



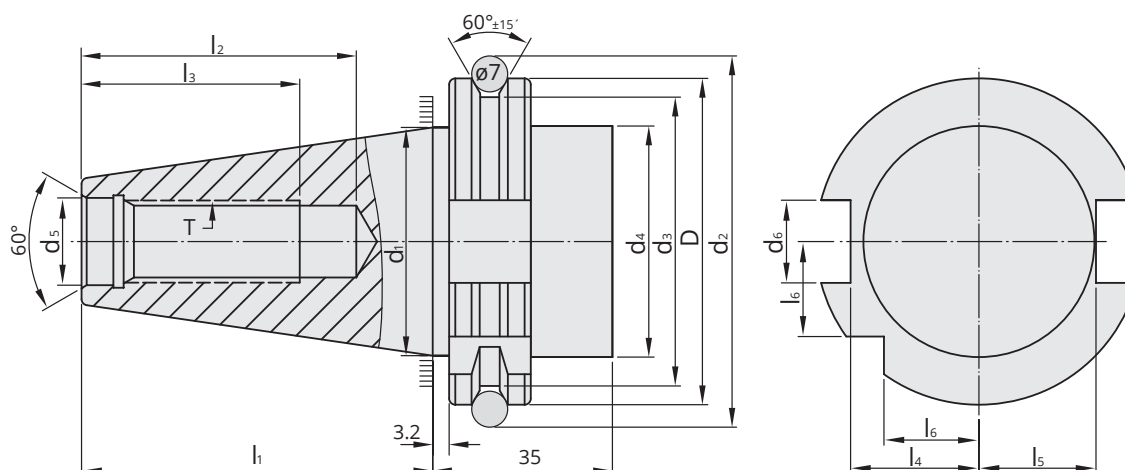
Tool Holders

Toolholders DIN ISO 7388-1 (formerly DIN 69871)	1
Toolholders DIN ISO 7388-2 (formerly JIS B 6339 - MAS / BT)	2
Toolholders with face contact / Dual contact	3
Toolholders DIN 2080	4
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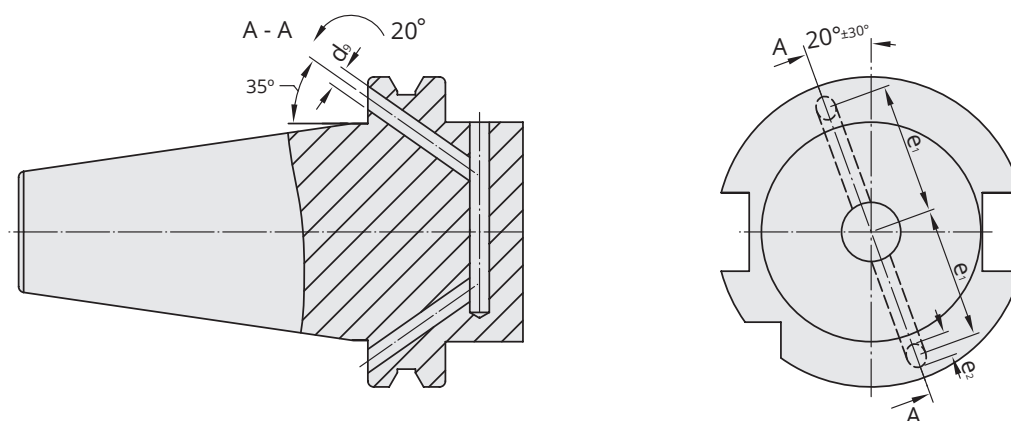
1

***Toolholders
ISO 7388-1
(formerly DIN 69871)***



1


SK	D	d_1	d_2	d_3	d_4	d_5	d_6	d_9	l_1	l_2	l_3	l_4	l_5	l_6	e_1	e_2	T
	$\begin{smallmatrix} 0 \\ -0,1 \end{smallmatrix}$		$\pm 0,05$	$\begin{smallmatrix} 0 \\ -0,5 \end{smallmatrix}$	max	H7	H12		$\begin{smallmatrix} 0 \\ -0,3 \end{smallmatrix}$	min	min	$\begin{smallmatrix} 0 \\ -0,4 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0,4 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0,3 \end{smallmatrix}$	$\pm 0,1$	max	
30	50,00	31,75	59,30	44,30	45	13	16,1	4	47,8	33,5	24	19	16,4	15	21	5	M12
40	63,55	44,45	72,30	56,25	50	17	16,1	4	68,4	42,5	32	25	22,8	18,5	27	5	M16
50	97,50	69,85	107,25	91,25	80	25	25,7	6	101,75	61,5	47	37,7	35,5	30	42	7	M24

G 6,3 15.000 min⁻¹
Pre-balanced
G 2.5 Fine balancing at extra charge
With internal coolant through the collar - form AD/AF (formerly AD/B)


Material: Alloyed case-hardened steel, tensile core strength of min. 950 N/mm².
Case hardened HRC 60 ± 2 (HV 700 ± 50), hardening depth $0.8 \text{ mm} \pm 0.2 \text{ mm}$,
black-finished and precisely grinded.

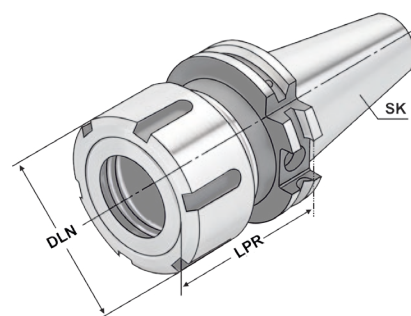
Form AD/AF: Delivery in form AD, type AF (B) closed with releasable headless screws.

Accuracy: Quality of taper < AT 3 according to DIN 7187 and DIN 2080.

1.05 	1.06 	1.08 	1.09 
1.10 	1.11 	1.13 	1.14 
1.15 	1.20 	1.25 	1.26 
1.27 	1.28 	1.29 	1.30 
1.31 	1.33 	1.35 	1.36 
1.37 	1.39 	1.40 	1.41 
1.42 	1.43 	1.44 	1.47 
1.49 	1.50 	1.55 	1.56 

1


Application:
For mounting straight-shank tools in
collets.


ISO
7388-1

Form
AD/AF
(AD/B)

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

G2.5
25.000
min⁻¹

RFID
Chip

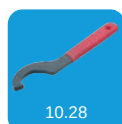
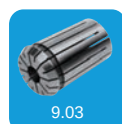
ISO
10897

i
Ch. 11

Order no.	SK	DCONWS Capacity	Typ	LPR	DLN	THID
SK30-02-01-16*	SK 30	2 – 16	415E OZ 16	60	43	M16 x 2,0
SK30-02-01-25*	SK 30	2 – 25	462E OZ 25	80	60	M16 x 2,0
SK40-03-01-16	SK 40	2 – 16	415E OZ 16	70	43	M16 x 2,0
SK40-03-01-25	SK 40	2 – 25	462E OZ 25	70	60	M16 x 2,0
SK40-03-01-32	SK 40	3 – 32	467E OZ 32	90	72	M16 x 2,0
SK40-03-01-16-1	SK 40	2 – 16	415E OZ 16	100	43	M16 x 2,0
SK40-03-01-25-1	SK 40	2 – 25	462E OZ 25	100	60	M16 x 2,0
SK50-03-01-25	SK 50	2 – 25	462E OZ 25	70	60	M16 x 2,0
SK50-03-01-32	SK 50	3 – 32	467E OZ 32	80	72	M16 x 2,0
SK50-03-01-32-1	SK 50	3 – 32	467E OZ 32	100	72	M16 x 2,0

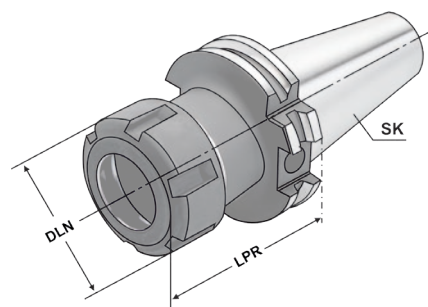
* Form AD

Delivery: *With ball bearing clamping nut*





Application:
For mounting straight-shank tools in
collets.



ISO 7388-1

Form AD


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

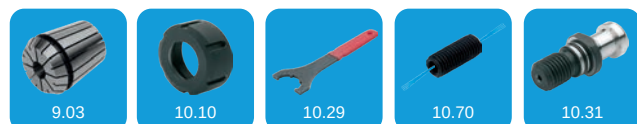

RFID Chip

ISO 15488



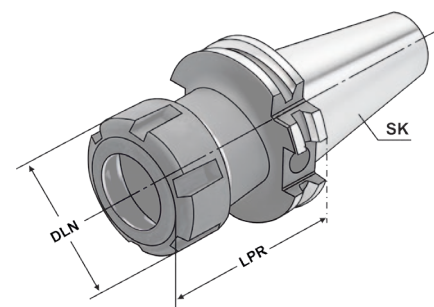
Order no.	SK	DCONWS Capacity	Typ	LPR	DLN	THID
SK30-02-02-10	SK 30	1 – 10	426E ER 16	70	32	M10 x 1,5
SK30-02-02-13	SK 30	2 – 13	428E ER 20	70	35	M12 x 1,75
SK30-02-02-16	SK 30	2 – 16	430E ER 25	70	42	M16 x 2,0
SK30-02-02-20	SK 30	2 – 20	470E ER 32	70	50	M16 x 2,0
SK30-02-02-26	SK 30	3 – 26	472E ER 40	70	63	M16 x 2,0
SK30-02-02-10-1	SK 30	1 – 10	426E ER 16	100	32	M10 x 1,5
SK30-02-02-13-1	SK 30	2 – 13	428E ER 20	100	35	M12 x 1,75
SK30-02-02-16-1	SK 30	2 – 16	430E ER 25	100	42	M16 x 2,0
SK30-02-02-20-1	SK 30	2 – 20	470E ER 32	100	50	M16 x 2,0
SK40-02-02-10	SK 40	1 – 10	426E ER 16	63	32	M10 x 1,5
SK40-02-02-13	SK 40	2 – 13	428E ER 20	70	35	M12 x 1,75
SK40-02-02-16	SK 40	2 – 16	430E ER 25	60	42	M16 x 2,0
SK40-02-02-20	SK 40	2 – 20	470E ER 32	70	50	M16 x 2,0
SK40-02-02-26	SK 40	3 – 26	472E ER 40	80	63	M16 x 2,0
SK40-02-02-10-1	SK 40	1 – 10	426E ER 16	100	32	M10 x 1,5
SK40-02-02-13-1	SK 40	2 – 13	428E ER 20	100	35	M12 x 1,75
SK40-02-02-16-1	SK 40	2 – 16	430E ER 25	100	42	M16 x 2,0
SK40-02-02-20-1	SK 40	2 – 20	470E ER 32	100	50	M16 x 2,0
SK40-02-02-26-1	SK 40	3 – 26	472E ER 40	100	63	M16 x 2,0

Delivery: *With balanced clamping nut*



1


Application:
For mounting straight-shank tools in
collets.



ISO 7388-1

Form
AD/AF
(AD/B)

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

G2.5
25.000
min⁻¹

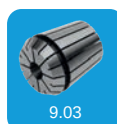
RFID
Chip

ISO
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Order no.	SK	DCONWS Capacity	Typ	LPR	DLN	THID
SK40-03-02-10	SK 40	1 – 10	426E ER 16	63	32	M10 x 1,5
SK40-03-02-13	SK 40	2 – 13	428E ER 20	70	35	M12 x 1,75
SK40-03-02-16	SK 40	2 – 16	430E ER 25	60	42	M16 x 2,0
SK40-03-02-20	SK 40	2 – 20	470E ER 32	70	50	M16 x 2,0
SK40-03-02-26	SK 40	3 – 26	472E ER 40	80	63	M16 x 2,0
SK40-03-02-10-1	SK 40	1 – 10	426E ER 16	100	32	M10 x 1,5
SK40-03-02-13-1	SK 40	2 – 13	428E ER 20	100	35	M12 x 1,75
SK40-03-02-16-1	SK 40	2 – 16	430E ER 25	100	42	M16 x 2,0
SK40-03-02-20-1	SK 40	2 – 20	470E ER 32	100	50	M16 x 2,0
SK40-03-02-26-1	SK 40	3 – 26	472E ER 40	100	63	M16 x 2,0
SK40-03-02-10-130	SK 40	1 – 10	426E ER 16	130	32	M10 x 1,5
SK40-03-02-13-130	SK 40	2 – 13	428E ER 20	130	35	M12 x 1,75
SK40-03-02-16-130	SK 40	2 – 16	430E ER 25	130	42	M16 x 2,0
SK40-03-02-20-130	SK 40	2 – 20	470E ER 32	130	50	M16 x 2,0
SK40-03-02-26-130	SK 40	3 – 26	472E ER 40	130	63	M16 x 2,0
SK40-03-02-10-2	SK 40	1 – 10	426E ER 16	160	32	M10 x 1,5
SK40-03-02-13-2	SK 40	2 – 13	428E ER 20	160	35	M12 x 1,75
SK40-03-02-16-2	SK 40	2 – 16	430E ER 25	160	42	M16 x 2,0
SK40-03-02-20-2	SK 40	2 – 20	470E ER 32	160	50	M16 x 2,0
SK40-03-02-26-2	SK 40	3 – 26	472E ER 40	160	63	M16 x 2,0
SK40-03-02-10-3	SK 40	1 – 10	426E ER 16	200	32	M10 x 1,5
SK40-03-02-13-3	SK 40	2 – 13	428E ER 20	200	35	M12 x 1,75
SK40-03-02-16-3	SK 40	2 – 16	430E ER 25	200	42	M16 x 2,0
SK40-03-02-20-3	SK 40	2 – 20	470E ER 32	200	50	M16 x 2,0
SK40-03-02-26-3	SK 40	3 – 26	472E ER 40	200	63	M16 x 2,0

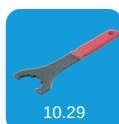
Delivery: With balanced clamping nut



9.03



10.10



10.29



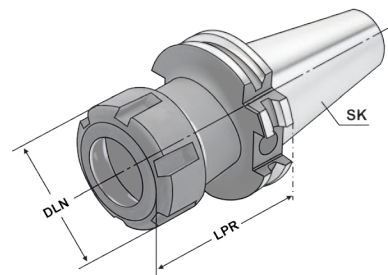
10.70



10.31



Application:
For mounting straight-shank tools in
collets.


ISO
7388-1

Form
AD/AF
(AD/B)

≤3µm

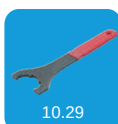
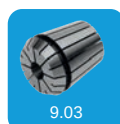
G2.5
25.000
min⁻¹
RFID
Chip

ISO
15488

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Ch. 11

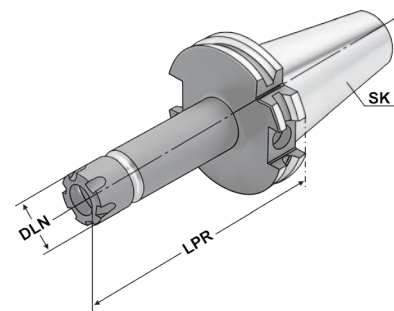
Order no.	SK	DCONWS Capacity	Typ	LPR	DLN	THID
SK50-03-02-10	SK 50	1 – 10	426E ER 16	70	32	M10 x 1,5
SK50-03-02-13	SK 50	2 – 13	428E ER 20	70	35	M12 x 1,75
SK50-03-02-16	SK 50	2 – 16	430E ER 25	60	42	M16 x 2,0
SK50-03-02-20	SK 50	2 – 20	470E ER 32	70	50	M16 x 2,0
SK50-03-02-26	SK 50	3 – 26	472E ER 40	80	63	M16 x 2,0
SK50-03-02-10-1	SK 50	1 – 10	426E ER 16	100	32	M10 x 1,5
SK50-03-02-13-1	SK 50	2 – 13	428E ER 20	100	35	M12 x 1,75
SK50-03-02-16-1	SK 50	2 – 16	430E ER 25	100	42	M16 x 2,0
SK50-03-02-20-1	SK 50	2 – 20	470E ER 32	100	50	M16 x 2,0
SK50-03-02-26-1	SK 50	3 – 26	472E ER 40	100	63	M16 x 2,0
SK50-03-02-10-1.5	SK 50	1 – 10	426E ER 16	130	32	M10 x 1,5
SK50-03-02-13-1.5	SK 50	2 – 13	428E ER 20	130	35	M12 x 1,75
SK50-03-02-16-1.5	SK 50	2 – 16	430E ER 25	130	42	M16 x 2,0
SK50-03-02-20-1.5	SK 50	2 – 20	470E ER 32	130	50	M16 x 2,0
SK50-03-02-26-1.5	SK 50	3 – 26	472E ER 40	130	63	M16 x 2,0
SK50-03-02-10-2	SK 50	1 – 10	426E ER 16	160	32	M10 x 1,5
SK50-03-02-13-2	SK 50	2 – 13	428E ER 20	160	35	M12 x 1,75
SK50-03-02-16-2	SK 50	2 – 16	430E ER 25	160	42	M16 x 2,0
SK50-03-02-20-2	SK 50	2 – 20	470E ER 32	160	50	M16 x 2,0
SK50-03-02-26-2	SK 50	3 – 26	472E ER 40	160	63	M16 x 2,0
SK50-03-02-10-3	SK 50	1 – 10	426E ER 16	200	32	M10 x 1,5
SK50-03-02-13-3	SK 50	2 – 13	428E ER 20	200	35	M12 x 1,75
SK50-03-02-16-3	SK 50	2 – 16	430E ER 25	200	42	M16 x 2,0
SK50-03-02-20-3	SK 50	2 – 20	470E ER 32	200	50	M16 x 2,0
SK50-03-02-26-3	SK 50	3 – 26	472E ER 40	200	63	M16 x 2,0

Delivery: With balanced clamping nut



1


Application:
For mounting straight-shank tools in
collets.



ISO 7388-1

Form
AD/AF
(AD/B)

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

G2.5
25.000
min⁻¹

RFID
Chip

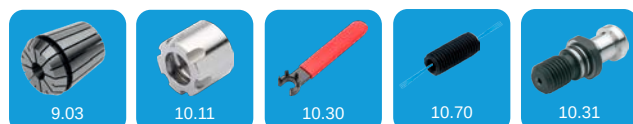
ISO 15488

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Ch. 11

Order no.	SK	DCONWS Capacity	Typ	LPR	DLN	THID
SK30-02-02-07*	SK 30	1 – 7	4008E ER 11	70	16	M8 x 1,25
SK30-02-02-07-1*	SK 30	1 – 7	4008E ER 11	100	16	M8 x 1,25
SK30-02-02-07-10*	SK 30	1 – 10	426E ER 16	70	22	7/16" 20 UNF
SK30-02-02-07-10-1*	SK 30	1 – 10	426E ER 16	100	22	7/16" 20 UNF
SK40-03-02-07	SK 40	1 – 7	4008E ER 11	55	16	M8 x 1,25
SK40-03-02-07-1	SK 40	1 – 7	4008E ER 11	100	16	M8 x 1,25
SK40-03-02-07-2	SK 40	1 – 7	4008E ER 11	160	16	M8 x 1,25
SK40-03-02-07-10	SK 40	1 – 10	426E ER 16	55	22	7/16" 20 UNF
SK40-03-02-07-10-1	SK 40	1 – 10	426E ER 16	100	22	7/16" 20 UNF
SK40-03-02-07-10-2	SK 40	1 – 10	426E ER 16	160	22	7/16" 20 UNF
SK40-03-02-07-13	SK 40	2 – 13	428E ER 20	70	28	9/16" 18 UNF
SK40-03-02-07-13-1	SK 40	2 – 13	428E ER 20	100	28	9/16" 18 UNF
SK40-03-02-07-13-2	SK 40	2 – 13	428E ER 20	160	28	9/16" 18 UNF
SK40-03-02-07-16	SK 40	2 – 16	430E ER 25	70	35	11/16" 16 UN
SK40-03-02-07-16-1	SK 40	2 – 16	430E ER 25	100	35	11/16" 16 UN
SK40-03-02-07-16-2	SK 40	2 – 16	430E ER 25	160	35	11/16" 16 UN
SK50-03-02-07-10-1	SK 50	1 – 10	426E ER 16	100	22	7/16" 20 UNF
SK50-03-02-07-10-2	SK 50	1 – 10	426E ER 16	160	22	7/16" 20 UNF

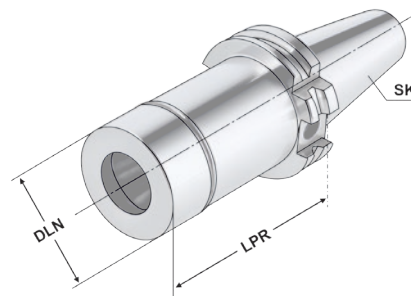
Form AD

Delivery: With balanced clamping nut and adjusting screw





Application:
For mounting straight-shank tools in
3 µm-collets.



ISO 7388-1

Form AD



RFID Chip

ISO 15488



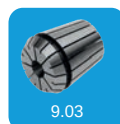
Order no.	SK	DCONWS Capacity	Typ	LPR	LB	DLN	THID
SK40-02-P2-20-070	SK 40	2 – 20	470E ER 32	70	50,1	50	M16 x 2,0
SK40-02-P2-20-100	SK 40	2 – 20	470E ER 32	100	80,1	50	M16 x 2,0
SK40-02-P2-20-125	SK 40	2 – 20	470E ER 32	125	105,1	50	M16 x 2,0
SK40-02-P2-20-150	SK 40	2 – 20	470E ER 32	150	130,1	50	M16 x 2,0
SK40-02-P2-20-200	SK 40	2 – 20	470E ER 32	200	180,1	50	M16 x 2,0
SK50-02-P2-20	SK 50	2 – 20	470E ER 32	70	50,1	50	M16 x 2,0
SK50-02-P2-20	SK 50	2 – 20	470E ER 32	100	80,1	50	M16 x 2,0
SK50-02-P2-20	SK 50	2 – 20	470E ER 32	125	105,1	50	M16 x 2,0
SK50-02-P2-20	SK 50	2 – 20	470E ER 32	150	130,1	50	M16 x 2,0
SK50-02-P2-20	SK 50	2 – 20	470E ER 32	200	180,1	50	M16 x 2,0

Advantages:

- Excellent concentricity in the system (chuck + collet + clamping nut)
- Extremely strong holding force (increases the holding power by at least 60% compared to standard ER chuck)
- Plain clamping nut without grooves for high speed machining

Note: Only nominal size DCONWS can be clamped.

Delivery: With precision clamping nut



9.03



10.12



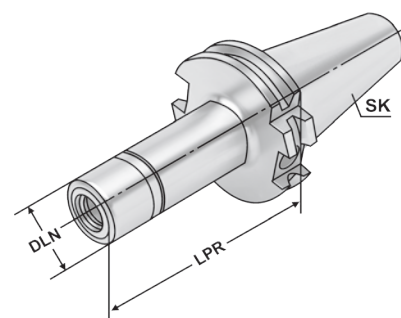
10.30



10.31

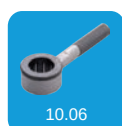
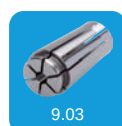
1


Application:
For mounting straight-shank tools in collets.
To use for high speed cutting and high precision milling.



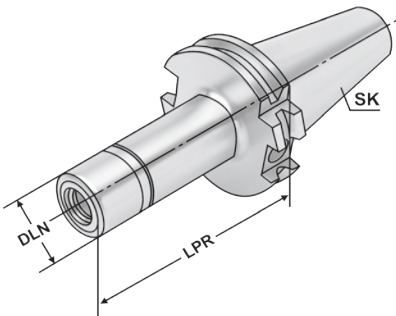
Order no.	SK	DCONWS Capacity	Typ	LPR	DLN	THID
SK30-02-03-10	SK 30	1 – 10	490EK KPS 10	60	27,5	M12 x 1,75
SK30-02-03-16	SK 30	4 – 16	496EK KPS 16	60	40	M18 x 1,50
SK30-02-03-10-1	SK 30	1 – 10	490EK KPS 10	90	27,5	M12 x 1,75
SK30-02-03-16-1	SK 30	4 – 16	496EK KPS 16	90	40	M18 x 1,50
SK40-02-03-10	SK 40	1 – 10	490EK KPS 10	60	27,5	M12 x 1,75
SK40-02-03-16	SK 40	4 – 16	496EK KPS 16	60	40	M18 x 1,50
SK40-02-03-10-1	SK 40	1 – 10	490EK KPS 10	90	27,5	M12 x 1,75
SK40-02-03-16-1	SK 40	4 – 16	496EK KPS 16	90	40	M18 x 1,50
SK40-02-03-10-2	SK 40	1 – 10	490EK KPS 10	120	27,5	M12 x 1,75
SK40-02-03-16-2	SK 40	4 – 16	496EK KPS 16	120	40	M18 x 1,50
SK40-02-03-10-3	SK 40	1 – 10	490EK KPS 10	160	27,5	M12 x 1,75
SK40-02-03-16-3	SK 40	4 – 16	496EK KPS 16	160	40	M18 x 1,50

Delivery: With balanced clamping nut





Application:
For mounting straight-shank tools in collets.
To use for high speed cutting and high precision milling.



ISO 7388-1

Form AD/AF (AD/B)

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

$G2.5$
 30.000 min^{-1}

RFID Chip

KPS

Ch. 11

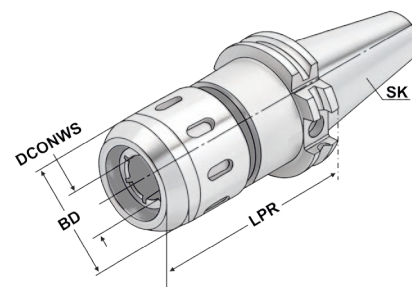
Order no.	SK	DCONWS Capacity	Typ	LPR	DLN	THID
SK50-02-03-10	SK 50	1 – 10	490EK KPS 10	105	27,5	M12 x 1,75
SK50-02-03-16	SK 50	4 – 16	496EK KPS 16	105	40	M18 x 1,50
SK50-02-03-10-1	SK 50	1 – 10	490EK KPS 10	135	27,5	M12 x 1,75
SK50-02-03-16-1	SK 50	4 – 16	496EK KPS 16	135	40	M18 x 1,50
SK50-02-03-10-2	SK 50	1 – 10	490EK KPS 10	165	27,5	M12 x 1,75
SK50-02-03-16-2	SK 50	4 – 16	496EK KPS 16	165	40	M18 x 1,50

Delivery: With balanced clamping nut



1


Application:
For mounting straight-shank tools acc.
DIN 1835 form A+B+E and DIN 6535 form
HB+HE.


ISO
7388-1

Form
AD/AF
(AD/B)

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

G6.3
15.000
min⁻¹

RFID
Chip

HKS

i
Ch. 11

Order no.	SK	DCONWS Capacity	Typ	DCONWS	LPR	BD
SK40-03-64-20	SK 40	3 – 20	HKS 20	20	90	53
SK40-03-64-25	SK 40	3 – 25	HKS 25	25	105	63
SK40-03-64-32	SK 40	3 – 32	HKS 32	32	105	68
SK50-03-64-20	SK 50	3 – 20	HKS 20	20	90	53
SK50-03-64-25	SK 50	3 – 25	HKS 25	25	90	63
SK50-03-64-32	SK 50	3 – 32	HKS 32	32	90	68

Size	20mm	25mm	32mm
Clamping torque	50-70 Nm	80-100 Nm	80-100 Nm
Clamping force	780 Nm	2000 Nm	2000 Nm



9.101



9.102



10.07



9.103



10.31

Collet chucks for collets ISO 15488 (DIN 6499) ER-system

– without drive slots

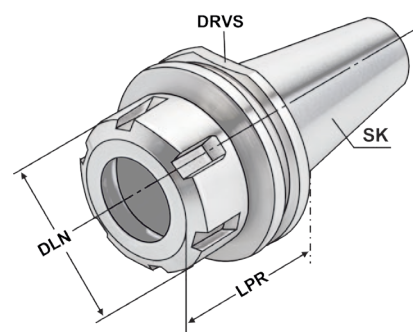
ISO 7388-1

[DIN 69871]

1



Application:
For mounting straight-shank tools for
woodworking in collets.



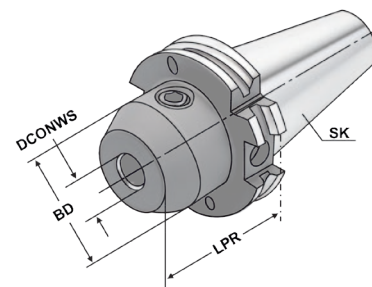
Order no.	SK	DCONWS Capacity	Typ	LPR	DLN	DRVS	THID
SK30-02-62-16	SK 30	2 – 16	430E ER 25	50	42	47	M16 x 2,0
SK30-02-62-20	SK 30	2 – 20	470E ER 32	50	50	47	M16 x 2,0
SK30-02-62-20-1	SK 30	2 – 20	470E ER 32	57	50	47	M16 x 2,0
SK30-02-62-20-2	SK 30	2 – 20	470E ER 32	63	50	47	M16 x 2,0
SK30-02-62-26	SK 30	3 – 26	472E ER 40	60	63	47	M16 x 2,0
SK40-02-62-16	SK 40	2 – 16	430E ER 25	50	42	60	M16 x 2,0
SK40-02-62-20	SK 40	2 – 20	470E ER 32	50	50	60	M16 x 2,0
SK40-02-62-26	SK 40	3 – 26	472E ER 40	63	63	60	M16 x 2,0

Delivery: With balanced clamping nut



1


Application:
For mounting straight-shank tools with
lateral flat according to DIN 1835 form B
(Weldon).



ISO 7388-1

Form AD



RFID Chip

DIN 1835-B

H4



Order no.	SK	DCONWS	TDCON	LPR	BD
SK30-02-04-06	SK 30	6	H4	50	25
SK30-02-04-08	SK 30	8	H4	50	28
SK30-02-04-10	SK 30	10	H4	50	35
SK30-02-04-12	SK 30	12	H4	50	42
SK30-02-04-14	SK 30	14	H4	63	44
SK30-02-04-16	SK 30	16	H4	63	48
SK30-02-04-18	SK 30	18	H4	63	50
SK30-02-04-20	SK 30	20	H4	70	52
SK40-02-04-06	SK 40	6	H4	50	25
SK40-02-04-08	SK 40	8	H4	50	28
SK40-02-04-10	SK 40	10	H4	50	35
SK40-02-04-12	SK 40	12	H4	50	42
SK40-02-04-14	SK 40	14	H4	50	44
SK40-02-04-16	SK 40	16	H4	63	48
SK40-02-04-18	SK 40	18	H4	63	50
SK40-02-04-20	SK 40	20	H4	63	52
SK40-02-04-25	SK 40	25	H4	100	65
SK40-02-04-32	SK 40	32	H4	100	72
SK40-02-04-06-1	SK 40	6	H4	100	25
SK40-02-04-08-1	SK 40	8	H4	100	28
SK40-02-04-10-1	SK 40	10	H4	100	35
SK40-02-04-12-1	SK 40	12	H4	100	42
SK40-02-04-14-1	SK 40	14	H4	100	44
SK40-02-04-16-1	SK 40	16	H4	100	48
SK40-02-04-18-1	SK 40	18	H4	100	50
SK40-02-04-20-1	SK 40	20	H4	100	52

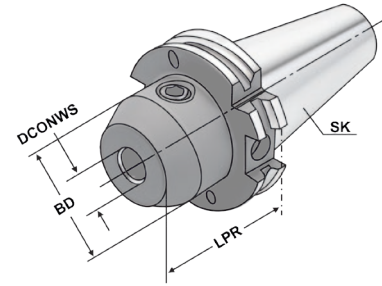
Note: From DCONWS = 25 on two clamping screws

Delivery: With clamping screw





Application:
For mounting straight-shank tools with
lateral flat according to DIN 1835 form B
(Weldon).


ISO
7388-1

Form
AD/AF
(AD/B)

≤3µm

G2.5
25.000
min⁻¹
RFID
Chip

DIN
1835-B

H4

Ch. 11

Order no.	SK	DCONWS	TDCON	LPR	BD
SK40-03-04-16-0	SK 40	16	H4	35	45
SK40-03-04-20-0	SK 40	20	H4	35	45
SK40-03-04-25-0	SK 40	25	H4	35	45
SK40-03-04-32-0	SK 40	32	H4	65	50
SK40-03-04-06	SK 40	6	H4	50	25
SK40-03-04-08	SK 40	8	H4	50	28
SK40-03-04-10	SK 40	10	H4	50	35
SK40-03-04-12	SK 40	12	H4	50	42
SK40-03-04-14	SK 40	14	H4	50	44
SK40-03-04-16	SK 40	16	H4	63	48
SK40-03-04-18	SK 40	18	H4	63	50
SK40-03-04-20	SK 40	20	H4	63	52
SK40-03-04-25	SK 40	25	H4	100	65
SK40-03-04-32	SK 40	32	H4	100	72
SK40-03-04-40	SK 40	40	H4	120	80
SK40-03-04-06-1	SK 40	6	H4	100	25
SK40-03-04-08-1	SK 40	8	H4	100	28
SK40-03-04-10-1	SK 40	10	H4	100	35
SK40-03-04-12-1	SK 40	12	H4	100	42
SK40-03-04-14-1	SK 40	14	H4	100	44
SK40-03-04-16-1	SK 40	16	H4	100	48
SK40-03-04-18-1	SK 40	18	H4	100	50
SK40-03-04-20-1	SK 40	20	H4	100	52

Note: From DCONWS = 25 on two clamping screws

Delivery: With clamping screw



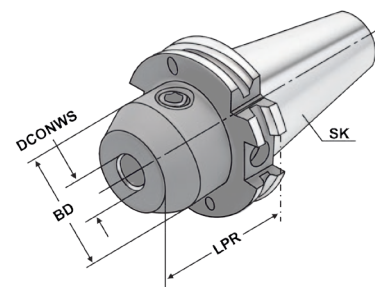
End mill holders DIN 6359 for end mills DIN 1835-B

[DIN 69871]

1



Application:
For mounting straight-shank tools with
lateral flat according to DIN 1835 form B
(Weldon).


ISO
7388-1

Form
AD/AF
(AD/B)

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

G2.5
25.000
min⁻¹

RFID
Chip

DIN
1835-B

H4

i
Ch. 11

Order no.	SK	DCONWS	TDCON	LPR	BD
SK40-03-04-06-130	SK 40	6	H4	130	25
SK40-03-04-08-130	SK 40	8	H4	130	28
SK40-03-04-10-130	SK 40	10	H4	130	35
SK40-03-04-12-130	SK 40	12	H4	130	42
SK40-03-04-14-130	SK 40	14	H4	130	44
SK40-03-04-16-130	SK 40	16	H4	130	48
SK40-03-04-18-130	SK 40	18	H4	130	50
SK40-03-04-20-130	SK 40	20	H4	130	52
SK40-03-04-06-2	SK 40	6	H4	160	25
SK40-03-04-08-2	SK 40	8	H4	160	28
SK40-03-04-10-2	SK 40	10	H4	160	35
SK40-03-04-12-2	SK 40	12	H4	160	42
SK40-03-04-14-2	SK 40	14	H4	160	44
SK40-03-04-16-2	SK 40	16	H4	160	48
SK40-03-04-18-2	SK 40	18	H4	160	50
SK40-03-04-20-2	SK 40	20	H4	160	52
SK40-03-04-25-2	SK 40	25	H4	160	65
SK40-03-04-32-2	SK 40	32	H4	160	72
SK40-03-04-40-2	SK 40	40	H4	160	80



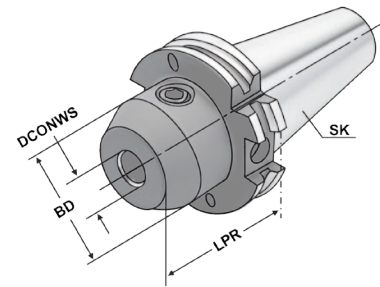
10.69



10.31



Application:
For mounting straight-shank tools with
lateral flat according to DIN 1835 form B
(Weldon).



ISO 7388-1

Form
AD/AF
(AD/B)

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

G2.5
25.000
min⁻¹

RFID
Chip

DIN
1835-B

H4

i
Ch. 11

Order no.	SK	DCONWS	TDCON	LPR	BD
SK50-03-04-06	SK 50	6	H4	63	25
SK50-03-04-08	SK 50	8	H4	63	28
SK50-03-04-10	SK 50	10	H4	63	35
SK50-03-04-12	SK 50	12	H4	63	42
SK50-03-04-14	SK 50	14	H4	63	44
SK50-03-04-16	SK 50	16	H4	63	48
SK50-03-04-18	SK 50	18	H4	63	50
SK50-03-04-20	SK 50	20	H4	63	52
SK50-03-04-25	SK 50	25	H4	80	65
SK50-03-04-32	SK 50	32	H4	100	72
SK50-03-04-40	SK 50	40	H4	100	80
SK50-03-04-50	SK 50	50	H4	120	99
SK50-03-04-06-1	SK 50	6	H4	100	25
SK50-03-04-08-1	SK 50	8	H4	100	28
SK50-03-04-10-1	SK 50	10	H4	100	35
SK50-03-04-12-1	SK 50	12	H4	100	42
SK50-03-04-14-1	SK 50	14	H4	100	44
SK50-03-04-16-1	SK 50	16	H4	100	48
SK50-03-04-18-1	SK 50	18	H4	100	50
SK50-03-04-20-1	SK 50	20	H4	100	52
SK50-03-04-25-1	SK 50	25	H4	120	65
SK50-03-04-06-1.5	SK 50	6	H4	130	25
SK50-03-04-08-1.5	SK 50	8	H4	130	28
SK50-03-04-10-1.5	SK 50	10	H4	130	35
SK50-03-04-12-1.5	SK 50	12	H4	130	42
SK50-03-04-14-1.5	SK 50	14	H4	130	44
SK50-03-04-16-1.5	SK 50	16	H4	130	48
SK50-03-04-18-1.5	SK 50	18	H4	130	50
SK50-03-04-20-1.5	SK 50	20	H4	130	52



10.69

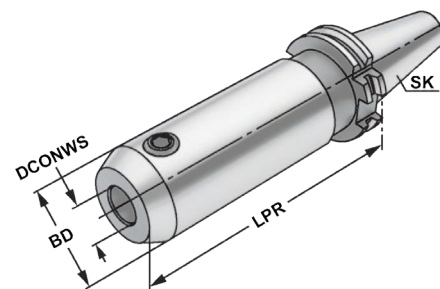


10.31

1



Application:
For mounting straight-shank tools with
lateral flat according to DIN 1835 form B
(Weldon).


ISO
7388-1

Form
AD/AF
(AD/B)

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

G2.5
25.000
min⁻¹

RFID
Chip

DIN
1835-B

H4

i
Ch. 11

Order no.	SK	DCONWS	TDCON	LPR	BD
SK50-03-04-06-2	SK 50	6	H4	160	25
SK50-03-04-08-2	SK 50	8	H4	160	28
SK50-03-04-10-2	SK 50	10	H4	160	35
SK50-03-04-12-2	SK 50	12	H4	160	42
SK50-03-04-14-2	SK 50	14	H4	160	44
SK50-03-04-16-2	SK 50	16	H4	160	48
SK50-03-04-18-2	SK 50	18	H4	160	50
SK50-03-04-20-2	SK 50	20	H4	160	52
SK50-03-04-25-2	SK 50	25	H4	160	65
SK50-03-04-32-2	SK 50	32	H4	160	72
SK50-03-04-40-2	SK 50	40	H4	160	80
SK50-03-04-06-3	SK 50	6	H4	200	25
SK50-03-04-08-3	SK 50	8	H4	200	28
SK50-03-04-10-3	SK 50	10	H4	200	35
SK50-03-04-12-3	SK 50	12	H4	200	42
SK50-03-04-14-3	SK 50	14	H4	200	44
SK50-03-04-16-3	SK 50	16	H4	200	48
SK50-03-04-18-3	SK 50	18	H4	200	50
SK50-03-04-20-3	SK 50	20	H4	200	52
SK50-03-04-25-3	SK 50	25	H4	200	65
SK50-03-04-32-3	SK 50	32	H4	200	72
SK50-03-04-40-3	SK 50	40	H4	200	80

Note: From DCONWS = 25 on two clamping screws

Delivery: With clamping screw



End mill holders DIN 6359 with coolant channels

- for end mills DIN 1835-B

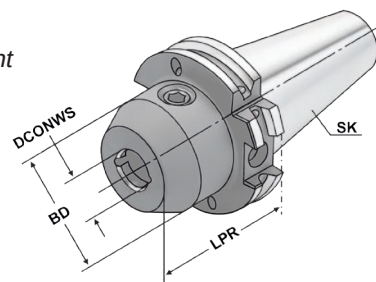
ISO 7388-1

[DIN 69871]

1



Application:
For mounting straight-shank tools with lateral flat according to DIN 1835 form B (Weldon). With coolant channels for optimal coolant at the cutting edge.



Order no.	SK	DCONWS	TDCON	LPR	BD
SK40-03-04-06-CC	SK 40	6	H4	50	25
SK40-03-04-08-CC	SK 40	8	H4	50	28
SK40-03-04-10-CC	SK 40	10	H4	50	35
SK40-03-04-12-CC	SK 40	12	H4	50	42
SK40-03-04-14-CC	SK 40	14	H4	50	44
SK40-03-04-16-CC	SK 40	16	H4	63	48
SK40-03-04-18-CC	SK 40	18	H4	63	50
SK40-03-04-20-CC	SK 40	20	H4	63	52
SK40-03-04-25-CC	SK 40	25	H4	100	65
SK40-03-04-32-CC	SK 40	32	H4	100	72
SK40-03-04-40-CC	SK 40	40	H4	120	80
SK40-03-04-06-1-CC	SK 40	6	H4	100	25
SK40-03-04-08-1-CC	SK 40	8	H4	100	28
SK40-03-04-10-1-CC	SK 40	10	H4	100	35
SK40-03-04-12-1-CC	SK 40	12	H4	100	42
SK40-03-04-14-1-CC	SK 40	14	H4	100	44
SK40-03-04-16-1-CC	SK 40	16	H4	100	48
SK40-03-04-18-1-CC	SK 40	18	H4	100	50
SK40-03-04-20-1-CC	SK 40	20	H4	100	52

Note:
From DCONWS = 25 on two clamping screws
DCONWS = 6 to 18 with two coolant channels
DCONWS = 20 to 40 with four coolant channels
For tools with through coolant an O-ring must be used.

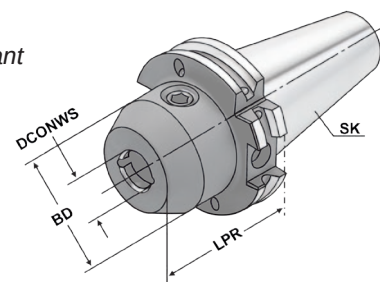
Delivery: With clamping screw and O-ring



1

Application:

For mounting straight-shank tools with lateral flat according to DIN 1835 form B (Weldon). With coolant channels for optimal coolant at the cutting edge.



Order no.	SK	DCONWS	TDCON	LPR	BD
SK40-03-04-06-130-CC	SK 40	6	H4	130	25
SK40-03-04-08-130-CC	SK 40	8	H4	130	28
SK40-03-04-10-130-CC	SK 40	10	H4	130	35
SK40-03-04-12-130-CC	SK 40	12	H4	130	42
SK40-03-04-14-130-CC	SK 40	14	H4	130	44
SK40-03-04-16-130-CC	SK 40	16	H4	130	48
SK40-03-04-18-130-CC	SK 40	18	H4	130	50
SK40-03-04-20-130-CC	SK 40	20	H4	130	52
SK40-03-04-06-2-CC	SK 40	6	H4	160	25
SK40-03-04-08-2-CC	SK 40	8	H4	160	28
SK40-03-04-10-2-CC	SK 40	10	H4	160	35
SK40-03-04-12-2-CC	SK 40	12	H4	160	42
SK40-03-04-14-2-CC	SK 40	14	H4	160	44
SK40-03-04-16-2-CC	SK 40	16	H4	160	48
SK40-03-04-18-2-CC	SK 40	18	H4	160	50
SK40-03-04-20-2-CC	SK 40	20	H4	160	52

Note:

From DCONWS = 25 on two clamping screws
 DCONWS = 6 to 18 with two coolant channels
 DCONWS = 20 to 40 with four coolant channels
 For tools with through coolant an O-ring must be used.

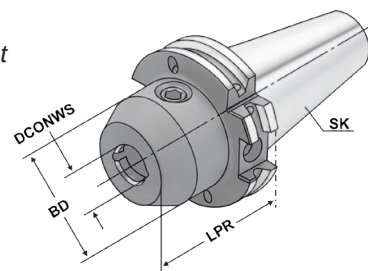
Delivery:

With clamping screw and O-ring





Application:
For mounting straight-shank tools with lateral flat according to DIN 1835 form B (Weldon). With coolant channels for optimal coolant at the cutting edge.



Order no.	SK	DCONWS	TDCON	LPR	BD
SK50-03-04-06-CC	SK 50	6	H4	63	25
SK50-03-04-08-CC	SK 50	8	H4	63	28
SK50-03-04-10-CC	SK 50	10	H4	63	35
SK50-03-04-12-CC	SK 50	12	H4	63	42
SK50-03-04-14-CC	SK 50	14	H4	63	44
SK50-03-04-16-CC	SK 50	16	H4	63	48
SK50-03-04-18-CC	SK 50	18	H4	63	50
SK50-03-04-20-CC	SK 50	20	H4	63	52
SK50-03-04-25-CC	SK 50	25	H4	80	65
SK50-03-04-32-CC	SK 50	32	H4	100	72
SK50-03-04-40-CC	SK 50	40	H4	100	80
SK50-03-04-06-1-CC	SK 50	6	H4	100	25
SK50-03-04-08-1-CC	SK 50	8	H4	100	28
SK50-03-04-10-1-CC	SK 50	10	H4	100	35
SK50-03-04-12-1-CC	SK 50	12	H4	100	42
SK50-03-04-14-1-CC	SK 50	14	H4	100	44
SK50-03-04-16-1-CC	SK 50	16	H4	100	48
SK50-03-04-18-1-CC	SK 50	18	H4	100	50
SK50-03-04-20-1-CC	SK 50	20	H4	100	52

Note:
From DCONWS = 25 on two clamping screws
DCONWS = 6 to 18 with two coolant channels
DCONWS = 20 to 40 with four coolant channels
For tools with through coolant an O-ring must be used.

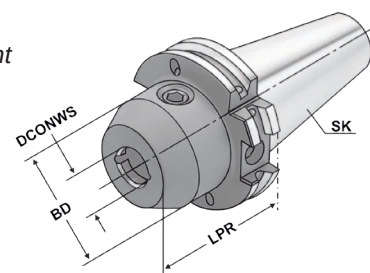
Delivery: With clamping screw and O-ring



1

Application:

For mounting straight-shank tools with lateral flat according to DIN 1835 form B (Weldon). With coolant channels for optimal coolant at the cutting edge.



Order no.	SK	DCONWS	TDCON	LPR	BD
SK50-03-04-06-1.5-CC	SK 50	6	H4	130	25
SK50-03-04-08-1.5-CC	SK 50	8	H4	130	28
SK50-03-04-10-1.5-CC	SK 50	10	H4	130	35
SK50-03-04-12-1.5-CC	SK 50	12	H4	130	42
SK50-03-04-14-1.5-CC	SK 50	14	H4	130	44
SK50-03-04-16-1.5-CC	SK 50	16	H4	130	48
SK50-03-04-18-1.5-CC	SK 50	18	H4	130	50
SK50-03-04-20-1.5-CC	SK 50	20	H4	130	52
SK50-03-04-25-1.5-CC	SK 50	25	H4	130	65
SK50-03-04-32-1.5-CC	SK 50	32	H4	130	72
SK50-03-04-40-1.5-CC	SK 50	40	H4	130	80
SK50-03-04-06-2-CC	SK 50	6	H4	160	25
SK50-03-04-08-2-CC	SK 50	8	H4	160	28
SK50-03-04-10-2-CC	SK 50	10	H4	160	35
SK50-03-04-12-2-CC	SK 50	12	H4	160	42
SK50-03-04-14-2-CC	SK 50	14	H4	160	44
SK50-03-04-16-2-CC	SK 50	16	H4	160	48
SK50-03-04-18-2-CC	SK 50	18	H4	160	50
SK50-03-04-20-2-CC	SK 50	20	H4	160	52
SK50-03-04-25-2-CC	SK 50	25	H4	160	65
SK50-03-04-32-2-CC	SK 50	32	H4	160	72
SK50-03-04-40-2-CC	SK 50	40	H4	160	80

Note:

From DCONWS = 25 on two clamping screws
 DCONWS = 6 to 18 with two coolant channels
 DCONWS = 20 to 40 with four coolant channels
 For tools with through coolant an O-ring must be used.

