
2	•	–	–	–	–	–
2,5	•	–	–	–	–	–
3	•	•	•	•	–	–
4	•	•	•	•	•	–
5	•	•	•	•	•	•
6	•	•	•	•	•	•
7	•	•	•	•	•	•
8	•	•	•	•	•	•
9	•	•	•	•	•	•
10	•	•	•	•	•	•
11	•	•	•	•	•	•
12	•	•	•	•	•	•
13	•	•	•	•	•	•
14	•	•	•	•	•	•
15	•	•	•	•	•	•
16	•	•	•	•	•	•
17	–	–	•	•	•	•
18	–	–	•	•	•	•
19	–	–	•	•	•	•
20	–	–	•	•	•	•
21	–	–	–	–	•	•
22	–	–	–	–	•	•
23	–	–	–	–	•	•
24	–	–	–	–	•	•
25	–	–	–	–	•	•
26	–	–	–	–	•	–
Type	430 E	429 E	470 E	469 E	472 E	471 E
Ø D mm	26	25.7	33	32.7	41	40.7
L mm	34	34	40	40	46	46

ISO
15488-B



30 8981

Accessories - Pull studs (PS) for tool arbors

- Application:**
- For tools with taper shanks see also **DIN 69871 and JIS B 6339** (MAS-BT).
 - In machining centres (machines **with** automatic tool changers).
 - In NC machines (machines **without** automatic tool changers).

Note: Look in the eShop - you will find the right clamping wrench for every job.

Pull studs

DIN
69872

suitable for steep tapers

			30	40	50
31Z	30 8600	Garant Pull stud Form A	with bore	—	•
31Z	30 8605	Garant Pull stud, 18CrNiMo7 Form A	with bore	—	•
32Z	30 8610	HOLEX Pull stud stud sealed, form A	with bore	•	•
31Z	30 8615	Garant Pull stud, 18CrNiMo7 sealed, form B	without bore	—	•
31Z	30 8620	Garant Pull stud sealed, form B	without bore	—	•
32Z	30 8625	HOLEX Pull stud Mori-Seiki, sealed, form A	with bore $\varnothing 7$ mm	—	—
32Z	30 8630	HOLEX Pull stud Mori-Seiki, sealed, form A	with bore $\varnothing 7$ mm	—	—
$\varnothing D$		mm	17	23	36
$\varnothing D_1$		mm	13	19	28
L		mm	44	54	74
L ₁ (30 8600, 30 8605, 30 8610, 30 8615, 30 8620, 30 8625)		mm	24	26	34
L ₁ (30 8630)		mm	—	29	—
M			M12	M16	M24
Angle A (30 8625, 30 8630)		degrees	—	15	—
maximum tightening torque		N-m	20	50	150
suitable for taper arbors with colour code					

Suitable for:

30 8635 – FADAL, similar to ISO 7388, 3 mm, extended.

			40
32Z	30 8635	HOLEX Pull stud sealed	with bore
$\varnothing D$		mm	22
$\varnothing D_1$		mm	18.95
L		mm	47.5
L ₁		mm	19.25
M			M16
maximum tightening torque		N-m	50
suitable for taper arbors with colour code			

suitable for steep tapers

			40	50
31Z	30 8640	Garant Pull stud Form B	with bore	•
32Z	30 8650	HOLEX Pull stud sealed, form B	with bore	•
31Z	30 8660	Garant Pull stud sealed	without bore	•
$\varnothing D$		mm	22.5	36
$\varnothing D_1$		mm	18.95	29.1
L		mm	44.5	65.5
L ₁		mm	16.25	25.55
M			M16	M24
maximum tightening torque		N-m	50	150
suitable for taper arbors with colour code				

Pull studs - Mazak (with end face ground flat)

CAT

- End face turned flat.

suitable for steep tapers

			40M	40M7
32Z	30 8670	HOLEX Pull stud Mazak sealed, form A	with bore	•
$\varnothing D$		mm	21.8	
$\varnothing D_1$		mm	18.79	
L		mm	41.25	
L ₁		mm	16.25	
M			M16	
maximum tightening torque		N-m	50	
suitable for taper arbors with colour code				
Bore $\varnothing$		mm	6	7

Colour code: SK 30 SK 40 SK 50

40 • Aus Stock | • Euro Stock



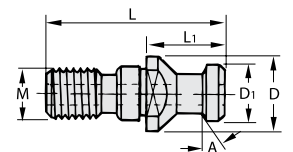
30 8600 / 8605



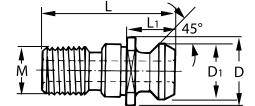
30 8610



30 8615 / 8620



30 8635



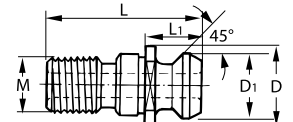
ISO
7388



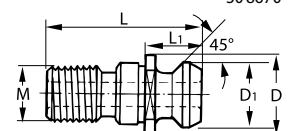
30 8640



30 8660



30 8670



HOLEX Accessories - Pull studs (PS) for tool arbors

Note: Look in the eShop - you will find the right clamping wrench for every job.

Special pull stud with snap ring groove

Application: For tools with taper shanks see also **DIN 69871 / ISO 7388-1**.

suitable for steep tapers		40	50
32Z 30 8700	Special pull stud with no internal thread sealed without bore	•	—
32Z 30 8720	Special pull stud with no internal thread sealed with bore	•	•
32Z 30 8740	Special pull stud with internal thread with bore	•	•
Ø D	mm	25.1	39.3
Ø D ₁	mm	21.1	32
L	mm	53	65
L ₁	mm	25.1	
M		M16	M24
Internal thread (30 8740)		M16	M24
Internal thread depth (30 8740)	mm	17	17.5
maximum tightening torque	N-m	50	150
suitable for taper arbors with colour code		•	•

Pull studs 45°, 60°, 90°

Application: For tools with taper shanks see also **JIS B 6339 (MAS-BT) / ISO 7388-2**.

suitable for steep tapers		30	40	50
32Z 30 8760	Pull stud 45° sealed without bore	•	•	•
32Z 30 8765	with bore	•	•	•
32Z 30 8785	Pull stud 60° sealed with bore	•	•	•
32Z 30 8790	Pull stud 90° sealed without bore	—	•	•
32Z 30 8795	with bore	—	•	•
Ø D	mm	16.5	23	38
Ø D ₁	mm	11	15	23
L	mm	43	60	85
L ₁	mm	23	35	45
M		M12	M16	M24
maximum tightening torque	N-m	20	50	150
suitable for taper arbors with colour code		•	•	•

Application: For tools with taper shanks see also **DIN 69871 / ISO 7388-1**.

suitable for steep tapers		40
32Z 30 8801	Pull stud Hurco 45° with bore and fit sealed	•
32Z 30 8802	Pull stud Hurco 45° with fit sealed	•
32Z 30 8806	Pull stud Hurco 90° with fit sealed	•
32Z 30 8680	Pull stud Haas-Mikron R 3 / 45° with bore and fit sealed	•
32Z 30 8685	Pull stud Haas-Mikron R 3 / 45° without bore sealed	•
Ø D	mm	23
Ø D ₁	mm	15
L (30 8801, 30 8802, 30 8806)	mm	57.15
L (30 8680, 30 8685)	mm	57
L ₁	mm	32
M		M16
maximum tightening torque	N-m	50
suitable for taper arbors with colour code		•

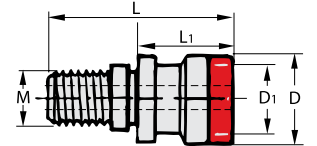
Pull studs with buttress thread S20×2

suitable for steep tapers		40
32Z 30 8800	Special pull stud S20×2	•
L	mm	53
L ₁	mm	25
M		M16
M ₁		S20×2
maximum tightening torque	N-m	50
suitable for taper arbors with colour code		•

Colour code: • SK 40 • SK 50 • SK 30



308700_40

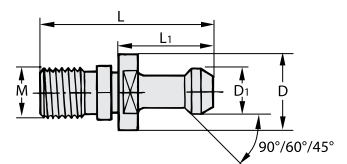


308720_50

MAS
403



308760_40



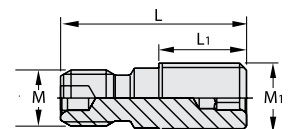
308803



308680



308800



Accessories - Toolholders – ER clamping nuts

ER clamping nuts

DIN
6499 D

Thread and taper ground in a single setup for highest concentricity.