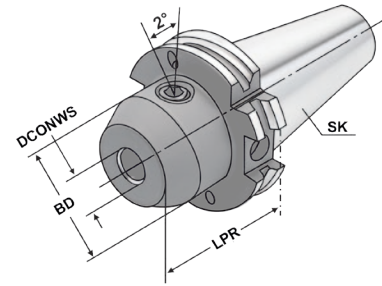
Delivery:

With clamping screw and O-ring





Application:
For mounting straight-shank tools and inclined flat according to DIN 1835 form E (Whistle Notch).


ISO
7388-1

Form
AD/AF
(AD/B)

≤3µm

G2.5
25.000
min⁻¹
RFID
Chip

DIN
1835-E

H4

Ch. 11

Order no.	SK	DCONWS	TDCON	LPR	BD
SK40-03-05-06	SK 40	6	H4	50	25
SK40-03-05-08	SK 40	8	H4	50	28
SK40-03-05-10	SK 40	10	H4	50	35
SK40-03-05-12	SK 40	12	H4	50	42
SK40-03-05-14	SK 40	14	H4	50	44
SK40-03-05-16	SK 40	16	H4	63	48
SK40-03-05-18	SK 40	18	H4	63	50
SK40-03-05-20	SK 40	20	H4	63	52
SK40-03-05-25	SK 40	25	H4	100	65
SK40-03-05-32	SK 40	32	H4	100	72
SK40-03-05-40	SK 40	40	H4	120	80
SK50-03-05-06	SK 50	6	H4	63	25
SK50-03-05-08	SK 50	8	H4	63	28
SK50-03-05-10	SK 50	10	H4	63	35
SK50-03-05-12	SK 50	12	H4	63	42
SK50-03-05-14	SK 50	14	H4	63	44
SK50-03-05-16	SK 50	16	H4	63	48
SK50-03-05-18	SK 50	18	H4	63	50
SK50-03-05-20	SK 50	20	H4	63	52
SK50-03-05-25	SK 50	25	H4	80	65
SK50-03-05-32	SK 50	32	H4	100	72
SK50-03-05-40	SK 50	40	H4	100	80

Note: From DCONWS = 25 on two clamping screws

Delivery: With clamping screw and axial adjustment bolt



10.69



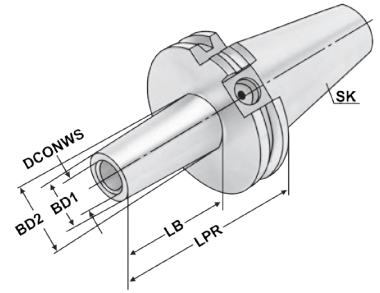
10.31



10.70

1


Application:
For mounting screw-in cutters with thread.



ISO 7388-1

Form
AD/AF
(AD/B)

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

G2.5
25.000
min⁻¹

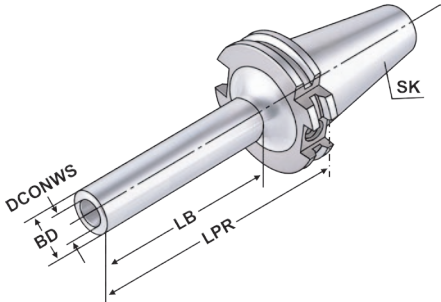
RFID
Chip

H7

Order no.	SK	THSZWS	DCONWS	BD1	BD2	LPR	LB
SK40-03-06-06	SK 40	M6	6,5	10	13	44	25
SK40-03-06-06-1	SK 40	M6	6,5	10	13	69	50
SK40-03-06-06-2	SK 40	M6	6,5	10	13	94	75
SK40-03-06-08	SK 40	M8	8,5	13	15	44	25
SK40-03-06-08-1	SK 40	M8	8,5	13	23	69	50
SK40-03-06-08-2	SK 40	M8	8,5	13	23	94	75
SK40-03-06-08-3	SK 40	M8	8,5	13	25	119	100
SK40-03-06-10-0	SK 40	M10	10,5	18	18	24	5
SK40-03-06-10	SK 40	M10	10,5	18	20	44	25
SK40-03-06-10-1	SK 40	M10	10,5	18	23	69	50
SK40-03-06-10-2	SK 40	M10	10,5	18	28	94	75
SK40-03-06-10-3	SK 40	M10	10,5	18	32	119	100
SK40-03-06-10-5	SK 40	M10	10,5	18	37	169	150
SK40-03-06-12-0	SK 40	M12	12,5	21	21	24	5
SK40-03-06-12	SK 40	M12	12,5	21	24	44	25
SK40-03-06-12-1	SK 40	M12	12,5	21	24	69	50
SK40-03-06-12-2	SK 40	M12	12,5	21	31	94	75
SK40-03-06-12-3	SK 40	M12	12,5	21	33	119	100
SK40-03-06-12-5	SK 40	M12	12,5	21	40	169	150
SK40-03-06-16-0	SK 40	M16	17	29	29	24	5
SK40-03-06-16	SK 40	M16	17	29	29	44	25
SK40-03-06-16-1	SK 40	M16	17	29	34	69	50
SK40-03-06-16-2	SK 40	M16	17	29	34	94	75
SK40-03-06-16-3	SK 40	M16	17	29	36	119	100
SK40-03-06-16-5	SK 40	M16	17	29	43	169	150
SK50-03-06-08-1	SK 50	M8	8,5	13	23	69	50
SK50-03-06-08-3	SK 50	M8	8,5	13	25	119	100
SK50-03-06-08	SK 50	M8	8,5	13	30	169	150
SK50-03-06-10-1	SK 50	M10	10,5	18	23	69	50
SK50-03-06-10-3	SK 50	M10	10,5	18	32	119	100
SK50-03-06-10	SK 50	M10	10,5	18	37	169	150
SK50-03-06-12-1	SK 50	M12	12,5	21	24	69	50
SK50-03-06-12-3	SK 50	M12	12,5	21	33	119	100
SK50-03-06-12	SK 50	M12	12,5	21	40	169	150
SK50-03-06-16-1	SK 50	M16	17	29	34	69	50
SK50-03-06-16-3	SK 50	M16	17	29	36	119	100
SK50-03-06-16	SK 50	M16	17	29	43	169	150



Application:
For mounting screw-in cutters with thread.



ISO 7388-1

Form AD/AF (AD/B)

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

$G2.5$
 25.000 min^{-1}

RFID Chip

H7

Order no.	SK	THSZWS	DCONWS	BD	LPR	LB
SK40-03-06-10-119-S	SK 40	M10	10,5	18	119	100
SK40-03-06-10-169-S	SK 40	M10	10,5	18	169	150
SK40-03-06-12-119-S	SK 40	M12	12,5	21	119	100
SK40-03-06-12-144-S	SK 40	M12	12,5	21	144	125
SK40-03-06-12-169-S	SK 40	M12	12,5	21	169	150
SK40-03-06-16-119-S	SK 40	M16	17	29	119	100
SK40-03-06-16-144-S	SK 40	M16	17	29	144	125
SK40-03-06-16-169-S	SK 40	M16	17	29	169	150

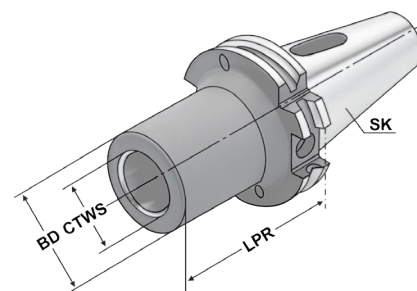
Recommended tightening torques

M6	10 Nm
M8	25 Nm
M10	40 Nm
M12	60 Nm
M16	50 Nm



1


Application:
For mounting tools with Morse taper shank
and tang according to DIN 228-1 form B.



ISO 7388-1

Form
AD/AF
(AD/B)

 $\leq 5\mu\text{m}$

G6.3
15.000
min⁻¹

RFID
Chip

DIN
6383

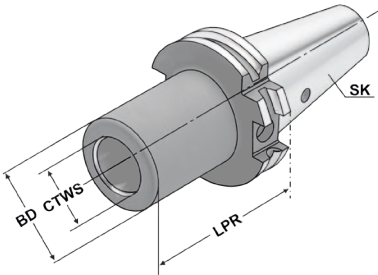
AT5

Order no.	SK	CTWS	TDCON	LPR	BD
SK30-02-07-01*	SK 30	1	AT5	50	25
SK30-02-07-02*	SK 30	2	AT5	60	32
SK30-02-07-03*	SK 30	3	AT5	80	40
SK40-02-07-01*	SK 40	1	AT5	50	25
SK40-02-07-02*	SK 40	2	AT5	50	32
SK40-02-07-03*	SK 40	3	AT5	70	40
SK40-02-07-04*	SK 40	4	AT5	95	48
SK40-03-07-01	SK 40	1	AT5	50	25
SK40-03-07-02	SK 40	2	AT5	50	32
SK40-03-07-03	SK 40	3	AT5	70	40
SK40-03-07-04	SK 40	4	AT5	95	48
SK40-02-07-02-1*	SK 40	2	AT5	117	32
SK40-02-07-03-1*	SK 40	3	AT5	133	40
SK40-02-07-04-1*	SK 40	4	AT5	156	48
SK50-03-07-01	SK 50	1	AT5	45	25
SK50-03-07-02	SK 50	2	AT5	60	32
SK50-03-07-03	SK 50	3	AT5	65	40
SK50-03-07-04	SK 50	4	AT5	95	48
SK50-03-07-05	SK 50	5	AT5	105	63
SK50-02-07-02-1*	SK 50	2	AT5	117	32
SK50-02-07-03-1*	SK 50	3	AT5	137	40
SK50-02-07-04-1*	SK 50	4	AT5	167	48
SK50-02-07-05-1*	SK 50	5	AT5	197	63

Form AD




Application:
For clamping tools with Morse taper shank
and thread according to DIN 228-1 form A.



ISO 7388-1

Form A

$\leq 5\mu\text{m}$

G6.3
15.000
min⁻¹

RFID Chip

DIN 6364

AT5

Order no.	SK	CTWS	THID	LPR	BD
SK40-02-08-01	SK 40	1	M6	50	25
SK40-02-08-02	SK 40	2	M10	50	32
SK40-02-08-03	SK 40	3	M12	70	40
SK40-02-08-04	SK 40	4	M16	95	48
SK40-02-08-04A*	SK 40	4	M16	110	63
SK50-02-08-01	SK 50	1	M6	45	25
SK50-02-08-02	SK 50	2	M10	60	32
SK50-02-08-03	SK 50	3	M12	65	40
SK50-02-08-04	SK 50	4	M16	70	48
SK50-02-08-04A*	SK 50	4	M16	85	63
SK50-02-08-05	SK 50	5	M20	100	63
SK50-02-08-05A*	SK 50	5	M20	118	78

* With drive flats according to DIN 2201

Delivery: With built-in tightening bolt



Adaptor sleeves for adaption from ISO to PSC (ISO 7388-1 to ISO 26623-1)

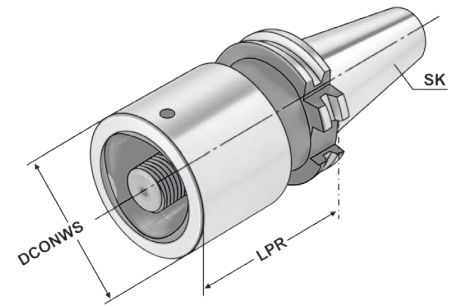
ISO 7388-1

[DIN 69871]

1



Application:
Adapter from ISO to PSK with axial tension.



ISO
7388-1

Form
AD



RFID
Chip

ISO
26623

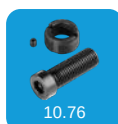
Order no.	SK	Typ	DCONWS	LPR	TQX	THID
SK40-02-09-C3	SK 40	PSK C3	32	30	45	M12x1,5
SK40-02-09-C4	SK 40	PSK C4	40	40	55	M14x1,5
SK40-02-09-C5	SK 40	PSK C5	50	50	95	M16x1,5
SK40-02-09-C6	SK 40	PSK C6	63	90	170	M20x2,0
SK50-09-C3-030	SK 50	PSK C3	32	30	45	M12x1,5
SK50-09-C4-030	SK 50	PSK C4	40	30	55	M14x1,5
SK50-09-C5-030	SK 50	PSK C5	50	30	95	M16x1,5
SK50-09-C6-030	SK 50	PSK C6	63	30	170	M20x2,0
SK50-09-C6-100	SK 50	PSK C6	63	100	170	M20x2,0

Version:

Adapters SK / PSK with axial clamping. Ground internally and externally. The internal thread provided for the coolant tube in the PSC toolholder is plugged with the socket-head screw incorporated in the adapter. The clamping screw incorporates a through hole, so the system is suitable for through-coolant feed.

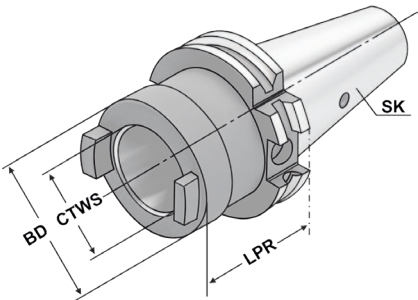
Suitable for tool arbor with polygonal shank (PSC) - ISO 26623-1.

Delivery: Clamping screw





Application:
For holding tapers according to ISO 7388-1 (DIN 69871), ISO 7388-2 (JIS B 6339) and DIN 2080.



ISO 7388-1

Form A

≤5µm

G6.3
15,000 min⁻¹

RFID Chip

AT5

Order no.	SK	CTWS	LPR	BD
SK40-02-09-30	SK 40	SK 30	50	50
SK40-02-09-40	SK 40	SK 40	100	63
SK50-02-09-40	SK 50	SK 40	70	70
SK50-02-09-50	SK 50	SK 50	120	97

Note: Delivered with a built-in screw for shortened taper tools.
Additional screw for DIN 2080 tools included.

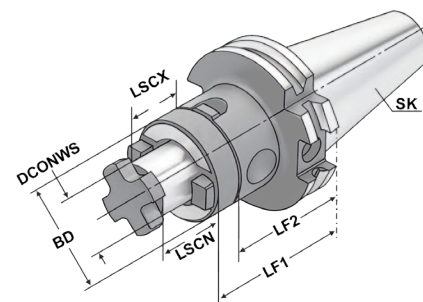
10.75

10.75

10.31

1


Application:
For mounting milling cutters with transverse or longitudinal groove.



ISO 7388-1

Form
AD/AF
(AD/B)

 $\leq 5\mu\text{m}$

G6.3
15.000
min⁻¹

RFID
Chip

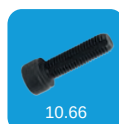
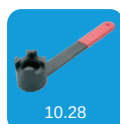
DIN
6358

h6

Order no.	SK	DCONWS	TDCON	LF1	LF2	LSCN	LSCX	BD
SK30-02-10-16*	SK 30	16	h6	50	40	17	27	32
SK30-02-10-22*	SK 30	22	h6	50	38	19	31	40
SK30-02-10-27*	SK 30	27	h6	55	43	21	33	48
SK30-02-10-32*	SK 30	32	h6	60	46	24	38	58
SK40-03-10-16	SK 40	16	h6	55	45	17	27	32
SK40-03-10-22	SK 40	22	h6	55	43	19	31	40
SK40-03-10-27	SK 40	27	h6	55	43	21	33	48
SK40-03-10-32	SK 40	32	h6	60	46	24	38	58
SK40-03-10-40	SK 40	40	h6	60	46	27	41	70
SK40-03-10-16-1	SK 40	16	h6	100	90	17	27	32
SK40-03-10-22-1	SK 40	22	h6	100	88	19	31	40
SK40-03-10-27-1	SK 40	27	h6	100	88	21	33	48
SK40-03-10-32-1	SK 40	32	h6	100	86	24	38	58
SK40-03-10-40-1	SK 40	40	h6	100	86	27	41	70
SK40-03-10-16-2	SK 40	16	h6	160	150	17	27	32
SK40-03-10-22-2	SK 40	22	h6	160	148	19	31	40
SK40-03-10-27-2	SK 40	27	h6	160	148	21	33	48
SK40-03-10-32-2	SK 40	32	h6	160	146	24	38	58
SK40-03-10-40-2	SK 40	40	h6	160	146	27	41	70

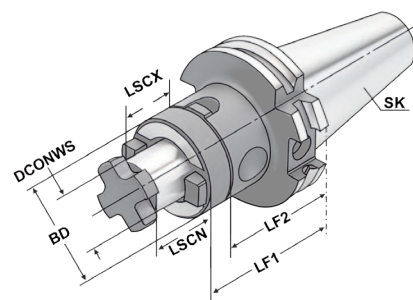
Form AD

Delivery: With retaining screw, driving ring and feather key





Application:
For mounting milling cutters with transverse or longitudinal groove.



Order no.	SK	DCONWS	TDCON	LF1	LF2	LSCN	LSCX	BD
SK50-03-10-16	SK 50	16	h6	55	45	17	27	32
SK50-03-10-22	SK 50	22	h6	55	43	19	31	40
SK50-03-10-27	SK 50	27	h6	55	43	21	33	48
SK50-03-10-32	SK 50	32	h6	55	41	24	38	58
SK50-03-10-40	SK 50	40	h6	55	41	27	41	70
SK50-03-10-16-1	SK 50	16	h6	100	90	17	27	32
SK50-03-10-22-1	SK 50	22	h6	100	88	19	31	40
SK50-03-10-27-1	SK 50	27	h6	100	88	21	33	48
SK50-03-10-32-1	SK 50	32	h6	100	86	24	38	58
SK50-03-10-40-1	SK 50	40	h6	100	86	27	41	70
SK50-03-10-16-2	SK 50	16	h6	160	150	17	27	32
SK50-03-10-22-2	SK 50	22	h6	160	148	19	31	40
SK50-03-10-27-2	SK 50	27	h6	160	148	21	33	48
SK50-03-10-32-2	SK 50	32	h6	160	146	24	38	58
SK50-03-10-40-2	SK 50	40	h6	160	146	27	41	70

Delivery: With retaining screw, driving ring and feather key



Shell mill holders DIN 6357 with enlarged contact face and coolant exit bores on the end face

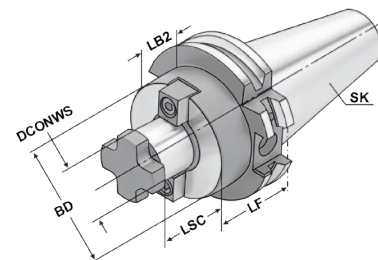
ISO 7388-1

[DIN 69871]

1



Application:
For mounting milling cutters with
transversal groove.



Order no.	SK	DCONWS	TDCON	LF	LSC	LB2	BD
SK30-02-11-16*	SK 30	16	h6	40	17	20,9	38
SK30-02-11-22*	SK 30	22	h6	40	19	20,9	48
SK30-02-11-27*	SK 30	27	h6	50	21	30,9	58
SK30-02-11-32*	SK 30	32	h6	50	24	30,9	78
SK40-02-11-16*	SK 40	16	h6	35	17	15,9	38
SK40-02-11-22*	SK 40	22	h6	35	19	15,9	48
SK40-02-11-27*	SK 40	27	h6	40	21	20,9	58
SK40-02-11-32*	SK 40	32	h6	50	24	30,9	78
SK40-02-11-40*	SK 40	40	h6	50	27	30,9	88
SK40-03-11-16	SK 40	16	h6	35	17	15,9	38
SK40-03-11-22	SK 40	22	h6	35	19	15,9	48
SK40-03-11-27	SK 40	27	h6	40	21	20,9	58
SK40-03-11-32	SK 40	32	h6	50	24	30,9	78
SK40-03-11-40	SK 40	40	h6	50	27	30,9	88
SK40-03-11-16-1	SK 40	16	h6	100	17	80,9	38
SK40-03-11-22-1	SK 40	22	h6	100	19	80,9	48
SK40-03-11-27-1	SK 40	27	h6	100	21	80,9	58
SK40-03-11-32-1	SK 40	32	h6	100	24	80,9	78
SK40-03-11-40-1	SK 40	40	h6	100	27	80,9	88
SK40-03-11-16-130	SK 40	16	h6	130	17	110,9	38
SK40-03-11-22-130	SK 40	22	h6	130	19	110,9	48
SK40-03-11-27-130	SK 40	27	h6	130	21	110,9	58
SK40-03-11-32-130	SK 40	32	h6	130	24	110,9	78
SK40-03-11-40-130	SK 40	40	h6	130	27	110,9	88
SK40-03-11-16-2	SK 40	16	h6	160	17	140,9	38
SK40-03-11-22-2	SK 40	22	h6	160	19	140,9	48
SK40-03-11-27-2	SK 40	27	h6	160	21	140,9	58
SK40-03-11-32-2	SK 40	32	h6	160	24	140,9	78
SK40-03-11-40-2	SK 40	40	h6	160	27	140,9	88

Form AD

SK 30 without coolant exit bores on the end face

DCONWS=40 & 60

For large diameter face mill cutters with four additional threaded holes according to DIN 2079.

Shell mill holders DIN 6357 with enlarged contact face and coolant exit bores on the end face

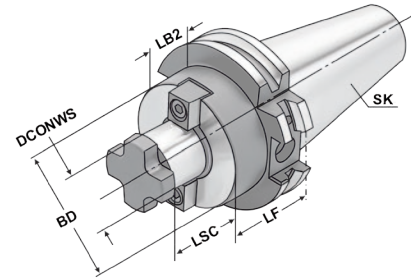
ISO 7388-1

[DIN 69871]

1



Application:
For mounting milling cutters with
transversal groove.


ISO
7388-1

Form
AD/AF
(AD/B)

RFID
Chip

DIN
6357

h6



Order no.	SK	DCONWS	TDCON	LF	LSC	LB2	BD
SK50-03-11-16	SK 50	16	h6	45	17	25,9	38
SK50-03-11-22	SK 50	22	h6	35	19	15,9	48
SK50-03-11-27	SK 50	27	h6	40	21	20,9	58
SK50-03-11-32	SK 50	32	h6	50	24	30,9	78
SK50-03-11-40	SK 50	40	h6	50	27	30,9	88
SK50-03-11-60	SK 50	60	h6	70	40	50,9	129
SK50-03-11-16-1	SK 50	16	h6	100	17	80,9	38
SK50-03-11-22-1	SK 50	22	h6	100	19	80,9	48
SK50-03-11-27-1	SK 50	27	h6	100	21	80,9	58
SK50-03-11-32-1	SK 50	32	h6	100	24	80,9	78
SK50-03-11-40-1	SK 50	40	h6	100	27	80,9	88
SK50-03-11-16-1.5	SK 50	16	h6	130	17	110,9	38
SK50-03-11-22-1.5	SK 50	22	h6	130	19	110,9	48
SK50-03-11-27-1.5	SK 50	27	h6	130	21	110,9	58
SK50-03-11-32-1.5	SK 50	32	h6	130	24	110,9	78
SK50-03-11-40-1.5	SK 50	40	h6	130	27	110,9	88
SK50-03-11-16-2	SK 50	16	h6	160	17	140,9	38
SK50-03-11-22-2	SK 50	22	h6	160	19	140,9	48
SK50-03-11-27-2	SK 50	27	h6	160	21	140,9	58
SK50-03-11-32-2	SK 50	32	h6	160	24	140,9	78
SK50-03-11-40-2	SK 50	40	h6	160	27	140,9	88
SK50-03-11-16-3	SK 50	16	h6	200	17	180,9	38
SK50-03-11-22-3	SK 50	22	h6	200	19	180,9	48
SK50-03-11-27-3	SK 50	27	h6	200	21	180,9	58
SK50-03-11-32-3	SK 50	32	h6	200	24	180,9	78
SK50-03-11-40-3	SK 50	40	h6	200	27	180,9	88

Delivery:

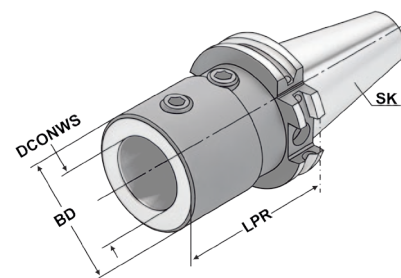
With drivers, cross head retaining screw and cylinder head retaining screw for cutters with
central coolant.
For DCONWS=60 only with four fixation screws according to DIN 912.



1



Application:
For mounting solid drills with cylindrical shank according to DIN 6595.



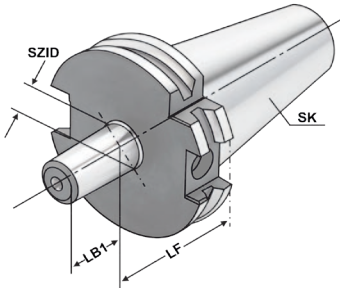
Order no.	SK	DCONWS	TDCON	LPR	BD
SK40-03-51-20	SK 40	20	H4	65	40
SK40-03-51-25	SK 40	25	H4	70	45
SK40-03-51-32	SK 40	32	H4	75	52
SK40-03-51-40	SK 40	40	H4	115	65
SK50-03-51-20	SK 50	20	H4	70	40
SK50-03-51-25	SK 50	25	H4	70	45
SK50-03-51-32	SK 50	32	H4	70	52
SK50-03-51-40	SK 50	40	H4	80	60

Note: Contact surface precision grinded
Delivery: With clamping screws





Application:
For mounting drill chucks.



ISO 7388-1

Form A

$\leq 5\mu\text{m}$

G6.3
15.000
min⁻¹

RFID Chip

DIN 238

AT4

Order no.	SK	SZID	LF	LB1
SK30-02-14-12	SK 30	B12	25	18,5
SK30-02-14-16	SK 30	B16	25	24
SK40-02-14-12	SK 40	B12	25	18,5
SK40-02-14-16	SK 40	B16	25	24
SK40-02-14-18	SK 40	B18	35	32
SK50-02-14-12	SK 50	B12	25	18,5
SK50-02-14-16	SK 50	B16	25	24
SK50-02-14-18	SK 50	B18	25	32

Balanced type



Order no.	Version
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Balancing at G 2.5

W25	Without balancing report
W25.2	With balancing report

Balancing of unbalanced tools

W25.1	Without balancing report
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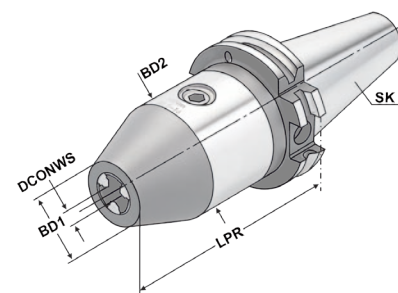
10.93

10.31

10.77

1


Application:
For mounting tools with straight shanks.


ISO
7388-1

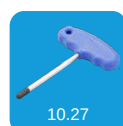
Form
AD

RFID
Chip


Order no.	SK	DCONWS Capacity	LPR	BD1	BD2	DRVS
SK30-02-15-08	SK 30	0,5 – 8	70	23	36	4
SK30-02-15-13	SK 30	1,0 – 13	111	31,0	50	6
SK30-02-15-16	SK 30	2,5 – 16	116	27,5	50	6
SK40-02-15-08	SK 40	0,5 – 8	70	23	36	4
SK40-02-15-13	SK 40	1,0 – 13	90	31,0	50	6
SK40-02-15-16	SK 40	2,5 – 16	95	27,5	50	6
SK50-02-15-13	SK 50	1,0 – 13	90	31,0	50	6
SK50-02-15-16	SK 50	2,5 – 16	95	27,5	50	6

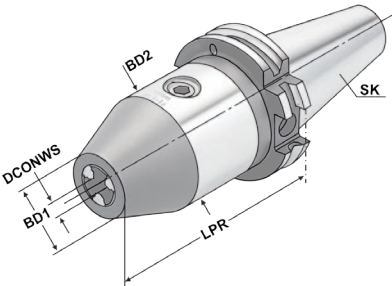
Note: High precision and accurate concentricity of ≤ 0.03 mm. No automatic slackening of the clamping force while machining with either clockwise or counter clockwise rotation or on spindle stop. Clamping and releasing effected by means of an Allen wrench.

Delivery: Without wrench





Application:
For mounting tools with straight shanks.



ISO 7388-1

Form AD/AF (AD/B)

$\leq 30\mu\text{m}$

G6.3
15,000
min⁻¹

RFID Chip

Ch. 11

Order no.	SK	DCONWS Capacity	LPR	BD1	BD2	DRVS
SK40-03-15-08	SK 40	0,5 – 8	70	23	36	4
SK40-03-15-13	SK 40	1,0 – 13	90	31,0	50	6
SK40-03-15-16	SK 40	2,5 – 16	95	27,5	50	6
SK50-03-15-13	SK 50	1,0 – 13	90	31,0	50	6
SK50-03-15-16	SK 50	2,5 – 16	95	27,5	50	6

Note: *High precision and accurate concentricity of $\leq 0.03\text{ mm}$. No automatic slackening of the clamping force while machining with either clockwise or counter clockwise rotation or on spindle stop. Clamping and releasing effected by means of an Allen wrench.*

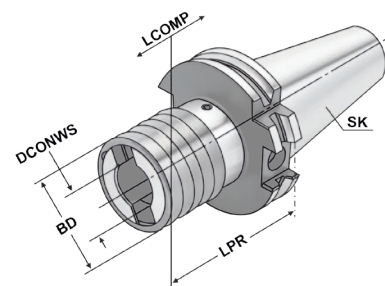
Delivery: *Without wrench*



Quick change tapping chucks with length compensation on compression and expansion

[DIN 69871]
1


Application:
For the chucking of quick change adaptors
for taps.


ISO
7388-1

Form
A

RFID
Chip

i
Ch. 11

Order no.	SK	Capacity	SZID	DCONWS	LPR	BD	LCOMP
SK30-02-16-12	SK 30	M3 – M14	1	19	65	36	7
SK30-02-16-20	SK 30	M5 – M22	2	31	102	53	12
SK40-02-16-12	SK 40	M3 – M14	1	19	63	36	7
SK40-02-16-20	SK 40	M5 – M22	2	31	97	53	12
SK40-02-16-36	SK 40	M14 – M36	3	48	156	78	17,5
SK50-02-16-12	SK 50	M3 – M14	1	19	63	36	7
SK50-02-16-20	SK 50	M5 – M22	2	31	97	53	12
SK50-02-16-36	SK 50	M14 – M36	3	48	140	78	17,5

Note: For machining centres without synchronous spindle.



**Quick change tapping chucks without length compensation
on compression and expansion**

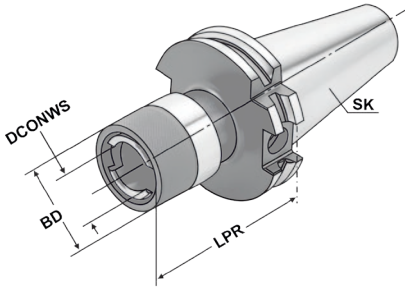
ISO 7388-1

[DIN 69871]

1



Application:
For the chucking of quick change adaptors for taps.



ISO 7388-1

Form AD

RFID Chip

i

Ch. 11

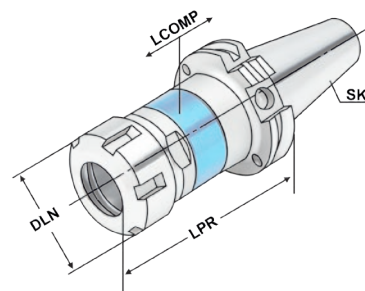
Order no.	SK	Capacity	SZID	DCONWS	LPR	BD
SK30-02-16-12-1	SK 30	M3 – M14	1	19	58	34
SK30-02-16-20-1	SK 30	M5 – M22	2	31	103	49
SK40-02-16-12-1	SK 40	M3 – M14	1	19	62	34
SK40-02-16-20-1	SK 40	M5 – M22	2	31	95	49
SK40-02-16-36-1	SK 40	M14 – M36	3	48	130	74
SK50-02-16-12-1	SK 50	M3 – M14	1	19	60	34
SK50-02-16-20-1	SK 50	M5 – M22	2	31	85	49
SK50-02-16-36-1	SK 50	M14 – M36	3	48	117	74

Note: For machining centres with synchronous spindle.



1


Application:
For machining centres with synchronous spindle.



ISO 7388-1

Form
AD/AF
(AD/B)

 $\leq 60\mu\text{m}$

G6.3
15.000
min⁻¹

RFID
Chip

ISO
15488

- +

i
Ch. 11

Order no.	SK	DCONWS Capacity	Typ	LPR	DLN	LCOMP
SK40-03-16-02-10 ¹	SK 40	M3 – M12	426E ER 16 SW25	79	28	0,5
SK40-03-16-02-10-M ²	SK 40	M3 – M12	426E ER 16 Mini	79	22	0,5
SK40-03-16-02-13	SK 40	M3 – M16	428E ER 20	80	34	0,5
SK40-03-16-02-16	SK 40	M3 – M20	430E ER 25	84	42	0,5
SK40-03-16-02-20	SK 40	M3 – M27	470E ER 32	95	50	0,5
SK40-03-16-02-26	SK 40	M3 – M33	472E ER 40	120	63	0,5
SK50-03-16-02-10 ¹	SK 50	M3 – M12	426E ER 16 SW25	79	28	0,5
SK50-03-16-02-10-M ²	SK 50	M3 – M12	426E ER 16 Mini	79	22	0,5
SK50-03-16-02-10-1-M ²	SK 50	M3 – M12	426E ER 16 Mini	90	22	0,5
SK50-03-16-02-13	SK 50	M3 – M16	428E ER 20	80	34	0,5
SK50-03-16-02-16	SK 50	M3 – M20	430E ER 25	84	42	0,5
SK50-03-16-02-20	SK 50	M3 – M27	470E ER 32	95	50	0,5
SK50-03-16-02-26	SK 50	M3 – M33	472E ER 40	105	63	0,5

¹ Hexagonal clamping nut ² Mini nut

Note:

- Synchro tapping chucks compensate synchronisation errors.
- Minimal length compensation on compression and expansion balances very small pitch differences between synchro spindle and tap, which can cause high frictional forces on the thread flanks.
- A possible increase of axial force during the tapping process is reduced to a minimum.
- Suitable for internal coolant.
- Coolant pressure up to max. 100 bar.

Delivery:

With balanced clamping nut



9.03



10.29



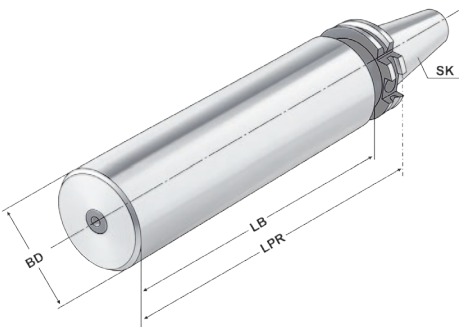
10.56



10.31



Application:
For the manufacturing of special tools.



ISO 7388-1

Form A

RFID Chip

Order no.	SK	BD	LB	LPR
SK30-02-17-40	SK 30	40,5	-	160
SK40-02-17-63	SK 40	63	215	250
SK50-02-17-97	SK 50	97	280	315

Version: Cone and flange hardened and grinded. Soft body for later processing.

Balanced type



Order no.	Version
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Balancing at G 2.5

W25	Without balancing report
W25.2	With balancing report

Balancing of unbalanced tools

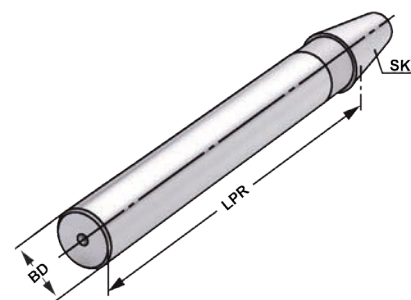
W25.1	Without balancing report
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1



Application:
For the inspection of machine tools according to ISO recommendation R230 or for testing the tool spindle.



Order no.	SK	LPR	BD	Tolerance	max. concentricity deviation
SK30-02-18-32	SK 30	300	32	0,003	0,003
SK40-02-18-40	SK 40	300	40	0,003	0,003
SK50-02-18-50	SK 50	300	50	0,003	0,003

Delivery: Delivery with test certificate

Wooden box for test arbors



Application:
For the storage of test arbors.



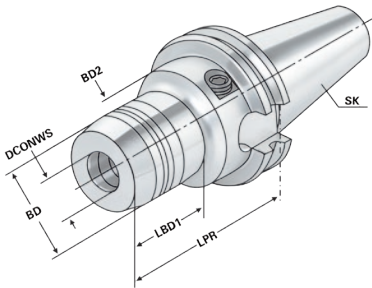
Order no.	Size	for cones
WB-18	460×130×115	SK 30 / 40 / 50



10.31



Application:
For mounting straight-shank tools acc. DIN 1835
form A+B+E and DIN 6535 form HB+HE (larger
than Ø 20 mm only with reduction sleeve).



ISO 7388-1

Form AD

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

$G2.5$
 25.000 min^{-1}

RFID Chip

Ch. 11

Order no.	SK	DCONWS	LPR	BD	BD2	LSCX	ADJR- GA	LBD1	DRVS	THID
SK30-02-H06	SK 30	6	60	26	45	37	10	25	5	M6x1
SK30-02-H08	SK 30	8	64	28	45	37	10	29	5	M6x1
SK30-02-H10	SK 30	10	64	30	45	42	10	35	5	M6x1
SK30-02-H12	SK 30	12	72	32	45	47	10	43	5	M8x1
SK30-02-H14	SK 30	14	72	34	45	47	10	42	5	M10x1
SK30-02-H16	SK 30	16	72	38	45	52	10	43	5	M12x1
SK30-02-H18	SK 30	18	72	40	45	52	10	42	5	M12x1
SK30-02-H20	SK 30	20	90	42	42	52	10	71	5	M12x1

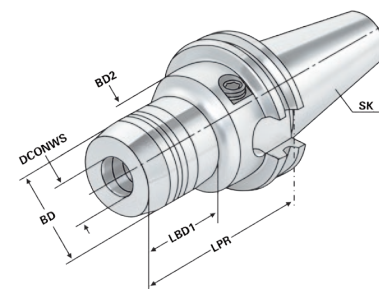
LSCX = Clamping depth, max. ADJRGA = Length adjustment range, max.

Delivery: Without wrench



1


Application:
For mounting straight-shank tools acc. DIN 1835
form A+B+E and DIN 6535 form HB+HE (larger
than Ø 20 mm only with reduction sleeve).


ISO
7388-1

Form
AD/AF
(AD/B)

≤ 3µm

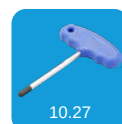
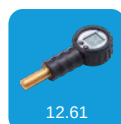
G2.5
25.000
min⁻¹
RFID
Chip

Ch. 11

Order no.	SK	DCONWS	LPR	BD	BD2	LSCX	ADJR- GA	LBD1	DRVS	THID
SK40-03-H06	SK 40	6	68	26	50	37	10	33	5	M6x1
SK40-03-H08	SK 40	8	68	28	50	37	10	33	5	M6x1
SK40-03-H10	SK 40	10	72	30	50	42	10	37	5	M8x1
SK40-03-H12	SK 40	12	77	32	50	47	10	42	5	M8x1
SK40-03-H14	SK 40	14	77	34	50	47	10	42	5	M10x1
SK40-03-H16	SK 40	16	80	38	50	52	10	43	5	M10x1
SK40-03-H18	SK 40	18	80	40	50	52	10	43	5	M10x1
SK40-03-H20	SK 40	20	82	42	50	52	10	47	5	M10x1
SK40-03-H25	SK 40	25	117	50	63	58	10	51	6	M12x1
SK40-03-H32	SK 40	32	117	60	63	64	10	51	6	M12x1
SK40-03-H06-1	SK 40	6	110	26	50	37	10	33	5	M6x1
SK40-03-H08-1	SK 40	8	110	28	50	37	10	33	5	M6x1
SK40-03-H10-1	SK 40	10	110	30	50	42	10	37	5	M8x1
SK40-03-H12-1	SK 40	12	110	32	50	47	10	42	5	M8x1
SK40-03-H14-1	SK 40	14	110	34	50	47	10	42	5	M10x1
SK40-03-H16-1	SK 40	16	110	38	50	52	10	43	5	M10x1
SK40-03-H18-1	SK 40	18	110	40	50	52	10	43	5	M12x1
SK40-03-H20-1	SK 40	20	110	42	50	52	10	47	5	M12x1
SK40-03-H06-2	SK 40	6	150	26	50	42	10	110	5	M6x1
SK40-03-H08-2	SK 40	8	150	28	50	42	10	110	5	M6x1
SK40-03-H10-2	SK 40	10	150	30	50	42	10	110	5	M8x1
SK40-03-H12-2	SK 40	12	150	32	50	47	10	110	5	M8x1
SK40-03-H14-2	SK 40	14	150	34	50	47	10	110	5	M10x1
SK40-03-H16-2	SK 40	16	150	38	50	52	10	110	5	M10x1
SK40-03-H18-2	SK 40	18	150	40	50	52	10	110	5	M12x1
SK40-03-H20-2	SK 40	20	150	42	50	52	10	110	5	M12x1
SK40-03-H25-2	SK 40	25	150	50	63	58	10	94	6	M12x1

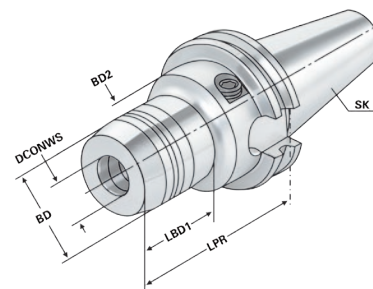
LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

Delivery:
Without wrench




Application:
For mounting straight-shank tools acc. DIN 1835
form A+B+E and DIN 6535 form HB+HE (larger
than Ø 20 mm only with reduction sleeve).


ISO
7388-1

Form
AD/AF
(AD/B)

≤3µm

G2.5
25,000
min⁻¹
RFID
Chip

Ch. 11

Order no.	SK	DCONWS	LPR	BD	BD2	LSCX	ADJR- GA	LBD1	DRVS	THID
SK50-03-H06	SK 50	6	68	26	50	37	10	33	5	M6x1
SK50-03-H08	SK 50	8	68	28	50	37	10	33	5	M6x1
SK50-03-H10	SK 50	10	72	30	50	42	10	37	5	M8x1
SK50-03-H12	SK 50	12	77	32	50	47	10	42	5	M8x1
SK50-03-H14	SK 50	14	77	34	50	47	10	42	5	M10x1
SK50-03-H16	SK 50	16	80	38	50	52	10	45	5	M12x1
SK50-03-H18	SK 50	18	80	40	50	52	10	45	5	M12x1
SK50-03-H20	SK 50	20	82	42	50	52	10	47	5	M12x1
SK50-03-H25	SK 50	25	87	50	63	58	10	52	6	M12x1
SK50-03-H32	SK 50	32	91	60	63	64	10	56	6	M12x1
SK50-03-H06-1	SK 50	6	110	26	50	37	10	33	5	M6x1
SK50-03-H08-1	SK 50	8	110	28	50	37	10	33	5	M6x1
SK50-03-H10-1	SK 50	10	110	30	50	42	10	37	5	M8x1
SK50-03-H12-1	SK 50	12	110	32	50	47	10	42	5	M8x1
SK50-03-H14-1	SK 50	14	110	34	50	47	10	42	5	M10x1
SK50-03-H16-1	SK 50	16	110	38	50	52	10	45	5	M12x1
SK50-03-H18-1	SK 50	18	110	40	50	52	10	45	5	M12x1
SK50-03-H20-1	SK 50	20	110	42	50	52	10	47	5	M12x1
SK50-03-H25-1	SK 50	25	110	50	63	58	10	52	6	M16x1
SK50-03-H32-1	SK 50	32	110	60	63	64	10	56	6	M16x1
SK50-03-H06-2	SK 50	6	150	26	50	37	10	110	5	M6x1
SK50-03-H08-2	SK 50	8	150	28	50	37	10	110	5	M6x1
SK50-03-H10-2	SK 50	10	150	30	50	42	10	110	5	M8x1
SK50-03-H12-2	SK 50	12	150	32	50	47	10	110	5	M8x1
SK50-03-H14-2	SK 50	14	150	34	50	47	10	110	5	M10x1
SK50-03-H16-2	SK 50	16	150	38	50	52	10	110	5	M12x1
SK50-03-H18-2	SK 50	18	150	40	50	52	10	110	5	M12x1
SK50-03-H20-2	SK 50	20	150	42	50	52	10	110	5	M12x1
SK50-03-H25-2	SK 50	25	150	50	50	52	10	110	6	M16x1
SK50-03-H32-2	SK 50	32	150	60	63	64	10	110	6	M16x1
SK50-03-H40-2	SK 50	40	150	63	63	74	10	131	6	M16x1

LSCX = Clamping depth, max.

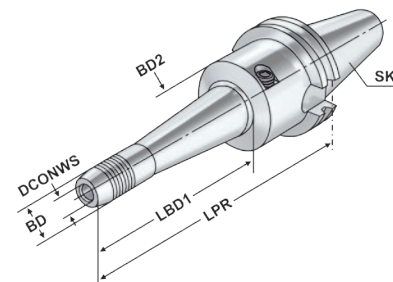
ADJRGA = Length adjustment range, max.

Delivery: Without wrench

1



Application:
For mounting straight-shank tools. Especially in operations in toolmaking and mould making. Wherever reduced interference contours are required.



ISO
7388-1

Form
AD/AF
(AD/B)

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

G2.5
25.000
min⁻¹

RFID
Chip

i
Ch. 11

Order no.	SK	DCONWS	LPR	BD	BD2	LSCX	ADJR- GA	LBD1	DRVS	THID
SK40-03-HSL06-160	SK 40	6	160	16	50	37	10	103	5	M6x1
SK40-03-HSL08-160	SK 40	8	160	18	50	37	10	103	5	M6x1
SK40-03-HSL10-160	SK 40	10	160	20	50	42	10	103	5	M8x1
SK40-03-HSL12-160	SK 40	12	160	22	50	47	10	103	5	M8x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

Delivery: Without wrench



Maintenance and repair of hydraulic chucks

[DIN 69871]

Clamping of tools with hydraulic chucks is a widespread, well-established and reliable method. It is a resistant, easy-to-operate and durable way of clamping due to its advantageous construction design. Nevertheless in the course of time under the influence of thermal and mechanical outputs at factories loss of clamping force is observed. As a result the life of the tool shortens and its quality during the working process reduces. Therefore it leads to a costly damage of the tool.

We maintain and repair your hydraulic chucks - both those manufactured at our place and those produced somewhere else - for a reasonable price here at our office in the south of Germany.

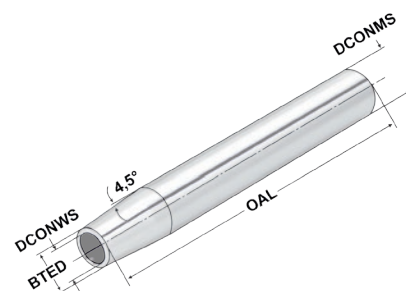
We check possible causes of the clamping force reduction and repair it within two weeks at a fixed low price. At the same time we renew all the fast wearing parts, fill the hydraulic system anew and adjust its clamping force. Afterwards the final inspection stage takes place.

You are welcome to contact our customer service for further information and prices.



1


Application:
For use in shrink-fit chucks, hydraulic chucks, and ER collet chucks.