30 9612 – With plain bearings, delivering lower friction and higher clamping force.

30 9617 – Surface smoothly coated, ball-bearing mounted. Low coefficient of friction, high clamping forces.

30 9618 – Slim, symmetrical design.

30 9619 – 6 screws allow the radial run-out to be reduced to zero.

30 9621 – Internal clamping nut with an external thread.

30 9580 Size 25–40 – **With slots.**

30 9610 Size 11 – **With hexagon 17 AF.**

30 9610/9615 – Nut coated for: lower friction and **increased clamping force** coupled with high wear resistance and corrosion resistance.

30 9615/9621 – Sealing rings No. 30 9625 / 9630 / 9635 / 9645.

30 9580 Size 16; 20 – **With hexagon 25 AF.**

Suitable for:

30 9617 – Precision ER mini collet chuck, see No. 300642 / 0643 / 2843 / 2844 / 5523 / 5524.

30 9618 – Precision ER collet chuck, see No. 300643 / 2839 / 2844 / 5518 / 5524.

30 9619 – Ideally suitable for lathes, both for stationary and driven tools.

30 9621 – ER collet chucks with internal thread.

30 9580–9615/9619 – All standard ER collet chucks.

Optional extras:

30 9580/30 9610/30 9612/30 9615/30 9617/30 9619/30 9621/ – ER clamping wrench, No. 30 9680 – 30 9740.
Single open ended spanner (for size 16), No. 613300 size 25.

30 9618 – ER chuck key No. 30 9757 / 9758.

Note: Collet chuck and clamping nut are balanced separately!

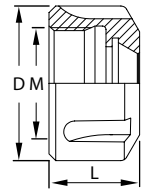
30 9619 – Up to 6000 rpm.



30 9610_11-20



30 9610_25-40



G 2.5
25000
min⁻¹



30 9612



30 9617

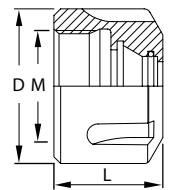
G 6.3
15000
min⁻¹



30 9621_25



30 9618



for ER			NEW		NEW		11	11M	16	16M	20	25	32	40
Type	Brand	Description												
30 9580	HOLEX	ER clamping nut	–	–	•	–	–	–	•	•	•	•	•	•
30 9610	Garant	ER clamping nut High Speed	•	–	•	–	–	–	•	•	•	•	•	•
30 9612	Garant	ER plain bearing clamping nut	–	–	•	–	–	–	•	•	•	•	•	•
30 9617	Garant	ER clamping nut for precision collet chucks	–	–	•	–	–	–	•	•	•	•	•	•
30 9618	Garant	ER mini mono-nut for precision collet chucks	–	•	–	•	–	–	–	–	–	–	–	–
30 9621	Garant	ER clamping nut Internal	–	–	•	–	–	–	•	•	•	•	•	•
L (30 9580, 30 9610, 30 9618)			mm	12	19.1	18	21.6	19.5	21	23	26			
L (30 9612)			mm	–	–	18	–	–	20.5	23	26			
L (30 9617)			mm	–	–	20.6	–	–	24	26	29			
L (30 9621)			mm	–	–	11	–	–	14.5	17.5	20			
Ø D (30 9580, 30 9610, 30 9618)			mm	19	16	28	24	34	42	50	63			
Ø D (30 9612)			mm	–	–	32	–	–	42	50	63			
Ø D (30 9617)			mm	–	–	33.5	–	–	44	51.8	61.9			
Ø D (30 9621)			mm	–	–	24	–	–	32	40	50			
Thread (30 9580, 30 9610, 30 9612, 30 9618)				M14×0.75	M20×1	M22×1.5	M24×0.75	M25×1.5	M32×1.5	M40×1.5	M50×1.5			
Thread (30 9621)				–	–	M24×1	–	–	M32×1.5	M40×1.5	M50×1.5			
maximum tightening torque (30 9580, 30 9610, 30 9612, 30 9618)			N-m	40	20	80	30	110	140	180	240			
maximum tightening torque (30 9617)			N-m	–	–	54	–	–	101	136	169			
maximum tightening torque (30 9621)			N-m	–	–	40	–	–	55	70	120			

HOLEX Accessories - Wrench for heavy-duty chuck, slim

Suitable for: Heavy-duty chucks, slim, No. 300788, 302879 and 305539.



30 9747

Type		S10	S16	S20
30 9747	Wrench	•	•	•
Ø D	mm	30	38	44

Accessories - Arbors – ER special collets

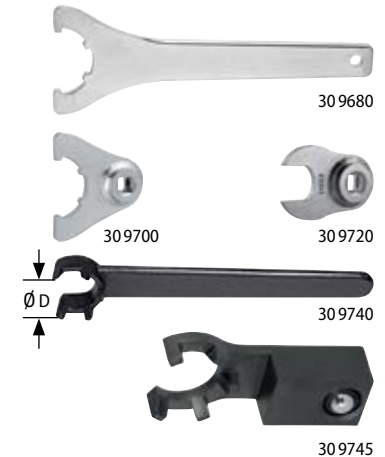
Chuck key for ER collet chucks

Standard

30 9680/9740 – For an **uncontrolled** tightening torque.

30 9700/9720/9745 – For a **controlled** tightening torque using a torque wrench (14×18 / 1/2 inch or 9×12)

for ER collet chuck		8	11	16	20	25	32	40
35A 30 9680	ER chuck key	–	–	•	–	•	•	•
35A 30 9700	ER chuck key 1/2 inch socket	–	–	•	–	•	•	•
35A 30 9720	ER chuck key 1/2 inch 25AF	–	–	•	–	–	–	–
33F 30 9740	Wrench for ER Mini nuts	•	•	•	•	•	–	–
39Z 30 9745	Torque insert for ER mini-nuts	•	•	•	•	•	–	–
overall length (30 9680)	mm	–	–	163	–	203	253	285.5
Ø D (30 9740)	mm	13	17	22.5	28	36	–	–
suitable torque wrench 656050 (30 9700, 30 9720)		–	–	200	–	200	200	200
Plug-in shank □ (30 9745)	mm	9×12	9×12	9×12	9×12	9×12	–	–



Clamping wrench for precision ER collet chucks

Special clamping wrench.

For **standard** nuts No. 309655 / 9665 size 16, 25, 32 and 16DI, 25DI, 32DI.

Suitable for: 30 9754/9756 – **FAHRION** ER collet chuck CENTRO P.
30 9754/9756 Size 16C – ER clamping nut CP No. 309655 size 16C and 16M.
30 9757/9758 – HiRunER Mini GARANT precision collet chuck.

Note: Size M for the mini version.


Type		8M	11M	16M	16MS	16C	16	25	32	40
34F 30 9754	CP roller bearing wrench	•	•	–	•	•	•	•	•	•
34F 30 9756	CP roller bearing wrench for torque wrenches	–	•	–	•	•	•	•	•	•
31T 30 9757	HiRunER roller bearing wrench	–	•	•	–	–	–	–	–	–
31A 30 9758	HiRunER roller bearing wrench for torque wrench	–	•	•	–	–	–	–	–	–
Plug-in shank □ (30 9756, 30 9758)	mm	–	9×12	9×12	9×12	9×12	14×18	14×18	14×18	14×18
suitable torque wrench 656055 (30 9756, 30 9758)		–	60	60	60	60	200	200	200	200

Clamping wrench for precision ER collet chucks HiRunER

HiRunER

Special clamping wrench. For precision collet chucks No. 309617 size 16, 25, 32 and 40.

Suitable for: GARANT HiRunER precision ER collet chuck.


Type		16	25	32	40
31A 30 9748	HiRunER clamping wrench	•	•	•	•
31A 30 9749	HiRunER clamping wrench for torque wrench	•	•	•	•
Plug-in shank □ (30 9749)	inch	1/2			
suitable torque wrench 656050 (30 9749)		60-1/2	200	200	200

Accessories - Wrench for pull studs

Single-piece wrench.

Advantage: Unlike conventional clamping wrenches it cannot slip, no risk of injury!

Application: For safe tightening of pull studs.