Order no.	DCONMS	DCONWS	BTED	OAL	LSCN	LSCX	ADJRGA	THID
ACE-70-03*	20	3	10	150	6	-	-	-
ACE-70-04*	20	4	10	150	8	-	-	-
ACE-70-05*	20	5	10	150	10	-	-	-
ACE-70-06	20	6	10	150	22	36	10	M5x0,8
ACE-70-08	20	8	12	150	26	36	10	M6x1
ACE-70-10	20	10	14	150	31	41	10	M8x1
ACE-70-12	20	12	16	150	36	46	10	M10x1
ACE-70-25-08	25	8	12	150	26	36	10	M6x1
ACE-70-25-10	25	10	14	150	31	41	10	M8x1
ACE-70-25-12	25	12	16	150	36	46	10	M10x1
ACE-70-25-14	25	14	18	150	36	46	10	M10x1
ACE-70-25-16	25	16	20	150	39	49	10	M12x1
ACE-70-32-10	32	10	14	150	31	41	10	M8x1
ACE-70-32-12	32	12	16	150	36	46	10	M10x1
ACE-70-32-14	32	14	18	150	36	46	10	M10x1
ACE-70-32-16	32	16	20	150	39	49	10	M12x1
ACE-70-32-18	32	18	22	150	39	49	10	M12x1
ACE-70-32-20	32	20	24	150	41	51	10	M16x1

* without end stop

Through hole for internal cooling provided.

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

For Ø 3, 4 and 5 mm only solid carbide tool shanks must be used!

Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 3, 4, 5 with h_4 -tolerance and Ø 6–Ø 32 with h_6 -tolerance

Shrink chucks 4,5° for mounting of solid carbide and HSS-tool shanks

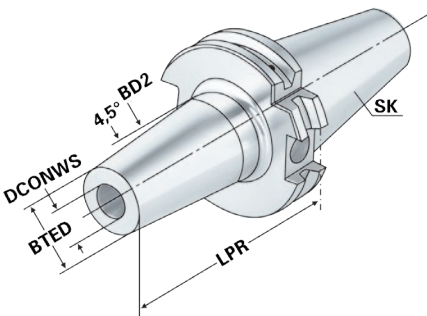
ISO 7388-1

[DIN 69871]

1



Application:
For mounting straight-shank tools.



ISO 7388-1

Form AD

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

$G2.5$
 25.000 min^{-1}

RFID Chip

h6

Order no.	SK	DCONWS	TDCON	LPR	BTED	BD2	LSCN	LSCX	ADJRGA	THID
SK30-02-70-03	SK 30	3	h4	80	15	20	6	-	-	-
SK30-02-70-04	SK 30	4	h4	80	15	20	8	-	-	-
SK30-02-70-05	SK 30	5	h4	80	15	20	10	-	-	-
SK30-02-70-06	SK 30	6	h6	80	21	27	22	36	10	M5x0,8
SK30-02-70-08	SK 30	8	h6	80	21	27	26	36	10	M6x1
SK30-02-70-10	SK 30	10	h6	80	24	32	31	41	10	M8x1
SK30-02-70-12	SK 30	12	h6	100	24	32	36	46	10	M10x1
SK30-02-70-14	SK 30	14	h6	100	27	34	36	46	10	M10x1
SK30-02-70-16	SK 30	16	h6	100	27	34	39	49	10	M12x1
SK30-02-70-18	SK 30	18	h6	100	33	42	39	49	10	M12x1
SK30-02-70-20	SK 30	20	h6	100	33	42	41	51	10	M16x1

LSCX = Clamping depth, max. ADJRGA = Length adjustment range, max.

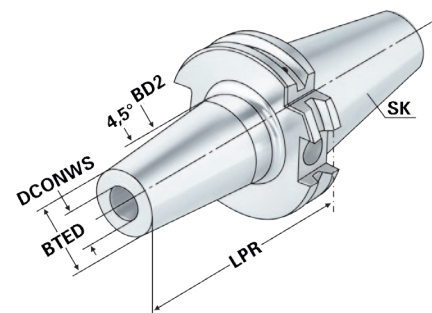
For Ø 3, 4 and 5 mm only solid carbide tool shanks must be used

Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 3, 4, 5 with h4-tolerance and Ø 6–Ø 32 with h6-tolerance



1


Application:
For mounting straight-shank tools.



ISO 7388-1

Form
AD/AF
(AD/B)

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

G2.5
25.000
min⁻¹

RFID
Chip

h6

Order no.	SK	DCONWS	TDCON	LPR	BTED	BD2	LSCN	LSCX	ADJRGA	THID
SK40-03-70-03	SK 40	3	h4	80	15	20	6	-	-	-
SK40-03-70-04	SK 40	4	h4	80	15	20	8	-	-	-
SK40-03-70-05	SK 40	5	h4	80	15	20	10	-	-	-
SK40-03-70-06	SK 40	6	h6	80	21	27	22	36	10	M5x0,8
SK40-03-70-08	SK 40	8	h6	80	21	27	26	36	10	M6x1
SK40-03-70-10	SK 40	10	h6	80	24	32	31	41	10	M8x1
SK40-03-70-12	SK 40	12	h6	80	24	32	36	46	10	M10x1
SK40-03-70-14	SK 40	14	h6	80	27	34	36	46	10	M10x1
SK40-03-70-16	SK 40	16	h6	80	27	34	39	49	10	M12x1
SK40-03-70-18	SK 40	18	h6	80	33	42	39	49	10	M12x1
SK40-03-70-20	SK 40	20	h6	80	33	42	41	51	10	M16x1
SK40-03-70-25	SK 40	25	h6	100	44	53	47	57	10	M16x1
SK40-03-70-32	SK 40	32	h6	100	44	53	51	61	10	M16x1
SK40-03-70-03-1	SK 40	3	h4	120	15	20	6	-	-	-
SK40-03-70-04-1	SK 40	4	h4	120	15	20	8	-	-	-
SK40-03-70-05-1	SK 40	5	h4	120	15	20	10	-	-	-
SK40-03-70-06-1	SK 40	6	h6	120	21	27	22	36	10	M5x0,8
SK40-03-70-08-1	SK 40	8	h6	120	21	27	26	36	10	M6x1
SK40-03-70-10-1	SK 40	10	h6	120	24	32	31	41	10	M8x1
SK40-03-70-12-1	SK 40	12	h6	120	24	32	36	46	10	M10x1
SK40-03-70-14-1	SK 40	14	h6	120	27	34	36	46	10	M10x1
SK40-03-70-16-1	SK 40	16	h6	120	27	34	39	49	10	M12x1
SK40-03-70-18-1	SK 40	18	h6	120	33	42	39	49	10	M12x1
SK40-03-70-20-1	SK 40	20	h6	120	33	42	41	51	10	M16x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

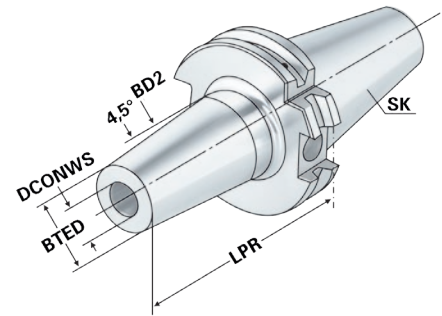
For Ø 3, 4 and 5 mm only solid carbide tool shanks must be used

Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 3, 4, 5 with h4-tolerance and Ø 6–Ø 32 with h6-tolerance





Application:
For mounting straight-shank tools.



ISO 7388-1

Form
AD/AF
(AD/B)

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

G2.5
25,000
min⁻¹

RFID
Chip

h6

Order no.	SK	DCONWS	TDCON	LPR	BTED	BD2	LSCN	LSCX	ADJRGA	THID
SK40-03-70-03-2	SK 40	3	h4	160	15	20	6	-	-	-
SK40-03-70-04-2	SK 40	4	h4	160	15	20	8	-	-	-
SK40-03-70-05-2	SK 40	5	h4	160	15	20	10	-	-	-
SK40-03-70-06-2	SK 40	6	h6	160	21	27	22	36	10	M5x0,8
SK40-03-70-08-2	SK 40	8	h6	160	21	27	26	36	10	M6x1
SK40-03-70-10-2	SK 40	10	h6	160	24	32	31	41	10	M8x1
SK40-03-70-12-2	SK 40	12	h6	160	24	32	36	46	10	M10x1
SK40-03-70-14-2	SK 40	14	h6	160	27	34	36	46	10	M10x1
SK40-03-70-16-2	SK 40	16	h6	160	27	34	39	49	10	M12x1
SK40-03-70-18-2	SK 40	18	h6	160	33	42	39	49	10	M12x1
SK40-03-70-20-2	SK 40	20	h6	160	33	42	41	51	10	M16x1
SK40-03-70-25-2	SK 40	25	h6	160	44	53	47	57	10	M16x1
SK40-03-70-32-2	SK 40	32	h6	160	44	53	51	61	10	M16x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

For Ø 3, 4 and 5 mm only solid carbide tool shanks must be used

Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 3, 4, 5 with h4-tolerance and Ø 6–Ø 32 with h6-tolerance



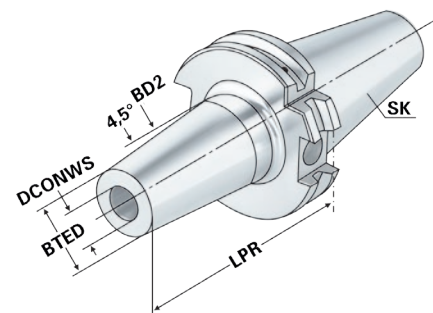
10.84



10.31

1


Application:
For mounting straight-shank tools.



ISO 7388-1

Form
AD/AF
(AD/B)

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

G2.5
25.000
min⁻¹

RFID
Chip

h6

Order no.	SK	DCONWS	TDCON	LPR	BTED	BD2	LSCN	LSCX	ADJRGA	THID
SK50-03-71-03	SK 50	3	h4	80	15	20	6	-	-	-
SK50-03-71-04	SK 50	4	h4	80	15	20	8	-	-	-
SK50-03-71-05	SK 50	5	h4	80	15	20	10	-	-	-
SK50-03-71-06	SK 50	6	h6	80	21	27	22	36	10	M5x0,8
SK50-03-71-08	SK 50	8	h6	80	21	27	26	36	10	M6x1
SK50-03-71-10	SK 50	10	h6	80	24	32	31	41	10	M8x1
SK50-03-71-12	SK 50	12	h6	80	24	32	36	46	10	M10x1
SK50-03-71-14	SK 50	14	h6	80	27	34	36	46	10	M10x1
SK50-03-71-16	SK 50	16	h6	80	27	34	39	49	10	M12x1
SK50-03-71-18	SK 50	18	h6	80	33	42	39	49	10	M12x1
SK50-03-71-20	SK 50	20	h6	80	33	42	41	51	10	M16x1
SK50-03-71-25	SK 50	25	h6	100	44	53	47	57	10	M16x1
SK50-03-71-32	SK 50	32	h6	100	44	53	51	61	10	M16x1
SK50-03-71-06-1	SK 50	6	h6	120	21	27	22	36	10	M5x0,8
SK50-03-71-08-1	SK 50	8	h6	120	21	27	26	36	10	M6x1
SK50-03-71-10-1	SK 50	10	h6	120	24	32	31	41	10	M8x1
SK50-03-71-12-1	SK 50	12	h6	120	24	32	36	46	10	M10x1
SK50-03-71-14-1	SK 50	14	h6	120	27	34	36	46	10	M10x1
SK50-03-71-16-1	SK 50	16	h6	120	27	34	39	49	10	M12x1
SK50-03-71-18-1	SK 50	18	h6	120	33	42	39	49	10	M12x1
SK50-03-71-20-1	SK 50	20	h6	120	33	42	41	51	10	M16x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

For Ø 3, 4 and 5 mm only solid carbide tool shanks must be used

Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 3, 4, 5 with h4-tolerance and Ø 6–Ø 32 with h6-tolerance



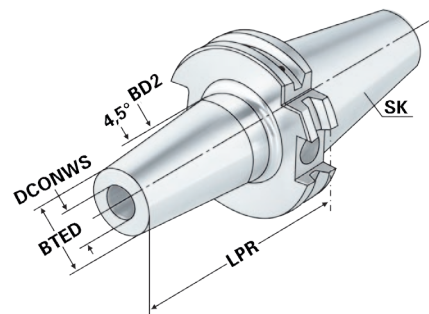
10.84



10.31



Application:
For mounting straight-shank tools.



ISO 7388-1

Form
AD/AF
(AD/B)

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

G2.5
25.000
min⁻¹

RFID
Chip

h6

Order no.	SK	DCONWS	TDCON	LPR	BTED	BD2	LSCN	LSCX	ADJRGA	THID
SK50-03-71-06-2	SK 50	6	h6	160	21	27	22	36	10	M5x0,8
SK50-03-71-08-2	SK 50	8	h6	160	21	27	26	36	10	M6x1
SK50-03-71-10-2	SK 50	10	h6	160	24	32	31	41	10	M8x1
SK50-03-71-12-2	SK 50	12	h6	160	24	32	36	46	10	M10x1
SK50-03-71-14-2	SK 50	14	h6	160	27	34	36	46	10	M10x1
SK50-03-71-16-2	SK 50	16	h6	160	27	34	39	49	10	M12x1
SK50-03-71-18-2	SK 50	18	h6	160	33	42	39	49	10	M12x1
SK50-03-71-20-2	SK 50	20	h6	160	33	42	41	51	10	M16x1
SK50-03-71-25-2	SK 50	25	h6	160	44	53	47	57	10	M16x1
SK50-03-71-32-2	SK 50	32	h6	160	44	53	51	61	10	M16x1
SK50-03-71-06-3	SK 50	6	h6	200	21	27	22	36	10	M5x0,8
SK50-03-71-08-3	SK 50	8	h6	200	21	27	26	36	10	M6x1
SK50-03-71-10-3	SK 50	10	h6	200	24	32	31	41	10	M8x1
SK50-03-71-12-3	SK 50	12	h6	200	24	32	36	46	10	M10x1
SK50-03-71-14-3	SK 50	14	h6	200	27	34	36	46	10	M10x1
SK50-03-71-16-3	SK 50	16	h6	200	27	34	39	49	10	M12x1
SK50-03-71-18-3	SK 50	18	h6	200	33	42	39	49	10	M12x1
SK50-03-71-20-3	SK 50	20	h6	200	33	42	41	51	10	M16x1
SK50-03-71-25-3	SK 50	25	h6	200	44	53	47	57	10	M16x1
SK50-03-71-32-3	SK 50	32	h6	200	44	53	51	61	10	M16x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

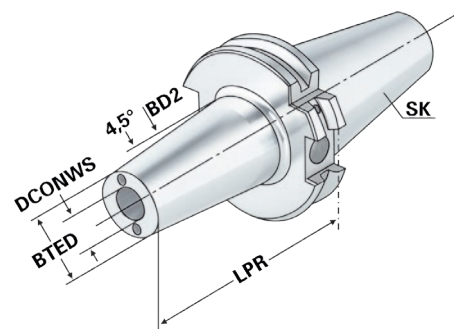
For Ø 3, 4 and 5 mm only solid carbide tool shanks must be used

Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 3, 4, 5 with h4-tolerance and Ø 6–Ø 32 with h6-tolerance



Shrink chucks 4,5° with coolant channels
[DIN 69871]
for mounting of solid carbide and HSS-tool shanks
1


Application:
For mounting straight-shank tools.



Order no.	SK	DCONWSTD	CON	LPR	BTED	BD2	LSCN	LSCX	ADJRGA	THID
SK40-03-70-03-CC	SK 40	3	h4	80	15	20	6	-	-	-
SK40-03-70-04-CC	SK 40	4	h4	80	15	20	8	-	-	-
SK40-03-70-05-CC	SK 40	5	h4	80	15	20	10	-	-	-
SK40-03-70-06-CC	SK 40	6	h6	80	21	27	22	36	10	M5x0,8
SK40-03-70-08-CC	SK 40	8	h6	80	21	27	26	36	10	M6x1
SK40-03-70-10-CC	SK 40	10	h6	80	24	32	31	41	10	M8x1
SK40-03-70-12-CC	SK 40	12	h6	80	24	32	36	46	10	M10x1
SK40-03-70-14-CC	SK 40	14	h6	80	27	34	36	46	10	M10x1
SK40-03-70-16-CC	SK 40	16	h6	80	27	34	39	49	10	M12x1
SK40-03-70-18-CC	SK 40	18	h6	80	33	42	39	49	10	M12x1
SK40-03-70-20-CC	SK 40	20	h6	80	33	42	41	51	10	M16x1
SK40-03-70-25-CC	SK 40	25	h6	100	44	53	47	57	10	M16x1
SK40-03-70-32-CC	SK 40	32	h6	100	44	53	51	61	10	M16x1
SK40-03-70-03-1-CC	SK 40	3	h4	120	15	20	6	-	-	-
SK40-03-70-04-1-CC	SK 40	4	h4	120	15	20	8	-	-	-
SK40-03-70-05-1-CC	SK 40	5	h4	120	15	20	10	-	-	-
SK40-03-70-06-1-CC	SK 40	6	h6	120	21	27	22	36	10	M5x0,8
SK40-03-70-08-1-CC	SK 40	8	h6	120	21	27	26	36	10	M6x1
SK40-03-70-10-1-CC	SK 40	10	h6	120	24	32	31	41	10	M8x1
SK40-03-70-12-1-CC	SK 40	12	h6	120	24	32	36	46	10	M10x1
SK40-03-70-14-1-CC	SK 40	14	h6	120	27	34	36	46	10	M10x1
SK40-03-70-16-1-CC	SK 40	16	h6	120	27	34	39	49	10	M12x1
SK40-03-70-18-1-CC	SK 40	18	h6	120	33	42	39	49	10	M12x1
SK40-03-70-20-1-CC	SK 40	20	h6	120	33	42	41	51	10	M16x1
SK50-03-71-06-CC	SK 50	6	h6	80	21	27	22	36	10	M5x0,8
SK50-03-71-08-CC	SK 50	8	h6	80	21	27	26	36	10	M6x1
SK50-03-71-10-CC	SK 50	10	h6	80	24	32	31	41	10	M8x1
SK50-03-71-12-CC	SK 50	12	h6	80	24	32	36	46	10	M10x1
SK50-03-71-14-CC	SK 50	14	h6	80	27	34	36	46	10	M10x1
SK50-03-71-16-CC	SK 50	16	h6	80	27	34	39	49	10	M12x1
SK50-03-71-18-CC	SK 50	18	h6	80	33	42	39	49	10	M12x1
SK50-03-71-20-CC	SK 50	20	h6	80	33	42	41	51	10	M16x1
SK50-03-71-25-CC	SK 50	25	h6	100	44	53	47	57	10	M16x1
SK50-03-71-32-CC	SK 50	32	h6	100	44	53	51	61	10	M16x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

Shrink chucks 3° for mounting of solid carbide and HSS-tool shanks

ISO 7388-1

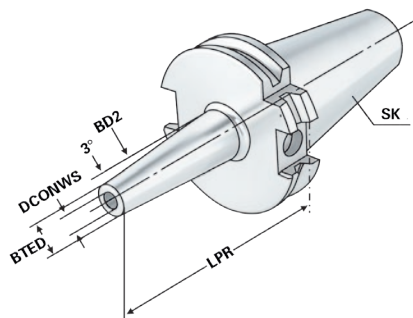
[DIN 69871]

- slim

1



Application:
For mounting straight-shank tools.



Order no.	SK	DCONWS	TDCON	LPR	BTED	BD2	LSCN	LSCX	ADJRGA	THID
SK40-03-72-03	SK 40	3	h4	80	9	15,5	6	-	-	-
SK40-03-72-04	SK 40	4	h4	80	10	16,5	8	-	-	-
SK40-03-72-05	SK 40	5	h4	80	11	17,5	10	-	-	-
SK40-03-72-06	SK 40	6	h6	80	12	18,5	22	36	10	M5x0,8
SK40-03-72-08	SK 40	8	h6	80	14	20,5	26	36	10	M6x1
SK40-03-72-10	SK 40	10	h6	80	16	22,5	31	41	10	M8x1
SK40-03-72-12	SK 40	12	h6	80	18	24,5	36	46	10	M10x1
SK40-03-72-03-1	SK 40	3	h4	120	9	19,5	6	-	-	-
SK40-03-72-04-1	SK 40	4	h4	120	10	20,5	8	-	-	-
SK40-03-72-05-1	SK 40	5	h4	120	11	21,5	10	-	-	-
SK40-03-72-06-1	SK 40	6	h6	120	12	22,5	22	36	10	M5x0,8
SK40-03-72-08-1	SK 40	8	h6	120	14	24,5	26	36	10	M6x1
SK40-03-72-10-1	SK 40	10	h6	120	16	26,5	31	41	10	M8x1
SK40-03-72-12-1	SK 40	12	h6	120	18	28,5	36	46	10	M10x1
SK40-03-72-06-2	SK 40	6	h6	160	12	26,5	22	36	10	M5x0,8
SK40-03-72-08-2	SK 40	8	h6	160	14	28,5	26	36	10	M6x1
SK40-03-72-10-2	SK 40	10	h6	160	16	30,5	31	41	10	M8x1
SK40-03-72-12-2	SK 40	12	h6	160	18	32,5	36	46	10	M10x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

Version: slim design (reduced interference contour)

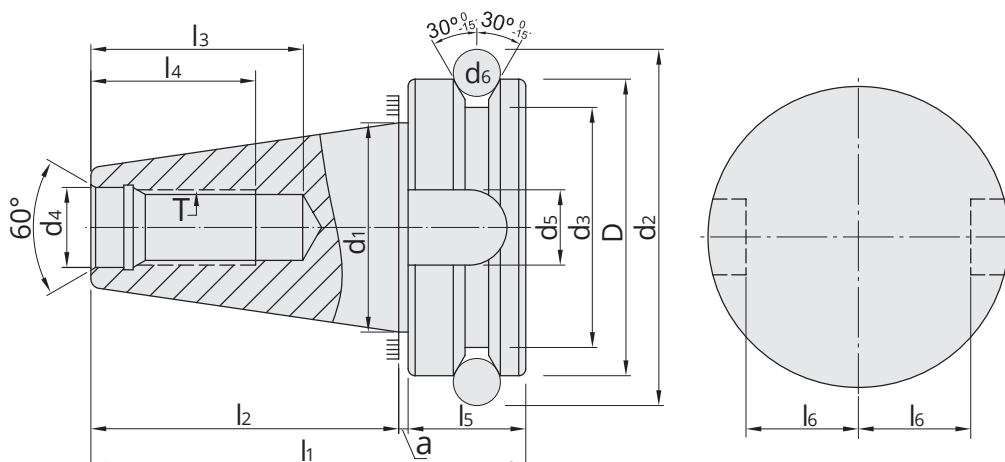
For Ø 3, 4 and 5 mm only solid carbide tool shanks must be used

Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 3, 4, 5 with h4-tolerance and Ø 6–Ø 12 with h6-tolerance

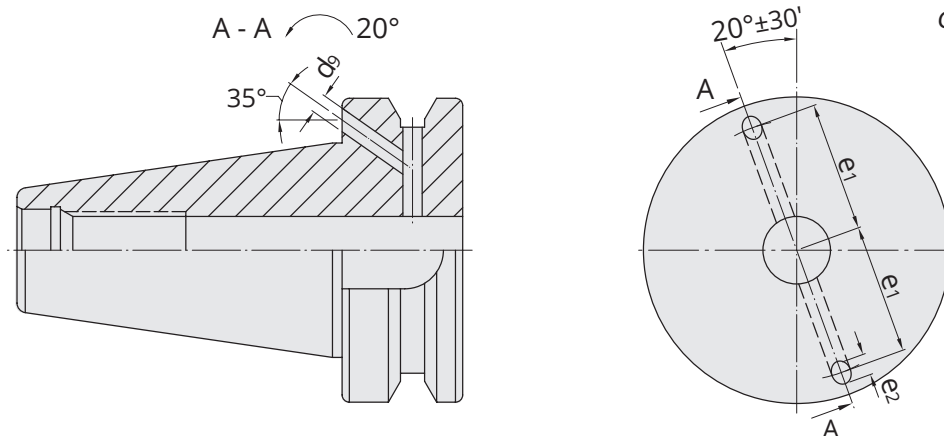


Toolholders ISO 7388-2 (formerly JIS B 6339 MAS-BT)



2


SK	D	d_1	d_2	d_3	d_4	d_5	d_6	d_9	a	l_1	l_2	l_3	l_4	l_5	l_6	e_1	e_2	T
	H8				H8	H12		H12	$\pm 0,4$		$\pm 0,2$	min	min		$\begin{smallmatrix} 0 \\ -0,2 \end{smallmatrix}$	$\pm 0,1$	max	
30	46	31,75	56,14	38	12,5	16,1	8	-	2	70,4	48,4	34	24	20	16,3	-	-	M12
40	63	44,45	75,679	53	17	16,1	10	4	2	92,4	65,4	43	30	25	22,6	27	5	M16
50	100	69,85	119,02	85	25	25,7	15	6	3	139,8	101,8	62	45	35	35,4	42	7	M24

With internal coolant through the collar - form JD/JF (AD/B)
Pre-balanced
G 6,3 15.000 min⁻¹
G 2.5 Fine balancing at extra charge


Material: *Alloyed case-hardened steel, tensile core strength of min. 950 N/mm². Case hardened HRC 60 $\pm$ 2 (HV 700 $\pm$ 50), hardening depth 0.8 mm $\pm$ 0.2 mm, black-finished and precisely grinded.*

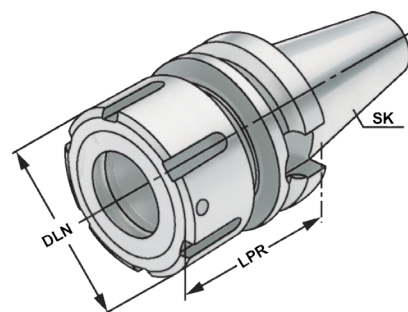
Form JD/JF: *Delivery in form JD (AD), form JF (B) closed with releasable headless screws.*

Accuracy: *Quality of taper < AT 3 according to DIN 7187 and DIN 2080.*

2.05	2.06	2.09	2.10
			
2.11	2.12	2.13	2.17
			
2.20	2.21	2.22	2.23
			
2.25	2.27	2.29	2.30
			
2.31	2.32	2.33	2.34
			
2.35	2.36	2.37	2.39
			
2.40	2.42	2.43	2.47
			
2.48			
			

2


Application:
For mounting straight-shank tools in
collets.



ISO 7388-2

Form JD/JF
(AD/B)

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

G2.5
25.000
min⁻¹

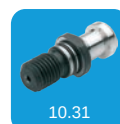
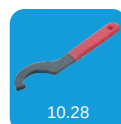
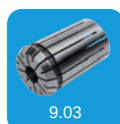
ISO 10897

i
Ch. 11

Order no.	SK	DCONWS Capacity	Typ	LPR	DLN	THID
BT30-05-01-16*	BT 30	2 – 16	415E OZ 16	60	43	M16 x 2,0
BT30-05-01-25*	BT 30	2 – 25	462E OZ 25	90	60	M16 x 2,0
BT40-06-01-16	BT 40	2 – 16	415E OZ 16	70	43	M16 x 2,0
BT40-06-01-25	BT 40	2 – 25	462E OZ 25	70	60	M16 x 2,0
BT40-06-01-32	BT 40	3 – 32	467E OZ 32	90	72	M16 x 2,0
BT50-06-01-25	BT 50	2 – 25	462E OZ 25	85	60	M16 x 2,0
BT50-06-01-32	BT 50	3 – 32	467E OZ 32	90	72	M16 x 2,0

* Form JD (AD)

Delivery: With ball bearing clamping nut



Collet chucks for collets

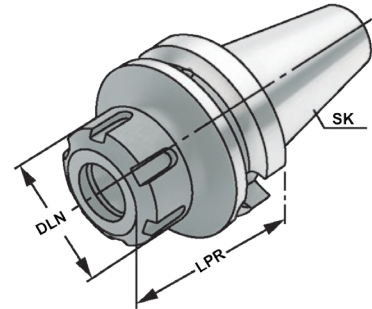
ISO 15488 (DIN 6499) ER-system

ISO 7388-2

(JIS B 6339)



Application:
For mounting straight-shank tools in
collets.



2

ISO
7388-2

Form
JD
(AD)

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

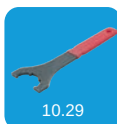
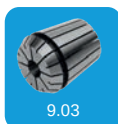
G2.5
25,000
min⁻¹

ISO
15488

i
Ch. 11

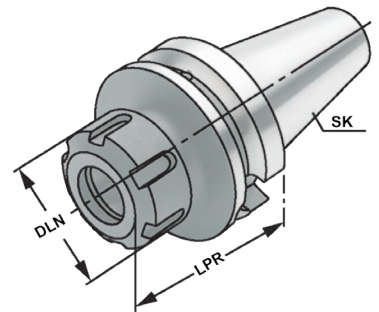
Order no.	SK	DCONWS Capacity	Typ	LPR	DLN	THID
BT30-05-02-10	BT 30	1 – 10	426E ER 16	70	32	M10 x 1,5
BT30-05-02-13	BT 30	2 – 13	428E ER 20	70	35	M12 x 1,75
BT30-05-02-16	BT 30	2 – 16	430E ER 25	70	42	M16 x 2,0
BT30-05-02-20	BT 30	2 – 20	470E ER 32	70	50	M16 x 2,0
BT30-05-02-26	BT 30	3 – 26	472E ER 40	70	63	M16 x 2,0
BT30-05-02-10-1	BT 30	1 – 10	426E ER 16	100	32	M10 x 1,5
BT30-05-02-13-1	BT 30	2 – 13	428E ER 20	100	35	M12 x 1,75
BT30-05-02-16-1	BT 30	2 – 16	430E ER 25	100	42	M16 x 2,0
BT30-05-02-20-1	BT 30	2 – 20	470E ER 32	100	50	M16 x 2,0
BT40-05-02-10	BT 40	1 – 10	426E ER 16	63	32	M10 x 1,5
BT40-05-02-13	BT 40	2 – 13	428E ER 20	70	35	M12 x 1,75
BT40-05-02-16	BT 40	2 – 16	430E ER 25	60	42	M16 x 2,0
BT40-05-02-20	BT 40	2 – 20	470E ER 32	70	50	M16 x 2,0
BT40-05-02-26	BT 40	3 – 26	472E ER 40	80	63	M16 x 2,0
BT40-05-02-10-1	BT 40	1 – 10	426E ER 16	100	32	M10 x 1,5
BT40-05-02-13-1	BT 40	2 – 13	428E ER 20	100	35	M12 x 1,75
BT40-05-02-16-1	BT 40	2 – 16	430E ER 25	100	42	M16 x 2,0
BT40-05-02-20-1	BT 40	2 – 20	470E ER 32	100	50	M16 x 2,0
BT40-05-02-26-1	BT 40	3 – 26	472E ER 40	100	63	M16 x 2,0

Delivery: With balanced clamping nut



2


Application:
For mounting straight-shank tools in
collets.



ISO 7388-2

Form
JD/JF
(AD/B)

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

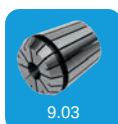
G2.5
25.000
min⁻¹

ISO 15488

i
Ch. 11

Order no.	SK	DCONWS Capacity	Typ	LPR	DLN	THID
BT40-06-02-10	BT 40	1 – 10	426E ER 16	63	32	M10 x 1,5
BT40-06-02-13	BT 40	2 – 13	428E ER 20	70	35	M12 x 1,75
BT40-06-02-16	BT 40	2 – 16	430E ER 25	60	42	M16 x 2,0
BT40-06-02-20	BT 40	2 – 20	470E ER 32	70	50	M16 x 2,0
BT40-06-02-26	BT 40	3 – 26	472E ER 40	80	63	M16 x 2,0
BT40-06-02-10-1	BT 40	1 – 10	426E ER 16	100	32	M10 x 1,5
BT40-06-02-13-1	BT 40	2 – 13	428E ER 20	100	35	M12 x 1,75
BT40-06-02-16-1	BT 40	2 – 16	430E ER 25	100	42	M16 x 2,0
BT40-06-02-20-1	BT 40	2 – 20	470E ER 32	100	50	M16 x 2,0
BT40-06-02-26-1	BT 40	3 – 26	472E ER 40	100	63	M16 x 2,0
BT40-06-02-10-2	BT 40	1 – 10	426E ER 16	160	32	M10 x 1,5
BT40-06-02-13-2	BT 40	2 – 13	428E ER 20	160	35	M12 x 1,75
BT40-06-02-16-2	BT 40	2 – 16	430E ER 25	160	42	M16 x 2,0
BT40-06-02-20-2	BT 40	2 – 20	470E ER 32	160	50	M16 x 2,0
BT40-06-02-26-2	BT 40	3 – 26	472E ER 40	160	63	M16 x 2,0
BT40-06-02-10-3	BT 40	1 – 10	426E ER 16	200	32	M10 x 1,5
BT40-06-02-13-3	BT 40	2 – 13	428E ER 20	200	35	M12 x 1,75
BT40-06-02-16-3	BT 40	2 – 16	430E ER 25	200	42	M16 x 2,0
BT40-06-02-20-3	BT 40	2 – 20	470E ER 32	200	50	M16 x 2,0
BT40-06-02-26-3	BT 40	3 – 26	472E ER 40	200	63	M16 x 2,0

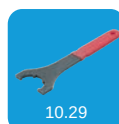
Delivery: With balanced clamping nut



9.03



10.10



10.29



10.70



10.31

Collet chucks for collets

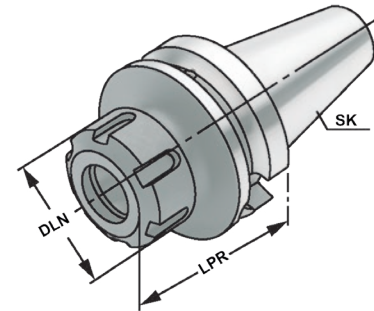
ISO 15488 (DIN 6499) ER-system

ISO 7388-2

(JIS B 6339)



Application:
For mounting straight-shank tools in
collets.



2

ISO
7388-2

Form
JD/JF
(AD/B)

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

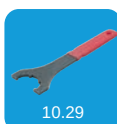
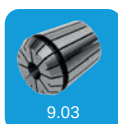
G2.5
25.000
min⁻¹

ISO
15488

i
Ch. 11

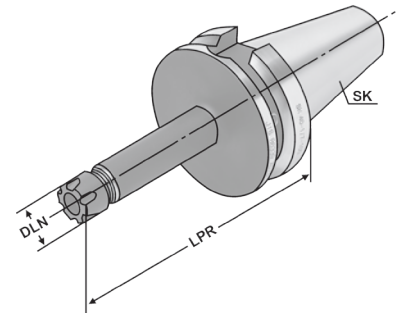
Order no.	SK	DCONWS Capacity	Typ	LPR	DLN	THID
BT50-06-02-13	BT 50	2 – 13	428E ER 20	70	35	M12 x 1,75
BT50-06-02-16	BT 50	2 – 16	430E ER 25	70	42	M16 x 2,0
BT50-06-02-20	BT 50	2 – 20	470E ER 32	70	50	M16 x 2,0
BT50-06-02-26	BT 50	3 – 26	472E ER 40	80	63	M16 x 2,0
BT50-06-02-10-1	BT 50	1 – 10	426E ER 16	100	32	M10 x 1,5
BT50-06-02-13-1	BT 50	2 – 13	428E ER 20	100	35	M12 x 1,75
BT50-06-02-16-1	BT 50	2 – 16	430E ER 25	100	42	M16 x 2,0
BT50-06-02-20-1	BT 50	2 – 20	470E ER 32	100	50	M16 x 2,0
BT50-06-02-26-1	BT 50	3 – 26	472E ER 40	100	63	M16 x 2,0
BT50-06-02-10-2	BT 50	1 – 10	426E ER 16	160	32	M10 x 1,5
BT50-06-02-13-2	BT 50	2 – 13	428E ER 20	160	35	M12 x 1,75
BT50-06-02-16-2	BT 50	2 – 16	430E ER 25	160	42	M16 x 2,0
BT50-06-02-20-2	BT 50	2 – 20	470E ER 32	160	50	M16 x 2,0
BT50-06-02-26-2	BT 50	3 – 26	472E ER 40	160	63	M16 x 2,0
BT50-06-02-10-3	BT 50	1 – 10	426E ER 16	200	32	M10 x 1,5
BT50-06-02-13-3	BT 50	2 – 13	428E ER 20	200	35	M12 x 1,75
BT50-06-02-16-3	BT 50	2 – 16	430E ER 25	200	42	M16 x 2,0
BT50-06-02-20-3	BT 50	2 – 20	470E ER 32	200	50	M16 x 2,0
BT50-06-02-26-3	BT 50	3 – 26	472E ER 40	200	63	M16 x 2,0

Delivery: With balanced clamping nut



2


Application:
For mounting straight-shank tools in
collets.



ISO 7388-2

Form
JD/JF
(AD/B)

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

G2.5
25.000
min⁻¹

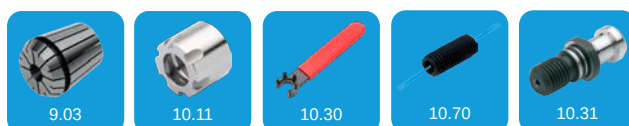
ISO 15488

i
Ch. 11

Order no.	SK	DCONWS Capacity	Typ	LPR	DLN	THID
BT30-05-02-07*	BT 30	1 – 7	4008E ER 11	70	16	M8 x 1,25
BT30-05-02-07-1*	BT 30	1 – 7	4008E ER 11	100	16	M8 x 1,25
BT30-05-02-07-10*	BT 30	1 – 10	426E ER 16	70	22	7/16" 20 UNF
BT30-05-02-07-10-1*	BT 30	1 – 10	426E ER 16	100	22	7/16" 20 UNF
BT40-06-02-07	BT 40	1 – 7	4008E ER 11	63	16	M8 x 1,25
BT40-06-02-07-1	BT 40	1 – 7	4008E ER 11	100	16	M8 x 1,25
BT40-06-02-07-2	BT 40	1 – 7	4008E ER 11	160	16	M8 x 1,25
BT40-06-02-07-10	BT 40	1 – 10	426E ER 16	55	22	7/16" 20 UNF
BT40-06-02-07-10-1	BT 40	1 – 10	426E ER 16	100	22	7/16" 20 UNF
BT40-06-02-07-10-2	BT 40	1 – 10	426E ER 16	160	22	7/16" 20 UNF
BT40-06-02-07-13	BT 40	2 – 13	428E ER 20	70	28	9/16" 18 UNF
BT40-06-02-07-13-1	BT 40	2 – 13	428E ER 20	100	28	9/16" 18 UNF
BT40-06-02-07-13-2	BT 40	2 – 13	428E ER 20	160	28	9/16" 18 UNF
BT40-06-02-07-16	BT 40	2 – 16	430E ER 25	70	35	11/16" 16 UN
BT40-06-02-07-16-1	BT 40	2 – 16	430E ER 25	100	35	11/16" 16 UN
BT40-06-02-07-16-2	BT 40	2 – 16	430E ER 25	160	35	11/16" 16 UN

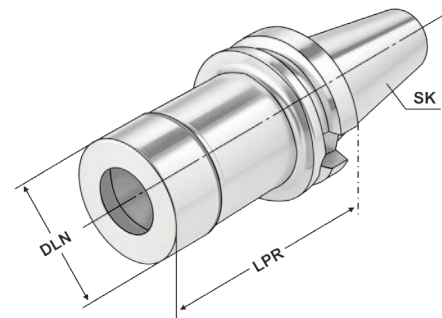
* Form JD (AD)

Delivery: With balanced clamping nut and adjusting screw





Application:
For mounting straight-shank tools in
3 µm-collets.



2

 ISO
7388-2

 Form
JD
(AD)

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

 G2.5
 25.000
 min⁻¹

 ISO
15488

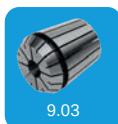
Order no.	SK	DCONWS Capacity	Typ	LPR	LB	DLN	THID
BT30-05-P2-20-070	BT 30	2 – 20	470E ER 32	70	48	50	M16 x 2,0
BT40-05-P2-20-070	BT 40	2 – 20	470E ER 32	70	43	50	M16 x 2,0
BT40-05-P2-20-100	BT 40	2 – 20	470E ER 32	100	73	50	M16 x 2,0
BT40-05-P2-20-125	BT 40	2 – 20	470E ER 32	125	98	50	M16 x 2,0
BT40-05-P2-20-150	BT 40	2 – 20	470E ER 32	150	123	50	M16 x 2,0
BT40-05-P2-20-200	BT 40	2 – 20	470E ER 32	200	173	50	M16 x 2,0
BT50-05-P2-20-070	BT 50	2 – 20	470E ER 32	70	32	50	M16 x 2,0
BT50-05-P2-20-100	BT 50	2 – 20	470E ER 32	100	62	50	M16 x 2,0
BT50-05-P2-20-125	BT 50	2 – 20	470E ER 32	125	87	50	M16 x 2,0
BT50-05-P2-20-150	BT 50	2 – 20	470E ER 32	150	112	50	M16 x 2,0
BT50-05-P2-20-200	BT 50	2 – 20	470E ER 32	200	162	50	M16 x 2,0

Advantages:

- Excellent concentricity in the system (chuck + collet + clamping nut)
- Extremely strong holding force (increases the holding power by at least 60% compared to standard ER chuck)
- Plain clamping nut without grooves for high speed machining

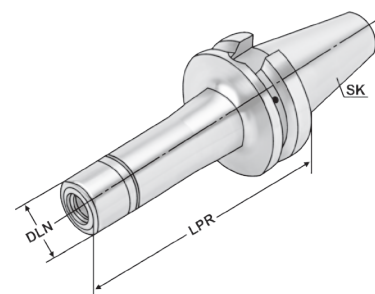
Note: Only nominal size DCONWS can be clamped.

Delivery: With precision clamping nut



2


Application:
For mounting straight-shank tools in collets.
To use for high speed cutting and high precision milling.


ISO
7388-2

Form
JD
(AD)

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

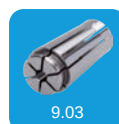
G2.5
30.000
min⁻¹

KPS

i
Ch. 11

Order no.	SK	DCONWS Capacity	Typ	LPR	DLN	THID
BT30-05-03-10	BT 30	1 – 10	490EK KPS 10	60	27,5	M12 x 1,75
BT30-05-03-16	BT 30	4 – 16	496EK KPS 16	60	40	M18 x 1,50
BT30-05-03-10-1	BT 30	1 – 10	490EK KPS 10	90	27,5	M12 x 1,75
BT30-05-03-16-1	BT 30	4 – 16	496EK KPS 16	90	40	M18 x 1,50
BT40-05-03-10	BT 40	1 – 10	490EK KPS 10	60	27,5	M12 x 1,75
BT40-05-03-16	BT 40	4 – 16	496EK KPS 16	60	40	M18 x 1,50
BT40-05-03-10-1	BT 40	1 – 10	490EK KPS 10	90	27,5	M12 x 1,75
BT40-05-03-16-1	BT 40	4 – 16	496EK KPS 16	90	40	M18 x 1,50
BT40-05-03-10-2	BT 40	1 – 10	490EK KPS 10	120	27,5	M12 x 1,75
BT40-05-03-16-2	BT 40	4 – 16	496EK KPS 16	120	40	M18 x 1,50
BT40-05-03-10-3	BT 40	1 – 10	490EK KPS 10	160	27,5	M12 x 1,75
BT40-05-03-16-3	BT 40	4 – 16	496EK KPS 16	160	40	M18 x 1,50
BT50-05-03-10	BT 50	1 – 10	490EK KPS 10	105	27,5	M12 x 1,75
BT50-05-03-16	BT 50	4 – 16	496EK KPS 16	105	40	M18 x 1,50
BT50-05-03-10-1	BT 50	1 – 10	490EK KPS 10	135	27,5	M12 x 1,75
BT50-05-03-16-1	BT 50	4 – 16	496EK KPS 16	135	40	M18 x 1,50
BT50-05-03-10-2	BT 50	1 – 10	490EK KPS 10	165	27,5	M12 x 1,75
BT50-05-03-16-2	BT 50	4 – 16	496EK KPS 16	165	40	M18 x 1,50

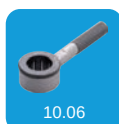
Delivery: With balanced clamping nut



9.03



10.05



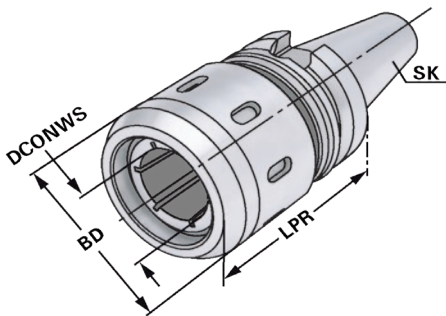
10.06



10.31



Application:
For mounting straight-shank tools acc. DIN
1835 form A+B+E and DIN 6535 form HB+HE



2

ISO 7388-2

Form JD/JF (AD/B)

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

G6.3 15.000 min⁻¹

HKS

i
Ch. 11

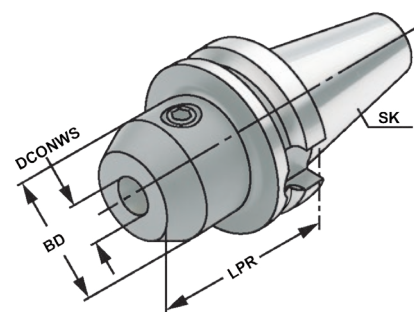
Order no.	SK	DCONWS Capacity	Typ	DCONWS	LPR	BD
BT40-06-64-20	BT 40	3 – 20	HKS 20	20	90	53
BT40-06-64-25	BT 40	3 – 25	HKS 25	25	90	63
BT40-06-64-32	BT 40	3 – 32	HKS 32	32	90	68
BT50-06-64-20	BT 50	3 – 20	HKS 20	20	95	53
BT50-06-64-25	BT 50	3 – 25	HKS 25	25	95	63
BT50-06-64-32	BT 50	3 – 32	HKS 32	32	90	68

Size	20mm	25mm	32mm
Clamping torque	50-70 Nm	80-100 Nm	80-100 Nm
Clamping force	780 Nm	2000 Nm	2000 Nm



2


Application:
For mounting straight-shank tools with
lateral flat according to DIN 1835 form B
(Weldon).



ISO 7388-2

Form JD (AD)

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

G2.5
25.000
min⁻¹

DIN 1835-B

H4

i
Ch. 11

Order no.	SK	DCONWS	TDCON	LPR	BD
BT30-05-04-06	BT 30	6	H4	50	25
BT30-05-04-08	BT 30	8	H4	50	28
BT30-05-04-10	BT 30	10	H4	50	35
BT30-05-04-12	BT 30	12	H4	50	42
BT30-05-04-14	BT 30	14	H4	50	44
BT30-05-04-16	BT 30	16	H4	63	48
BT30-05-04-18	BT 30	18	H4	63	50
BT30-05-04-20	BT 30	20	H4	63	52
BT40-05-04-06	BT 40	6	H4	50	25
BT40-05-04-08	BT 40	8	H4	50	28
BT40-05-04-10	BT 40	10	H4	63	35
BT40-05-04-12	BT 40	12	H4	63	42
BT40-05-04-14	BT 40	14	H4	63	44
BT40-05-04-16	BT 40	16	H4	63	48
BT40-05-04-18	BT 40	18	H4	63	50
BT40-05-04-20	BT 40	20	H4	63	52
BT40-05-04-25	BT 40	25	H4	90	65
BT40-05-04-32	BT 40	32	H4	100	72
BT40-05-04-06-1	BT 40	6	H4	100	25
BT40-05-04-08-1	BT 40	8	H4	100	28
BT40-05-04-10-1	BT 40	10	H4	100	35
BT40-05-04-12-1	BT 40	12	H4	100	42
BT40-05-04-14-1	BT 40	14	H4	100	44
BT40-05-04-16-1	BT 40	16	H4	100	48
BT40-05-04-18-1	BT 40	18	H4	100	50
BT40-05-04-20-1	BT 40	20	H4	100	52

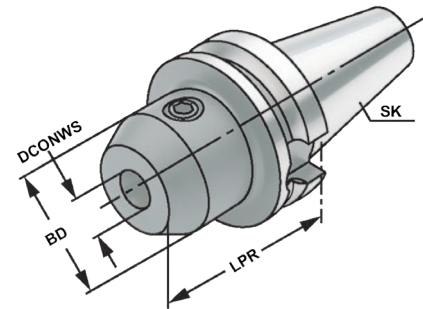
Note: From DCONWS = 25 on two clamping screws

Delivery: With clamping screw





Application:
For mounting straight-shank tools with
lateral flat according to DIN 1835 form B
(Weldon).


2

ISO
7388-2

Form
JD/JF
(AD/B)

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

G2.5
25.000
min⁻¹

DIN
1835-B

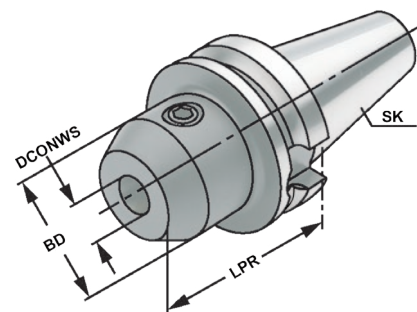
H4

i
Ch. 11

Order no.	SK	DCONWS	TDCON	LPR	BD
BT40-06-04-16-0	BT 40	16	H4	35	45
BT40-06-04-20-0	BT 40	20	H4	35	45
BT40-06-04-25-0	BT 40	25	H4	35	45
BT40-06-04-32-0	BT 40	32	H4	65	62
BT40-06-04-06	BT 40	6	H4	50	25
BT40-06-04-08	BT 40	8	H4	50	28
BT40-06-04-10	BT 40	10	H4	63	35
BT40-06-04-12	BT 40	12	H4	63	42
BT40-06-04-14	BT 40	14	H4	63	44
BT40-06-04-16	BT 40	16	H4	63	48
BT40-06-04-18	BT 40	18	H4	63	50
BT40-06-04-20	BT 40	20	H4	63	52
BT40-06-04-25	BT 40	25	H4	90	65
BT40-06-04-32	BT 40	32	H4	100	72
BT40-06-04-40	BT 40	40	H4	120	80
BT40-06-04-06-1	BT 40	6	H4	100	25
BT40-06-04-08-1	BT 40	8	H4	100	28
BT40-06-04-10-1	BT 40	10	H4	100	35
BT40-06-04-12-1	BT 40	12	H4	100	42
BT40-06-04-14-1	BT 40	14	H4	100	44
BT40-06-04-16-1	BT 40	16	H4	100	48
BT40-06-04-18-1	BT 40	18	H4	100	50
BT40-06-04-20-1	BT 40	20	H4	100	52
BT40-06-04-06-2	BT 40	6	H4	160	25
BT40-06-04-08-2	BT 40	8	H4	160	28
BT40-06-04-10-2	BT 40	10	H4	160	35
BT40-06-04-12-2	BT 40	12	H4	160	42
BT40-06-04-14-2	BT 40	14	H4	160	44
BT40-06-04-16-2	BT 40	16	H4	160	48
BT40-06-04-18-2	BT 40	18	H4	160	50
BT40-06-04-20-2	BT 40	20	H4	160	52
BT40-06-04-25-2	BT 40	25	H4	160	65
BT40-06-04-32-2	BT 40	32	H4	160	72
BT40-06-04-40-2	BT 40	40	H4	160	80

2


Application:
For mounting straight-shank tools with
lateral flat according to DIN 1835 form B
(Weldon).


ISO
7388-2

Form
JD/JF
(AD/B)

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

G2.5
25.000
min⁻¹

DIN
1835-B

H4

i
Ch. 11

Order no.	SK	DCONWS	TDCON	LPR	BD
BT50-06-04-06	BT 50	6	H4	63	25
BT50-06-04-08	BT 50	8	H4	63	28
BT50-06-04-10	BT 50	10	H4	63	35
BT50-06-04-12	BT 50	12	H4	80	42
BT50-06-04-14	BT 50	14	H4	80	44
BT50-06-04-16	BT 50	16	H4	80	48
BT50-06-04-18	BT 50	18	H4	80	50
BT50-06-04-20	BT 50	20	H4	80	52
BT50-06-04-25	BT 50	25	H4	100	65
BT50-06-04-32	BT 50	32	H4	105	72
BT50-06-04-40	BT 50	40	H4	110	80
BT50-06-04-06-1	BT 50	6	H4	100	25
BT50-06-04-08-1	BT 50	8	H4	100	28
BT50-06-04-10-1	BT 50	10	H4	100	35
BT50-06-04-12-1	BT 50	12	H4	100	42
BT50-06-04-14-1	BT 50	14	H4	100	44
BT50-06-04-16-1	BT 50	16	H4	100	48
BT50-06-04-18-1	BT 50	18	H4	100	50
BT50-06-04-20-1	BT 50	20	H4	100	52
BT50-06-04-06-2	BT 50	6	H4	160	25
BT50-06-04-08-2	BT 50	8	H4	160	28
BT50-06-04-10-2	BT 50	10	H4	160	35
BT50-06-04-12-2	BT 50	12	H4	160	42
BT50-06-04-14-2	BT 50	14	H4	160	44
BT50-06-04-16-2	BT 50	16	H4	160	48
BT50-06-04-18-2	BT 50	18	H4	160	50
BT50-06-04-20-2	BT 50	20	H4	160	52
BT50-06-04-25-2	BT 50	25	H4	160	65
BT50-06-04-32-2	BT 50	32	H4	160	72
BT50-06-04-40-2	BT 50	40	H4	160	80

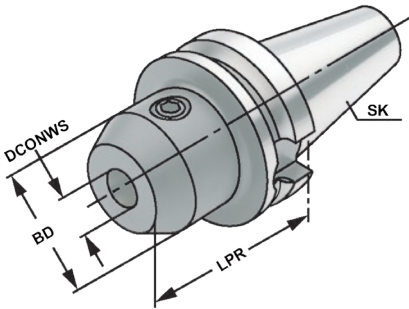
Note: From DCONWS = 25 on two clamping screws

Delivery: With clamping screw





Application:
For mounting straight-shank tools with
lateral flat according to DIN 1835 form B
(Weldon).



2

ISO 7388-2

Form JD/JF (AD/B)

≤3μm

G2.5 25.000 min⁻¹

DIN 1835-B

H4

i
Ch. 11

Order no.	SK	DCONWS	TDCON	LPR	BD
BT50-06-04-06-3	BT 50	6	H4	200	25
BT50-06-04-08-3	BT 50	8	H4	200	28
BT50-06-04-10-3	BT 50	10	H4	200	35
BT50-06-04-12-3	BT 50	12	H4	200	42
BT50-06-04-14-3	BT 50	14	H4	200	44
BT50-06-04-16-3	BT 50	16	H4	200	48
BT50-06-04-18-3	BT 50	18	H4	200	50
BT50-06-04-20-3	BT 50	20	H4	200	52
BT50-06-04-25-3	BT 50	25	H4	200	65
BT50-06-04-32-3	BT 50	32	H4	200	72
BT50-06-04-40-3	BT 50	40	H4	200	80

Note: From DCONWS = 25 on two clamping screws

Delivery: With clamping screw



End mill holders DIN 6359 with coolant channels

- for end mills DIN 1835-B

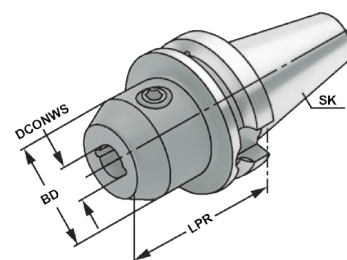
ISO 7388-2

(JIS B 6339)

2



Application:
For mounting straight-shank tools with lateral flat according to DIN 1835 form B (Weldon). With coolant channels for optimal coolant at the cutting edge.



Order no.	SK	DCONWS	TDCON	LPR	BD
BT40-06-04-06-CC	BT 40	6	H4	63	25
BT40-06-04-08-CC	BT 40	8	H4	63	28
BT40-06-04-10-CC	BT 40	10	H4	63	35
BT40-06-04-12-CC	BT 40	12	H4	80	42
BT40-06-04-14-CC	BT 40	14	H4	80	44
BT40-06-04-16-CC	BT 40	16	H4	80	48
BT40-06-04-18-CC	BT 40	18	H4	80	50
BT40-06-04-20-CC	BT 40	20	H4	80	52
BT40-06-04-25-CC	BT 40	25	H4	100	65
BT40-06-04-32-CC	BT 40	32	H4	105	72
BT40-06-04-40-CC	BT 40	40	H4	110	80
BT40-06-04-06-1-CC	BT 40	6	H4	100	25
BT40-06-04-08-1-CC	BT 40	8	H4	100	28
BT40-06-04-10-1-CC	BT 40	10	H4	100	35
BT40-06-04-12-1-CC	BT 40	12	H4	100	42
BT40-06-04-14-1-CC	BT 40	14	H4	100	44
BT40-06-04-16-1-CC	BT 40	16	H4	100	48
BT40-06-04-18-1-CC	BT 40	18	H4	100	50
BT40-06-04-20-1-CC	BT 40	20	H4	100	52

Note:
From DCONWS = 25 on two clamping screws
DCONWS = 6 to 18 with two coolant channels
DCONWS = 20 to 40 with four coolant channels
For tools with through coolant an O-ring must be used.

Delivery: With clamping screw and O-ring



End mill holders DIN 6359 with coolant channels

- for end mills DIN 1835-B

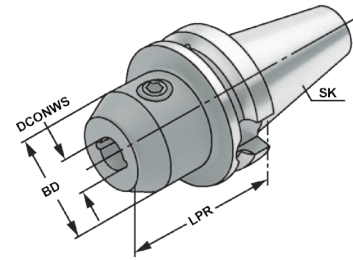
ISO 7388-2

(JIS B 6339)



Application:

For mounting straight-shank tools with lateral flat according to DIN 1835 form B (Weldon). With coolant channels for optimal coolant at the cutting edge.



2



Order no.	SK	DCONWS	TDCON	LPR	BD
BT50-06-04-06-CC	BT 50	6	H4	63	25
BT50-06-04-08-CC	BT 50	8	H4	63	28
BT50-06-04-10-CC	BT 50	10	H4	63	35
BT50-06-04-12-CC	BT 50	12	H4	80	42
BT50-06-04-14-CC	BT 50	14	H4	80	44
BT50-06-04-16-CC	BT 50	16	H4	80	48
BT50-06-04-18-CC	BT 50	18	H4	80	50
BT50-06-04-20-CC	BT 50	20	H4	80	52
BT50-06-04-25-CC	BT 50	25	H4	100	65
BT50-06-04-32-CC	BT 50	32	H4	105	72
BT50-06-04-40-CC	BT 50	40	H4	110	80

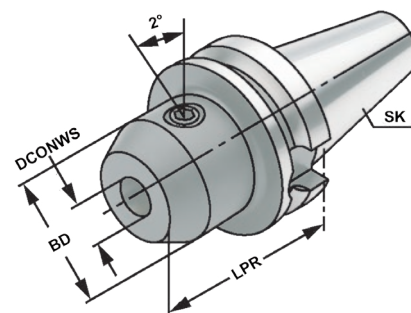
Note: From DCONWS = 25 on two clamping screws
 DCONWS = 6 to 18 with two coolant channels
 DCONWS = 20 to 40 with four coolant channels
 For tools with through coolant an O-ring must be used.

Delivery: With clamping screw and O-ring



2


Application:
For mounting straight-shank tools and
inclined flat according to DIN 1835 form E
(Whistle Notch).



ISO 7388-2

Form
JD/JF
(AD/B)

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

G2.5
25.000
min⁻¹

DIN
1835-E

H4

i
Ch. 11

Order no.	SK	DCONWS	TDCON	LPR	BD
BT40-06-05-06	BT 40	6	H4	50	25
BT40-06-05-08	BT 40	8	H4	50	28
BT40-06-05-10	BT 40	10	H4	63	35
BT40-06-05-12	BT 40	12	H4	63	42
BT40-06-05-14	BT 40	14	H4	63	44
BT40-06-05-16	BT 40	16	H4	63	48
BT40-06-05-18	BT 40	18	H4	63	50
BT40-06-05-20	BT 40	20	H4	63	52
BT40-06-05-25	BT 40	25	H4	90	65
BT40-06-05-32	BT 40	32	H4	100	72
BT40-06-05-40	BT 40	40	H4	120	80
BT50-06-05-06	BT 50	6	H4	63	25
BT50-06-05-08	BT 50	8	H4	63	28
BT50-06-05-10	BT 50	10	H4	63	35
BT50-06-05-12	BT 50	12	H4	80	42
BT50-06-05-14	BT 50	14	H4	80	44
BT50-06-05-16	BT 50	16	H4	80	48
BT50-06-05-18	BT 50	18	H4	80	50
BT50-06-05-20	BT 50	20	H4	80	52
BT50-06-05-25	BT 50	25	H4	100	65
BT50-06-05-32	BT 50	32	H4	105	72
BT50-06-05-40	BT 50	40	H4	110	80

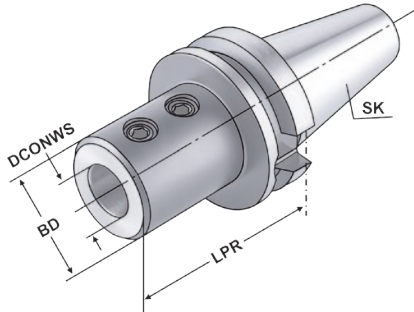
Note: From DCONWS = 25 on two clamping screws

Delivery: With clamping screw and axial adjustment bolt





Application:
For mounting solid drills with cylindrical
shank according to DIN 6595.



2

ISO
7388-2

Form
JD/JF
(AD/B)

$\leq 4\mu\text{m}$

G6.3
15.000
min⁻¹

ISO
9766

E1

H4

Order no.	SK	DCONWS	TDCON	LPR	BD
BT40-06-51-20	BT 40	20	H4	70	40
BT40-06-51-25	BT 40	25	H4	76	45
BT40-06-51-32	BT 40	32	H4	80	52
BT40-06-51-40	BT 40	40	H4	100	65

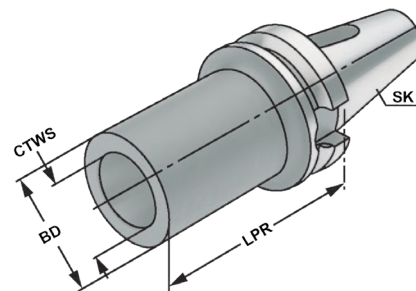
Note: Contact surface precision grinded

Delivery: With clamping screws



2


Application:
For mounting tools with Morse taper shank
and tang according to DIN 228-1 form B.



ISO 7388-2

Form
JD/JF
(AD/B)

 $\leq 5\mu\text{m}$

G6.3
15.000
min⁻¹

DIN
6383

AT5

Order no.	SK	CTWS	TDCON	LPR	BD
BT30-05-07-01*	BT 30	1	AT5	45	25
BT30-05-07-02*	BT 30	2	AT5	60	32
BT30-05-07-03*	BT 30	3	AT5	75	40
BT40-05-07-01*	BT 40	1	AT5	50	25
BT40-05-07-02*	BT 40	2	AT5	50	32
BT40-05-07-03*	BT 40	3	AT5	70	40
BT40-05-07-04*	BT 40	4	AT5	95	48
BT40-06-07-01	BT 40	1	AT5	50	25
BT40-06-07-02	BT 40	2	AT5	50	32
BT40-06-07-03	BT 40	3	AT5	70	40
BT40-06-07-04	BT 40	4	AT5	95	48
BT50-06-07-01	BT 50	1	AT5	45	25
BT50-06-07-02	BT 50	2	AT5	60	32
BT50-06-07-03	BT 50	3	AT5	65	40
BT50-06-07-04	BT 50	4	AT5	95	48
BT50-06-07-05	BT 50	5	AT5	105	63

* Form JD (AD)



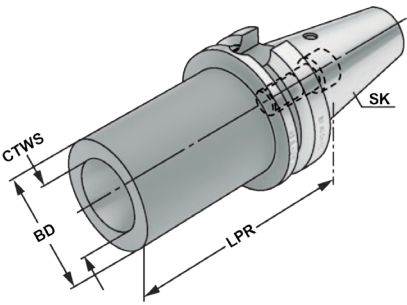
8.12



10.31



Application:
For clamping tools with Morse taper shank
and thread according to DIN 228-1 form A.



2

ISO
7388-2

Form
J
(A)

$\leq 5\mu\text{m}$

G6.3
15.000
min⁻¹

DIN
6364

AT5

Order no.	SK	CTWS	THID	LPR	BD
BT40-05-08-01	BT 40	1	M6	50	25
BT40-05-08-02	BT 40	2	M10	50	32
BT40-05-08-03	BT 40	3	M12	70	40
BT40-05-08-04	BT 40	4	M16	95	48
BT40-05-08-04A*	BT 40	4	M16	110	63
BT50-05-08-01	BT 50	1	M6	45	25
BT50-05-08-02	BT 50	2	M10	60	32
BT50-05-08-03	BT 50	3	M12	65	40
BT50-05-08-04	BT 50	4	M16	70	48
BT50-05-08-04A*	BT 50	4	M16	85	63
BT50-05-08-05	BT 50	5	M20	100	63
BT50-05-08-05A*	BT 50	5	M20	118	78

* With drive flats according to DIN 2201

Delivery: With built-in tightening bolt

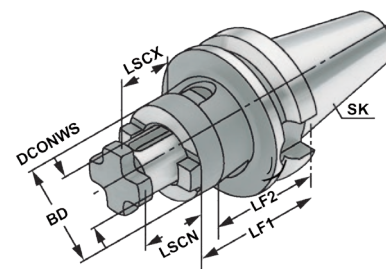
10.73

10.74

10.31

2


Application:
For mounting milling cutters with transverse or longitudinal groove.



ISO 7388-2

Form
JD/JF
(AD/B)

 $\leq 5\mu\text{m}$

G6.3
15.000
min⁻¹

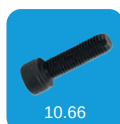
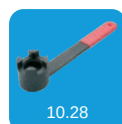
DIN
6358

h6

Order no.	SK	DCONWS	TDCON	LF1	LF2	LSCN	LSCX	BD
BT30-05-10-16*	BT 30	16	h6	45	35	17	27	32
BT30-05-10-22*	BT 30	22	h6	47	35	19	31	40
BT30-05-10-27*	BT 30	27	h6	49	35	21	33	48
BT40-06-10-16	BT 40	16	h6	55	45	17	27	32
BT40-06-10-22	BT 40	22	h6	55	43	19	31	40
BT40-06-10-27	BT 40	27	h6	55	43	21	33	48
BT40-06-10-32	BT 40	32	h6	60	46	24	38	58
BT40-06-10-40	BT 40	40	h6	60	46	27	41	70
BT40-06-10-16-1	BT 40	16	h6	100	90	17	27	32
BT40-06-10-22-1	BT 40	22	h6	100	88	19	31	40
BT40-06-10-27-1	BT 40	27	h6	100	88	21	33	48
BT40-06-10-32-1	BT 40	32	h6	100	86	24	38	58
BT40-06-10-40-1	BT 40	40	h6	100	86	27	41	70
BT40-06-10-16-2	BT 40	16	h6	160	150	17	27	32
BT40-06-10-22-2	BT 40	22	h6	160	148	19	31	40
BT40-06-10-27-2	BT 40	27	h6	160	148	21	33	48
BT40-06-10-32-2	BT 40	32	h6	160	146	24	38	58
BT40-06-10-40-2	BT 40	40	h6	160	146	27	41	70

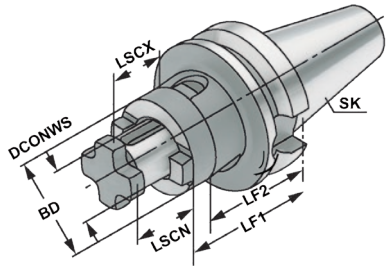
* Form JD (AD)

Delivery: With retaining screw, driving ring and feather key





Application:
For mounting milling cutters with transverse or longitudinal groove.



2

ISO 7388-2

Form JD/JF (AD/B)

$\leq 5\mu\text{m}$

$G6.3$
 15.000
 min^{-1}

DIN 6358

h6

Order no.	SK	DCONWS	TDCON	LF1	LF2	LSCN	LSCX	BD
BT50-06-10-16	BT 50	16	h6	70	60	17	27	32
BT50-06-10-22	BT 50	22	h6	70	58	19	31	40
BT50-06-10-27	BT 50	27	h6	70	58	21	33	48
BT50-06-10-32	BT 50	32	h6	70	56	24	38	58
BT50-06-10-40	BT 50	40	h6	70	56	27	41	70
BT50-06-10-16-2	BT 50	16	h6	160	150	17	27	32
BT50-06-10-22-2	BT 50	22	h6	160	148	19	31	40
BT50-06-10-27-2	BT 50	27	h6	160	148	21	33	48
BT50-06-10-32-2	BT 50	32	h6	160	146	24	38	58
BT50-06-10-40-2	BT 50	40	h6	160	146	27	41	70

Delivery: With retaining screw, driving ring and feather key



Shell mill holders DIN 6357 with enlarged contact face and coolant exit bores on the end face

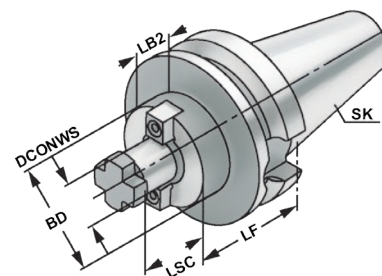
ISO 7388-2

(JIS B 6339)

2



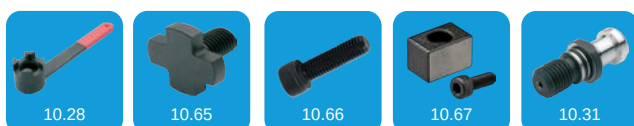
Application:
For mounting milling cutters with
transversal groove.



Order no.	SK	DCONWS	TDCON	LF	LSC	LB2	BD
BT30-05-11-16*	BT 30	16	h6	40	17	18	38
BT30-05-11-22*	BT 30	22	h6	40	19	18	48
BT30-05-11-27*	BT 30	27	h6	40	21	18	58
BT30-05-11-32*	BT 30	32	h6	50	24	28	78
BT40-05-11-16*	BT 40	16	h6	40	17	13	38
BT40-05-11-22*	BT 40	22	h6	40	19	13	48
BT40-05-11-27*	BT 40	27	h6	40	21	13	58
BT40-05-11-32*	BT 40	32	h6	50	24	23	78
BT40-05-11-40*	BT 40	40	h6	50	27	23	88
BT40-06-11-16	BT 40	16	h6	40	17	13	38
BT40-06-11-22	BT 40	22	h6	40	19	13	48
BT40-06-11-27	BT 40	27	h6	40	21	13	58
BT40-06-11-32	BT 40	32	h6	50	24	23	78
BT40-06-11-40	BT 40	40	h6	50	27	23	88
BT40-06-11-16-1	BT 40	16	h6	100	17	73	38
BT40-06-11-22-1	BT 40	22	h6	100	19	73	48
BT40-06-11-27-1	BT 40	27	h6	100	21	73	58
BT40-06-11-32-1	BT 40	32	h6	100	24	73	78
BT40-06-11-40-1	BT 40	40	h6	100	27	73	88
BT40-06-11-16-2	BT 40	16	h6	160	17	133	38
BT40-06-11-22-2	BT 40	22	h6	160	19	133	48
BT40-06-11-27-2	BT 40	27	h6	160	21	133	58
BT40-06-11-32-2	BT 40	32	h6	160	24	133	78
BT40-06-11-40-2	BT 40	40	h6	160	27	133	88

* Form JD (AD)

BT 30 without coolant exit bores on the end face

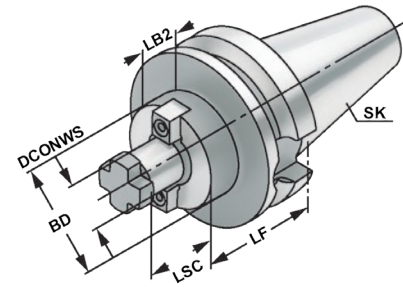


**Shell mill holders DIN 6357 with enlarged contact face
and coolant exit bores on the end face**

ISO 7388-2
(JIS B 6339)



Application:
For mounting milling cutters with
transversal groove.



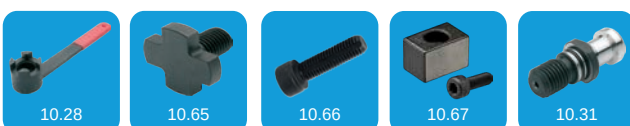
2



Order no.	SK	DCONWS	TDCON	LF	LSC	LB2	BD
BT50-06-11-22	BT 50	22	h6	40	19	2	48
BT50-06-11-27	BT 50	27	h6	40	21	2	58
BT50-06-11-32	BT 50	32	h6	50	24	12	78
BT50-06-11-40	BT 50	40	h6	50	27	12	88
BT50-06-11-60	BT 50	60	h6	80	40	42	129
BT50-06-11-22-1	BT 50	22	h6	100	19	62	48
BT50-06-11-27-1	BT 50	27	h6	100	21	62	58
BT50-06-11-32-1	BT 50	32	h6	100	24	62	78
BT50-06-11-40-1	BT 50	40	h6	100	27	62	88
BT50-06-11-22-2	BT 50	22	h6	160	19	122	48
BT50-06-11-27-2	BT 50	27	h6	160	21	122	58
BT50-06-11-32-2	BT 50	32	h6	160	24	122	78
BT50-06-11-40-2	BT 50	40	h6	160	27	122	88

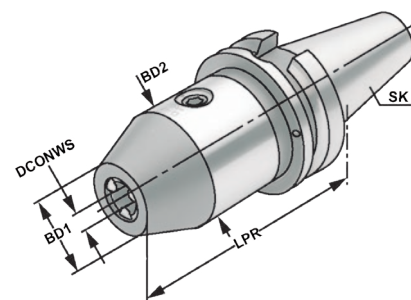
DCONWS=40 & 60 For large diameter face mill cutters with four additional threaded holes according to DIN 2079.

Delivery: With drivers, cross head retaining screw and cylinder head retaining screw
for cutters with central coolant.
For DCONWS=60 only with four fixation screws according to DIN 912.



2


Application:
For mounting tools with straight shanks.


ISO
7388-2

Form
JD
(AD)

 $\leq 30\mu\text{m}$

G6.3
15.000
min⁻¹
i
Ch. 11

Order no.	SK	DCONWS Capacity	LPR	BD1	BD2	DRVS
BT30-05-15-08	BT 30	0,5 – 8	73	23	36	4
BT30-05-15-13	BT 30	1,0 – 13	93	31,0	50	6
BT30-05-15-16	BT 30	2,5 – 16	98	27,5	50	6
BT40-05-15-08	BT 40	0,5 – 8	78	23	36	4
BT40-05-15-13	BT 40	1,0 – 13	98	31,0	50	6
BT40-05-15-16	BT 40	2,5 – 16	103	27,5	50	6
BT50-05-15-13	BT 50	1,0 – 13	111	31,0	50	6
BT50-05-15-16	BT 50	2,5 – 16	113	27,5	50	6

Note: High precision and accurate concentricity of ≤ 0.03 mm. No automatic slackening of the clamping force while machining with either clockwise or counter clockwise rotation or on spindle stop. Clamping and releasing effected *by means of an Allen wrench*.

Delivery: Without wrench



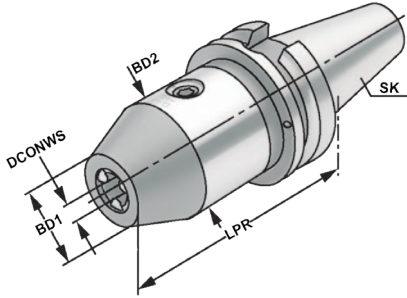
10.27



10.31



Application:
For mounting tools with straight shanks.



2

ISO 7388-2

Form JD/JF (AD/B)

$\leq 30\mu\text{m}$

G6.3
15.000
min⁻¹

Ch. 11

Order no.	SK	DCONWS Capacity	LPR	BD1	BD2	DRVS
BT40-06-15-08	BT 40	0,5 – 8	78	23	36	4
BT40-06-15-13	BT 40	1,0 – 13	98	31,0	50	6
BT40-06-15-16	BT 40	2,5 – 16	103	27,5	50	6
BT50-06-15-13	BT 50	1,0 – 13	111	31,0	50	6
BT50-06-15-16	BT 50	2,5 – 16	113	27,5	50	6

Note: High precision and accurate concentricity of ≤ 0.03 mm. No automatic slackening of the clamping force while machining with either clockwise or counter clockwise rotation or on spindle stop. Clamping and releasing effected *by means of an Allen wrench*.

Delivery: Without wrench



Quick change tapping chucks with length compensation on compression and expansion

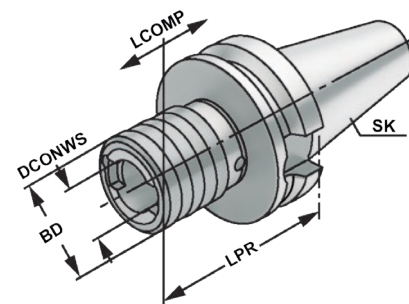
ISO 7388-2

(JIS B 6339)

2



Application:
For the chucking of quick change adaptors
for taps.



ISO
7388-2

Form
J
(A)



i
Ch. 11

Order no.	SK	Capacity	SZID	DCONWS	LPR	BD	LCOMP
BT30-05-16-12	BT 30	M3 – M14	1	19	64	36	7
BT30-05-16-20	BT 30	M5 – M22	2	31	95	53	12
BT40-05-16-12	BT 40	M3 – M14	1	19	65	36	7
BT40-05-16-20	BT 40	M5 – M22	2	31	93	53	12
BT40-05-16-36	BT 40	M14 – M36	3	48	166	78	20
BT50-05-16-12	BT 50	M3 – M14	1	19	100	36	7
BT50-05-16-20	BT 50	M5 – M22	2	31	105	53	12
BT50-05-16-36	BT 50	M14 – M36	3	48	142	78	17,5

Note: For machining centres without synchronous spindle.

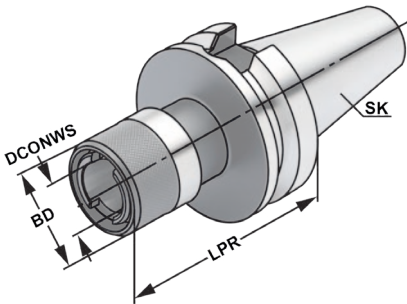


**Quick change tapping chucks without length compensation
on compression and expansion**

**ISO 7388-2
(JIS B 6339)**



Application:
For the chucking of quick change adaptors for taps.



2

ISO
7388-2

Form
JD
(AD)

i
Ch. 11

Order no.	SK	Capacity	SZID	DCONWS	LPR	BD
BT30-05-16-12-1	BT 30	M3 – M14	1	19	66	38
BT30-05-16-20-1	BT 30	M5 – M22	2	31	80	54
BT40-05-16-12-1	BT 40	M3 – M14	1	19	72	38
BT40-05-16-20-1	BT 40	M5 – M22	2	31	93	54
BT40-05-16-36-1	BT 40	M14 – M36	3	48	130	78
BT50-05-16-12-1	BT 50	M3 – M14	1	19	80	38
BT50-05-16-20-1	BT 50	M5 – M22	2	31	95	54
BT50-05-16-36-1	BT 50	M14 – M36	3	48	142	78

Note: For machining centres with synchronous spindle.



Tapping chucks for synchronisation for collets

DIN 6499 (ISO 15488) ER-system

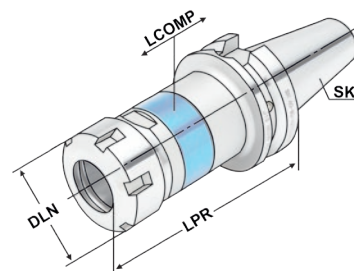
ISO 7388-2

(JIS B 6339)

2



Application:
For machining centres with synchronous spindle.


ISO
7388-2

Form
JD/JF
(AD/B)

 $\leq 60\mu\text{m}$

G6.3
15.000
min⁻¹

ISO
15488

- +

i
Ch. 11

Order no.	SK	DCONWS Capacity	Typ	LPR	DLN	LCOMP
BT40-06-16-02-10*	BT 40	M3 – M12	426E ER 16 SW25	81	28	0,5
BT40-06-16-02-13	BT 40	M3 – M16	428E ER 20	85	34	0,5
BT40-06-16-02-16	BT 40	M3 – M20	430E ER 25	89	42	0,5
BT40-06-16-02-20	BT 40	M3 – M27	470E ER 32	110	50	0,5
BT40-06-16-02-26	BT 40	M3 – M33	472E ER 40	115	63	0,5
BT50-06-16-02-10*	BT 50	M3 – M12	426E ER 16 SW25	95	28	0,5
BT50-06-16-02-13	BT 50	M3 – M16	428E ER 20	100	34	0,5
BT50-06-16-02-16	BT 50	M3 – M20	430E ER 25	110	42	0,5
BT50-06-16-02-20	BT 50	M3 – M27	470E ER 32	120	50	0,5
BT50-06-16-02-26	BT 50	M3 – M33	472E ER 40	120	63	0,5

* Sechskantmutter

* Hexagonal clamping nut

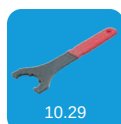
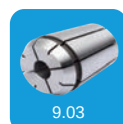
* Écrous hexagonal

Note:

- Synchro tapping chucks compensate synchronisation errors.
- Minimal length compensation on compression and expansion balances very small pitch differences between synchro spindle and tap, which can cause high frictional forces on the thread flanks.
- A possible increase of axial force during the tapping process is reduced to a minimum.
- Suitable for internal coolant.
- Coolant pressure up to max. 100 bar.

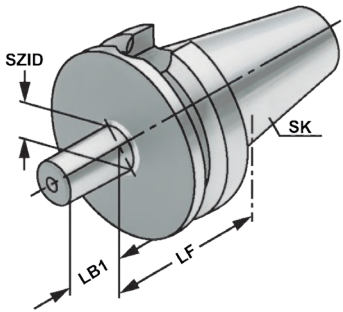
Delivery:

With balanced clamping nut





Application:
For mounting drill chucks.



2

ISO 7388-2

Form J (A)

$\leq 5\mu\text{m}$

G6.3
15,000
min⁻¹

DIN 238

AT4

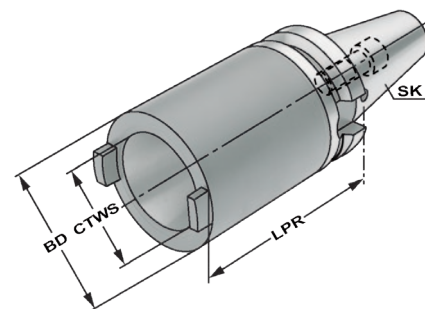
Order no.	SK	SZID	LF	LB1
BT30-05-14-12	BT 30	B12	25	18,5
BT30-05-14-16	BT 30	B16	25	24
BT40-05-14-12	BT 40	B12	25	18,5
BT40-05-14-16	BT 40	B16	25	24
BT40-05-14-18	BT 40	B18	32	32
BT50-05-14-16	BT 50	B16	32	24
BT50-05-14-18	BT 50	B18	32	32



2

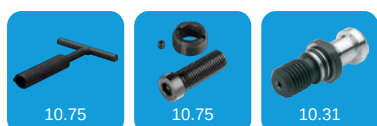


Application:
For holding tapers according to ISO 7388-1 (DIN 69871), ISO 7388-2 (JIS B 6339) and DIN 2080.



Order no.	SK	CTWS	LPR	BD
BT40-05-09-30	BT 40	SK 30	60	63
BT40-05-09-40	BT 40	SK 40	100	63
BT50-05-09-40	BT 50	SK 40	70	70
BT50-05-09-50	BT 50	SK 50	120	97

Note: Delivered with a built-in screw for shortened taper tools.
Additional screw for DIN 2080 tools included.

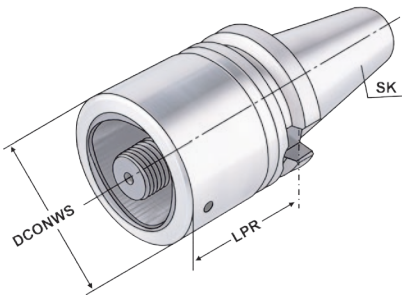


Adaptor sleeves for adaption from BT to PSC
(ISO 7388-2 to ISO 26623-1)

ISO 7388-2
(JIS B 6339)



Application:
Adapter from BT to PSK with axial tension.



2



Order no.	SK	Typ	DCONWS	LPR	TQX	THID
BT50-09-C3-030	BT 40	PSK C3	32	30	45	M12x1,5
BT50-09-C4-030	BT 40	PSK C4	40	30	55	M14x1,5
BT50-09-C5-030	BT 40	PSK C5	50	30	95	M16x1,5
BT50-09-C6-075	BT 40	PSK C6	63	75	170	M20x2,0
BT50-09-C3-040	BT 50	PSK C3	32	40	45	M12x1,5
BT50-09-C4-040	BT 50	PSK C4	40	40	55	M14x1,5
BT50-09-C5-040	BT 50	PSK C5	50	40	95	M16x1,5
BT50-09-C6-100	BT 50	PSK C6	63	100	170	M20x2,0

Version:
Adapters BT / PSK with axial clamping. Ground internally and externally. The internal thread provided for the coolant tube in the PSC toolholder is plugged with the socket-head screw incorporated in the adapter. The clamping screw incorporates a through hole, so the system is suitable for through-coolant feed.
Suitable for tool arbor with polygonal shank (PSC) - ISO 26623-1.

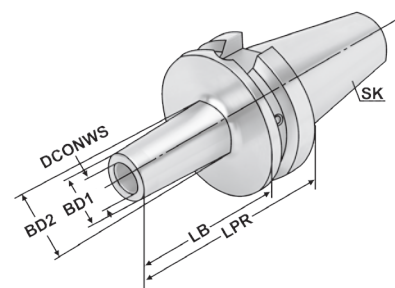
Delivery: Clamping screw



2



Application:
For mounting screw-in cutters with thread.


ISO
7388-2

Form
JD/JF
(AD/B)

≤3μm

G2.5
25.000
min⁻¹

H7

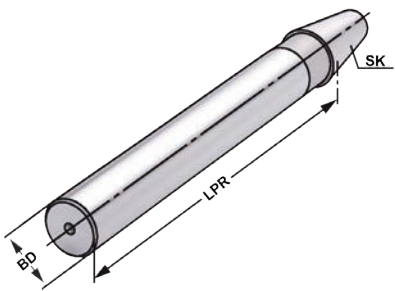
Order no.	SK	THSZWS	DCONWS	BD1	BD2	LPR	LB
BT40-06-06-06	BT 40	M6	6,5	10	13	52	25
BT40-06-06-06-1	BT 40	M6	6,5	10	20	77	50
BT40-06-06-06-2	BT 40	M6	6,5	10	23	102	75
BT40-06-06-08	BT 40	M8	8,5	13	15	52	25
BT40-06-06-08-1	BT 40	M8	8,5	13	23	77	50
BT40-06-06-08-2	BT 40	M8	8,5	13	23	102	75
BT40-06-06-08-3	BT 40	M8	8,5	13	25	127	100
BT40-06-06-10	BT 40	M10	10,5	18	20	52	25
BT40-06-06-10-1	BT 40	M10	10,5	18	23	77	50
BT40-06-06-10-2	BT 40	M10	10,5	18	28	102	75
BT40-06-06-10-3	BT 40	M10	10,5	18	32	127	100
BT40-06-06-12	BT 40	M12	12,5	21	24	52	25
BT40-06-06-12-1	BT 40	M12	12,5	21	24	77	50
BT40-06-06-12-2	BT 40	M12	12,5	21	31	102	75
BT40-06-06-12-3	BT 40	M12	12,5	21	33	127	100
BT40-06-06-12-4	BT 40	M12	12,5	21	36	152	125
BT40-06-06-16	BT 40	M16	17	29	29	52	25
BT40-06-06-16-1	BT 40	M16	17	29	34	77	50
BT40-06-06-16-2	BT 40	M16	17	29	34	102	75
BT40-06-06-16-3	BT 40	M16	17	29	36	127	100
BT40-06-06-16-4	BT 40	M16	17	29	40	152	125
BT40-06-06-16-5	BT 40	M16	17	29	42	177	150
BT50-06-06-08-1	BT 50	M8	8,5	13	23	88	50
BT50-06-06-08-3	BT 50	M8	8,5	13	25	138	100
BT50-06-06-08-5	BT 50	M8	8,5	13	30	188	150
BT50-06-06-10-1	BT 50	M10	10,5	18	23	88	50
BT50-06-06-10-3	BT 50	M10	10,5	18	32	138	100
BT50-06-06-10-5	BT 50	M10	10,5	18	37	188	150
BT50-06-06-12-1	BT 50	M12	12,5	21	24	88	50
BT50-06-06-12-3	BT 50	M12	12,5	21	33	138	100
BT50-06-06-12-5	BT 50	M12	12,5	21	40	188	150
BT50-06-06-16-1	BT 50	M16	17	29	34	88	50
BT50-06-06-16-2	BT 50	M16	17	29	36	113	75
BT50-06-06-16-3	BT 50	M16	17	29	36	138	100
BT50-06-06-16-5	BT 50	M16	17	29	43	188	150

Test arbors

ISO 7388-2
(JIS B 6339)



Application:
For the inspection of machine tools according to ISO recommendation R230 or for testing the tool spindle.



2

ISO 7388-2

Form J (A)

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

Order no.	SK	LPR	BD	Tolerance	max. concentricity deviation
BT30-05-18-32	BT 30	300	32	0,003	0,003
BT40-05-18-40	BT 40	300	40	0,003	0,003
BT50-05-18-50	BT 50	300	50	0,003	0,003

Delivery: *Delivery with test certificate*

Wooden box for test arbors



Application:
For the storage of test arbors.



Order no.	Abmessung Size Dimension	für Kegelgrößen for cones pour cônes
WB-18	460×130×115	SK 30 / 40 / 50

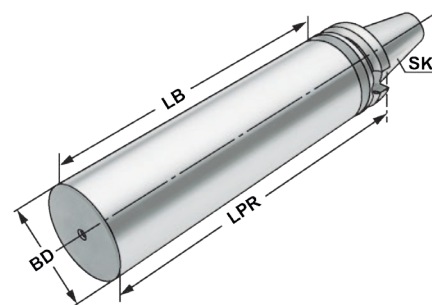


10.31

2



Application:
For the manufacturing of special tools.



ISO
7388-2

Form
J
(A)

Order no.	SK	BD	LB	LPR
BT30-05-17-40	BT 30	40,5	138	160
BT40-05-17-63	BT 40	63	215	250
BT50-05-17-97	BT 50	97	277	315

Version: Cone and flange hardened and grinded. Soft body for later processing.



10.31

Maintenance and repair of hydraulic chucks

Clamping of tools with hydraulic chucks is a widespread, well-established and reliable method. It is a resistant, easy-to-operate and durable way of clamping due to its advantageous construction design. Nevertheless in the course of time under the influence of thermal and mechanical outputs at factories loss of clamping force is observed. As a result the life of the tool shortens and its quality during the working process reduces. Therefore it leads to a costly damage of the tool.

We maintain and repair your hydraulic chucks - both those manufactured at our place and those produced somewhere else - for a reasonable price here at our office in the south of Germany.

We check possible causes of the clamping force reduction and repair it within two weeks at a fixed low price. At the same time we renew all the fast wearing parts, fill the hydraulic system anew and adjust its clamping force. Afterwards the final inspection stage takes place.

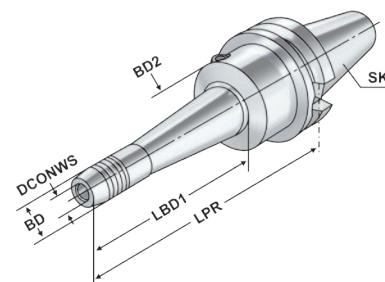
You are welcome to contact our customer service for further information and prices.



2



Application:
For mounting straight-shank tools. Especially in
operations in toolmaking and mould making.
Wherever reduced interference contours are
required.



ISO
7388-2

Form
JD/JF
(AD/B)

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

G2.5
25.000
min⁻¹

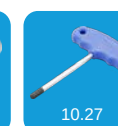
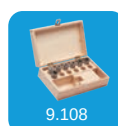
i
Ch. 11

Order no.	SK	DCONWS	LPR	BD	BD2	LSCX	ADJRGA	LBD1	DRVS	THID
BT40-06-HSL06-160	BT 40	6	160	16	50	37	10	103	5	M6x1
BT40-06-HSL08-160	BT 40	8	160	18	50	37	10	103	5	M6x1
BT40-06-HSL10-160	BT 40	10	160	20	50	42	10	103	5	M8x1
BT40-06-HSL12-160	BT 40	12	160	22	50	47	10	103	5	M8x1

LSCX = Clamping depth, max.

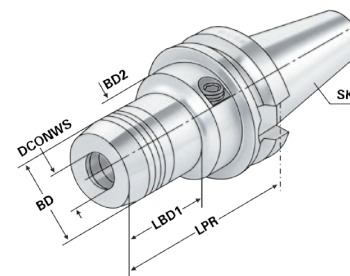
ADJRGA = Length adjustment range, max.

Delivery: Without wrench





Application:
For mounting straight-shank tools acc. DIN 1835
form A+B+E and DIN 6535 form HB+HE (larger
than Ø 20 mm only with reduction sleeve).



ISO

7388-2

 Form
JD/JF
(AD/B)


Ch. 11

Order no.	SK	DCONWS	LPR	BD	BD2	LSCX	ADJRGA	LBD1	DRVS	THID
BT30-05-H06*	BT 30	6	60	26	45	37	10	33	5	M6x1
BT30-05-H08*	BT 30	8	64	28	45	37	10	29	5	M6x1
BT30-05-H10*	BT 30	10	64	30	45	42	10	37	5	M6x1
BT30-05-H12*	BT 30	12	72	32	45	47	10	43	5	M8x1
BT30-05-H14*	BT 30	14	70	34	45	47	10	41	5	M10x1
BT30-05-H16*	BT 30	16	90	38	45	52	10	52	5	M12x1
BT30-05-H18*	BT 30	18	90	40	45	52	10	52	5	M12x1
BT30-05-H20*	BT 30	20	90	42	45	52	10	52	5	M12x1
BT40-05-H06	BT 40	6	90	26	50	37	10	43	5	M6x1
BT40-05-H08	BT 40	8	90	28	50	37	10	43,5	5	M6x1
BT40-05-H10	BT 40	10	90	30	50	42	10	44	5	M8x1
BT40-05-H12	BT 40	12	90	32	50	47	10	44,5	5	M8x1
BT40-05-H14	BT 40	14	90	34	50	47	10	47,5	5	M10x1
BT40-05-H16	BT 40	16	90	38	50	52	10	47,5	5	M12x1
BT40-05-H18	BT 40	18	90	40	50	52	10	47,5	5	M12x1
BT40-05-H20	BT 40	20	90	42	50	52	10	47,5	5	M12x1
BT40-05-H25	BT 40	25	90	50	50	58	10	63	6	M8x1
BT40-05-H32	BT 40	32	110	60	60	62	10	83	6	M12x1
BT40-05-H06-1	BT 40	6	150	26	50	37	10	102	5	M6x1
BT40-05-H08-1	BT 40	8	150	28	50	37	10	103	5	M6x1
BT40-05-H10-1	BT 40	10	150	30	50	42	10	104	5	M8x1
BT40-05-H12-1	BT 40	12	150	32	50	47	10	105	5	M8x1
BT40-05-H14-1	BT 40	14	150	34	50	47	10	105	5	M10x1
BT40-05-H16-1	BT 40	16	150	38	50	52	10	106	5	M12x1
BT40-05-H18-1	BT 40	18	150	40	50	52	10	107	5	M12x1
BT40-05-H20-1	BT 40	20	150	42	50	52	10	108	5	M12x1
BT40-05-H25-1	BT 40	25	150	50	50	58	10	123	6	M12x1
BT40-05-H32-1	BT 40	32	150	60	60	64	10	123	6	M12x1

* Form JD (AD)

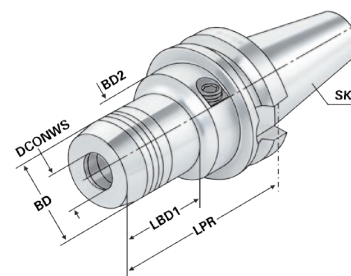
LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

Delivery: Without wrench

2


Application:
For mounting straight-shank tools acc. DIN 1835 form A+B+E and DIN 6535 form HB+HE (larger than Ø 20 mm only with reduction sleeve).