Note: See pages 861–862 for suitable pull studs.

suitable for steep tapers	SK	30	40	50
37D 30 8820	Pull stud wrench for Pull studs to DIN 69872	–	•	•
31Z 30 8825	Pull stud wrench for Pull studs to ISO 7388	–	•	•
37D 30 8830	Pull stud wrench for Pull studs to ISO 7388	–	•	•
31Z 30 8835	Pull stud wrench for Pull studs to ISO 7388	•	•	–
Width across flats AF (30 8820, 30 8825)	mm	–	19	30
Width across flats AF (30 8830, 30 8835)	mm	13	18	30



Expand your scope and discover new dimensions.

THE NEW XPENT GARANT 5-AXIS VICE OFFERS YOU UNEXPECTED POSSIBILITIES.

Quick adjustment of the clamping range

- GARANT Xpent size 0:
More than 80 mm travel without changeover.
Ideal for components from 6 – 168 mm.
- GARANT Xpent sizes 1 and 2:
More than 100 mm travel without changeover.
Ideal for components from 6 – 208 mm.

Spindle Quick Change (SQC) system

- The spindle can be taken out in seconds.
- Further details on page 14.

QR code to call up important information

- Instruction Manual
- Accessories/maintenance

- Very good accessibility.
- Perfectly symmetrical.
- All functional faces hardened and ground.
- Variable clamping and adjustment range.
- Quick to use and intuitive in operation.
- Optimum for 5-face machining.
- Made in Germany.



Workpiece programming from the centre

- Interference contours identical on each side.



VIDEO

GARANT Xpent in action:
www.ho7.eu/xpent



CENT

Intelligent jaw system

- Extremely diverse range.
- Top jaws (from page 24) with attachment holes for front jaws, with a 2-step concept (from page 27).
- The front jaws are mounted from the outside, meaning it is quicker and easier to change the jaws.

Spindle

- Individual extensions available up to 1000 mm.
- The spindle does not project beyond the clamping modules in any clamping situation.

Quick release of the fixed clamping module

- Both clamping modules can be moved.
- Clamping via 2 screws exclusively on the fixed clamping module.

Scaling

- Navigation aid for central alignment of the clamping modules.

Optimum flow of chips

- No rat's nests of chips.

Xcellent centric: Discover the advantages of the unique centring capability.

PERFECTLY ALIGN MULTIPLE VICES TO EACH OTHER – THIS HAS NEVER BEEN SO EASY.

XPRESS

- Click system for quick and easy inter-change of jaws.
- No tools required for changing jaws.

XCELLENT CENTRIC

- Adjustment of the clamping centre in the μ range, especially for clamping components using multiple XTRIC vices.

XACTLY PRECISE

- Minimal and uniform lifting of the jaws and the component.
- Suitable for clamping finished parts (see Page 9).





VIDEO

GARANT XTRIC in Action:
<http://ho7.eu/XTRIC>



XTRA STRONG

- 25 kN clamping force.
- Special GARANT tooth form saves time – no pre-indentation necessary.
- Chromium-plated spindle.

XTREMELY VARIABLE

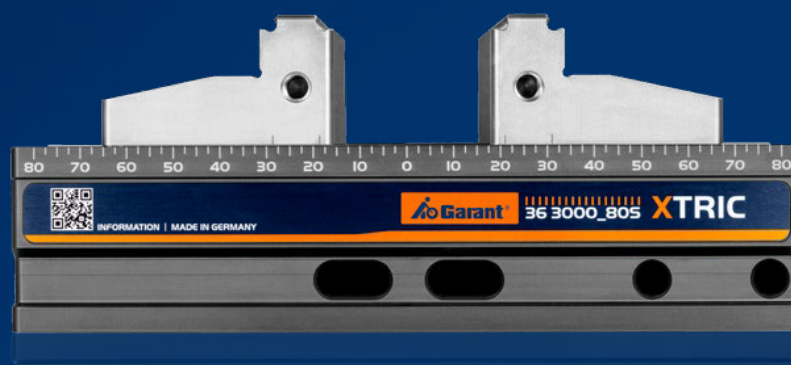
- Compatible with all zero point clamping systems.
- Directly adaptable on the positioning system „LANG“.

XCLUSIVE

- Available only from the Hoffmann Group.
- Satisfies the very highest quality requirements.
- Environmentally-responsible sustainable manufacturing and packaging.

NATURE SHOWS US WONDERFUL
CLAMPING CONCEPTS.

NOW WE OFFER THEM FOR
YOUR PRODUCTION SYSTEMS.



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