ISO
7388-2

Form
JD/JF
(AD/B)

≤ 3µm

G2.5
25.000
min⁻¹

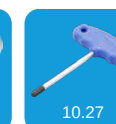

Ch. 11

Order no.	SK	DCONWS	LPR	BD	BD2	LSCX	ADJRGA	LBD1	DRVS	THID
BT50-05-H06	BT 50	6	110	26	80	37	10	43	5	M6x1
BT50-05-H08	BT 50	8	110	28	80	37	10	43,5	5	M6x1
BT50-05-H10	BT 50	10	110	30	80	42	10	44	5	M8x1
BT50-05-H12	BT 50	12	110	32	80	47	10	42	5	M8x1
BT50-05-H14	BT 50	14	110	34	80	47	10	42	5	M10x1
BT50-05-H16	BT 50	16	110	38	80	52	10	45	5	M12x1
BT50-05-H18	BT 50	18	110	40	80	52	10	47,5	5	M12x1
BT50-05-H20	BT 50	20	110	42	80	52	10	47,5	5	M12x1
BT50-05-H25	BT 50	25	110	50	80	58	10	47,5	6	M16x1
BT50-05-H32	BT 50	32	110	60	80	62	10	47,5	6	M16x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

Delivery: Without wrench



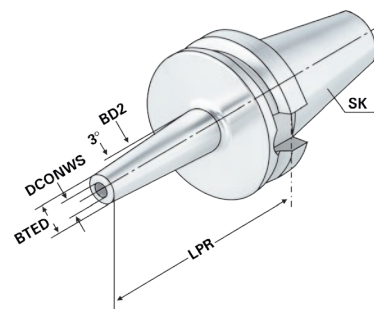
Shrink chucks 3° for mounting of solid carbide and HSS-tool shanks - slim

ISO 7388-2

(JIS B 6339)



Application:
For mounting straight-shank tools.



2

ISO
7388-2

Form
JD/JF
(AD/B)

≤3µm

G2.5
25,000
min⁻¹

h6

Order no.	SK	DCONWS	TDCON	LPR	BTED	BD2	LSCX	LSCN	ADJRGA	THID
BT40-06-72-03	BT 40	3	h4	90	9	15,5	-	6	-	-
BT40-06-72-04	BT 40	4	h4	90	10	16,5	-	8	-	-
BT40-06-72-05	BT 40	5	h4	90	11	17,5	-	10	-	-
BT40-06-72-06	BT 40	6	h6	90	12	18,5	36	22	10	M5x0,8
BT40-06-72-08	BT 40	8	h6	90	14	20,5	36	26	10	M6x1
BT40-06-72-10	BT 40	10	h6	90	16	22,5	41	31	10	M8x1
BT40-06-72-12	BT 40	12	h6	90	18	24,5	46	36	10	M10x1
BT40-06-72-03-1	BT 40	3	h4	120	9	19,5	-	6	-	-
BT40-06-72-04-1	BT 40	4	h4	120	10	20,5	-	8	-	-
BT40-06-72-05-1	BT 40	5	h4	120	11	21,5	-	10	-	-
BT40-06-72-06-1	BT 40	6	h6	120	12	22,5	36	22	10	M5x0,8
BT40-06-72-08-1	BT 40	8	h6	120	14	24,5	36	26	10	M6x1
BT40-06-72-10-1	BT 40	10	h6	120	16	26,5	41	31	10	M8x1
BT40-06-72-12-1	BT 40	12	h6	120	18	28,5	46	36	10	M10x1
BT40-06-72-06-2	BT 40	6	h6	160	12	26,5	36	22	10	M5x0,8
BT40-06-72-08-2	BT 40	8	h6	160	14	28,5	36	26	10	M6x1
BT40-06-72-10-2	BT 40	10	h6	160	16	30,5	41	31	10	M8x1
BT40-06-72-12-2	BT 40	12	h6	160	18	32,5	46	36	10	M10x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

Version: slim design (reduced interference contour)

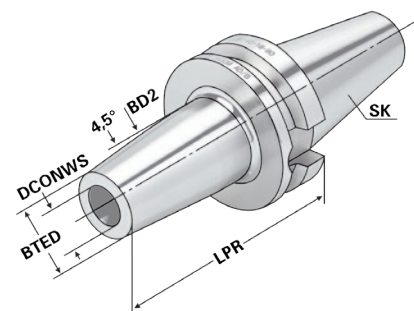
For Ø 3, 4 and 5 mm only solid carbide tool shanks must be used

Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 3, 4, 5 with h4-tolerance and Ø 6–Ø 12 with h6-tolerance



2


Application:
For mounting straight-shank tools.



ISO
7388-2

Form
JD/JF
(AD/B)

≤ 3μm

G2.5
25.000
min⁻¹

h6

Order no.	SK	DCONWS	TDCON	LPR	BTED	BD2	LSCN	LSCX	ADJRGA	THID
BT30-05-70-03*	BT 30	3	h4	80	15	20	6	-	-	-
BT30-05-70-04*	BT 30	4	h4	80	15	20	8	-	-	-
BT30-05-70-05*	BT 30	5	h4	80	15	20	10	-	-	-
BT30-05-70-06*	BT 30	6	h6	80	21	27	22	36	10	M5x0,8
BT30-05-70-08*	BT 30	8	h6	80	21	27	26	36	10	M6x1
BT30-05-70-10*	BT 30	10	h6	90	24	32	31	41	10	M8x1
BT30-05-70-12*	BT 30	12	h6	90	24	32	36	46	10	M10x1
BT30-05-70-14*	BT 30	14	h6	90	27	34	36	46	10	M10x1
BT30-05-70-16*	BT 30	16	h6	90	27	34	39	49	10	M12x1
BT30-05-70-18*	BT 30	18	h6	90	33	42	39	49	10	M12x1
BT30-05-70-20*	BT 30	20	h6	90	33	42	41	51	10	M16x1
BT30-05-70-25*	BT 30	25	h6	100	44	53	47	57	10	M16x1
BT40-06-70-03	BT 40	3	h4	80	11	15	6	-	-	-
BT40-06-70-04	BT 40	4	h4	80	14	22	8	-	-	-
BT40-06-70-05	BT 40	5	h4	80	16	22	10	-	-	-
BT40-06-70-06	BT 40	6	h6	90	21	27	22	36	10	M5x0,8
BT40-06-70-08	BT 40	8	h6	90	21	27	26	36	10	M6x1
BT40-06-70-10	BT 40	10	h6	90	24	32	31	41	10	M8x1
BT40-06-70-12	BT 40	12	h6	90	24	32	36	46	10	M10x1
BT40-06-70-14	BT 40	14	h6	90	27	34	36	46	10	M10x1
BT40-06-70-16	BT 40	16	h6	90	27	34	39	49	10	M12x1
BT40-06-70-18	BT 40	18	h6	90	33	42	39	49	10	M12x1
BT40-06-70-20	BT 40	20	h6	90	33	42	41	51	10	M16x1
BT40-06-70-25	BT 40	25	h6	100	44	53	47	57	10	M16x1
BT40-06-70-32	BT 40	32	h6	100	44	53	51	61	10	M16x1

* Form JD/AD

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

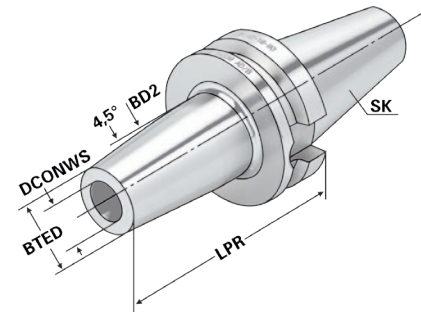
For Ø 3, 4 and 5 mm only solid carbide tool shanks must be used!

Note:

Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 3, 4, 5 with h₄-tolerance and Ø 6–Ø 32 with h₆-tolerance



Application:
For mounting straight-shank tools.


2

ISO 7388-2

Form
JD/JF
(AD/B)

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

G2.5
25.000
min⁻¹

h6

Order no.	SK	DCONWS	TDCON	LPR	BTED	BD2	LSCN	LSCX	ADJRGA	THID
BT40-06-70-06-1	BT 40	6	h6	120	21	27	22	36	10	M5x0,8
BT40-06-70-08-1	BT 40	8	h6	120	21	27	26	36	10	M6x1
BT40-06-70-10-1	BT 40	10	h6	120	24	32	31	41	10	M8x1
BT40-06-70-12-1	BT 40	12	h6	120	24	32	36	46	10	M10x1
BT40-06-70-14-1	BT 40	14	h6	120	27	34	36	46	10	M10x1
BT40-06-70-16-1	BT 40	16	h6	120	27	34	39	49	10	M12x1
BT40-06-70-18-1	BT 40	18	h6	120	33	42	39	49	10	M12x1
BT40-06-70-20-1	BT 40	20	h6	120	33	42	41	51	10	M16x1
BT40-06-70-06-2	BT 40	6	h6	160	21	27	22	36	10	M5x0,8
BT40-06-70-08-2	BT 40	8	h6	160	21	27	26	36	10	M6x1
BT40-06-70-10-2	BT 40	10	h6	160	24	32	31	41	10	M8x1
BT40-06-70-12-2	BT 40	12	h6	160	24	32	36	46	10	M10x1
BT40-06-70-14-2	BT 40	14	h6	160	27	34	36	46	10	M10x1
BT40-06-70-16-2	BT 40	16	h6	160	27	34	39	49	10	M12x1
BT40-06-70-18-2	BT 40	18	h6	160	33	42	39	49	10	M12x1
BT40-06-70-20-2	BT 40	20	h6	160	33	42	41	51	10	M16x1
BT40-06-70-25-2	BT 40	25	h6	160	44	53	47	57	10	M16x1
BT40-06-70-32-2	BT 40	32	h6	160	44	62	51	61	10	M16x1

LSCX = Clamping depth, max.

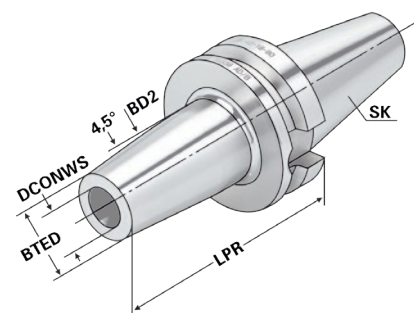
ADJRGA = Length adjustment range, max.

Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 6–Ø 32 with h₆-tolerance



2


Application:
For mounting straight-shank tools.



ISO 7388-2

Form
JD/JF
(AD/B)

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

G2.5
25.000
min⁻¹

h6

Order no.	SK	DCONWS	TDCON	LPR	BTED	BD2	LSCN	LSCX	ADJRGA	THID
BT50-06-71-04	BT 50	4	h4	100	15	20	8	-	-	-
BT50-06-71-05	BT 50	5	h4	100	15	20	10	-	-	-
BT50-06-71-06	BT 50	6	h6	100	21	27	22	36	10	M5x0,8
BT50-06-71-08	BT 50	8	h6	100	21	27	26	36	10	M6x1
BT50-06-71-10	BT 50	10	h6	100	24	32	31	41	10	M8x1
BT50-06-71-12	BT 50	12	h6	100	24	32	36	46	10	M10x1
BT50-06-71-14	BT 50	14	h6	100	27	34	36	46	10	M10x1
BT50-06-71-16	BT 50	16	h6	100	27	34	39	49	10	M12x1
BT50-06-71-18	BT 50	18	h6	110	33	42	39	49	10	M12x1
BT50-06-71-20	BT 50	20	h6	110	33	42	41	51	10	M16x1
BT50-06-71-25	BT 50	25	h6	120	44	53	47	57	10	M16x1
BT50-06-71-32	BT 50	32	h6	120	44	53	51	61	10	M16x1
BT50-06-71-06-1	BT 50	6	h6	120	21	27	22	36	10	M5x0,8
BT50-06-71-08-1	BT 50	8	h6	120	21	27	26	36	10	M6x1
BT50-06-71-10-1	BT 50	10	h6	120	24	32	31	41	10	M8x1
BT50-06-71-12-1	BT 50	12	h6	120	24	32	36	46	10	M10x1
BT50-06-71-14-1	BT 50	14	h6	120	27	34	36	46	10	M10x1
BT50-06-71-16-1	BT 50	16	h6	120	27	34	39	49	10	M12x1
BT50-06-71-18-1	BT 50	18	h6	120	33	42	39	49	10	M12x1
BT50-06-71-20-1	BT 50	20	h6	120	33	42	41	51	10	M16x1

LSCX = Clamping depth, max.

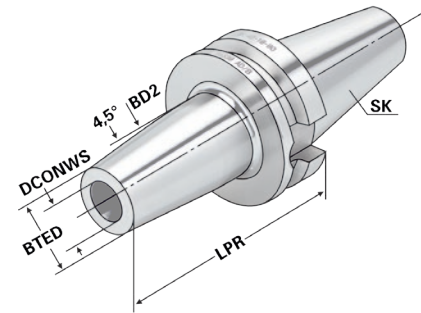
ADJRGA = Length adjustment range, max.

Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 6–Ø 32 with h₆-tolerance





Application:
For mounting straight-shank tools.


2

ISO 7388-2

Form
JD/JF
(AD/B)

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

 $G2.5$
 $25,000$
 min^{-1}

h6

Order no.	SK	DCONWS	TDCON	LPR	BTED	BD2	LSCN	LSCX	ADJRGA	THID
BT50-05-71-06-2	BT 50	6	h6	160	21	27	22	36	10	M5x0,8
BT50-05-71-08-2	BT 50	8	h6	160	21	27	26	36	10	M6x1
BT50-05-71-10-2	BT 50	10	h6	160	24	32	31	41	10	M8x1
BT50-05-71-12-2	BT 50	12	h6	160	24	32	36	46	10	M10x1
BT50-05-71-14-2	BT 50	14	h6	160	27	34	36	46	10	M10x1
BT50-05-71-16-2	BT 50	16	h6	160	27	34	39	49	10	M12x1
BT50-05-71-18-2	BT 50	18	h6	160	33	42	39	49	10	M12x1
BT50-05-71-20-2	BT 50	20	h6	160	33	42	41	51	10	M16x1
BT50-05-71-25-2	BT 50	25	h6	160	44	53	47	57	10	M16x1
BT50-05-71-32-2	BT 50	32	h6	160	44	53	51	61	10	M16x1
BT50-05-71-06-3	BT 50	6	h6	200	21	27	22	36	10	M5x0,8
BT50-05-71-08-3	BT 50	8	h6	200	21	27	26	36	10	M6x1
BT50-05-71-10-3	BT 50	10	h6	200	24	32	31	41	10	M8x1
BT50-05-71-12-3	BT 50	12	h6	200	24	32	36	46	10	M10x1
BT50-05-71-14-3	BT 50	14	h6	200	27	34	36	46	10	M10x1
BT50-05-71-16-3	BT 50	16	h6	200	27	34	39	49	10	M12x1
BT50-05-71-18-3	BT 50	18	h6	200	33	42	39	49	10	M12x1
BT50-05-71-20-3	BT 50	20	h6	200	33	42	41	51	10	M16x1
BT50-05-71-25-3	BT 50	25	h6	200	44	53	47	57	10	M16x1
BT50-05-71-32-3	BT 50	32	h6	200	44	53	51	61	10	M16x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

Note: Toolholders suitable for induction-, contact- and hot air shrink units.
 $\varnothing 6 - \varnothing 32$ with h6-tolerance

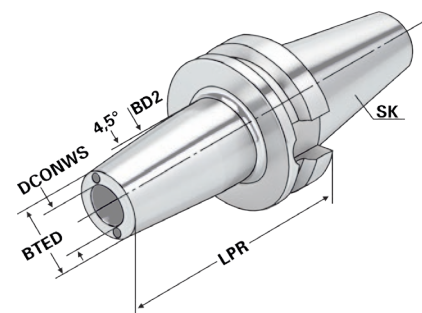


10.84

10.31

2


Application:
For mounting straight-shank tools.



Order no.	SK	DCONWS	TDCON	LPR	BTED	BD2	LSCN	LSCX	ADJRGA	THID
BT40-06-70-06-CC	BT 40	6	h6	90	21	27	22	36	10	M5x0,8
BT40-06-70-08-CC	BT 40	8	h6	90	21	27	26	36	10	M6x1
BT40-06-70-10-CC	BT 40	10	h6	90	24	32	31	41	10	M8x1
BT40-06-70-12-CC	BT 40	12	h6	90	24	32	36	46	10	M10x1
BT40-06-70-14-CC	BT 40	14	h6	90	27	34	36	46	10	M10x1
BT40-06-70-16-CC	BT 40	16	h6	90	27	34	39	49	10	M12x1
BT40-06-70-18-CC	BT 40	18	h6	90	33	42	39	49	10	M12x1
BT40-06-70-20-CC	BT 40	20	h6	90	33	42	41	51	10	M16x1
BT50-06-71-06-CC	BT 50	6	h6	100	21	27	22	36	10	M5x0,8
BT50-06-71-08-CC	BT 50	8	h6	100	21	27	26	36	10	M6x1
BT50-06-71-10-CC	BT 50	10	h6	100	24	32	31	41	10	M8x1
BT50-06-71-12-CC	BT 50	12	h6	100	24	32	36	46	10	M10x1
BT50-06-71-14-CC	BT 50	14	h6	100	27	34	36	46	10	M10x1
BT50-06-71-16-CC	BT 50	16	h6	100	27	34	39	49	10	M12x1
BT50-06-71-18-CC	BT 50	18	h6	110	33	42	39	49	10	M12x1
BT50-06-71-20-CC	BT 50	20	h6	110	33	42	41	51	10	M16x1

LSCX = Clamping depth, max.

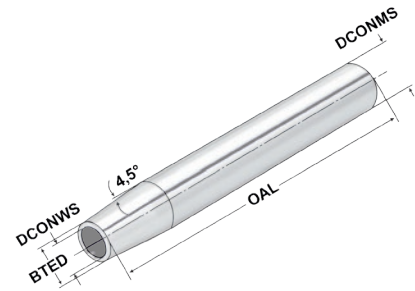
ADJRGA = Length adjustment range, max.

Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 6–Ø 25 with h₆-tolerance





Application:
For use in shrink-fit chucks, hydraulic
chucks, and ER collet chucks.



Order no.	DCONMS	DCONWS	BTED	OAL	LSCN	LSCX	ADJRGA	THID
ACE-70-03*	20	3	10	150	6	-	-	-
ACE-70-04*	20	4	10	150	8	-	-	-
ACE-70-05*	20	5	10	150	10	-	-	-
ACE-70-06	20	6	10	150	22	36	10	M5x0,8
ACE-70-08	20	8	12	150	26	36	10	M6x1
ACE-70-10	20	10	14	150	31	41	10	M8x1
ACE-70-12	20	12	16	150	36	46	10	M10x1
ACE-70-25-08	25	8	12	150	26	36	10	M6x1
ACE-70-25-10	25	10	14	150	31	41	10	M8x1
ACE-70-25-12	25	12	16	150	36	46	10	M10x1
ACE-70-25-14	25	14	18	150	36	46	10	M10x1
ACE-70-25-16	25	16	20	150	39	49	10	M12x1
ACE-70-32-10	32	10	14	150	31	41	10	M8x1
ACE-70-32-12	32	12	16	150	36	46	10	M10x1
ACE-70-32-14	32	14	18	150	36	46	10	M10x1
ACE-70-32-16	32	16	20	150	39	49	10	M12x1
ACE-70-32-18	32	18	22	150	39	49	10	M12x1
ACE-70-32-20	32	20	24	150	41	51	10	M16x1

* without end stop

Through hole for internal cooling provided.

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

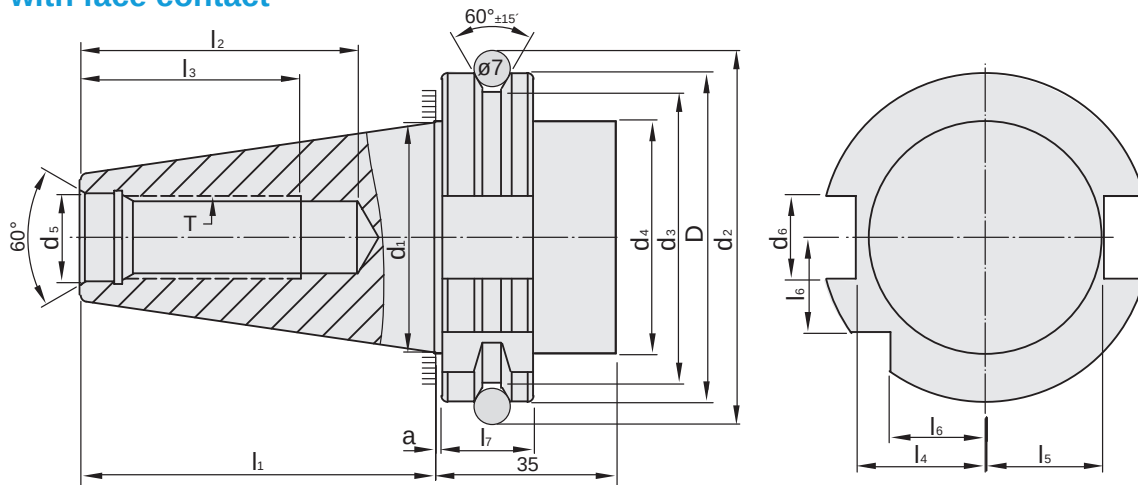
For Ø 3, 4 and 5 mm only solid carbide tool shanks must be used!

Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 3, 4, 5 with h_4 -tolerance and Ø 6–Ø 32 with h_6 -tolerance

3

***Toolholders
ISO 7388-1 and ISO 7388-2
with face contact***





SK	D	d ₁	d ₂	d ₃	d ₄	d ₅	d ₆	d ₉	l ₁	l ₂	l ₃	l ₄	l ₅	l ₆	l ₇	a	e ₁	e ₂	T
	0 -0,1		±0,05	0 -0,5	max	H7	H12		0 -0,3	min	min	0 -0,4	0 -0,4	0 -0,3	+0,1 0	0 -0,005	±0,1	max	
40	63,55	44,45	72,30	56,25	50	17	16,1	4	68,4	42,5	32	25	22,8	18,5	18,1	1	27	5	M16
50	97,50	69,85	107,25	91,25	80	25	25,7	6	101,75	61,5	47	37,7	35,5	30	17,6	1,5	42	7	M24

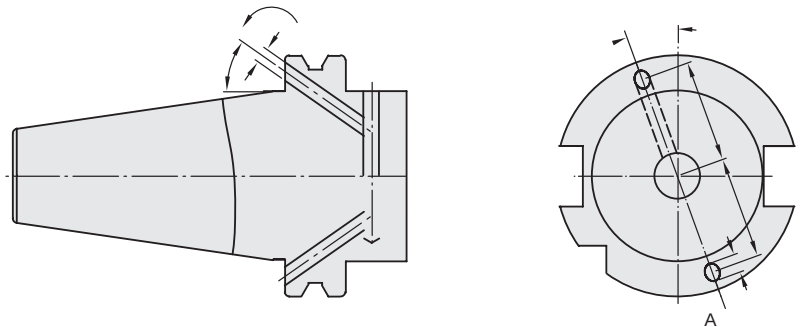
Pre-balanced G 6,3

15.000 min⁻¹

G 2.5 Fine balancing at extra charge

With internal coolant through the collar - form AD/AF (AD/B)

Delivery with headless screws in closed position



Material: Alloyed case-hardened steel, tensile core strength of min. 950 N/mm².
Case hardened HRC 60 ± 2 (HV 700 ± 50), hardening depth 0.8 mm ± 0.2 mm,
black-finished and precisely grinded.

Form AD/AF: Delivery in form AD, type AF (B) closed with releasable headless screws.

Accuracy: Quality of taper < AT 3 according to DIN 7187 and DIN 2080.

3.04



3.05



3.06



3.07



3.08



3.09



3.10



3.11



3

3.12



3.13



3.14



3.15



3.16



3.17



3.18



3.19



3.20

DIN ISO 7388-2

BT

DUAL CONTACT

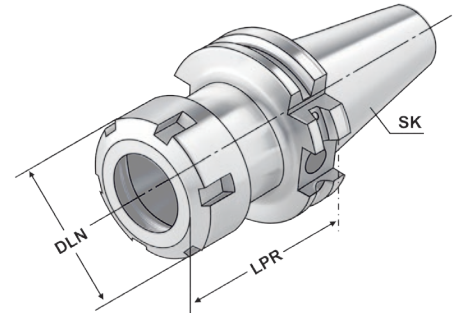


Collet chucks for collets ISO 15488 (DIN 6499) ER-system

3



Application:
For mounting straight-shank tools in
collets.



ISO
7388-1
DC

Form
AD/AF
(AD/B)

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

G2.5
25.000
min⁻¹

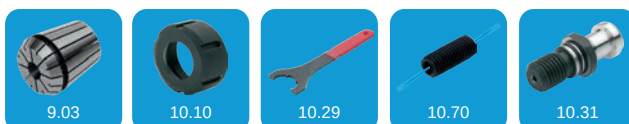
RFID
Chip

ISO
15488

i
Ch. 11

Order no.	SK	DCONWS Capacity	Typ	LPR	DLN	THID
DC-SK40-3-02-10	SK-DC 40	1 – 10	426E ER 16	63	32	M10x1,5
DC-SK40-3-02-16	SK-DC 40	2 – 16	430E ER 25	60	42	M16x2,0
DC-SK40-3-02-20	SK-DC 40	2 – 20	470E ER 32	70	50	M16x2,0
DC-SK40-3-02-26	SK-DC 40	3 – 26	472E ER 40	80	63	M16x2,0
DC-SK40-3-02-10-1	SK-DC 40	1 – 10	426E ER 16	100	32	M10x1,5
DC-SK40-3-02-16-1	SK-DC 40	2 – 16	430E ER 25	100	42	M16x2,0
DC-SK40-3-02-20-1	SK-DC 40	2 – 20	470E ER 32	100	50	M16x2,0
DC-SK40-3-02-26-1	SK-DC 40	3 – 26	472E ER 40	100	63	M16x2,0
DC-SK40-3-02-10-2	SK-DC 40	1 – 10	426E ER 16	160	32	M10x1,5
DC-SK40-3-02-16-2	SK-DC 40	2 – 16	430E ER 25	160	42	M16x2,0
DC-SK40-3-02-20-2	SK-DC 40	2 – 20	470E ER 32	160	50	M16x2,0
DC-SK40-3-02-26-2	SK-DC 40	3 – 26	472E ER 40	160	63	M16x2,0

Delivery: With balanced clamping nut

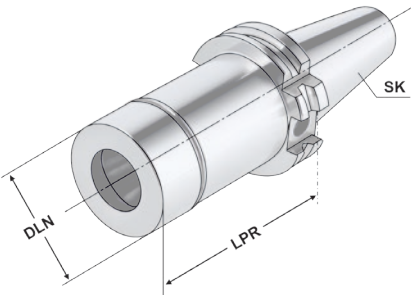


Precision collet chuck ER for collets

DIN 6499 (ISO 15488) ER-system



Application:
For mounting straight-shank tools in
3 µm-collets.



3

ISO 7388-1 DC

Form AD

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

G2.5 25,000 min⁻¹

RFID Chip

ISO 15488

Order no.	SK	DCONWS Capacity	Typ	LPR	LB	DLN	THID
DC-SK40-2-P2-20-070	SK-DC 40	2 – 20	470E ER 32	70	50,9	50	M16 x 2,0
DC-SK40-2-P2-20-100	SK-DC 40	2 – 20	470E ER 32	100	80,9	50	M16 x 2,0

- Advantages:
- Excellent concentricity in the system (chuck + collet + clamping nut)
 - Extremely strong holding force (increases the holding power by at least 60% compared to standard ER chuck)
 - Plain clamping nut without grooves for high speed machining

Note: Only nominal size DCONWS can be clamped.

Delivery: With precision clamping nut

9.03

10.12

10.30

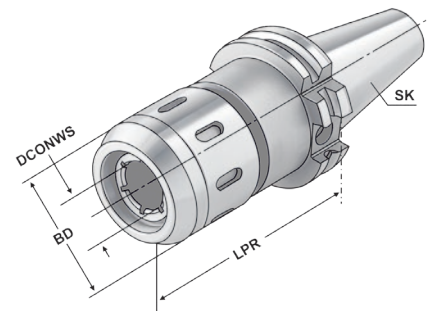
10.31

High Performance Milling Chuck |HKS-system

3



Application:
For mounting straight-shank tools acc. DIN
1835 form A+B+E and DIN 6535 form HB+HE



ISO
7388-1
DC

Form
AD/AF
(AD/B)

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

G6.3
15.000
min⁻¹

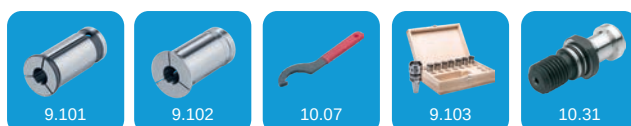
RFID
Chip

HKS

i
Ch. 11

Order no.	SK	DCONWS Capacity	Typ	DCONWS	LPR	BD
DC-SK40-3-64-20	SK-DC 40	3 – 20	HKS 20	20	90	53
DC-SK40-3-64-25	SK-DC 40	3 – 25	HKS 25	25	105	63
DC-SK40-3-64-32	SK-DC 40	3 – 32	HKS 32	32	105	68

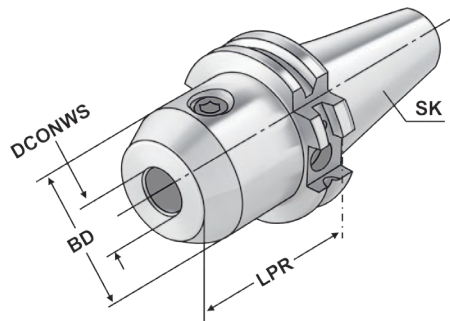
Size	20mm	25mm	32mm
Clamping torque	50-70 Nm	80-100 Nm	80-100 Nm
Clamping force	780 Nm	2000 Nm	2000 Nm



End mill holders DIN 6359 for end mills DIN 1835-B



Application:
For mounting straight-shank tools with lateral flat according to DIN 1835 form B (Weldon).



3

ISO
7388-1
DC

Form
AD/AF
(AD/B)

≤3µm

G2.5
25.000
min⁻¹

RFID
Chip

DIN
1835-B

H4

Ch. 11

Order no.	SK	DCONWS	TDCON	LPR	BD
DC-SK40-3-04-06	SK-DC 40	6	H4	50	25
DC-SK40-3-04-08	SK-DC 40	8	H4	50	28
DC-SK40-3-04-10	SK-DC 40	10	H4	50	35
DC-SK40-3-04-12	SK-DC 40	12	H4	50	42
DC-SK40-3-04-14	SK-DC 40	14	H4	50	44
DC-SK40-3-04-16	SK-DC 40	16	H4	63	48
DC-SK40-3-04-18	SK-DC 40	18	H4	63	50
DC-SK40-3-04-20	SK-DC 40	20	H4	63	52
DC-SK40-3-04-25	SK-DC 40	25	H4	100	65
DC-SK40-3-04-32	SK-DC 40	32	H4	100	72
DC-SK40-3-04-40	SK-DC 40	40	H4	120	80
DC-SK40-3-04-06-1	SK-DC 40	6	H4	100	25
DC-SK40-3-04-08-1	SK-DC 40	8	H4	100	28
DC-SK40-3-04-10-1	SK-DC 40	10	H4	100	35
DC-SK40-3-04-12-1	SK-DC 40	12	H4	100	42
DC-SK40-3-04-14-1	SK-DC 40	14	H4	100	44
DC-SK40-3-04-16-1	SK-DC 40	16	H4	100	48
DC-SK40-3-04-18-1	SK-DC 40	18	H4	100	50
DC-SK40-3-04-20-1	SK-DC 40	20	H4	100	52

Note: From DCONWS = 25 on two clamping screws

Delivery: With clamping screw



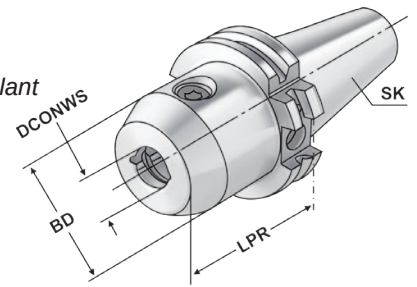
End mill holders DIN 6359 with coolant channels

for end mills DIN 1835-B

3



Application:
For mounting straight-shank tools with lateral flat according to DIN 1835 form B (Weldon). With coolant channels for optimal coolant at the cutting edge.



ISO
7388-1
DC

Form
AD/AF
(AD/B)

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

G2.5
25.000
min⁻¹

RFID
Chip

DIN
1835-B

H4



i
Ch. 11

Order no.	SK	DCONWS	TDCON	LPR	BD
DC-SK40-3-04-06-CC	SK-DC 40	6	H4	50	25
DC-SK40-3-04-08-CC	SK-DC 40	8	H4	50	28
DC-SK40-3-04-10-CC	SK-DC 40	10	H4	50	35
DC-SK40-3-04-12-CC	SK-DC 40	12	H4	50	42
DC-SK40-3-04-14-CC	SK-DC 40	14	H4	50	44
DC-SK40-3-04-16-CC	SK-DC 40	16	H4	63	48
DC-SK40-3-04-18-CC	SK-DC 40	18	H4	63	50
DC-SK40-3-04-20-CC	SK-DC 40	20	H4	63	52

Note:
From DCONWS = 25 on two clamping screws
DCONWS = 6 to 18 with two coolant channels
DCONWS = 20 to 40 with four coolant channels
For tools with through coolant an O-ring must be used.

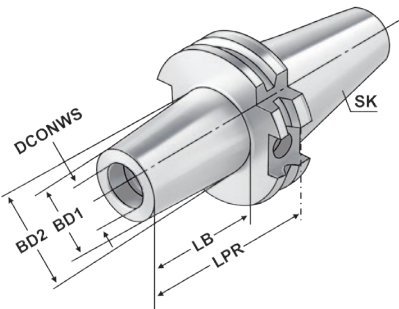
Delivery: With clamping screw and O-ring



Milling arbors for screw-in cutters



Application:
For mounting screw-in cutters with thread.



3

ISO
7388-1
DC

Form
AD/AF
(AD/B)

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

G2.5
25.000
min⁻¹

RFID
Chip

H7

Order no.	SK	THSZWS	DCONWS	BD1	BD2	LPR	LB
DC-SK40-3-06-12	SK-DC 40	M12	12,5	21	24	44	25
DC-SK40-3-06-12-1	SK-DC 40	M12	12,5	21	24	69	50
DC-SK40-3-06-12-2	SK-DC 40	M12	12,5	21	31	94	75
DC-SK40-3-06-16-0	SK-DC 40	M16	17	29	29	24	5
DC-SK40-3-06-16	SK-DC 40	M16	17	29	29	44	25
DC-SK40-3-06-16-1	SK-DC 40	M16	17	29	34	69	50
DC-SK40-3-06-16-2	SK-DC 40	M16	17	29	34	94	75

Recommended tightening torques

M6	10 Nm
M8	25 Nm
M10	40 Nm
M12	60 Nm
M16	50 Nm

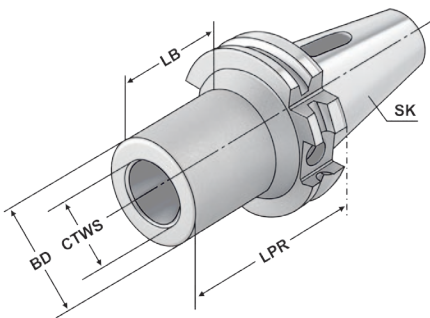


Adaptor sleeves for MT with tang DIN 6383

3



Application:
For mounting tools with Morse taper shank
and tang according to DIN 228-1 form B.



ISO 7388-1 DC

Form AD/AF (AD/B)

$\leq 5\mu\text{m}$

G6.3 15.000 min⁻¹

RFID Chip

DIN 6383

AT5

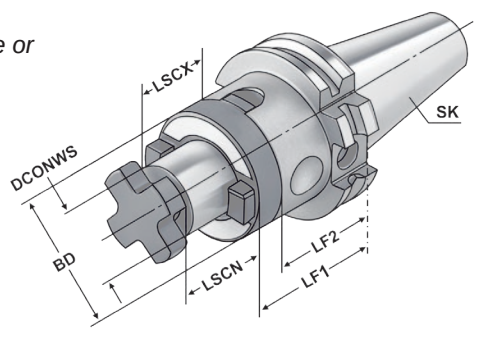
Order no.	SK	CTWS	TDCON	LPR	LB	BD
DC-SK40-3-07-01	SK-DC 40	1	AT5	50	31	25
DC-SK40-3-07-02	SK-DC 40	2	AT5	50	31	32
DC-SK40-3-07-03	SK-DC 40	3	AT5	70	44	40
DC-SK40-3-07-04	SK-DC 40	4	AT5	95	76	48



Combi shell mill holders DIN 6358



Application:
For mounting milling cutters with transverse or longitudinal groove.



3

ISO 7388-1 DC

Form AD/AF (AD/B)

≤5µm

G6.3 15.000 min⁻¹

RFID Chip

DIN 6358

h6

Order no.	SK	DCONWS	TDCON	LF1	LF2	LSCN	LSCX	BD
DC-SK40-3-10-16	SK-DC 40 16		h6	55	45	17	27	32
DC-SK40-3-10-22	SK-DC 40 22		h6	55	43	19	31	40
DC-SK40-3-10-27	SK-DC 40 27		h6	55	43	21	33	48
DC-SK40-3-10-32	SK-DC 40 32		h6	60	46	24	38	58
DC-SK40-3-10-40	SK-DC 40 40		h6	60	46	27	41	70

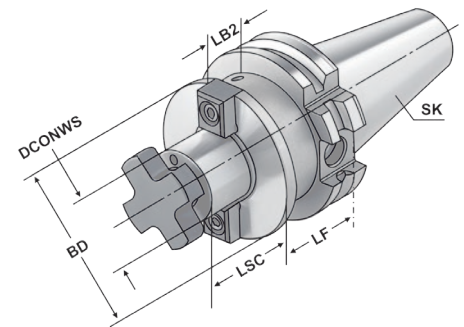
Delivery: With retaining screw, driving ring and feather key



Shell mill holders DIN 6357 with enlarged contact face and coolant exit bores on the end face



Application:
For mounting milling cutters with transversal groove.



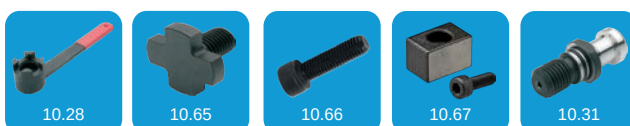
3



Order no.	SK	DCONWS	TDCON	LF	LSC	LB2	BD
DC-SK40-3-11-16	SK-DC 40	16	h6	35	17	15,9	38
DC-SK40-3-11-22	SK-DC 40	22	h6	35	19	15,9	48
DC-SK40-3-11-27	SK-DC 40	27	h6	40	21	20,9	58
DC-SK40-3-11-32	SK-DC 40	32	h6	50	24	30,9	78
DC-SK40-3-11-40	SK-DC 40	40	h6	50	27	30,9	88
DC-SK40-3-11-16-1	SK-DC 40	16	h6	100	17	80,9	38
DC-SK40-3-11-22-1	SK-DC 40	22	h6	100	19	80,9	48
DC-SK40-3-11-27-1	SK-DC 40	27	h6	100	21	80,9	58

DCONWS=40 For large diameter face mill cutters with four additional threaded holes according to DIN 2079.

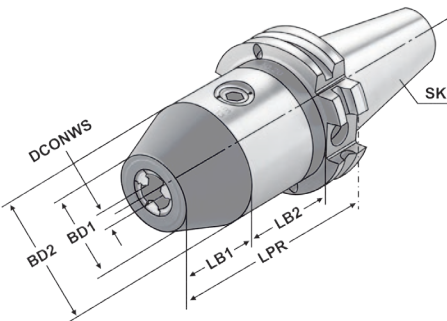
Delivery: With drivers, cross head retaining screw and cylinder head retaining screw for cutters with central coolant.



CNC-Drill chucks for clockwise
and counter clockwise rotation



Application:
For mounting tools with straight shanks.



3

ISO
7388-1
DC

Form
AD/AF
(AD/B)

≤30µm

G6.3
15,000
min⁻¹

RFID
Chip

Ch. 11

Order no.	SK	DCONWS Capacity	LPR	LB1	LB2	LF	BD1	BD2	DRVS
DC-SK40-3-15-13	SK-DC 40	1,0 – 13	90	26,2	44,8	71	31,0	50	6
DC-SK40-3-15-16	SK-DC 40	2,5 – 16	95	31,0	45,0	76	27,5	50	6

Note: *High precision and accurate concentricity of ≤ 0.03 mm. No automatic slackening of the clamping force while machining with either clockwise or counter clockwise rotation or on spindle stop. Clamping and releasing effected by means of an Allen wrench.*

Delivery: Without wrench

10.27

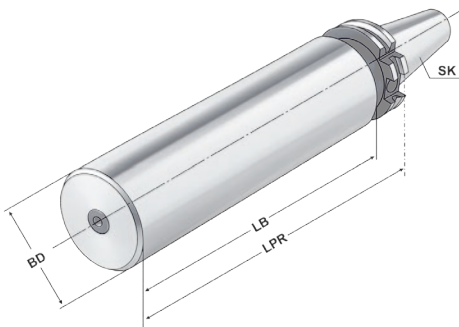
10.31

Boring bar blanks

3



Application:
For the manufacturing of special tools.



- ISO 7388-1 DC
- Form A
- RFID Chip

Order no.	SK	BD	LB	LPR
DC-SK40-2-17-63	SK-DC 40	63	215	250

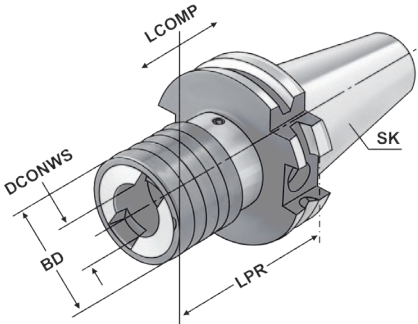
Version: *Cone and flange hardened and grinded. Soft body for later processing.*



Quick change tapping chucks with length compensation
on compression and expansion



Application:
For the chucking of quick change adaptors
for taps.



3

ISO 7388-1 DC

Form A

RFID Chip

Ch. 11

Order no.	SK	Capacity	SZID	DCONWS	LPR	BD	LCOMP
DC-SK40-2-16-12	SK-DC 40 M3 – M14		1	19	63	36	7
DC-SK40-2-16-20	SK-DC 40 M5 – M22		2	31	97	53	12

Note: For machining centres without synchronous spindle.



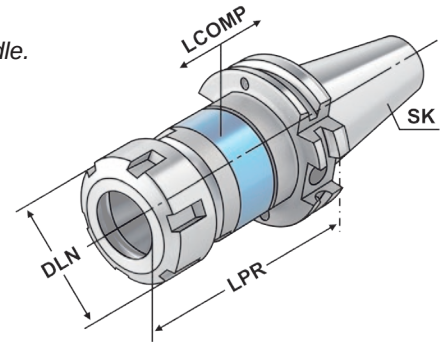
Tapping chucks for synchronisation for collets

DIN 6499 (ISO 15488) ER-system

3



Application:
For machining centres with synchronous spindle.



ISO
7388-1
DC

Form
AD/AF
(AD/B)

$\leq 60\mu\text{m}$

G6.3
15.000
min⁻¹

RFID
Chip

ISO
15488

$\pm$

i
Ch. 11

Order no.	SK	DCONWS Capacity	Typ	LPR	DLN	LCOMP
DC-SK40-3-16-02-10 ¹	SK-DC 40	M3 – M12	426E ER 16 SW25	79	28	0,5
DC-SK40-3-16-02-16	SK-DC 40	M3 – M20	430E ER 25	84	42	0,5
DC-SK40-3-16-02-20	SK-DC 40	M3 – M27	470E ER 32	95	50	0,5

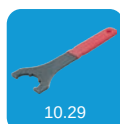
¹ Hexagonal clamping nut

Note:

- Synchro tapping chucks compensate synchronisation errors.
- Minimal length compensation on compression and expansion balances very small pitch differences between synchro spindle and tap, which can cause high frictional forces on the thread flanks.
- A possible increase of axial force during the tapping process is reduced to a minimum.
- Suitable for internal coolant.
- Coolant pressure up to max. 100 bar.

Delivery:

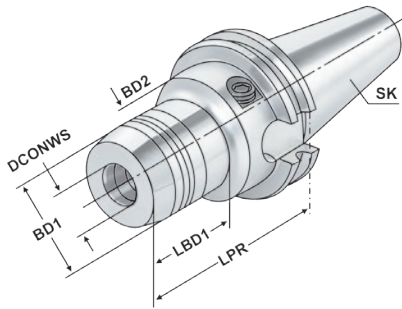
With balanced clamping nut



Hydraulic expansion chucks



Application:
For mounting straight-shank tools acc. DIN 1835
form A+B+E and DIN 6535 form HB+HE (larger
than Ø 20 mm only with reduction sleeve).



3

ISO 7388-1 DC

Form AD/AF (AD/B)

≤3µm

G2.5 25.000 min⁻¹

RFID Chip

i
Ch. 11

Order no.	SK	DCONWS	LPR	BD1	BD2	LSCX	ADJRGA	LBD1	DRVS	THID
DC-SK40-3-H06	SK-DC 40	6	68	26	50	37	10	33	5	M6x1
DC-SK40-3-H08	SK-DC 40	8	68	28	50	37	10	33	5	M6x1
DC-SK40-3-H10	SK-DC 40	10	72	30	50	42	10	37	5	M8x1
DC-SK40-3-H12	SK-DC 40	12	77	32	50	47	10	42	5	M8x1
DC-SK40-3-H14	SK-DC 40	14	77	34	50	47	10	42	5	M10x1
DC-SK40-3-H16	SK-DC 40	16	80	38	50	52	10	43	5	M10x1
DC-SK40-3-H18	SK-DC 40	18	80	40	50	52	10	43	5	M10x1
DC-SK40-3-H20	SK-DC 40	20	82	42	50	52	10	47	5	M10x1
DC-SK40-3-H25	SK-DC 40	25	117	50	63	58	10	51	6	M12x1
DC-SK40-3-H32	SK-DC 40	32	117	60	63	64	10	51	6	M12x1

Delivery: Without wrench

LSCX = Clamping depth, max. ADJRGA = Length adjustment range, max.

9.105

9.106

9.108

12.61

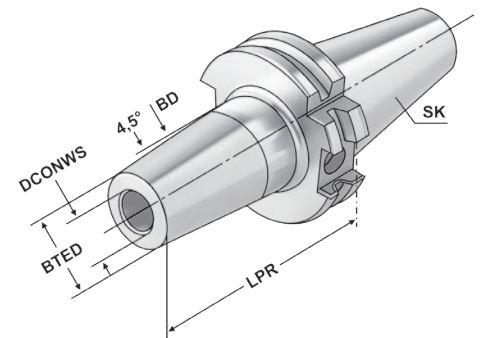
10.31

10.27

Shrink chucks 4,5° for mounting of solid carbide and HSS-tool shanks



Application:
For mounting straight-shank tools.



3

ISO
7388-1
DC

Form
AD/AF
(AD/B)

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

G2.5
25.000
min⁻¹

RFID
Chip

h6

Order no.	SK	DCONWS	TDCON	LPR	BTED	BD	LSCN	LSCX	ADJRGA	THID
DC-SK40-3-70-03	SK-DC 40	3	h4	80	11	15	6	-	-	-
DC-SK40-3-70-04	SK-DC 40	4	h4	80	14	22	8	-	-	-
DC-SK40-3-70-05	SK-DC 40	5	h4	80	16	22	10	-	-	-
DC-SK40-3-70-06	SK-DC 40	6	h6	80	21	27	22	36	10	M5x0,8
DC-SK40-3-70-08	SK-DC 40	8	h6	80	21	27	26	36	10	M6x1
DC-SK40-3-70-10	SK-DC 40	10	h6	80	24	32	31	41	10	M8x1
DC-SK40-3-70-12	SK-DC 40	12	h6	80	24	32	36	46	10	M10x1
DC-SK40-3-70-14	SK-DC 40	14	h6	80	27	34	36	46	10	M10x1
DC-SK40-3-70-16	SK-DC 40	16	h6	80	27	34	39	49	10	M12x1
DC-SK40-3-70-18	SK-DC 40	18	h6	80	33	42	39	49	10	M12x1
DC-SK40-3-70-20	SK-DC 40	20	h6	80	33	42	41	51	10	M16x1
DC-SK40-3-70-25	SK-DC 40	25	h6	100	44	53	47	57	10	M16x1
DC-SK40-3-70-32	SK-DC 40	32	h6	100	44	53	51	61	10	M16x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

For Ø 3, 4 and 5 mm only solid carbide tool shanks must be used

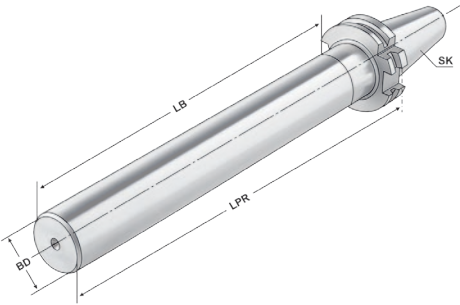
Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 3, 4, 5 with h4-tolerance and Ø 6–Ø 32 with h6-tolerance



Test arbors



Application:
For the inspection of machine tools according to ISO recommendation R230 or for testing the tool spindle.



3

ISO
7388-1
DC

Form
A

≤3µm

Order no.	SK	LPR	LB	BD	Tolerance	max. concentricity deviation
DC-SK40-2-18-40	SK-DC 40	300	256	40	0,003	0,003

Delivery: Delivery with test certificate

Wooden box for test arbors



Application:
For the storage of test arbors.

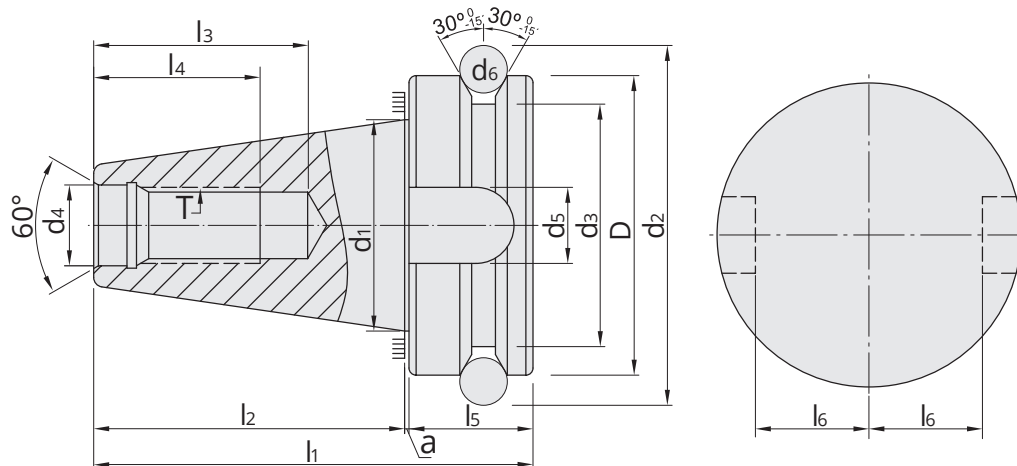


Order no.	Size	for cones
WB-18	460×130×115	SK 30 / 40 / 50



Toolholders DIN ISO 7388-2 (formerly JIS B 6339 MAS-BT)

with face contact

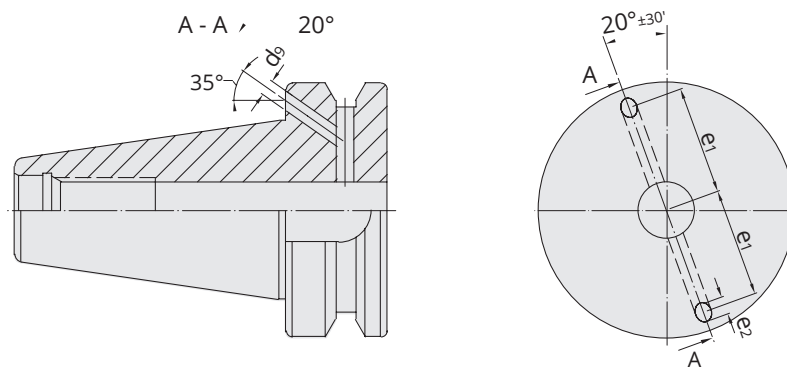


SK	D	d_1	d_2	d_3	d_4	d_5	d_6	d_9	a	l_1	l_2	l_3	l_4	l_5	l_6	e_1	e_2	T
	H8				H8	H12		H12	$\pm 0,005$		$\pm 0,2$	min	min		$\begin{smallmatrix} 0 \\ -0,2 \end{smallmatrix}$	$\pm 0,1$	max	
30	46	31,75	56,14	38	12,5	16,1	8	-	1	70,4	48,4	34	24	21	16	-	-	M12
40	63	44,45	75,679	53	17	16,1	10	4	1	92,4	65,4	43	30	26	22,6	27	5	M16
50	100	69,85	119,02	85	25	25,7	15	6	1,5	139,8	101,8	62	45	36,5	35,4	42	7	M24

Pre-balanced G 6,3 15.000 min⁻¹

G 2.5 Fine balancing at extra charge

With internal coolant through the collar - form JD/JF (AD/B)



Delivery with headless screws in closed position

Material: Alloyed case-hardened steel, tensile core strength of min. 950 N/mm². Case hardened HRC 60 $\pm$ 2 (HV 700 $\pm$ 50), hardening depth 0.8 mm $\pm$ 0.2 mm, black-finished and precisely grinded.

Form JD/JF: Delivery in form JD (AD), form JF (B) closed with releasable headless screws.

Accuracy: Quality of taper < AT 3 according to DIN 7187 and DIN 2080.

Index

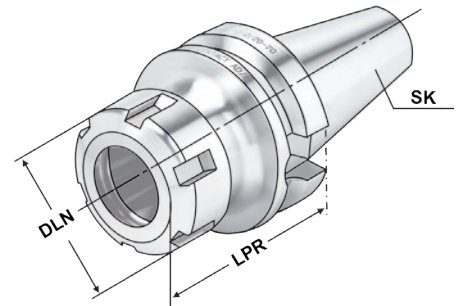
3.22	3.23	3.24	3.25
			
3.26	3.27	3.28	3.29
			
3.30	3.31	3.32	3.33
			
3.34	3.35	3.36	3.37
			
3.38	3.40		
			

Collet chucks for collets ISO 15488 (DIN 6499) ER-system

3



Application:
For mounting straight-shank tools in
collets.


ISO
7388-2
DC

Form
JD/JF
(AD/B)

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

G2.5
25.000
min⁻¹

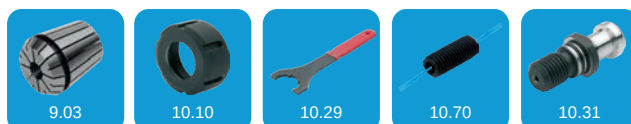
ISO
15488

i
Ch. 11

Order no.	SK	DCONWS Capacity	Typ	LPR	DLN	THID
DC-BT30-05-02-10*	BT-DC 30	1 – 10	426E ER 16	70	32	M10 x 1,5
DC-BT30-05-02-16*	BT-DC 30	2 – 16	430E ER 25	70	42	M16 x 2,0
DC-BT30-05-02-20*	BT-DC 30	2 – 20	470E ER 32	70	50	M16 x 2,0
DC-BT30-05-02-26*	BT-DC 30	3 – 26	472E ER 40	70	63	M16 x 2,0
DC-BT40-06-02-10	BT-DC 40	1 – 10	426E ER 16	63	32	M10 x 1,5
DC-BT40-06-02-16	BT-DC 40	2 – 16	430E ER 25	60	42	M16 x 2,0
DC-BT40-06-02-20	BT-DC 40	2 – 20	470E ER 32	70	50	M16 x 2,0
DC-BT40-06-02-26	BT-DC 40	3 – 26	472E ER 40	80	63	M16 x 2,0
DC-BT40-06-02-10-1	BT-DC 40	1 – 10	426E ER 16	100	32	M10 x 1,5
DC-BT40-06-02-16-1	BT-DC 40	2 – 16	430E ER 25	100	42	M16 x 2,0
DC-BT40-06-02-20-1	BT-DC 40	2 – 20	470E ER 32	100	50	M16 x 2,0
DC-BT40-06-02-26-1	BT-DC 40	3 – 26	472E ER 40	100	63	M16 x 2,0
DC-BT40-06-02-10-2	BT-DC 40	1 – 10	426E ER 16	160	32	M10 x 1,5
DC-BT40-06-02-16-2	BT-DC 40	2 – 16	430E ER 25	160	42	M16 x 2,0
DC-BT40-06-02-20-2	BT-DC 40	2 – 20	470E ER 32	160	50	M16 x 2,0
DC-BT40-06-02-26-2	BT-DC 40	3 – 26	472E ER 40	160	63	M16 x 2,0

* Form JD (AD)

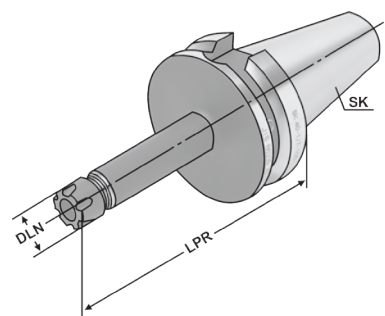
Delivery: With balanced clamping nut



Collet chucks for collets ISO 15488 (DIN 6499) ER-system - Mini



Application:
For mounting straight-shank tools in
collets.

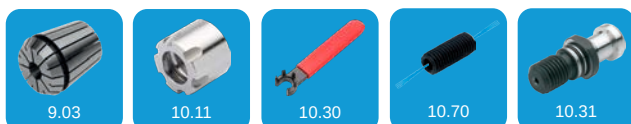


3



Order no.	SK	DCONWS Capacity	Typ	LPR	DLN	THID
DC-BT40-06-02-07	BT-DC 40	1 – 7	4008E ER 11	63	16	M8 x 1,25
DC-BT40-06-02-07-1	BT-DC 40	1 – 7	4008E ER 11	100	16	M8 x 1,25
DC-BT40-06-02-07-2	BT-DC 40	1 – 7	4008E ER 11	160	16	M8 x 1,25
DC-BT40-06-02-07-10	BT-DC 40	1 – 10	426E ER 16	55	22	7/16" 20 UNF
DC-BT40-06-02-07-10-1	BT-DC 40	1 – 10	426E ER 16	100	22	7/16" 20 UNF
DC-BT40-06-02-07-10-2	BT-DC 40	1 – 10	426E ER 16	160	22	7/16" 20 UNF
DC-BT40-06-02-07-13	BT-DC 40	2 – 13	428E ER 20	70	28	9/16" 18 UNF
DC-BT40-06-02-07-13-1	BT-DC 40	2 – 13	428E ER 20	100	28	9/16" 18 UNF
DC-BT40-06-02-07-13-2	BT-DC 40	2 – 13	428E ER 20	160	28	9/16" 18 UNF
DC-BT40-06-02-07-16	BT-DC 40	2 – 16	430E ER 25	70	35	11/16" 16 UN
DC-BT40-06-02-07-16-1	BT-DC 40	2 – 16	430E ER 25	100	35	11/16" 16 UN
DC-BT40-06-02-07-16-2	BT-DC 40	2 – 16	430E ER 25	160	35	11/16" 16 UN

Delivery: With balanced clamping nut and adjusting screw



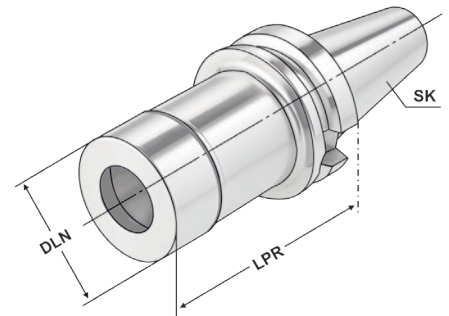
Precision collet chuck ER for collets ISO 15488

(DIN 6499) ER-system

3



Application:
For mounting straight-shank tools in
3 µm-collets.



ISO
7388-2
DC

Form
JD
(AD)



ISO
15488

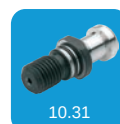
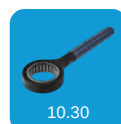
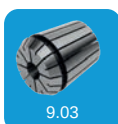
Order no.	SK	DCONWS Capacity	Typ	LPR	LB	DLN	THID
DC-BT30-05-P2-20-070	BT-DC 30	2 – 20	470E ER 32	70	48	50	M16 x 2,0
DC-BT40-05-P2-20-070	BT-DC 40	2 – 20	470E ER 32	70	43	50	M16 x 2,0
DC-BT40-05-P2-20-100	BT-DC 40	2 – 20	470E ER 32	100	73	50	M16 x 2,0

Advantages:

- Excellent concentricity in the system (chuck + collet + clamping nut)
- Extremely strong holding force (increases the holding power by at least 60% compared to standard ER chuck)
- Plain clamping nut without grooves for high speed machining

Note: Only nominal size DCONWS can be clamped.

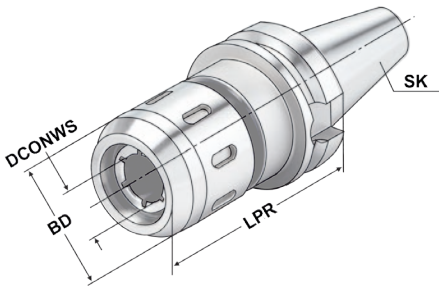
Delivery: With precision clamping nut



High Performance Milling Chuck |HKS-system



Application:
For mounting straight-shank tools acc. DIN
1835 form A+B+E and DIN 6535 form HB+HE



3

ISO 7388-2 DC

Form JD/JF (AD/B)

≤3µm

G6.3 15.000 min⁻¹

HKS

i

Ch. 11

Order no.	SK	DCONWS Capacity	Typ	DCONWS	LPR	BD
DC-BT40-06-64-20	BT-DC 40	3 – 20	HKS 20	20	90	53
DC-BT40-06-64-25	BT-DC 40	3 – 25	HKS 25	25	90	63
DC-BT40-06-64-32	BT-DC 40	3 – 32	HKS 32	32	90	68

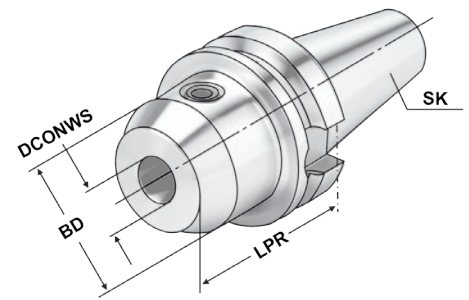
Size	20mm	25mm	32mm
Clamping torque	50-70 Nm	80-100 Nm	80-100 Nm
Clamping force	780 Nm	2000 Nm	2000 Nm



End mill holders DIN 6359 for end mills DIN 1835-B



Application:
For mounting straight-shank tools with
lateral flat according to DIN 1835 form B
(Weldon).



3

ISO
7388-2
DC

Form
JD/JF
(AD/B)

≤3µm

G2.5
25.000
min⁻¹

DIN
1835-B

H4

i
Ch. 11

Order no.	SK	DCONWS	TDCON	LPR	BD
DC-BT30-05-04-06*	BT-DC 30	6	H4	50	25
DC-BT30-05-04-08*	BT-DC 30	8	H4	50	28
DC-BT30-05-04-10*	BT-DC 30	10	H4	50	35
DC-BT30-05-04-12*	BT-DC 30	12	H4	50	42
DC-BT30-05-04-14*	BT-DC 30	14	H4	50	44
DC-BT30-05-04-16*	BT-DC 30	16	H4	63	48
DC-BT30-05-04-18*	BT-DC 30	18	H4	63	50
DC-BT30-05-04-20*	BT-DC 30	20	H4	63	52
DC-BT40-06-04-06	BT-DC 40	6	H4	50	25
DC-BT40-06-04-08	BT-DC 40	8	H4	50	28
DC-BT40-06-04-10	BT-DC 40	10	H4	63	35
DC-BT40-06-04-12	BT-DC 40	12	H4	63	42
DC-BT40-06-04-14	BT-DC 40	14	H4	63	44
DC-BT40-06-04-16	BT-DC 40	16	H4	63	48
DC-BT40-06-04-18	BT-DC 40	18	H4	63	50
DC-BT40-06-04-20	BT-DC 40	20	H4	63	52
DC-BT40-06-04-25	BT-DC 40	25	H4	90	65
DC-BT40-06-04-32	BT-DC 40	32	H4	100	72
DC-BT40-06-04-40	BT-DC 40	40	H4	120	80
DC-BT40-06-04-06-1	BT-DC 40	6	H4	100	25
DC-BT40-06-04-08-1	BT-DC 40	8	H4	100	28
DC-BT40-06-04-10-1	BT-DC 40	10	H4	100	35
DC-BT40-06-04-12-1	BT-DC 40	12	H4	100	42
DC-BT40-06-04-14-1	BT-DC 40	14	H4	100	44
DC-BT40-06-04-16-1	BT-DC 40	16	H4	100	48
DC-BT40-06-04-18-1	BT-DC 40	18	H4	100	50
DC-BT40-06-04-20-1	BT-DC 40	20	H4	100	52

* Form JD (AD)



10.69



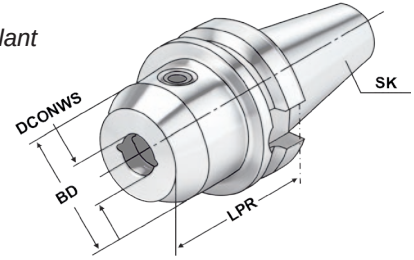
10.31

End mill holders DIN 6359 with coolant channels

for end mills DIN 1835-B



Application:
For mounting straight-shank tools with lateral flat according to DIN 1835 form B (Weldon). With coolant channels for optimal coolant at the cutting edge.



3



Order no.	SK	DCONWS	TDCON	LPR	BD
DC-BT40-06-04-06-CC	BT-DC 40	6	H4	50	25
DC-BT40-06-04-08-CC	BT-DC 40	8	H4	50	28
DC-BT40-06-04-10-CC	BT-DC 40	10	H4	63	35
DC-BT40-06-04-12-CC	BT-DC 40	12	H4	63	42
DC-BT40-06-04-14-CC	BT-DC 40	14	H4	63	44
DC-BT40-06-04-16-CC	BT-DC 40	16	H4	63	48
DC-BT40-06-04-18-CC	BT-DC 40	18	H4	63	50
DC-BT40-06-04-20-CC	BT-DC 40	20	H4	63	52
DC-BT40-06-04-25-CC	BT-DC 40	25	H4	90	65
DC-BT40-06-04-32-CC	BT-DC 40	32	H4	100	72
DC-BT40-06-04-40-CC	BT-DC 40	40	H4	120	80

Note: From DCONWS = 25 on two clamping screws
 DCONWS = 6 to 18 with two coolant channels
 DCONWS = 20 to 20 with four coolant channels
 For tools with through coolant an O-ring must be used.

Delivery: With clamping screw and O-ring

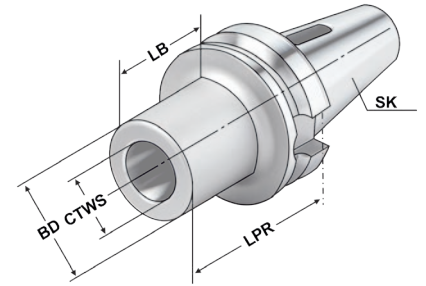


Adaptor sleeves for MT with tang DIN 6383

3



Application:
For mounting tools with Morse taper shank
and tang according to DIN 228-1 form B.



ISO
7388-2
DC

Form
JD/JF
(AD/B)

$\leq 5\mu\text{m}$

G6.3
15.000
min⁻¹

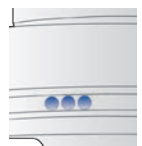
DIN
6383

AT5

Order no.	SK	CTWS	TDCON	LPR	BD	LB
DC-BT30-05-07-01*	BT-DC 30	1	AT5	45	25	23
DC-BT30-05-07-02*	BT-DC 30	2	AT5	60	32	38
DC-BT30-05-07-03*	BT-DC 30	3	AT5	75	40	53
DC-BT40-06-07-01	BT-DC 40	1	AT5	50	25	23
DC-BT40-06-07-02	BT-DC 40	2	AT5	50	32	23
DC-BT40-06-07-03	BT-DC 40	3	AT5	70	40	43
DC-BT40-06-07-04	BT-DC 40	4	AT5	95	48	68

* Form JD (AD)

Balanced type



Order no. Version

Balancing at G 2.5 of pre-balanced Kemmler-tools

W25 Without balancing report

W25.2 With balancing report

Balancing of unbalanced tools

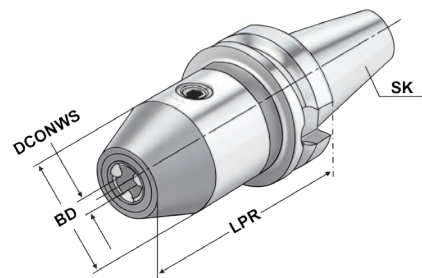
W25.1 Without balancing report



CNC-Drill chucks for clockwise and counter clockwise rotation



Application:
For mounting tools with straight shanks.



3



Order no.	SK	DCONWS Capacity	LPR	BD	DRVS
DC-BT30-05-15-13*	BT-DC 30	1,0 – 13	93	50	6
DC-BT30-05-15-16*	BT-DC 30	2,5 – 16	98	50	6
DC-BT40-06-15-13	BT-DC 40	1,0 – 13	98	50	6
DC-BT40-06-15-16	BT-DC 40	2,5 – 16	103	50	6

* Form JD (AD)

Note: High precision and accurate concentricity of ≤ 0.03 mm. No automatic slackening of the clamping force while machining with either clockwise or counter clockwise rotation or on spindle stop. Clamping and releasing effected by means of an Allen wrench.

Delivery: Without wrench

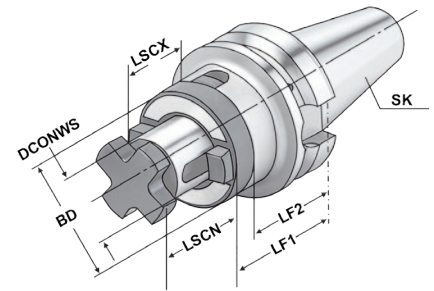


Combi shell mill holders DIN 6358

3



Application:
For mounting milling cutters with transverse or longitudinal groove.


 ISO
7388-2
DC

 Form
JD/JF
(AD/B)

 $\leq 5\mu\text{m}$

 G6.3
15.000
min⁻¹

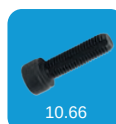
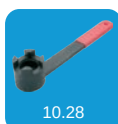
 DIN
6358

h6

Order no.	SK	DCONWS	TDCON	LF1	LF2	LSCN	LSCX	BD
DC-BT30-05-10-16*	BT-DC 30	16	h6	45	35	17	27	32
DC-BT30-05-10-22*	BT-DC 30	22	h6	47	35	19	31	40
DC-BT30-05-10-27*	BT-DC 30	27	h6	49	35	21	33	48
DC-BT40-06-10-16	BT-DC 40	16	h6	55	45	17	27	32
DC-BT40-06-10-22	BT-DC 40	22	h6	55	43	19	31	40
DC-BT40-06-10-27	BT-DC 40	27	h6	55	43	21	33	48

* Form JD (AD)

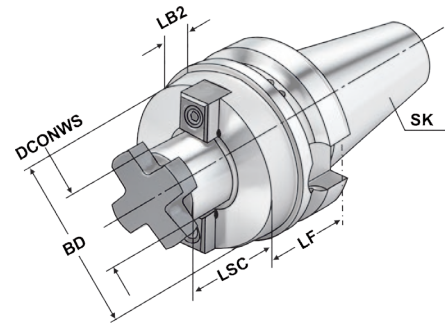
Delivery: With retaining screw, driving ring and feather key



Shell mill holders DIN 6357 with enlarged contact face and coolant exit bores on the end face



Application:
For mounting milling cutters with
transversal groove.



3

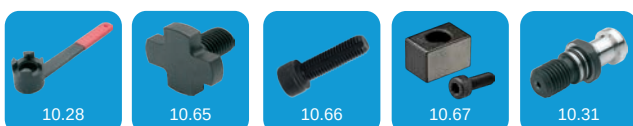


Order no.	SK	DCONWS	TDCON	LF	LSC	LB2	BD
DC-BT30-05-11-16*	BT-DC 30	16	h6	40	17	18	38
DC-BT30-05-11-22*	BT-DC 30	22	h6	40	19	18	48
DC-BT30-05-11-27*	BT-DC 30	27	h6	40	21	18	58
DC-BT30-05-11-32*	BT-DC 30	32	h6	50	24	28	78
DC-BT40-06-11-16	BT-DC 40	16	h6	40	17	13	38
DC-BT40-06-11-22	BT-DC 40	22	h6	40	19	13	48
DC-BT40-06-11-27	BT-DC 40	27	h6	40	21	13	58
DC-BT40-06-11-32	BT-DC 40	32	h6	50	24	23	78
DC-BT40-06-11-40	BT-DC 40	40	h6	50	27	23	88
DC-BT40-06-11-16-1	BT-DC 40	16	h6	100	17	74	38
DC-BT40-06-11-22-1	BT-DC 40	22	h6	100	19	74	48
DC-BT40-06-11-27-1	BT-DC 40	27	h6	100	21	74	58
DC-BT40-06-11-16-2	BT-DC 40	16	h6	160	17	134	38
DC-BT40-06-11-22-2	BT-DC 40	22	h6	160	19	134	48
DC-BT40-06-11-27-2	BT-DC 40	27	h6	160	21	134	58

* Form JD (AD) BT-DC 30 without coolant exit bores on the end face

DCONWS = 40 For large diameter face mill cutters with four additional threaded holes according to DIN 2079.

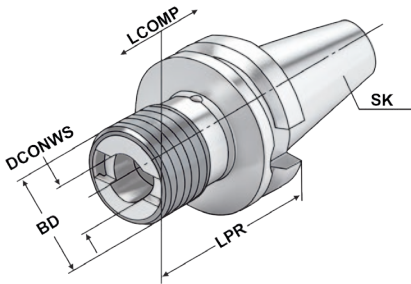
Delivery: With drivers, cross head retaining screw and cylinder head retaining screw for cutters with central coolant.



Quick change tapping chucks with length compensation
on compression and expansion



Application:
For the chucking of quick change adaptors
for taps.



3

ISO
7388-2
DC

Form
J
(A)

Ch. 11

Order no.	SK	Capacity	SZID	DCONWS	LPR	BD	LCOMP
DC-BT40-05-16-12	BT-DC 40	M3 – M14	1	19	65	38	7
DC-BT40-05-16-20	BT-DC 40	M5 – M22	2	31	93	54	12

Note: For machining centres without synchronous spindle.

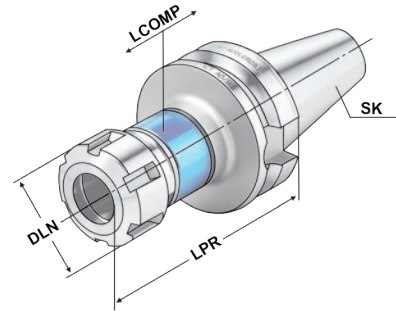


Tapping chucks for synchronisation for collets

DIN 6499 (ISO 15488) ER-system



Application:
For machining centres with synchronous spindle.



3



Order no.	SK	DCONWS Capacity	Typ	LPR	DLN	LCOMP
DC-BT40-06-16-02-10*	BT-DC 40	M3 – M12	426E ER 16 SW25	81	28	0,5
DC-BT40-06-16-02-16	BT-DC 40	M3 – M20	430E ER 25	89	42	0,5
DC-BT40-06-16-02-20	BT-DC 40	M3 – M27	470E ER 32	110	50	0,5

* Hexagonal clamping nut

Note:

- Synchro tapping chucks compensate synchronisation errors.
- Minimal length compensation on compression and expansion balances very small pitch differences between synchro spindle and tap, which can cause high frictional forces on the thread flanks.
- A possible increase of axial force during the tapping process is reduced to a minimum.
- Suitable for internal coolant.
- Coolant pressure up to max. 100 bar.

Delivery:

With balanced clamping nut

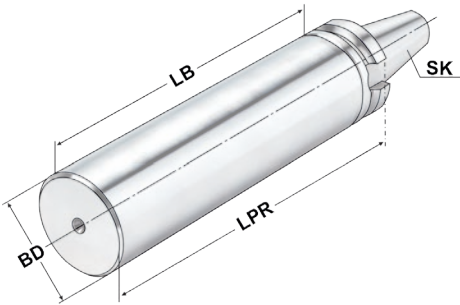


Boring bar blanks

3



Application:
For the manufacturing of special tools.



ISO
7388-2
DC

Form
J
(A)

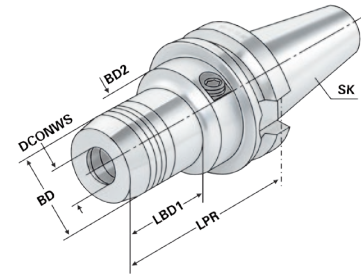
Order no.	SK	BD	LB	LPR
DC-BT30-05-17-40	BT-DC 30	40,5	138	160
DC-BT40-05-17-63	BT-DC 40	63	215	250

Version: Cone and flange hardened and grinded. Soft body for later processing.





Application:
For mounting straight-shank tools acc. DIN 1835
form A+B+E and DIN 6535 form HB+HE (larger
than Ø 20 mm only with reduction sleeve).


ISO
7388-2
DC

Form
JD/JF
(AD/B)

i
Ch. 11

Order no.	SK	DCONWS	LPR	BD	BD2	LSCX	ADJRGALBD1	DRVS	THID	
DC-BT30-05-H06*	BT-DC 30	6	60	26	45	37	10	33	5	M6x1
DC-BT30-05-H08*	BT-DC 30	8	64	28	45	37	10	29	5	M6x1
DC-BT30-05-H10*	BT-DC 30	10	64	30	45	42	10	37	5	M6x1
DC-BT30-05-H12*	BT-DC 30	12	72	32	45	47	10	43	5	M8x1
DC-BT30-05-H14*	BT-DC 30	14	70	34	45	47	10	45	5	M10x1
DC-BT30-05-H16*	BT-DC 30	16	90	38	45	52	10	52	5	M12x1
DC-BT30-05-H18*	BT-DC 30	18	90	40	45	52	10	52	5	M12x1
DC-BT30-05-H20*	BT-DC 30	20	90	42	45	52	10	52	5	M12x1
DC-BT40-05-H06	BT-DC 40	6	90	26	50	37	10	43	5	M6x1
DC-BT40-05-H08	BT-DC 40	8	90	28	50	37	10	43,5	5	M6x1
DC-BT40-05-H10	BT-DC 40	10	90	30	50	42	10	44	5	M8x1
DC-BT40-05-H12	BT-DC 40	12	90	32	50	47	10	44,5	5	M8x1
DC-BT40-05-H14	BT-DC 40	14	90	34	50	47	10	47,5	5	M10x1
DC-BT40-05-H16	BT-DC 40	16	90	38	50	52	10	47,5	5	M12x1
DC-BT40-05-H18	BT-DC 40	18	90	40	50	52	10	47,5	5	M12x1
DC-BT40-05-H20	BT-DC 40	20	90	42	50	52	10	47,5	5	M12x1
DC-BT40-05-H25	BT-DC 40	25	90	50	50	58	10	51	6	M12x1
DC-BT40-05-H32	BT-DC 40	32	110	60	60	64	10	81,5	6	M12x1

LSCX = Clamping depth, max.

ADJRGAL = Length adjustment range, max.

* Form JD (AD)

Delivery: Without wrench

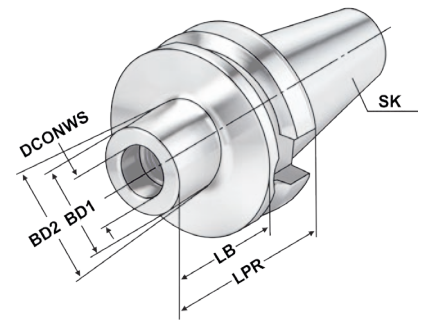


Milling arbors for screw-in cutters

3



Application:
For mounting screw-in cutters with thread.



ISO
7388-2
DC

Form
JD/JF
(AD/B)

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

G2.5
25.000
min⁻¹

H7

Order no.	SK	THSZWS	DCONWS	BD1	BD2	LPR	LB
DC-BT40-06-06-12	BT-DC 40	M12	12,5	21	24	52	25
DC-BT40-06-06-12-2	BT-DC 40	M12	12,5	21	31	102	75
DC-BT40-06-06-12-3	BT-DC 40	M12	12,5	21	33	127	100
DC-BT40-06-06-16	BT-DC 40	M16	17	29	29	52	25
DC-BT40-06-06-16-1	BT-DC 40	M16	17	29	34	77	50
DC-BT40-06-06-16-2	BT-DC 40	M16	17	29	34	102	75
DC-BT40-06-06-16-3	BT-DC 40	M16	17	29	36	127	100

Recommended tightening torques

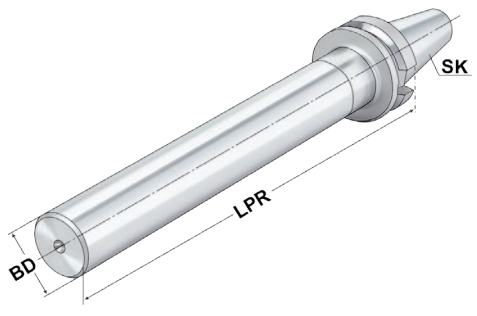
M6	10 Nm
M8	25 Nm
M10	40 Nm
M12	60 Nm
M16	50 Nm



Test arbors



Application:
For the inspection of machine tools according to ISO recommendation R230 or for testing the tool spindle.



3

ISO
7388-2
DC

Form
J
(A)


≤3µm

Order no.	SK	LPR	BD	Tolerance	max. concentricity deviation
DC-BT30-05-18-32	BT-DC 30	300	32	0,003	0,003
DC-BT40-05-18-40	BT-DC 40	300	40	0,003	0,003

Delivery: *Delivery with test certificate*

Wooden box for test arbors



Application:
For the storage of test arbors.

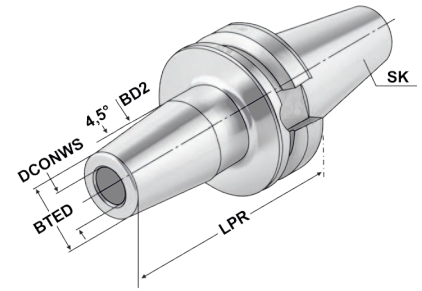


Order no.	Size	for cones
WB-18	460×130×115	SK 30 / 40 / 50

Shrink chucks 4,5° for mounting of solid carbide and HSS-tool shanks



Application:
For mounting straight-shank tools.



3

ISO
7388-2
DC

Form
JD
(AD)

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

G2.5
25.000
min⁻¹

h6

Order no.	SK	DCONW	STD	CON	LPR	BTED	BD	LSCN	LSCX	ADJRGA	THID
DC-BT30-05-70-03	BT-DC 30	3	h4	80	11	15	6	-	-	-	-
DC-BT30-05-70-04	BT-DC 30	4	h4	80	14	22	8	-	5	-	-
DC-BT30-05-70-05	BT-DC 30	5	h4	80	16	22	10	-	5	-	-
DC-BT30-05-70-06	BT-DC 30	6	h6	80	21	27	22	36	10	M5x0,8	
DC-BT30-05-70-08	BT-DC 30	8	h6	80	21	27	26	36	10	M6x1	
DC-BT30-05-70-10	BT-DC 30	10	h6	90	24	32	31	41	10	M8x1	
DC-BT30-05-70-12	BT-DC 30	12	h6	90	24	32	36	46	10	M10x1	
DC-BT30-05-70-14	BT-DC 30	14	h6	90	27	34	36	46	10	M10x1	
DC-BT30-05-70-16	BT-DC 30	16	h6	90	27	34	39	49	10	M12x1	
DC-BT30-05-70-18	BT-DC 30	18	h6	90	33	42	39	49	10	M12x1	
DC-BT30-05-70-20	BT-DC 30	20	h6	90	33	42	41	51	10	M16x1	

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

For Ø 3, 4 and 5 mm only solid carbide tool shanks must be used!

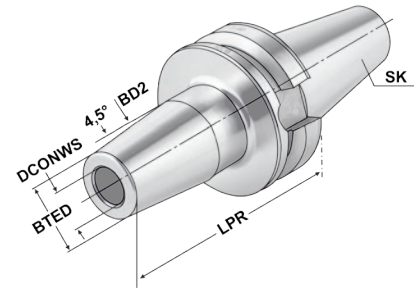


Shrink chucks 4,5° for mounting of solid carbide and HSS-tool shanks

Dual Contact ISO 7388-2



Application:
For mounting straight-shank tools.



3

ISO
7388-2
DC

Form
JD/JF
(AD/B)



h6

Order no.	SK	DCONWS	TDCON	LPR	BTED	BD	LSCN	LSCX	ADJRGA	THID
DC-BT40-06-70-03	BT-DC 40	3	h4	80	11	15	6	-	-	-
DC-BT40-06-70-04	BT-DC 40	4	h4	80	14	22	8	-	-	-
DC-BT40-06-70-05	BT-DC 40	5	h4	80	16	22	10	-	-	-
DC-BT40-06-70-06	BT-DC 40	6	h6	90	21	27	22	36	10	M5x0,8
DC-BT40-06-70-08	BT-DC 40	8	h6	90	21	27	26	36	10	M6x1
DC-BT40-06-70-10	BT-DC 40	10	h6	90	24	32	31	41	10	M8x1
DC-BT40-06-70-12	BT-DC 40	12	h6	90	24	32	36	46	10	M10x1
DC-BT40-06-70-14	BT-DC 40	14	h6	90	27	34	36	46	10	M10x1
DC-BT40-06-70-16	BT-DC 40	16	h6	90	27	34	39	49	10	M12x1
DC-BT40-06-70-18	BT-DC 40	18	h6	90	33	42	39	49	10	M12x1
DC-BT40-06-70-20	BT-DC 40	20	h6	90	33	42	41	51	10	M16x1
DC-BT40-06-70-25	BT-DC 40	25	h6	100	44	53	47	57	10	M16x1
DC-BT40-06-70-32	BT-DC 40	32	h6	100	44	53	51	61	10	M16x1
DC-BT40-06-70-06-1	BT-DC 40	6	h6	120	21	27	22	36	10	M5x0,8
DC-BT40-06-70-08-1	BT-DC 40	8	h6	120	21	27	26	36	10	M6x1
DC-BT40-06-70-10-1	BT-DC 40	10	h6	120	24	32	31	41	10	M8x1
DC-BT40-06-70-12-1	BT-DC 40	12	h6	120	24	32	36	46	10	M10x1
DC-BT40-06-70-14-1	BT-DC 40	14	h6	120	27	34	36	46	10	M10x1
DC-BT40-06-70-16-1	BT-DC 40	16	h6	120	27	34	39	49	10	M12x1
DC-BT40-06-70-20-1	BT-DC 40	20	h6	120	33	42	41	51	10	M16x1
DC-BT40-06-70-06-2	BT-DC 40	6	h6	160	21	27	22	36	10	M5x0,8
DC-BT40-06-70-08-2	BT-DC 40	8	h6	160	21	27	26	36	10	M6x1
DC-BT40-06-70-10-2	BT-DC 40	10	h6	160	24	32	31	41	10	M8x1
DC-BT40-06-70-12-2	BT-DC 40	12	h6	160	24	32	36	46	10	M10x1
DC-BT40-06-70-14-2	BT-DC 40	14	h6	160	27	34	36	46	10	M10x1
DC-BT40-06-70-16-2	BT-DC 40	16	h6	160	27	34	39	49	10	M12x1
DC-BT40-06-70-18-2	BT-DC 40	18	h6	160	33	42	39	49	10	M12x1
DC-BT40-06-70-20-2	BT-DC 40	20	h6	160	33	42	41	51	10	M16x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

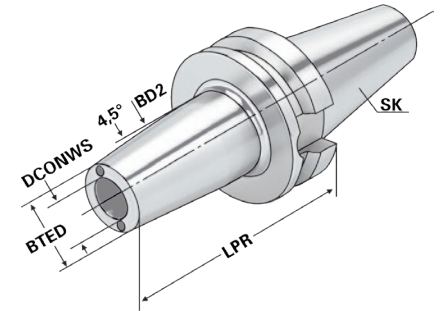
For Ø 3, 4 and 5 mm only solid carbide tool shanks must be used!



Shrink chucks 4,5° for mounting of solid carbide and HSS-tool shanks

3

Application:
For mounting straight-shank tools.



ISO
7388-2
DC

Form
JD/JF
(AD/B)

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

G2.5
25.000
min⁻¹

h6



Order no.	SK	DCONWS	TDCON	LPR	BTED	BD2	LSCN	LSCX	ADJRG	THID
DC-BT40-06-70-06-CC	BT-DC 40 6		h6	90	21	27	22	36	10	M5x0,8
DC-BT40-06-70-08-CC	BT-DC 40 8		h6	90	21	27	26	36	10	M6x1
DC-BT40-06-70-10-CC	BT-DC 40 10		h6	90	24	32	31	41	10	M8x1
DC-BT40-06-70-12-CC	BT-DC 40 12		h6	90	24	32	36	46	10	M10x1
DC-BT40-06-70-14-CC	BT-DC 40 14		h6	90	27	34	36	46	10	M10x1
DC-BT40-06-70-16-CC	BT-DC 40 16		h6	90	27	34	39	49	10	M12x1
DC-BT40-06-70-18-CC	BT-DC 40 18		h6	90	33	42	39	49	10	M12x1
DC-BT40-06-70-20-CC	BT-DC 40 20		h6	90	33	42	41	51	10	M16x1
DC-BT40-06-70-06-1-CC	BT-DC 40 6		h6	120	21	27	22	36	10	M5x0,8
DC-BT40-06-70-08-1-CC	BT-DC 40 8		h6	120	21	27	26	36	10	M6x1
DC-BT40-06-70-10-1-CC	BT-DC 40 10		h6	120	24	32	31	41	10	M8x1
DC-BT40-06-70-12-1-CC	BT-DC 40 12		h6	120	24	32	36	46	10	M10x1
DC-BT40-06-70-14-1-CC	BT-DC 40 14		h6	120	27	34	36	46	10	M10x1
DC-BT40-06-70-16-1-CC	BT-DC 40 16		h6	120	27	34	39	49	10	M12x1
DC-BT40-06-70-18-1-CC	BT-DC 40 18		h6	120	33	42	39	49	10	M12x1
DC-BT40-06-70-20-1-CC	BT-DC 40 20		h6	120	33	42	41	51	10	M16x1

LSCX = Clamping depth, max.

ADJRG = Length adjustment range, max.

Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 6–Ø 25 with h₆-tolerance



10.84

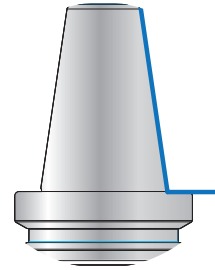


10.31

Steep taper toolholders with full face contact

The advantages are:

- Machine performance can be used to the full extent
- Stable and bigger, complete full face contact
- Less vibrations due to large full face contact
- Better surface finish and higher reliability of processing
- Longer service life of the cutting tools
- Better tool change repeat accuracy
- No loss of stability at high spindle speeds



3



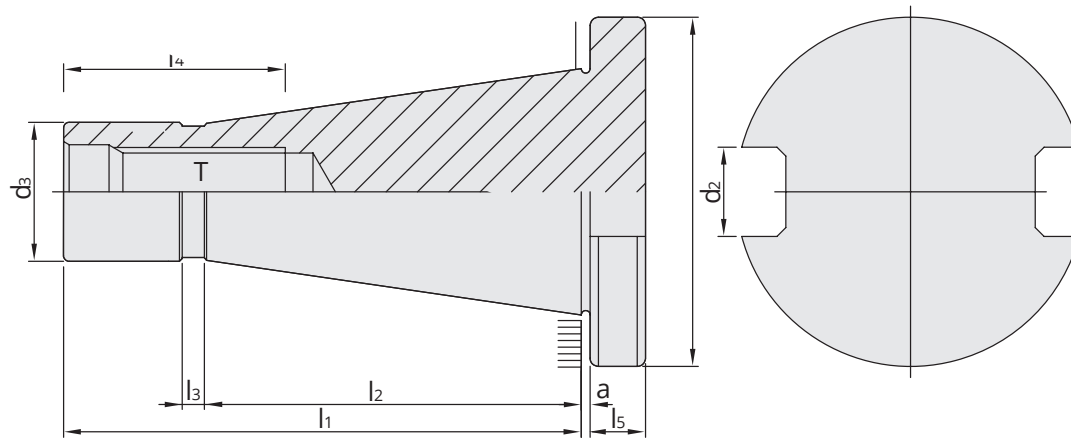
DIN 2080

4



**Toolholders
DIN 2080**

4



SK	D	d ₁	d ₂	d ₃	a	l ₁	l ₂	l ₃	l ₄	l ₅	T
	0 -0,4		H12	min	±0.2					±0.15	
30	50	31,75	16,1	17,04	1,6	68,4	48,4	3	24	8	M12
40★	63	44,45	16,1	24,92	1,6	93,4	65,4	5	32	10	M16
50★	97,5	69,85	25,7	39,19	3,2	126,8	101,8	8	47	12	M24

★ With plastic protection ring

Pre-balanced G 6,3 15.000 min⁻¹

G 2.5 Fine balancing at extra charge

Material: Alloyed case-hardened steel, tensile core strength of min. 950 N/mm².
Case hardened HRC 60 ± 2 (HV 700 ± 50), hardening depth 0.8 mm ± 0.2 mm,
black-finished and precisely grinded.

Accuracy: Quality of taper < AT 3 according to DIN 7187 and DIN 2080.

Normative references: DIN 2080-1:2011-11 7/24 taper shanks for tools and clamping devices

4.05



4.06



4.07



4.09



4.10



4.11



4.12



4.13



4.14



4.15



4.16



4.17

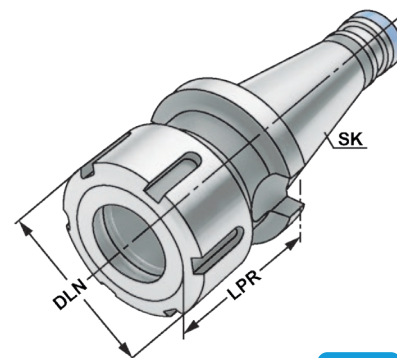


4.18



Collet chucks DIN 6391 for collets ISO 10897 (DIN 6388) OZ-system


Application:
For mounting straight-shank tools in
collets.


4

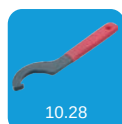
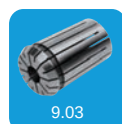
DIN
2080

Form
AD

ISO
10897


Order no.	SK	DCONWS Capacity	Typ	LPR	DLN	THID
SK30-01-01-16	SK 30	2 – 16	415E OZ 16	50	43	M16 x 2,0
SK40-01-01-16	SK 40	2 – 16	415E OZ 16	55	43	M16 x 2,0
SK40-01-01-25	SK 40	2 – 25	462E OZ 25	66	60	M16 x 2,0
SK40-01-01-32	SK 40	3 – 32	467E OZ 32	95	72	M16 x 2,0
SK50-01-01-25	SK 50	2 – 25	462E OZ 25	71	60	M16 x 2,0
SK50-01-01-32	SK 50	3 – 32	467E OZ 32	73	72	M16 x 2,0

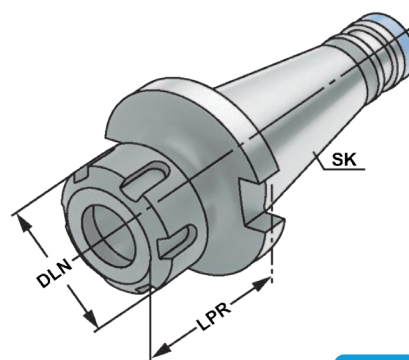
Delivery: With ball bearing clamping nut



Collet chucks for collets ISO 15488 (DIN 6499) ER-system



Application:
For mounting straight-shank tools in
collets.



4

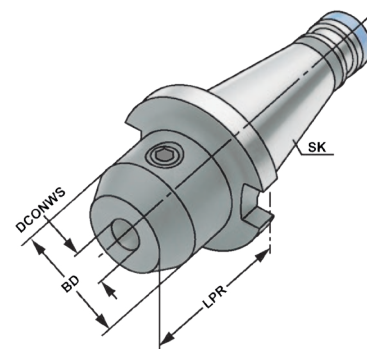
Order no.	SK	DCONWS Capacity	Typ	LPR	DLN	THID
SK30-01-02-16	SK 30	2 – 16	430E ER 25	50	42	M16 x 2,0
SK30-01-02-20	SK 30	2 – 20	470E ER 32	50	50	M16 x 2,0
SK40-01-02-16	SK 40	2 – 16	430E ER 25	50	42	M16 x 2,0
SK40-01-02-20	SK 40	2 – 20	470E ER 32	50	50	M16 x 2,0
SK40-01-02-26	SK 40	3 – 26	472E ER 40	80	63	M16 x 2,0
SK50-01-02-20	SK 50	2 – 20	470E ER 32	63	50	M16 x 2,0
SK50-01-02-26	SK 50	3 – 26	472E ER 40	63	63	M16 x 2,0

Delivery: With balanced clamping nut



End mill holders DIN 6359 for end mills DIN 1835-B


Application:
For mounting straight-shank tools with lateral
flat according to DIN 1835 form B (Weldon).


4

DIN
2080

Form
AD

DIN
1835-B

H4



Order no.	SK	DCONWS	TDCON	LPR	BD
SK30-01-04-06	SK 30	6	H4	40	25
SK30-01-04-08	SK 30	8	H4	40	28
SK30-01-04-10	SK 30	10	H4	40	35
SK30-01-04-12	SK 30	12	H4	40	42
SK30-01-04-14	SK 30	14	H4	50	44
SK30-01-04-16	SK 30	16	H4	50	48
SK30-01-04-18	SK 30	18	H4	50	50
SK30-01-04-20	SK 30	20	H4	63	52
SK40-01-04-06	SK 40	6	H4	50	25
SK40-01-04-08	SK 40	8	H4	50	28
SK40-01-04-10	SK 40	10	H4	50	35
SK40-01-04-12	SK 40	12	H4	50	42
SK40-01-04-14	SK 40	14	H4	50	44
SK40-01-04-16	SK 40	16	H4	63	48
SK40-01-04-18	SK 40	18	H4	63	50
SK40-01-04-20	SK 40	20	H4	63	52
SK40-01-04-25	SK 40	25	H4	80	65
SK40-01-04-32	SK 40	32	H4	80	72
SK40-01-04-40	SK 40	40	H4	90	80

Note: From DCONWS = 25 on two clamping screws

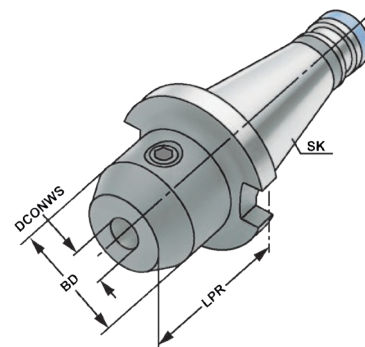
Delivery: With clamping screw



End mill holders DIN 6359 for end mills DIN 1835-B



Application:
For mounting straight-shank tools with lateral flat according to DIN 1835 form B (Weldon).



DIN 2080

Form AD

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

G6.3
15.000
min⁻¹

DIN 1835-B

H4

Ch. 11

Order no.	SK	DCONWS	TDCON	LPR	BD
SK50-01-04-06	SK 50	6	H4	63	25
SK50-01-04-08	SK 50	8	H4	63	28
SK50-01-04-10	SK 50	10	H4	63	35
SK50-01-04-12	SK 50	12	H4	63	42
SK50-01-04-14	SK 50	14	H4	63	44
SK50-01-04-16	SK 50	16	H4	63	48
SK50-01-04-18	SK 50	18	H4	63	50
SK50-01-04-20	SK 50	20	H4	63	52
SK50-01-04-25	SK 50	25	H4	80	65
SK50-01-04-32	SK 50	32	H4	80	72
SK50-01-04-40	SK 50	40	H4	90	80

Note: From DCONWS = 25 on two clamping screws

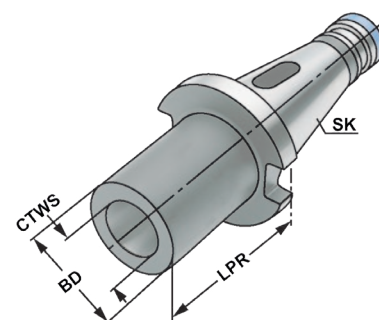
Delivery: With clamping screw



Adaptor sleeves for MT with tang DIN 6383



Application:
For mounting tools with Morse taper shank
and tang according to DIN 228-1 form B.



4

DIN
2080

Form
AD



DIN
6383

AT5

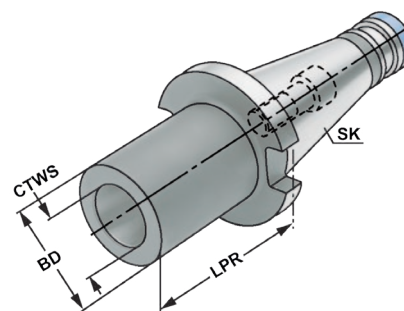
Order no.	SK	CTWS	TDCON	LPR	BD
SK30-01-07-01	SK 30	1	AT5	50	25
SK30-01-07-02	SK 30	2	AT5	50	32
SK30-01-07-03	SK 30	3	AT5	75	40
SK40-01-07-01	SK 40	1	AT5	50	25
SK40-01-07-02	SK 40	2	AT5	50	32
SK40-01-07-03	SK 40	3	AT5	65	40
SK40-01-07-04	SK 40	4	AT5	95	48
SK50-01-07-01	SK 50	1	AT5	45	25
SK50-01-07-02	SK 50	2	AT5	60	32
SK50-01-07-03	SK 50	3	AT5	65	40
SK50-01-07-04	SK 50	4	AT5	70	48
SK50-01-07-05	SK 50	5	AT5	105	63



Adaptor sleeves for MT with drawbar thread DIN 6364



Application:
For clamping tools with Morse taper shank and thread according to DIN 228-1 form A.



DIN 2080

Form A

$\leq 5\mu\text{m}$

G6.3
15.000
min⁻¹

DIN 6364

AT5

4

Order no.	SK	CTWS	THID	LPR	BD
SK40-01-08-01	SK 40	1	M6	50	25
SK40-01-08-02	SK 40	2	M10	50	32
SK40-01-08-03	SK 40	3	M12	65	40
SK40-01-08-04	SK 40	4	M16	95	48
SK40-01-08-04A*	SK 40	4	M16	110	63
SK50-01-08-01	SK 50	1	M6	60	25
SK50-01-08-02	SK 50	2	M10	60	32
SK50-01-08-03	SK 50	3	M12	65	40
SK50-01-08-04	SK 50	4	M16	65	48
SK50-01-08-04A*	SK 50	4	M16	80	63
SK50-01-08-05	SK 50	5	M20	120	63
SK50-01-08-05A*	SK 50	5	M20	138	78

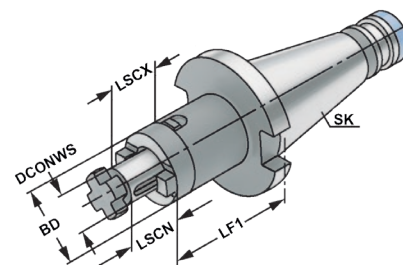
* With drive flats according to DIN 2201

Delivery: With built-in tightening bolt



Combi shell mill holders DIN 6358


Application:
For mounting milling cutters with transverse or longitudinal groove.


4

DIN
2080

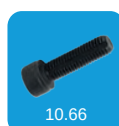
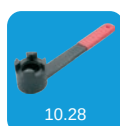
Form
AD

DIN
6358

h6

Order no.	SK	DCONWS	TDCON	LF1	LSCN	LSCX	BD
SK30-01-10-16	SK 30	16	h6	35	17	27	32
SK30-01-10-22	SK 30	22	h6	35	19	31	40
SK30-01-10-27	SK 30	27	h6	35	21	33	48
SK30-01-10-32	SK 30	32	h6	50	24	38	58
SK40-01-10-16	SK 40	16	h6	52	17	27	32
SK40-01-10-22	SK 40	22	h6	52	19	31	40
SK40-01-10-27	SK 40	27	h6	52	21	33	48
SK40-01-10-32	SK 40	32	h6	52	24	38	58
SK40-01-10-40	SK 40	40	h6	52	27	41	70
SK50-01-10-16	SK 50	16	h6	55	17	27	32
SK50-01-10-22	SK 50	22	h6	55	19	31	40
SK50-01-10-27	SK 50	27	h6	55	21	33	48
SK50-01-10-32	SK 50	32	h6	55	24	38	58
SK50-01-10-40	SK 50	40	h6	55	27	41	70

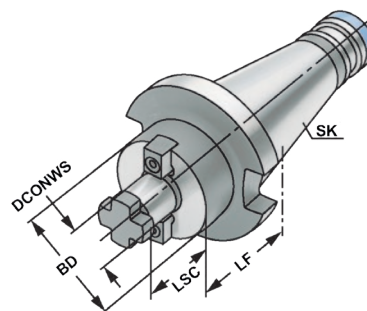
Delivery: With tightening bolt, driving ring and feather key



Shell mill holders DIN 6357 with enlarged contact face



Application:
For mounting milling cutters with transverse or longitudinal groove.



4

Order no.	SK	DCONWS	TDCON	LSC	LF	BD
SK40-01-11-16	SK 40	16	h6	17	30	38
SK40-01-11-22	SK 40	22	h6	19	30	48
SK40-01-11-27	SK 40	27	h6	21	30	58
SK40-01-11-32	SK 40	32	h6	24	30	78
SK40-01-11-40	SK 40	40	h6	27	30	88
SK50-01-11-22	SK 50	22	h6	19	35	48
SK50-01-11-27	SK 50	27	h6	21	35	58
SK50-01-11-32	SK 50	32	h6	24	40	78
SK50-01-11-40	SK 50	40	h6	27	33	88
SK50-01-11-60	SK 50	60	h6	40	55	129

DCONWS=40 & 60

Für große Planfräser mit vier zusätzlichen Gewindebohrungen nach DIN 2079.
For large diameter face mill cutters with four additional threaded holes according to DIN 2079.
Pour fraises à surfacer à grands diamètres avec 4 taraudages supplémentaires suivant DIN 2079.

Delivery:

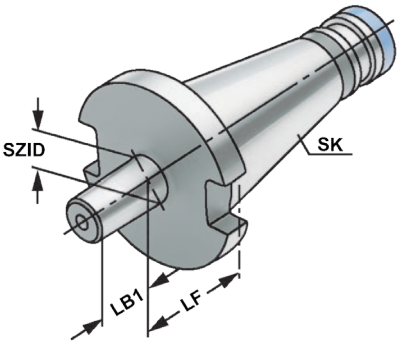
With drivers, cross head retaining screw and cylinder head retaining screw for cutters with central coolant.
For DCONWS=60 only with four fixation screws according to DIN 912.



Drill chuck adaptors DIN 238



Application:
For mounting drill chucks.



4

DIN 2080

Form A

$\leq 5\mu\text{m}$

G6.3
15.000
min⁻¹

DIN 238

AT4

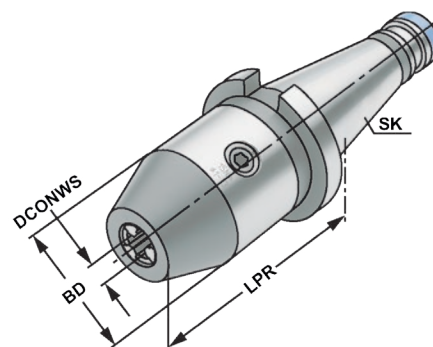
Order no.	SK	SZID	LF	LB1
SK30-01-14-12	SK 30	B12	15	18,5
SK30-01-14-16	SK 30	B16	17	24
SK40-01-14-12	SK 40	B12	15	18,5
SK40-01-14-16	SK 40	B16	17	24
SK40-01-14-18	SK 40	B18	17	32
SK50-01-14-16	SK 50	B16	20	24
SK50-01-14-18	SK 50	B18	20	32



CNC-Drill chucks for clockwise and counter clockwise rotation



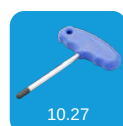
Application:
For mounting tools with straight shanks.



Order no.	SK	DCONWS Capacity	LPR	BD	DRVS
SK30-01-15-08	SK 30	0,5 – 8	60	36	4
SK30-01-15-13	SK 30	1,0 – 13	90	50	6
SK30-01-15-16	SK 30	2,5 – 16	95	50	6
SK40-01-15-08	SK 40	0,5 – 8	63	36	4
SK40-01-15-13	SK 40	1,0 – 13	83	50	6
SK40-01-15-16	SK 40	2,5 – 16	88	50	6
SK50-01-15-13	SK 50	1,0 – 13	85	50	6
SK50-01-15-16	SK 50	2,5 – 16	90	50	6

Note: High precision and accurate concentricity of ≤ 0.03 mm. No automatic slackening of the clamping force while machining with either clockwise or counter clockwise rotation or on spindle stop. Clamping and releasing effected by means of an Allen wrench.

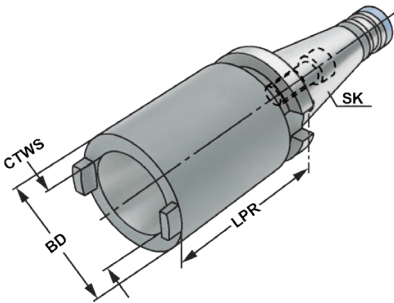
Delivery: Without wrench



Adaptor sleeves for ISO-toolholders



Application:
For holding tapers according to
ISO 7388-1 (DIN 69871), ISO 7388-2
(JIS B 6339) and DIN 2080.



4

DIN 2080

Form A

$\leq 5\mu\text{m}$

$G6.3$

 15.000

 min^{-1}

AT5

Order no.	SK	CTWS	LPR	BD
SK40-01-09-30	SK 40	SK 30	50	50
SK40-01-09-40	SK 40	SK 40	100	63
SK50-01-09-40	SK 50	SK 40	50	70
SK50-01-09-50	SK 50	SK 50	125	97

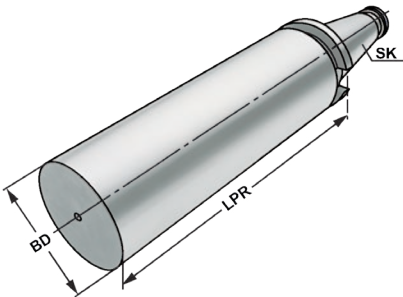
Note: Delivered with a built-in screw for DIN 2080 tools.
Additional screw for DIN ISO 7388-1 (DIN 69871) tools included.



Boring bar blanks



Application:
For the manufacturing of special tools.



DIN 2080

Form A

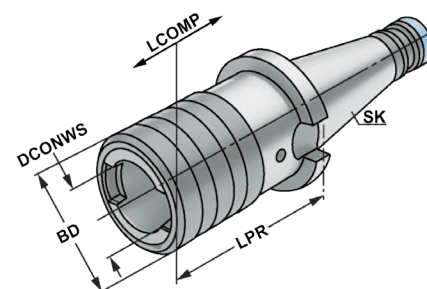
Order no.	SK	LPR	BD
SK40-01-17-63	SK 40	250	63
SK50-01-17-97	SK 50	315	97

Version: *Cone and flange hardened and grinded. Soft body for later processing.*

Quick change tapping chucks with length compensation on compression and expansion



Application:
For the chucking of quick change adaptors for taps.


4

DIN
2080

Form
A

i
Ch. 11

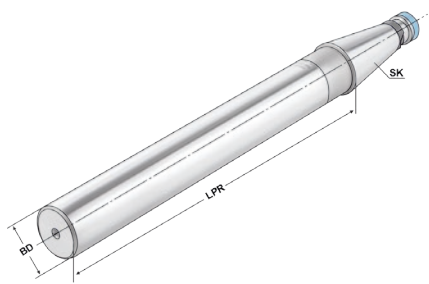
Order no.	SK	Capacity	Size	LPR	BD	DCONWS	LCOMP
SK30-01-16-12	SK 30	M3 – M14	1	55	38	19	7
SK30-01-16-20	SK 30	M5 – M22	2	86	54	31	12
SK40-01-16-12	SK 40	M3 – M14	1	55	38	19	7
SK40-01-16-20	SK 40	M5 – M22	2	86	54	31	12
SK40-01-16-36	SK 40	M14 – M36	3	132	78	48	17,5
SK50-01-16-12	SK 50	M3 – M14	1	62	38	19	7
SK50-01-16-20	SK 50	M5 – M22	2	90	54	31	12
SK50-01-16-36	SK 50	M14 – M36	3	117	78	48	17,5



Test arbors



Application:
For the inspection of machine tools according to ISO recommendation R230 or for testing the tool spindle.



DIN 2080

Form A

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

Order no.	SK	LPR	BD	Tolerance	max. concentricity deviation
SK40-01-18-40	SK 40	300	40	0,003	0,003
SK50-01-18-50	SK 50	300	50	0,003	0,003

Delivery: *Delivery with test certificate*

Wooden box for test arbors



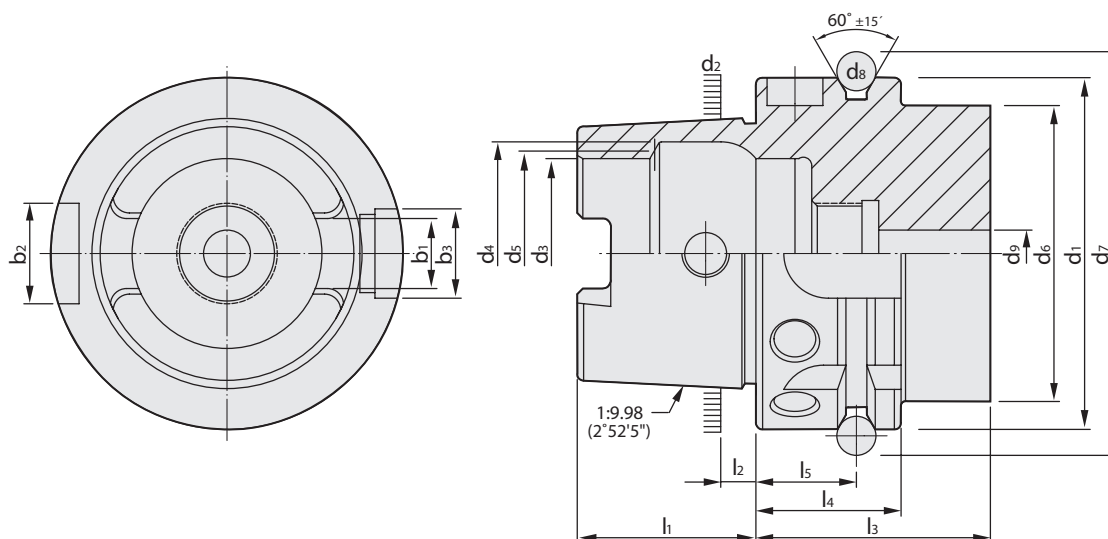
Application:
For the storage of test arbors.



Order no.	Size	for cones
WB-18	460×130×115	SK 30 / 40 / 50



**Toolholders
ISO 12164 and DIN 69893**


5

HSK	d_1 h10	d_2	d_3 H10	d_4 H11	d_5	d_6 max	d_7 0 -0,1	d_8	d_9 max	l_1 0 -0,2	l_2	l_3 min	l_4 0 -0,1	l_5 $\pm 0,1$	b_1 $\pm 0,04$	b_2 H10	b_3 H10
25	25	19,006	14	16,4	15	20	28,5	3	3	13	2,5	20	10	4,5	6,05	6	7
32	32	24,007	17	20,5	19	26	37	4	4,2	16	3,2	35	20	16	7,05	7	9
40	40	30,007	21	25,5	23	34	45	4	5	20	4	35	20	16	8,05	9	11
50	50	38,009	26	32	29	42	59,3	7	6,8	25	5	42	26	18	10,54	12	14
63	63	48,010	34	40	37	53	72,3	7	8,4	32	6,3	42	26	18	12,54	16	18
80	80	60,012	42	50	46	68	88,8	7	10,2	40	8	42	26	18	16,04	18	20
100	100	75,013	53	63	58	88	109,75	7	12	50	10	45	29	20	20,02	20	22
125	125	95,016	67	80	73	111	134,75	7	14	63	12,5	45	29	20	25,02	25	28

Pre-balanced G 6,3 15.000 min-1

G 2.5 Fine balancing at extra charge

Material: *Alloyed case-hardened steel, tensile core strength of min. 950 N/mm².
Case hardened HRC 60 ± 2 (HV 700 ± 50), hardening depth 0.8 mm ± 0.2 mm,
black-finished and precisely grinded.*

Normative references:

ISO 12164-1:2023-10

Hollow taper interface with flange contact surface -
Part 1: Shanks of types A, AB, C, CB and EB

ISO 12164-1:2001

Hollow taper interface with flange contact surface
- Part 1: Shanks; Dimensions

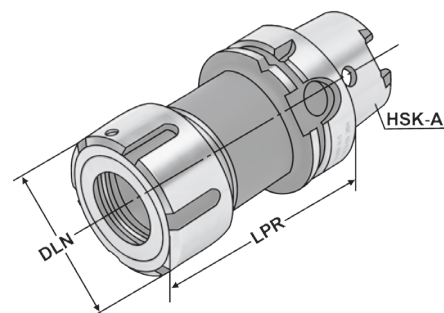
DIN 69893-1:2011

Hollow taper shanks with flange contact surface:
- Part 1: Hollow taper shanks type A and type C;
Dimensions and design

5.05	5.06	5.07	5.09
5.10	5.11	5.12	5.15
5.18	5.20	5.22	5.24
5.25	5.26	5.27	5.28
5.29	5.30	5.31	5.32
5.33	5.34	5.38	5.44
5.46	5.47	5.48	5.49-5.51
5.55	5.65	5.85	
HSK-E	HSK-F	HSK-T	



Application:
For mounting straight-shank tools in
collets.



ISO 12164

Form A

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

G2.5
25.000
min⁻¹

RFID Chip

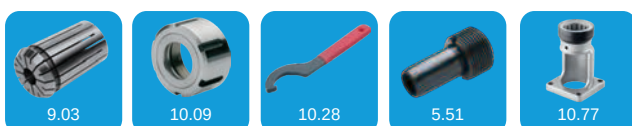
ISO 10897

Ch. 11

5

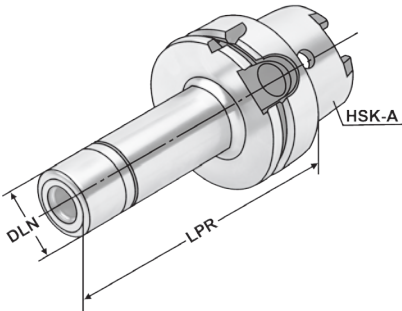
Order no.	HSK	DCONWS Capacity	Typ	LPR	DLN	THID
HSK-A63-01-16	HSK-A 63	2 – 16	415E OZ 16	100	43	M16 x 2,0
HSK-A63-01-25	HSK-A 63	2 – 25	462E OZ 25	100	60	M16 x 2,0
HSK-A63-01-32	HSK-A 63	3 – 32	467E OZ 32	120	72	M16 x 2,0
HSK-A100-01-16	HSK-A 100	2 – 16	415E OZ 16	110	43	M16 x 2,0
HSK-A100-01-25	HSK-A 100	2 – 25	462E OZ 25	120	60	M16 x 2,0
HSK-A100-01-32	HSK-A 100	3 – 32	467E OZ 32	130	72	M16 x 2,0

Delivery: With ball bearing clamping nut





Application:
For mounting straight-shank tools in collets.
To use for high speed cutting and high precision milling.



ISO 12164

Form A

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

RFID Chip

KPS

Ch. 11

Order no.	HSK	DCONWS Capacity	Typ	LPR	DLN	THID
HSK-A40-03-10	HSK-A 40	1 – 10	490EK KPS 10	75	27,5	M12 x 1,75
HSK-A40-03-16	HSK-A 40	4 – 16	496EK KPS 16	80	40,0	M18 x 1,50
HSK-A50-03-10	HSK-A 50	1 – 10	490EK KPS 10	60	27,5	M12 x 1,75
HSK-A50-03-16	HSK-A 50	4 – 16	496EK KPS 16	80	40,0	M18 x 1,50
HSK-A63-03-10	HSK-A 63	1 – 10	490EK KPS 10	100	27,5	M12 x 1,75
HSK-A63-03-10-2	HSK-A 63	1 – 10	490EK KPS 10	160	27,5	M12 x 1,75
HSK-A63-03-16	HSK-A 63	4 – 16	496EK KPS 16	120	40,0	M18 x 1,50
HSK-A63-03-16-2	HSK-A 63	4 – 16	496EK KPS 16	160	40,0	M18 x 1,50

Delivery: With balanced clamping nut

Balanced type

Order no.	Version
Balancing at G 2.5 of pre-balanced Konrad tools	
W25	Without balancing report
W25.2	With balancing report
Balancing of unbalanced tools	
W25.1	Without balancing report

9.03

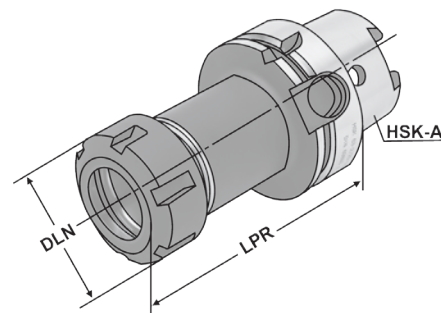
10.05

10.06

5.51



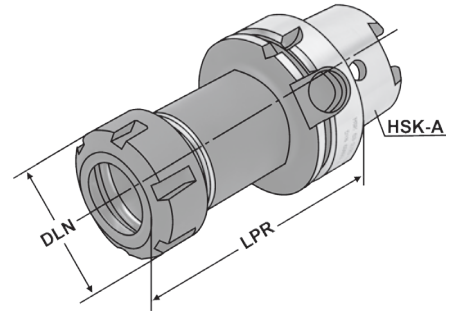
Application:
For mounting straight-shank tools in
collets.


5

Order no.	HSK	DCONWS Capacity	Typ	LPR	DLN	THID
HSK-A32-02-10	HSK-A 32	1 – 10	426E ER 16	80	32	M10 x 1,5
HSK-A32-02-20	HSK-A 32	2 – 20	470E ER 32	85	50	M16 x 2,0
HSK-A40-02-10	HSK-A 40	1 – 10	426E ER 16	80	32	M10 x 1,5
HSK-A40-02-16	HSK-A 40	2 – 16	430E ER 25	80	42	M16 x 2,0
HSK-A40-02-20	HSK-A 40	2 – 20	470E ER 32	80	50	M16 x 2,0
HSK-A50-02-10	HSK-A 50	1 – 10	426E ER 16	100	32	M10 x 1,5
HSK-A50-02-16	HSK-A 50	2 – 16	430E ER 25	80	42	M16 x 2,0
HSK-A50-02-20	HSK-A 50	2 – 20	470E ER 32	100	50	M16 x 2,0
HSK-A63-02-10-0	HSK-A 63	1 – 10	426E ER 16	75	32	-
HSK-A63-02-13-0	HSK-A 63	2 – 13	428E ER 20	75	35	-
HSK-A63-02-16-0	HSK-A 63	2 – 16	430E ER 25	75	42	-
HSK-A63-02-20-0	HSK-A 63	2 – 20	470E ER 32	75	50	-
HSK-A63-02-26-0	HSK-A 63	3 – 26	472E ER 40	85	63	-
HSK-A63-02-10	HSK-A 63	1 – 10	426E ER 16	100	32	M10 x 1,5
HSK-A63-02-13	HSK-A 63	2 – 13	428E ER 20	100	35	M12 x 1,75
HSK-A63-02-16	HSK-A 63	2 – 16	430E ER 25	100	42	M16 x 2,0
HSK-A63-02-20	HSK-A 63	2 – 20	470E ER 32	100	50	M16 x 2,0
HSK-A63-02-26	HSK-A 63	3 – 26	472E ER 40	120	63	M16 x 2,0
HSK-A63-02-10-130	HSK-A 63	1 – 10	426E ER 16	130	32	M10 x 1,5
HSK-A63-02-13-130	HSK-A 63	2 – 13	428E ER 20	130	35	M12 x 1,75
HSK-A63-02-16-130	HSK-A 63	2 – 16	430E ER 25	130	42	M16 x 2,0
HSK-A63-02-20-130	HSK-A 63	2 – 20	470E ER 32	130	50	M16 x 2,0
HSK-A63-02-26-130	HSK-A 63	3 – 26	472E ER 40	130	63	M16 x 2,0
HSK-A63-02-10-1	HSK-A 63	1 – 10	426E ER 16	160	32	M10 x 1,5
HSK-A63-02-13-1	HSK-A 63	2 – 13	428E ER 20	160	35	M12 x 1,75
HSK-A63-02-16-1	HSK-A 63	2 – 16	430E ER 25	160	42	M16 x 2,0
HSK-A63-02-20-1	HSK-A 63	2 – 20	470E ER 32	160	50	M16 x 2,0
HSK-A63-02-26-1	HSK-A 63	3 – 26	472E ER 40	160	63	M16 x 2,0
HSK-A63-02-10-3	HSK-A 63	1 – 10	426E ER 16	200	32	M10 x 1,5
HSK-A63-02-13-3	HSK-A 63	2 – 13	428E ER 20	200	35	M12 x 1,75
HSK-A63-02-16-3	HSK-A 63	2 – 16	430E ER 25	200	42	M16 x 2,0
HSK-A63-02-20-3	HSK-A 63	2 – 20	470E ER 32	200	50	M16 x 2,0
HSK-A63-02-26-3	HSK-A 63	3 – 26	472E ER 40	200	63	M16 x 2,0

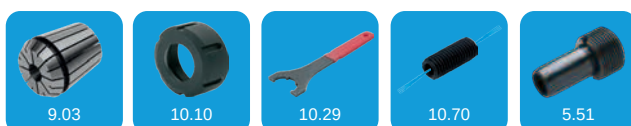


Application:
For mounting straight-shank tools in
collets.



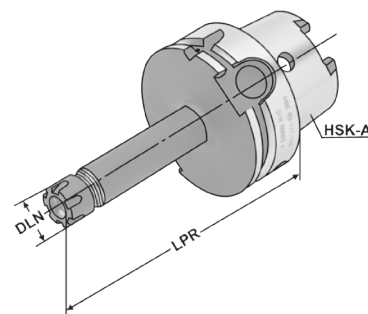
Order no.	HSK	DCONWS Capacity	Typ	LPR	DLN	THID
HSK-A100-02-10	HSK-A 100	1 – 10	426E ER 16	100	32	M10 x 1,5
HSK-A100-02-16	HSK-A 100	2 – 16	430E ER 25	100	42	M16 x 2,0
HSK-A100-02-20	HSK-A 100	2 – 20	470E ER 32	100	50	M16 x 2,0
HSK-A100-02-26	HSK-A 100	3 – 26	472E ER 40	120	63	M16 x 2,0
HSK-A100-02-10-130	HSK-A 100	1 – 10	426E ER 16	130	32	M10 x 1,5
HSK-A100-02-16-130	HSK-A 100	2 – 16	430E ER 25	130	42	M16 x 2,0
HSK-A100-02-20-130	HSK-A 100	2 – 20	470E ER 32	130	50	M16 x 2,0
HSK-A100-02-26-130	HSK-A 100	3 – 26	472E ER 40	130	63	M16 x 2,0
HSK-A100-02-10-2	HSK-A 100	1 – 10	426E ER 16	160	32	M10 x 1,5
HSK-A100-02-16-2	HSK-A 100	2 – 16	430E ER 25	160	42	M16 x 2,0
HSK-A100-02-20-2	HSK-A 100	2 – 20	470E ER 32	160	50	M16 x 2,0
HSK-A100-02-26-2	HSK-A 100	3 – 26	472E ER 40	160	63	M16 x 2,0
HSK-A100-02-10-3	HSK-A 100	1 – 10	426E ER 16	200	32	M10 x 1,5
HSK-A100-02-16-3	HSK-A 100	2 – 16	430E ER 25	200	42	M16 x 2,0
HSK-A100-02-20-3	HSK-A 100	2 – 20	470E ER 32	200	50	M16 x 2,0
HSK-A100-02-26-3	HSK-A 100	3 – 26	472E ER 40	200	63	M16 x 2,0

Delivery: With balanced clamping nut



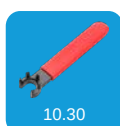
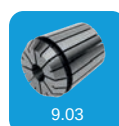


Application:
For mounting straight-shank tools in
collets.


5

Order no.	HSK	DCONWS Capacity	Typ	LPR	DLN	THID
HSK-A32-02-07-M	HSK-A 32	1 – 7	4008E ER 11	50	16	M5
HSK-A32-02-10-M	HSK-A 32	1 – 10	426E ER 16	50	22	-
HSK-A32-02-16-M	HSK-A 32	2 – 16	430E ER 25	80	35	M8
HSK-A40-02-07-M	HSK-A 40	1 – 7	4008E ER 11	40	16	-
HSK-A40-02-10-M	HSK-A 40	1 – 10	426E ER 16	80	22	M8
HSK-A50-02-07-M	HSK-A 50	1 – 7	4008E ER 11	60	16	M6
HSK-A50-02-10-M	HSK-A 50	1 – 10	426E ER 16	60	22	-
HSK-A63-02-07-1	HSK-A 63	1 – 7	4008E ER 11	100	16	M8 x 1,25
HSK-A63-02-07-2	HSK-A 63	1 – 7	4008E ER 11	160	16	M8 x 1,25
HSK-A63-02-07-10-1	HSK-A 63	1 – 10	426E ER 16	100	22	7/16" 20 UNF
HSK-A63-02-07-10-2	HSK-A 63	1 – 10	426E ER 16	160	22	7/16" 20 UNF
HSK-A63-02-07-13-1	HSK-A 63	1 – 13	428E ER 20	100	28	9/16" 18 UNF
HSK-A63-02-07-13-2	HSK-A 63	1 – 13	428E ER 20	160	28	9/16" 18 UNF
HSK-A63-02-07-16-1	HSK-A 63	2 – 16	430E ER 25	100	35	11/16" 16 UN
HSK-A63-02-07-16-2	HSK-A 63	2 – 16	430E ER 25	160	35	11/16" 16 UN
HSK-A100-02-07-1	HSK-A 100	1 – 7	4008E ER 11	100	16	M8 x 1,25
HSK-A100-02-07-2	HSK-A 100	1 – 7	4008E ER 11	160	16	M8 x 1,25
HSK-A100-02-07-10-1	HSK-A 100	1 – 10	426E ER 16	100	22	7/16" 20 UNF
HSK-A100-02-07-10-2	HSK-A 100	1 – 10	426E ER 16	160	22	7/16" 20 UNF
HSK-A100-02-07-16-1	HSK-A 100	2 – 16	430E ER 25	100	35	11/16" 16 UN
HSK-A100-02-07-16-2	HSK-A 100	2 – 16	430E ER 25	160	35	11/16" 16 UN

Delivery: With balanced clamping nut



Precision collet chuck ER for collets

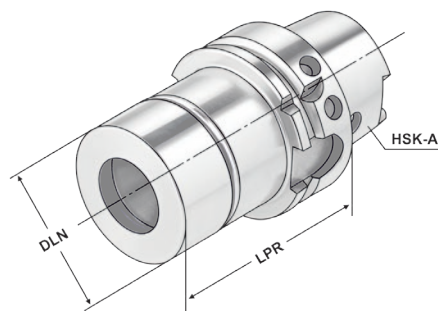
ISO 15488 (DIN 6499) ER-system

ISO 12164-1 | HSK-A

(DIN 69893-1 | HSK-A)



Application:
For mounting straight-shank tools in
3 µm-collets.



ISO
12164

Form
A



RFID
Chip

ISO
15488

i
Ch. 11

Order no.	HSK	DCONWS Capacity	Typ	LPR	LB	DLN	THID
HSK-A40-P2-20-070	HSK-A 40	2 – 20	470E ER 32	70	49,5	50	M16 x 2,0
HSK-A50-P2-20-080	HSK-A 50	2 – 20	470E ER 32	70	53	50	M16 x 2,0
HSK-A63-P2-20-080	HSK-A 63	2 – 20	470E ER 32	80	53	50	M16 x 2,0
HSK-A63-P2-20-100	HSK-A 63	2 – 20	470E ER 32	100	73	50	M16 x 2,0
HSK-A63-P2-20-125	HSK-A 63	2 – 20	470E ER 32	125	86	50	M16 x 2,0
HSK-A63-P2-20-150	HSK-A 63	2 – 20	470E ER 32	150	111	50	M16 x 2,0
HSK-A63-P2-20-200	HSK-A 63	2 – 20	470E ER 32	200	161	50	M16 x 2,0
HSK-A100-P2-20-100	HSK-A 100	2 – 20	470E ER 32	100	61	50	M16 x 2,0
HSK-A100-P2-20-125	HSK-A 100	2 – 20	470E ER 32	125	86	50	M16 x 2,0
HSK-A100-P2-20-150	HSK-A 100	2 – 20	470E ER 32	150	111	50	M16 x 2,0
HSK-A100-P2-20-200	HSK-A 100	2 – 20	470E ER 32	200	161	50	M16 x 2,0

Advantages:

- Excellent concentricity in the system (chuck + collet + clamping nut)
- Extremely strong holding force (increases the holding power by at least 60% compared to standard ER chuck)
- Plain clamping nut without grooves for high speed machining

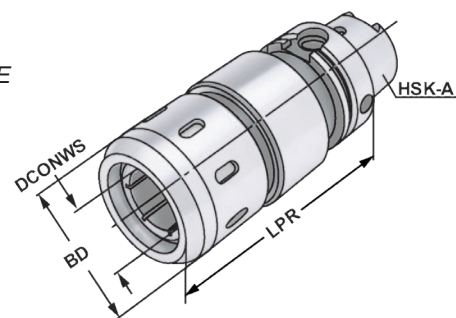
Note: Only nominal size DCONWS can be clamped.

Delivery: With precision clamping nut





Application:
For mounting straight-shank tools acc. DIN
1835 form A+B+E and DIN 6535 form HB+HE



ISO 12164

Form A

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

G6.3
15.000
min⁻¹

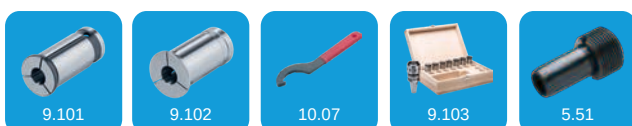
RFID Chip

HKS

Ch. 11

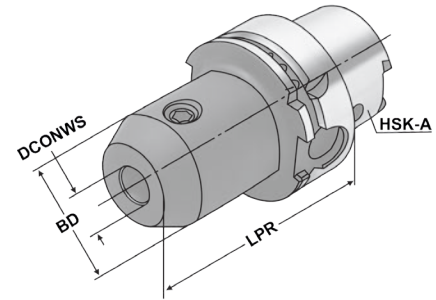
Order no.	HSK	DCONWS Capacity	Typ	DCONWS	LPR	BD
HSK-A63-64-20	HSK-A 63	3 – 20	HKS 20	20	95	53
HSK-A63-64-25	HSK-A 63	3 – 25	HKS 25	25	100	63
HSK-A63-64-32	HSK-A 63	3 – 32	HKS 32	32	110	68
HSK-A100-64-20	HSK-A 100	3 – 20	HKS 20	20	105	53
HSK-A100-64-25	HSK-A 100	3 – 25	HKS 25	25	105	63
HSK-A100-64-32	HSK-A 100	3 – 32	HKS 32	32	105	68

Size	20mm	25mm	32mm
Clamping torque	50-70 Nm	80-100 Nm	80-100 Nm
Clamping force	780 Nm	2000 Nm	2000 Nm





Application:
For mounting straight-shank tools with lateral
flat according to DIN 1835 form B (Weldon).



ISO 12164

Form A



RFID Chip

DIN 1835-B

H4



Order no.	HSK	DCONWS	TDCON	LPR	BD
HSK-A32-04-06	HSK-A 32	6	H4	60	25
HSK-A32-04-08	HSK-A 32	8	H4	60	28
HSK-A32-04-10	HSK-A 32	10	H4	65	35
HSK-A32-04-12	HSK-A 32	12	H4	70	42
HSK-A32-04-14	HSK-A 32	14	H4	75	44
HSK-A32-04-16	HSK-A 32	16	H4	75	48
HSK-A32-04-20	HSK-A 32	20	H4	90	50
HSK-A40-04-06	HSK-A 40	6	H4	60	25
HSK-A40-04-08	HSK-A 40	8	H4	60	28
HSK-A40-04-10	HSK-A 40	10	H4	60	35
HSK-A40-04-12	HSK-A 40	12	H4	70	42
HSK-A40-04-14	HSK-A 40	14	H4	75	44
HSK-A40-04-16	HSK-A 40	16	H4	75	40
HSK-A40-04-18	HSK-A 40	18	H4	85	40
HSK-A40-04-20	HSK-A 40	20	H4	85	40
HSK-A40-04-25	HSK-A 40	25	H4	100	45
HSK-A40-04-32	HSK-A 40	32	H4	105	60
HSK-A50-04-06	HSK-A 50	6	H4	65	25
HSK-A50-04-08	HSK-A 50	8	H4	65	28
HSK-A50-04-10	HSK-A 50	10	H4	65	35
HSK-A50-04-12	HSK-A 50	12	H4	80	42
HSK-A50-04-14	HSK-A 50	14	H4	80	44
HSK-A50-04-16	HSK-A 50	16	H4	80	48
HSK-A50-04-18	HSK-A 50	18	H4	80	50
HSK-A50-04-20	HSK-A 50	20	H4	80	52
HSK-A50-04-25	HSK-A 50	25	H4	110	60
HSK-A50-04-32	HSK-A 50	32	H4	110	60

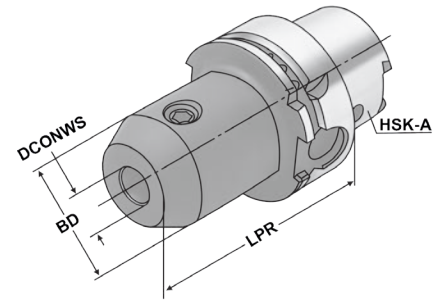
Note: From DCONWS = 25 on two clamping screws

Delivery: With clamping screw





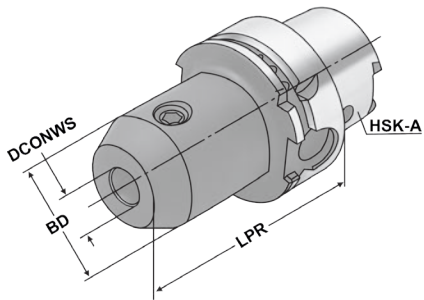
Application:
For mounting straight-shank tools with lateral flat according to DIN 1835 form B (Weldon).


5

Order no.	HSK	DCONWS	TDCON	LPR	BD
HSK-A63-04-06	HSK-A 63	6	H4	65	25
HSK-A63-04-08	HSK-A 63	8	H4	65	28
HSK-A63-04-10	HSK-A 63	10	H4	65	35
HSK-A63-04-12	HSK-A 63	12	H4	80	42
HSK-A63-04-14	HSK-A 63	14	H4	80	44
HSK-A63-04-16	HSK-A 63	16	H4	80	48
HSK-A63-04-18	HSK-A 63	18	H4	80	50
HSK-A63-04-20	HSK-A 63	20	H4	80	52
HSK-A63-04-25	HSK-A 63	25	H4	110	65
HSK-A63-04-32	HSK-A 63	32	H4	110	72
HSK-A63-04-40	HSK-A 63	40	H4	125	80
HSK-A63-04-06-1	HSK-A 63	6	H4	100	25
HSK-A63-04-08-1	HSK-A 63	8	H4	100	28
HSK-A63-04-10-1	HSK-A 63	10	H4	100	35
HSK-A63-04-12-1	HSK-A 63	12	H4	100	42
HSK-A63-04-14-1	HSK-A 63	14	H4	100	44
HSK-A63-04-16-1	HSK-A 63	16	H4	100	48
HSK-A63-04-18-1	HSK-A 63	18	H4	100	50
HSK-A63-04-20-1	HSK-A 63	20	H4	100	52
HSK-A63-04-06-130	HSK-A 63	6	H4	130	25
HSK-A63-04-08-130	HSK-A 63	8	H4	130	28
HSK-A63-04-10-130	HSK-A 63	10	H4	130	35
HSK-A63-04-12-130	HSK-A 63	12	H4	130	42
HSK-A63-04-14-130	HSK-A 63	14	H4	130	44
HSK-A63-04-16-130	HSK-A 63	16	H4	130	48
HSK-A63-04-18-130	HSK-A 63	18	H4	130	50
HSK-A63-04-20-130	HSK-A 63	20	H4	130	52
HSK-A63-04-06-2	HSK-A 63	6	H4	160	25
HSK-A63-04-08-2	HSK-A 63	8	H4	160	28
HSK-A63-04-10-2	HSK-A 63	10	H4	160	35
HSK-A63-04-12-2	HSK-A 63	12	H4	160	42
HSK-A63-04-14-2	HSK-A 63	14	H4	160	44
HSK-A63-04-16-2	HSK-A 63	16	H4	160	48
HSK-A63-04-18-2	HSK-A 63	18	H4	160	50
HSK-A63-04-20-2	HSK-A 63	20	H4	160	52



Application:
For mounting straight-shank tools with lateral flat according to DIN 1835 form B (Weldon).



ISO 12164

Form A

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

G2.5
25.000
min⁻¹

RFID Chip

DIN 1835-B

H4

i
Ch. 11

Order no.	HSK	DCONWS	TDCON	LPR	BD
HSK-A100-04-06	HSK-A 100	6	H4	80	25
HSK-A100-04-08	HSK-A 100	8	H4	80	28
HSK-A100-04-10	HSK-A 100	10	H4	80	35
HSK-A100-04-12	HSK-A 100	12	H4	80	42
HSK-A100-04-14	HSK-A 100	14	H4	80	44
HSK-A100-04-16	HSK-A 100	16	H4	100	48
HSK-A100-04-18	HSK-A 100	18	H4	100	50
HSK-A100-04-20	HSK-A 100	20	H4	100	52
HSK-A100-04-25	HSK-A 100	25	H4	100	65
HSK-A100-04-32	HSK-A 100	32	H4	100	72
HSK-A100-04-40	HSK-A 100	40	H4	105	80
HSK-A100-04-06-2	HSK-A 100	6	H4	160	25
HSK-A100-04-08-2	HSK-A 100	8	H4	160	28
HSK-A100-04-10-2	HSK-A 100	10	H4	160	35
HSK-A100-04-12-2	HSK-A 100	12	H4	160	42
HSK-A100-04-14-2	HSK-A 100	14	H4	160	44
HSK-A100-04-16-2	HSK-A 100	16	H4	160	48
HSK-A100-04-18-2	HSK-A 100	18	H4	160	50
HSK-A100-04-20-2	HSK-A 100	20	H4	160	52
HSK-A100-04-25-2	HSK-A 100	25	H4	160	65
HSK-A100-04-32-2	HSK-A 100	32	H4	160	72
HSK-A100-04-40-2	HSK-A 100	40	H4	160	80

Note: From DCONWS = 25 on two clamping screws

Delivery: With clamping screw

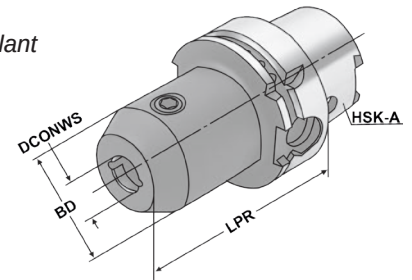


End mill holders DIN 6359 with coolant channels for end mills DIN 1835-B

ISO 12164-1 | HSK-A
(DIN 69893-1 | HSK-A)



Application:
For mounting straight-shank tools with lateral flat according to DIN 1835 form B (Weldon). With coolant channels for optimal coolant at the cutting edge.



5

Order no.	HSK	DCONWS	TDCON	LPR	BD
HSK-A63-04-06-CC	HSK-A 63	6	H4	65	25
HSK-A63-04-08-CC	HSK-A 63	8	H4	65	28
HSK-A63-04-10-CC	HSK-A 63	10	H4	65	35
HSK-A63-04-12-CC	HSK-A 63	12	H4	80	42
HSK-A63-04-14-CC	HSK-A 63	14	H4	80	44
HSK-A63-04-16-CC	HSK-A 63	16	H4	80	48
HSK-A63-04-18-CC	HSK-A 63	18	H4	80	50
HSK-A63-04-20-CC	HSK-A 63	20	H4	80	52
HSK-A63-04-25-CC	HSK-A 63	25	H4	110	65
HSK-A63-04-32-CC	HSK-A 63	32	H4	110	72
HSK-A63-04-40-CC	HSK-A 63	40	H4	125	80
HSK-A63-04-06-1-CC	HSK-A 63	6	H4	100	25
HSK-A63-04-08-1-CC	HSK-A 63	8	H4	100	28
HSK-A63-04-10-1-CC	HSK-A 63	10	H4	100	35
HSK-A63-04-12-1-CC	HSK-A 63	12	H4	100	42
HSK-A63-04-14-1-CC	HSK-A 63	14	H4	100	44
HSK-A63-04-16-1-CC	HSK-A 63	16	H4	100	48
HSK-A63-04-18-1-CC	HSK-A 63	18	H4	100	50
HSK-A63-04-20-1-CC	HSK-A 63	20	H4	100	52
HSK-A63-04-06-130-CC	HSK-A 63	6	H4	130	25
HSK-A63-04-08-130-CC	HSK-A 63	8	H4	130	28
HSK-A63-04-10-130-CC	HSK-A 63	10	H4	130	35
HSK-A63-04-13-130-CC	HSK-A 63	12	H4	130	42
HSK-A63-04-14-130-CC	HSK-A 63	14	H4	130	44
HSK-A63-04-16-130-CC	HSK-A 63	16	H4	130	48
HSK-A63-04-18-130-CC	HSK-A 63	18	H4	130	50
HSK-A63-04-20-130-CC	HSK-A 63	20	H4	130	52

Note:
From $d = 25$ on two clamping screws
 $d = 6$ to 18 with two coolant channels
 $d = 20$ to 40 with four coolant channels
For tools with through coolant an O-ring must be used.

Delivery: With clamping screw

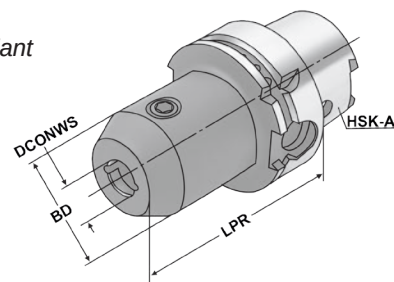


End mill holders DIN 6359 with coolant channels for end mills DIN 1835-B

ISO 12164-1 | HSK-A
(DIN 69893-1 | HSK-A)



Application:
For mounting straight-shank tools with lateral flat according to DIN 1835 form B (Weldon). With coolant channels for optimal coolant at the cutting edge.



ISO 12164

Form A

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

G2.5
25.000
min⁻¹

RFID Chip

DIN 1835-B

H4

Ch. 11

Order no.	HSK	DCONWS	TDCON	LPR	BD
HSK-A100-04-06-CC	HSK-A 100	6	H4	80	25
HSK-A100-04-08-CC	HSK-A 100	8	H4	80	28
HSK-A100-04-10-CC	HSK-A 100	10	H4	80	35
HSK-A100-04-12-CC	HSK-A 100	12	H4	80	42
HSK-A100-04-14-CC	HSK-A 100	14	H4	80	44
HSK-A100-04-16-CC	HSK-A 100	16	H4	100	48
HSK-A100-04-18-CC	HSK-A 100	18	H4	100	50
HSK-A100-04-20-CC	HSK-A 100	20	H4	100	52
HSK-A100-04-25-CC	HSK-A 100	25	H4	100	65
HSK-A100-04-32-CC	HSK-A 100	32	H4	100	72
HSK-A100-04-40-CC	HSK-A 100	40	H4	105	80
HSK-A100-04-06-2-CC	HSK-A 100	6	H4	160	25
HSK-A100-04-08-2-CC	HSK-A 100	8	H4	160	28
HSK-A100-04-10-2-CC	HSK-A 100	10	H4	160	35
HSK-A100-04-12-2-CC	HSK-A 100	12	H4	160	42
HSK-A100-04-14-2-CC	HSK-A 100	14	H4	160	44
HSK-A100-04-16-2-CC	HSK-A 100	16	H4	160	48
HSK-A100-04-18-2-CC	HSK-A 100	18	H4	160	50
HSK-A100-04-20-2-CC	HSK-A 100	20	H4	160	52
HSK-A100-04-25-2-CC	HSK-A 100	25	H4	160	65
HSK-A100-04-32-2-CC	HSK-A 100	32	H4	160	72
HSK-A100-04-40-2-CC	HSK-A 100	40	H4	160	80

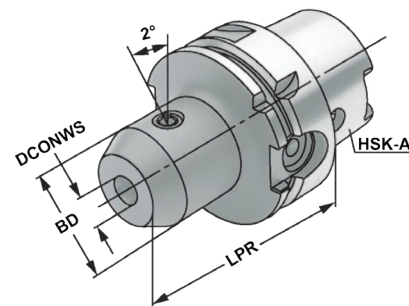
Note:
From d = 25 on two clamping screws
d = 6 to 18 with two coolant channels
d = 20 to 40 with four coolant channels
For tools with through coolant an O-ring must be used.

Delivery: With clamping screw





Application:
For mounting straight-shank tools and
inclined flat according to DIN 1835 form E
(Whistle Notch).



ISO
12164

Form
A

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

$G2.5$
 25.000
 min^{-1}

RFID
Chip

DIN
1835-E

H4

Ch. 11

5

Order no.	HSK	DCONWS	TDCON	LPR	BD
HSK-A63-05-06	HSK-A 63	6	H4	80	25
HSK-A63-05-08	HSK-A 63	8	H4	80	28
HSK-A63-05-10	HSK-A 63	10	H4	80	35
HSK-A63-05-12	HSK-A 63	12	H4	90	42
HSK-A63-05-14	HSK-A 63	14	H4	90	44
HSK-A63-05-16	HSK-A 63	16	H4	100	48
HSK-A63-05-18	HSK-A 63	18	H4	100	50
HSK-A63-05-20	HSK-A 63	20	H4	100	52
HSK-A63-05-25	HSK-A 63	25	H4	110	65
HSK-A63-05-32	HSK-A 63	32	H4	110	72
HSK-A100-05-06	HSK-A 100	6	H4	90	25
HSK-A100-05-08	HSK-A 100	8	H4	90	28
HSK-A100-05-10	HSK-A 100	10	H4	90	35
HSK-A100-05-12	HSK-A 100	12	H4	100	42
HSK-A100-05-14	HSK-A 100	14	H4	100	44
HSK-A100-05-16	HSK-A 100	16	H4	100	48
HSK-A100-05-18	HSK-A 100	18	H4	100	50
HSK-A100-05-20	HSK-A 100	20	H4	110	52
HSK-A100-05-25	HSK-A 100	25	H4	120	65
HSK-A100-05-32	HSK-A 100	32	H4	120	72
HSK-A100-05-40	HSK-A 100	40	H4	120	80

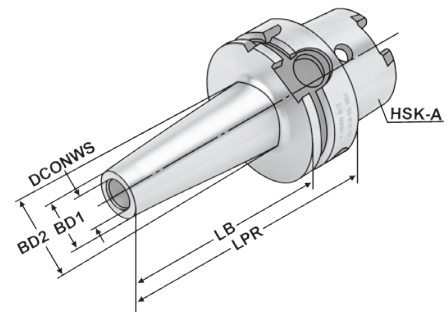
Note: From DCONWS = 25 on two clamping screws

Delivery: With clamping screw and axial adjustment bolt





Application:
For mounting screw-in cutters with thread.



ISO 12164

Form A


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

G2.5
25.000
min⁻¹

RFID
Chip

H7

Order no.	HSK	THSZWS	DCONWS	BD1	BD2	LPR	
HSK-A63-06-06	HSK-A 63	M6	6,5	10	13	51	25
HSK-A63-06-08	HSK-A 63	M8	8,5	13	15	51	25
HSK-A63-06-08-1	HSK-A 63	M8	8,5	13	23	76	50
HSK-A63-06-08-2	HSK-A 63	M8	8,5	13	23	101	75
HSK-A63-06-10	HSK-A 63	M10	10,5	18	20	51	25
HSK-A63-06-10-1	HSK-A 63	M10	10,5	18	23	76	50
HSK-A63-06-10-3	HSK-A 63	M10	10,5	18	32	126	100
HSK-A63-06-10-5	HSK-A 63	M10	10,5	18	37	176	150
HSK-A63-06-12	HSK-A 63	M12	12,5	21	24	51	25
HSK-A63-06-12-1	HSK-A 63	M12	12,5	21	24	76	50
HSK-A63-06-12-2	HSK-A 63	M12	12,5	21	31	101	75
HSK-A63-06-12-3	HSK-A 63	M12	12,5	21	33	126	100
HSK-A63-06-12-5	HSK-A 63	M12	12,5	21	40	176	150
HSK-A63-06-16	HSK-A 63	M16	17	29	29	51	25
HSK-A63-06-16-1	HSK-A 63	M16	17	29	34	76	50
HSK-A63-06-16-2	HSK-A 63	M16	17	29	34	101	75
HSK-A63-06-16-3	HSK-A 63	M16	17	29	36	126	100
HSK-A63-06-16-5	HSK-A 63	M16	17	29	43	176	150
HSK-A100-06-08-1	HSK-A 100	M8	8,5	13	23	79	50
HSK-A100-06-10-1	HSK-A 100	M10	10,5	18	23	79	50
HSK-A100-06-10-3	HSK-A 100	M10	10,5	18	32	129	100
HSK-A100-06-10-5	HSK-A 100	M10	10,5	18	37	179	150
HSK-A100-06-12-1	HSK-A 100	M12	12,5	21	24	79	50
HSK-A100-06-12-3	HSK-A 100	M12	12,5	21	33	129	100
HSK-A100-06-12-5	HSK-A 100	M12	12,5	21	40	179	150
HSK-A100-06-16-1	HSK-A 100	M16	17	29	34	79	50
HSK-A100-06-16-3	HSK-A 100	M16	17	29	36	129	100
HSK-A100-06-16-5	HSK-A 100	M16	17	29	43	179	150

Recommended tightening torques

M6	10 Nm
M8	25 Nm
M10	40 Nm
M12	60 Nm
M16	50 Nm



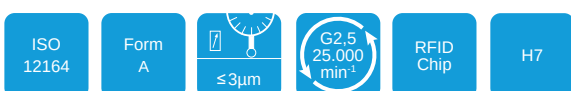
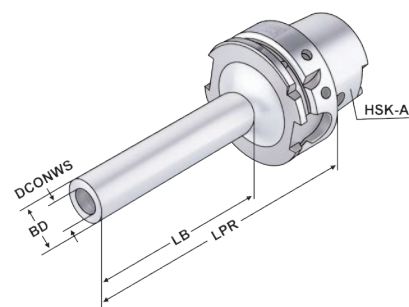
10.77



5.51



Application:
For mounting screw-in cutters with thread.



5

Order no.	HSK	THSZWS	DCONWS	BD	LPR	LB
HSK-A63-06-10-126-S	HSK-A 63	M10	10,5	18	126	100
HSK-A63-06-10-176-S	HSK-A 63	M10	10,5	18	176	150
HSK-A63-06-12-101-S	HSK-A 63	M12	12,5	21	101	75
HSK-A63-06-12-126-S	HSK-A 63	M12	12,5	21	126	100
HSK-A63-06-12-176-S	HSK-A 63	M12	12,5	21	176	150
HSK-A63-06-16-101-S	HSK-A 63	M16	17	29	101	75
HSK-A63-06-16-126-S	HSK-A 63	M16	17	29	126	100
HSK-A63-06-16-176-S	HSK-A 63	M16	17	29	176	150

Recommended tightening torques

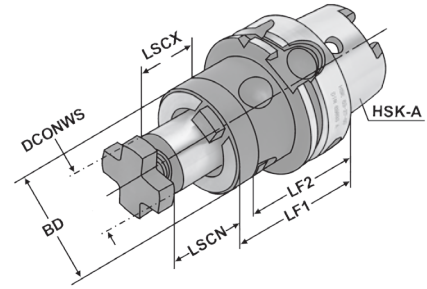
M6	10 Nm
M8	25 Nm
M10	40 Nm
M12	60 Nm
M16	50 Nm



5.51



Application:
For mounting milling cutters with transverse or longitudinal groove.



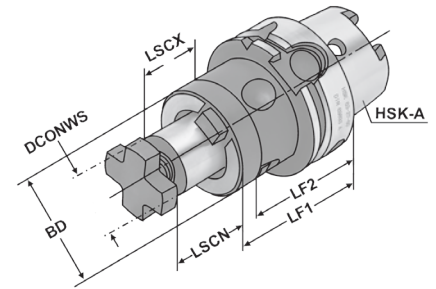
Order no.	HSK	DCONWS	TCDCON	LF1	LF2	LSCN	LSCX	BD
HSK-A32-10-16	HSK-A 32	16	h6	55	45	17	27	32
HSK-A32-10-22	HSK-A 32	22	h6	55	43	19	31	40
HSK-A32-10-27	HSK-A 32	27	h6	65	53	21	33	48
HSK-A40-10-16	HSK-A 40	16	h6	50	40	17	27	32
HSK-A40-10-22	HSK-A 40	22	h6	50	38	19	31	40
HSK-A40-10-27	HSK-A 40	27	h6	65	53	21	33	48
HSK-A50-10-16	HSK-A 50	16	h6	50	40	17	27	32
HSK-A50-10-22	HSK-A 50	22	h6	50	38	19	31	40
HSK-A50-10-27	HSK-A 50	27	h6	65	53	21	33	48
HSK-A50-10-32	HSK-A 50	32	h6	65	51	24	38	58
HSK-A63-10-16	HSK-A 63	16	h6	60	50	17	27	32
HSK-A63-10-22	HSK-A 63	22	h6	60	48	19	31	40
HSK-A63-10-27	HSK-A 63	27	h6	60	48	21	33	48
HSK-A63-10-32	HSK-A 63	32	h6	60	46	24	38	58
HSK-A63-10-40	HSK-A 63	40	h6	70	56	27	41	70
HSK-A63-10-16-1	HSK-A 63	16	h6	100	90	17	27	32
HSK-A63-10-22-1	HSK-A 63	22	h6	100	88	19	31	40
HSK-A63-10-27-1	HSK-A 63	27	h6	100	88	21	33	48
HSK-A63-10-32-1	HSK-A 63	32	h6	100	86	24	38	58

Delivery: With tightening bolt, driving ring and feather key





Application:
For mounting milling cutters with transverse or longitudinal groove.



5

Order no.	HSK	DCONWS	TCDCON	LF1	LF2	LSCN	LSCX	BD
HSK-A100-10-16	HSK-A 100	16	h6	60	50	17	27	32
HSK-A100-10-22	HSK-A 100	22	h6	60	48	19	31	40
HSK-A100-10-27	HSK-A 100	27	h6	60	48	21	33	48
HSK-A100-10-32	HSK-A 100	32	h6	60	46	24	38	58
HSK-A100-10-40	HSK-A 100	40	h6	70	56	27	41	70
HSK-A100-10-16-1	HSK-A 100	16	h6	100	90	17	27	32
HSK-A100-10-22-1	HSK-A 100	22	h6	100	88	19	31	40
HSK-A100-10-27-1	HSK-A 100	27	h6	100	88	21	33	48
HSK-A100-10-32-1	HSK-A 100	32	h6	100	86	24	38	58
HSK-A100-10-40-1	HSK-A 100	40	h6	100	86	27	41	70
HSK-A100-10-16-1	HSK-A 100	16	h6	160	150	17	27	32
HSK-A100-10-22-1	HSK-A 100	22	h6	160	148	19	31	40
HSK-A100-10-27-1	HSK-A 100	27	h6	160	148	21	33	48
HSK-A100-10-32-1	HSK-A 100	32	h6	160	146	24	38	58
HSK-A100-10-40-1	HSK-A 100	40	h6	160	146	27	41	70

Delivery: With tightening bolt, driving ring and feather key

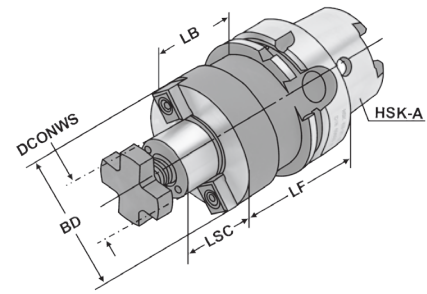


Shell mill holders DIN 6357 with enlarged contact face and coolant exit bores on the end face

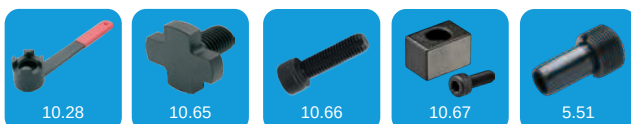
ISO 12164-1 | HSK-A
(DIN 69893-1 | HSK-A)



Application:
For mounting milling cutters with
transversal groove.



Order no.	HSK	DCONWS	TCDCON	LF	LSC	LB	BD
HSK-A40-11-16	HSK-A 40	16	h6	50	17	30	40
HSK-A40-11-22	HSK-A 40	22	h6	50	19	30	48
HSK-A40-11-27	HSK-A 40	27	h6	55	21	35	60
HSK-A50-11-16	HSK-A 50	16	h6	50	17	24	40
HSK-A50-11-22	HSK-A 50	22	h6	60	19	34	48
HSK-A50-11-27	HSK-A 50	27	h6	60	21	34	60
HSK-A63-11-16	HSK-A 63	16	h6	50	17	24	38
HSK-A63-11-22	HSK-A 63	22	h6	50	19	24	48
HSK-A63-11-27	HSK-A 63	27	h6	60	21	34	58
HSK-A63-11-32	HSK-A 63	32	h6	60	24	34	78
HSK-A63-11-40	HSK-A 63	40	h6	60	27	34	88
HSK-A63-11-16-1	HSK-A 63	16	h6	100	17	74	38
HSK-A63-11-22-1	HSK-A 63	22	h6	100	19	74	48
HSK-A63-11-27-1	HSK-A 63	27	h6	100	21	74	58
HSK-A63-11-32-1	HSK-A 63	32	h6	100	24	74	78
HSK-A63-11-40-1	HSK-A 63	40	h6	100	27	74	88
HSK-A63-11-16-130	HSK-A 63	16	h6	130	17	104	38
HSK-A63-11-22-130	HSK-A 63	22	h6	130	19	104	48
HSK-A63-11-27-130	HSK-A 63	27	h6	130	21	104	58
HSK-A63-11-32-130	HSK-A 63	32	h6	130	24	104	78
HSK-A63-11-40-130	HSK-A 63	40	h6	130	27	104	88
HSK-A63-11-16-2	HSK-A 63	16	h6	160	17	134	38
HSK-A63-11-22-2	HSK-A 63	22	h6	160	19	134	48
HSK-A63-11-27-2	HSK-A 63	27	h6	160	21	134	58
HSK-A63-11-32-2	HSK-A 63	32	h6	160	24	134	78
HSK-A63-11-40-2	HSK-A 63	40	h6	160	27	134	88

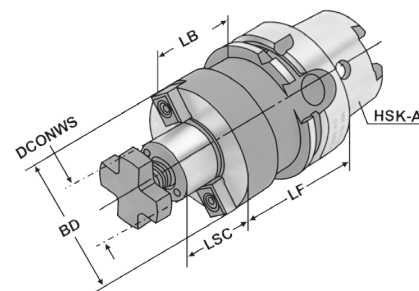


Shell mill holders DIN 6357 with enlarged contact face and coolant exit bores on the end face

ISO 12164-1 | HSK-A
(DIN 69893-1 | HSK-A)



Application:
For mounting milling cutters with
transversal groove.

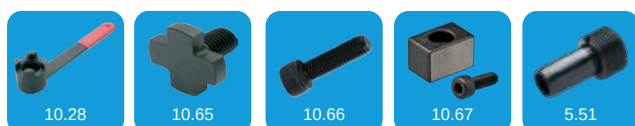


5

Order no.	HSK	DCONWS	TCDCON	LF	LSC	LB	BD
HSK-A100-11-16	HSK-A 100	16	h6	50	17	21	38
HSK-A100-11-22	HSK-A 100	22	h6	50	19	21	48
HSK-A100-11-27	HSK-A 100	27	h6	50	21	21	58
HSK-A100-11-32	HSK-A 100	32	h6	50	24	21	78
HSK-A100-11-40	HSK-A 100	40	h6	70	27	41	88
HSK-A100-11-60	HSK-A 100	60	h6	70	40	41	130
HSK-A100-11-16-1	HSK-A 100	16	h6	100	17	71	38
HSK-A100-11-22-1	HSK-A 100	22	h6	100	19	71	48
HSK-A100-11-27-1	HSK-A 100	27	h6	100	21	71	58
HSK-A100-11-32-1	HSK-A 100	32	h6	100	24	71	78
HSK-A100-11-40-1	HSK-A 100	40	h6	100	27	71	88
HSK-A100-11-16-2	HSK-A 100	16	h6	160	17	131	38
HSK-A100-11-22-2	HSK-A 100	22	h6	160	19	131	48
HSK-A100-11-27-2	HSK-A 100	27	h6	160	21	131	58
HSK-A100-11-32-2	HSK-A 100	32	h6	160	24	131	78
HSK-A100-11-40-2	HSK-A 100	40	h6	160	27	131	88
HSK-A100-11-16-3	HSK-A 100	16	h6	200	17	171	38
HSK-A100-11-22-3	HSK-A 100	22	h6	200	19	171	48
HSK-A100-11-27-3	HSK-A 100	27	h6	200	21	171	58
HSK-A100-11-32-3	HSK-A 100	32	h6	200	24	171	78
HSK-A100-11-40-3	HSK-A 100	40	h6	200	27	171	88

DCONWS = 40 & 60 For large diameter face mill cutters with four additional threaded holes according to DIN 2079.

Delivery: With drivers, cross head retaining screw and cylinder head retaining screw for cutters with central coolant.
For DCONWS = 60 only with four fixation screws according to DIN 912.

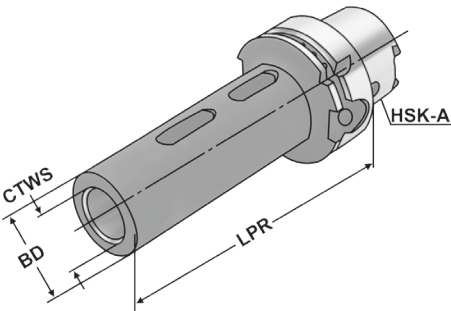


Adaptor sleeves for MT with tang DIN 6383

ISO 12164-1 | HSK-A
(DIN 69893-1 | HSK-A)



Application:
For mounting tools with Morse taper shank
and tang according to DIN 228-1 form B.



ISO 12164

Form A

$\leq 5\mu\text{m}$

G6.3
15.000
min⁻¹

RFID Chip

DIN 6383

AT5

Order no.	HSK	CTWS	TDCON	LPR	BD
HSK-A63-07-01	HSK-A 63	1	AT5	100	25
HSK-A63-07-02	HSK-A 63	2	AT5	120	32
HSK-A63-07-03	HSK-A 63	3	AT5	140	40
HSK-A63-07-04	HSK-A 63	4	AT5	160	48
HSK-A100-07-01	HSK-A 100	1	AT5	110	25
HSK-A100-07-02	HSK-A 100	2	AT5	120	32
HSK-A100-07-03	HSK-A 100	3	AT5	150	40
HSK-A100-07-04	HSK-A 100	4	AT5	170	48
HSK-A100-07-05	HSK-A 100	5	AT5	200	63

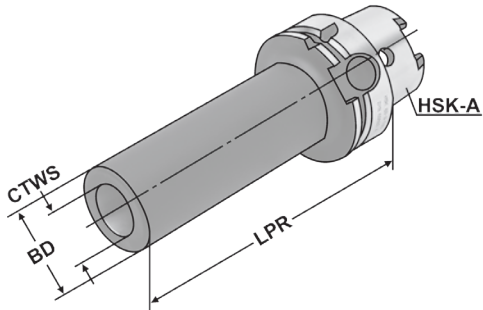
8.12

5.51

10.77



Application:
For clamping tools with Morse taper
shank and thread according to DIN 228-1
form A.



ISO 12164

Form A

$\leq 5\mu\text{m}$

G6.3
15.000
min⁻¹

RFID Chip

DIN 6364

AT5

5

Order no.	HSK	CTWS	THID	LPR	BD
HSK-A63-08-01	HSK-A 63	1	M6	100	25
HSK-A63-08-02	HSK-A 63	2	M10	120	32
HSK-A63-08-03	HSK-A 63	3	M12	140	40
HSK-A63-08-04	HSK-A 63	4	M16	160	48
HSK-A100-08-01	HSK-A 100	1	M6	110	25
HSK-A100-08-02	HSK-A 100	2	M10	120	32
HSK-A100-08-03	HSK-A 100	3	M12	150	40
HSK-A100-08-04	HSK-A 100	4	M16	170	48
HSK-A100-08-05	HSK-A 100	5	M20	200	63

Delivery: With built-in tightening bolt

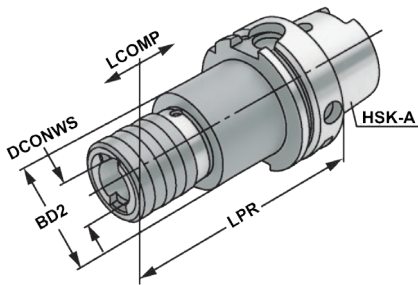


Quick change tapping chucks with length compensation on compression and expansion

ISO 12164-1 | HSK-A
(DIN 69893-1 | HSK-A)



Application:
For the chucking of quick change adaptors for taps.



ISO 12164

Form A

RFID Chip

Ch. 11

Order no.	HSK	Capacity	SZID	DCONWS	LPR	BD2	LCOMP
HSK-A40-16-12	HSK-A 40	M3 – M14	1	19	95	36	7
HSK-A50-16-12	HSK-A 50	M3 – M14	1	19	100	36	7
HSK-A50-16-20	HSK-A 50	M5 – M22	2	31	140	53	12
HSK-A63-16-12	HSK-A 63	M3 – M14	1	19	102	50	7
HSK-A63-16-20	HSK-A 63	M5 – M22	2	31	140	54	12
HSK-A63-16-36	HSK-A 63	M14 – M36	3	48	210	86	17,5
HSK-A100-16-12	HSK-A 100	M3 – M14	1	19	112	38	7
HSK-A100-16-20	HSK-A 100	M5 – M22	2	31	148	54	12
HSK-A100-16-36	HSK-A 100	M14 – M36	3	48	210	86	17,5

Note: For machining centres without synchronous spindle.

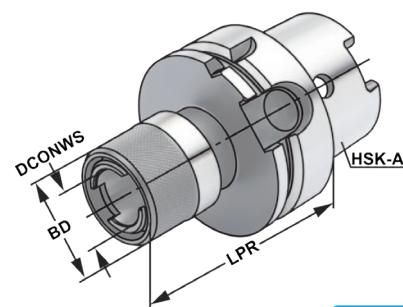


Quick change tapping chucks without length compensation on compression and expansion

ISO 12164-1 | HSK-A
(DIN 69893-1 | HSK-A)



Application:
For the chucking of quick change adaptors
for taps.



ISO
12164

Form
A

RFID
Chip

i
Ch. 11

5

Order no.	HSK	Capacity	SZID	DCONWS	LPR	BD
HSK-A63-16-12-1	HSK-A 63	M3 – M14	1	19	65	38
HSK-A63-16-20-1	HSK-A 63	M5 – M22	2	31	100	54
HSK-A100-16-12-1	HSK-A 100	M3 – M14	1	19	80	38
HSK-A100-16-20-1	HSK-A 100	M5 – M22	2	31	90	54
HSK-A100-16-36-1	HSK-A 100	M14 – M36	3	48	130	86

Note: For machining centres with synchronous spindle.



10.47

10.48

10.53

10.54

10.55

5.51

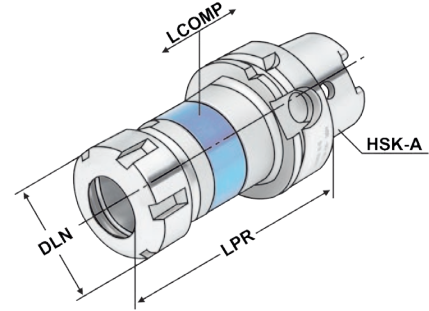
Tapping chucks for synchronisation for collets

ISO 15488 (DIN 6499) ER-system

ISO 12164-1 | HSK-A
(DIN 69893-1 | HSK-A)



Application:
For machining centres with synchronous spindle.



ISO 12164

Form A

$\leq 60\mu\text{m}$

G6.3 15.000 min⁻¹

RFID Chip

ISO 15488

Ch. 11

Order no.	HSK	DCONWS Capacity	Typ	LPR	DLN	LCOMP
HSK-A63-16-02-10 ¹	HSK-A 63	M3 – M12	426E ER 16 SW25	93	28	0,5
HSK-A63-16-02-10-M ²	HSK-A 63	M3 – M12	426E ER 16 Mini	93	22	0,5
HSK-A63-16-02-10-1-M ²	HSK-A 63	M3 – M12	426E ER 16 Mini	100	22	0,5
HSK-A63-16-02-13	HSK-A 63	M3 – M16	428E ER 20	94	34	0,5
HSK-A63-16-02-16	HSK-A 63	M3 – M20	430E ER 25	98	42	0,5
HSK-A63-16-02-20	HSK-A 63	M3 – M27	470E ER 32	108	50	0,5
HSK-A63-16-02-26	HSK-A 63	M3 – M33	472E ER 40	133,5	63	0,5
HSK-A100-16-02-10 ¹	HSK-A 100	M3 – M12	426E ER 16 SW25	96	28	0,5
HSK-A100-16-02-10-1-M ²	HSK-A 100	M3 – M12	426E ER 16 Mini	106	22	0,5
HSK-A100-16-02-13	HSK-A 100	M3 – M16	428E ER 20	97	34	0,5
HSK-A100-16-02-16	HSK-A 100	M3 – M20	430E ER 25	101	42	0,5
HSK-A100-16-02-20	HSK-A 100	M3 – M27	470E ER 32	110	50	0,5
HSK-A100-16-02-26	HSK-A 100	M3 – M33	472E ER 40	133	63	0,5

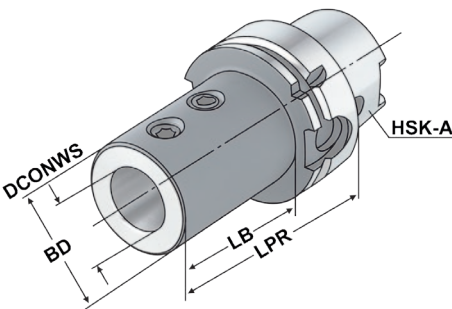
¹ Hexagonal clamping nut ² Mini nut

Delivery: With balanced clamping nut





Application:
For all solid drills with cylindrical shank according to DIN 6595.



ISO 12164

Form A

$\leq 4\mu\text{m}$

G6.3
15.000
min⁻¹

RFID Chip

ISO 9766

E1

H4

Order no.	HSK	DCONWS	LPR	BD	LB
HSK-A63-51-20	HSK-A 63	20	80	40	54
HSK-A63-51-25	HSK-A 63	25	90	45	64
HSK-A63-51-32	HSK-A 63	32	90	52	64
HSK-A63-51-40	HSK-A 63	40	105	63	79
HSK-A100-51-20	HSK-A 100	20	90	40	61
HSK-A100-51-25	HSK-A 100	25	95	45	66
HSK-A100-51-32	HSK-A 100	32	100	52	71
HSK-A100-51-40	HSK-A 100	40	110	60	81

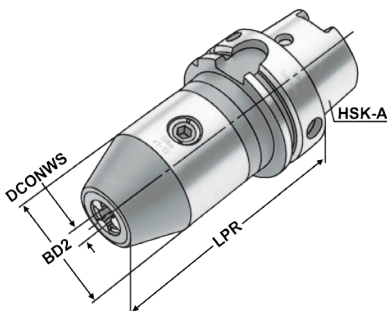
Delivery: With clamping screws



CNC-Drill chucks for clockwise and counter clockwise rotation ISO 12164-1 | HSK-A
(DIN 69893-1 | HSK-A)



Application:
For mounting tools with straight shanks.



ISO 12164

Form A

$\leq 30\mu\text{m}$

G6.3
15,000
min⁻¹

RFID Chip

Ch. 11

Order no.	HSK	DCONWS Capacity	LPR	BD2	DRVS
HSK-A32-15-08	HSK-A 32	0,5 – 8	90	36	4
HSK-A40-15-08	HSK-A 40	0,5 – 8	90	36	4
HSK-A40-15-13	HSK-A 40	1,0 – 13	121	50	6
HSK-A40-15-16	HSK-A 40	2,5 – 16	126	50	6
HSK-A50-15-08	HSK-A 50	0,5 – 8	90	36	4
HSK-A50-15-13	HSK-A 50	1,0 – 13	116	50	6
HSK-A50-15-16	HSK-A 50	2,5 – 16	116	50	6
HSK-A63-15-08	HSK-A 63	0,5 – 8	85	36	4
HSK-A63-15-13	HSK-A 63	1,0 – 13	104	50	6
HSK-A63-15-16	HSK-A 63	2,5 – 16	109	50	6
HSK-A100-15-13	HSK-A 100	1,0 – 13	107	50	6
HSK-A100-15-16	HSK-A 100	2,5 – 16	112	50	6

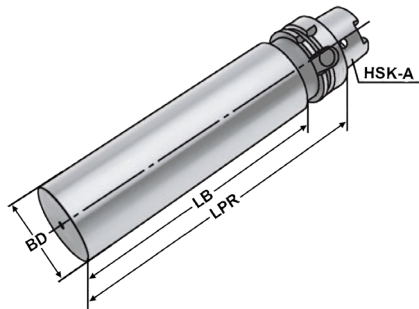
Note: High precision and accurate concentricity of $\leq 0.03\text{ mm}$. No automatic slackening of the clamping force while machining with either clockwise or counter clockwise rotation or on spindle stop. Clamping and releasing effected by means of an Allen wrench.

Delivery: Without wrench





Application:
For the manufacturing of special tools.



ISO 12164

Form A

RFID Chip

5

Order no.	HSK	BD	LPR	LB
HSK-A32-17-25	HSK-A 32	32,5	100	65
HSK-A40-17-40	HSK-A 40	40,5	160	125
HSK-A50-17-50	HSK-A 50	50,5	200	158
HSK-A63-17-63	HSK-A 63	63,5	250	208
HSK-A63-17-80	HSK-A 63	80,0	250	208
HSK-A100-17-97	HSK-A 100	97,5	250	234

Version: Cone and flange hardened and grinded. Soft body for later processing.



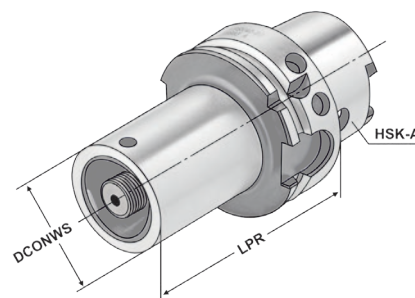
5.51

Reducing adapter for adaption from HSK to PSC (ISO 12164 to ISO 26623-1)

ISO 12164-1 | HSK-A
(DIN 69893-1 | HSK-A)



Application:
For adaption from HSK-A to PSK
(ISO 12164 to ISO 26623-1)



Order no.	HSK	Typ	DCONWS	LPR	TQX	THID
HSK-A63-09-C3	HSK-A 63	PSK C3	32	75	45	M12x1,5
HSK-A63-09-C4	HSK-A 63	PSK C4	40	80	55	M14x1,5
HSK-A63-09-C5	HSK-A 63	PSK C5	50	90	95	M16x1,5
HSK-A100-09-C3-080	HSK-A 100	PSK C3	30	80	45	M14x1,5
HSK-A100-09-C4-090	HSK-A 100	PSK C4	40	90	55	M16x1,5
HSK-A100-09-C5-100	HSK-A 100	PSK C5	50	100	95	M16x1,5
HSK-A100-09-C6-110	HSK-A 100	PSK C6	63	110	170	M14x1,5

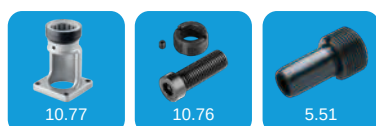
5

Version:

Adapters HSK / PSK with axial clamping. Ground internally and externally. The internal thread provided for the coolant tube in the PSC toolholder is plugged with the socket-head screw incorporated in the adapter. The clamping screw incorporates a through hole, so the system is suitable for through-coolant feed.

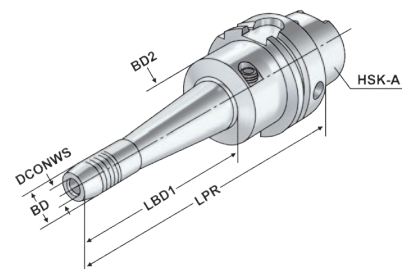
Suitable for tool arbor with polygonal shank (PSC) - ISO 26623-1.

Delivery: Clamping screw





Application:
For mounting straight-shank tools. Especially in operations in toolmaking and mould making. Wherever reduced interference contours are required.



5

Order no.	HSK	DCONWS	LPR	BD	BD2	LSCX	ADJR-GA	LBD1	DRVS	THID
HSK-A63-HSL06-160	HSK-A 63	6	160	16	50	37	10	103	5	M6x1
HSK-A63-HSL08-160	HSK-A 63	8	160	18	50	37	10	103	5	M6x1
HSK-A63-HSL10-160	HSK-A 63	10	160	20	50	42	10	103	5	M8x1
HSK-A63-HSL12-160	HSK-A 63	12	160	22	50	47	10	104	5	M8x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

Delivery: Without wrench

Balanced type



Order no.	Version
-----------	---------

Balancing at G 2.5 of pre-balanced Konrad tools

W25 Without balancing report

W25.2 With balancing report

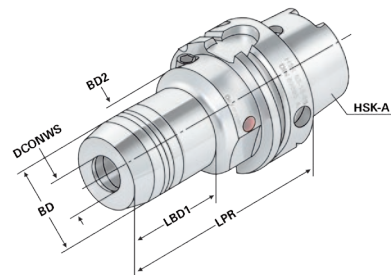
Balancing of unbalanced tools

W25.1 Without balancing report





Application:
For mounting straight-shank tools acc. DIN 1835
form A+B+E and DIN 6535 form HB+HE (larger
than Ø 20 mm only with reduction sleeve).



ISO

12164

Form

A


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

 G2.5
25.000
min⁻¹

RFID

Chip



Ch. 11

Order no.	HSK	DCONWS	LPR	BD	BD2	LSCX	ADJRGA	L _B D1	DRVS	THID
HSK-A32-H06	HSK-A 32	6	80	26	33	37	10	31	5	M6x1
HSK-A32-H08	HSK-A 32	8	80	28	35	37	10	31	5	M6x1
HSK-A32-H10	HSK-A 32	10	85	30	37	42	10	36	5	M6x1
HSK-A32-H12	HSK-A 32	12	90	32	39	47	10	41	5	M6x1
HSK-A32-H14	HSK-A 32	14	95	34	26	47	10	60	5	M6x1
HSK-A32-H16	HSK-A 32	16	100	38	40	52	10	51	5	M8x1
HSK-A32-H20	HSK-A 32	20	100	42	42	52	10	65	5	M8x1
HSK-A40-H06	HSK-A 40	6	80	26	33,5	37	10	33	5	M6x1
HSK-A40-H08	HSK-A 40	8	80	28	33,5	37	10	33,5	5	M6x1
HSK-A40-H10	HSK-A 40	10	85	30	33,5	42	10	39	5	M6x1
HSK-A40-H12	HSK-A 40	12	90	32	33,5	47	10	44,5	5	M6x1
HSK-A40-H14	HSK-A 40	14	90	33,5	33,5	47	10	70	5	M6x1
HSK-A40-H16	HSK-A 40	16	90	38	50	52	10	38	5	M10x1
HSK-A40-H18	HSK-A 40	18	90	40	52	52	10	38	5	M10x1
HSK-A40-H20	HSK-A 40	20	90	42	54	52	10	38	5	M10x1
HSK-A50-H06	HSK-A 50	6	80	26	42	37	10	33	5	M6x1
HSK-A50-H08	HSK-A 50	8	80	28	42	37	10	33,5	5	M6x1
HSK-A50-H10	HSK-A 50	10	85	30	42	42	10	39	5	M8x1
HSK-A50-H12	HSK-A 50	12	90	32	42	47	10	44	5	M8x1
HSK-A50-H14	HSK-A 50	14	90	34	42	47	10	46	5	M10x1
HSK-A50-H16	HSK-A 50	16	95	38	42	52	10	51,5	5	M12x1
HSK-A50-H18	HSK-A 50	18	95	40	42	52	10	52	5	M12x1
HSK-A50-H20	HSK-A 50	20	100	42	42	52	10	74	5	M12x1
HSK-A50-H25	HSK-A 50	25	120	50	42	58	10	78	6	M12x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

Delivery:

Without wrench



9.105



9.106



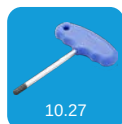
9.108



12.61



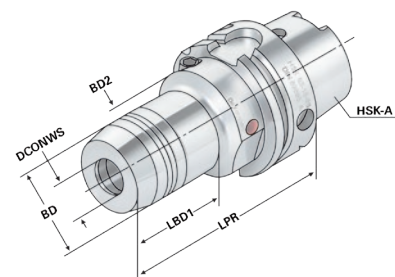
5.51



10.27



Application:
For mounting straight-shank tools acc. DIN 1835 form A+B+E and DIN 6535 form HB+HE (larger than Ø 20 mm only with reduction sleeve).



5

Order no.	HSK	DCONWS	LPR	BD	BD2	LSCX	ADJRGA _{LBD1}	DRVS	THID
HSK-A63-H06	HSK-A 63	6	80	26	50	37	10 33	5	M6x1
HSK-A63-H08	HSK-A 63	8	80	28	50	37	10 33,5	5	M6x1
HSK-A63-H10	HSK-A 63	10	85	30	50	42	10 39	5	M8x1
HSK-A63-H12	HSK-A 63	12	90	32	50	47	10 44,5	5	M8x1
HSK-A63-H14	HSK-A 63	14	90	34	50	47	10 46	5	M10x1
HSK-A63-H16	HSK-A 63	16	95	38	50	52	10 51,5	5	M12x1
HSK-A63-H18	HSK-A 63	18	95	40	50	52	10 52	5	M12x1
HSK-A63-H20	HSK-A 63	20	100	42	50	52	10 58	5	M10x1
HSK-A63-H25	HSK-A 63	25	120	50	50	58	10 94	6	M16x1
HSK-A63-H32	HSK-A 63	32	125	60	53	62	10 83	6	M16x1
HSK-A63-H06-1	HSK-A 63	6	150	26	50	37	10 103	5	M6x1
HSK-A63-H08-1	HSK-A 63	8	150	28	50	37	10 104	5	M6x1
HSK-A63-H10-1	HSK-A 63	10	150	30	50	42	10 104	5	M8x1
HSK-A63-H12-1	HSK-A 63	12	150	32	50	47	10 105	5	M8x1
HSK-A63-H14-1	HSK-A 63	14	150	34	50	47	10 105	5	M10x1
HSK-A63-H16-1	HSK-A 63	16	150	38	50	52	10 106,5	5	M12x1
HSK-A63-H18-1	HSK-A 63	18	150	40	50	52	10 107	5	M12x1
HSK-A63-H20-1	HSK-A 63	20	150	42	50	52	10 108	5	M10x1
HSK-A63-H25-1	HSK-A 63	25	150	50	50	58	10 124	6	M16x1
HSK-A63-H06-2	HSK-A 63	6	200	26	50	37	10 153	5	M6x1
HSK-A63-H08-2	HSK-A 63	8	200	28	50	37	10 154	5	M6x1
HSK-A63-H10-2	HSK-A 63	10	200	30	50	42	10 154	5	M8x1
HSK-A63-H12-2	HSK-A 63	12	200	32	50	47	10 155	5	M8x1
HSK-A63-H14-2	HSK-A 63	14	200	34	50	47	10 155	5	M10x1
HSK-A63-H16-2	HSK-A 63	16	200	38	50	52	10 156,5	5	M12x1
HSK-A63-H18-2	HSK-A 63	18	200	40	50	52	10 157	5	M12x1
HSK-A63-H20-2	HSK-A 63	20	200	42	50	52	10 158	5	M10x1
HSK-A63-H25-2	HSK-A 63	25	200	50	50	58	10 174	6	M16x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

Delivery: Without wrench



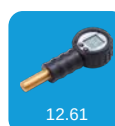
9.105



9.106



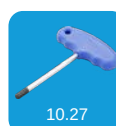
9.108



12.61



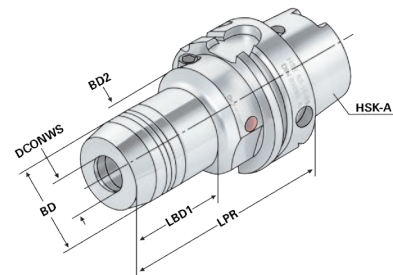
5.51



10.27



Application:
For mounting straight-shank tools acc. DIN 1835 form A+B+E and DIN 6535 form HB+HE (larger than Ø 20 mm only with reduction sleeve).



ISO
12164

Form
A



RFID
Chip

i
Ch. 11

Order no.	HSK	DCONWS	LPR	BD	BD2	LSCX	ADJRGA	L _B D1	DRVS	THID
HSK-A100-H06	HSK-A 100	6	85	26	63	37	10	33	5	M6x1
HSK-A100-H08	HSK-A 100	8	85	28	63	37	10	33,5	5	M6x1
HSK-A100-H10	HSK-A 100	10	90	30	63	42	10	39	5	M8x1
HSK-A100-H12	HSK-A 100	12	95	32	63	47	10	44,5	5	M8x1
HSK-A100-H14	HSK-A 100	14	95	34	63	47	10	46	5	M8x1
HSK-A100-H16	HSK-A 100	16	100	38	63	52	10	53	5	M12x1
HSK-A100-H18	HSK-A 100	18	100	40	63	52	10	52	5	M12x1
HSK-A100-H20	HSK-A 100	20	105	42	63	52	10	51	5	M12x1
HSK-A100-H25	HSK-A 100	25	115	50	63	58	10	64	6	M12x1
HSK-A100-H32	HSK-A 100	32	120	60	63	62	10	61	6	M12x1
HSK-A100-H06-1	HSK-A 100	6	150	26	63	37	10	97	5	M6
HSK-A100-H08-1	HSK-A 100	8	150	28	63	37	10	98	5	M6
HSK-A100-H10-1	HSK-A 100	10	150	30	63	42	10	99	5	M8x1
HSK-A100-H12-1	HSK-A 100	12	150	32	63	47	10	99	5	M8x1
HSK-A100-H14-1	HSK-A 100	14	150	34	63	47	10	101	5	M8x1
HSK-A100-H16-1	HSK-A 100	16	150	38	63	52	10	101	5	M12x1
HSK-A100-H18-1	HSK-A 100	18	150	40	63	52	10	102	5	M12x1
HSK-A100-H20-1	HSK-A 100	20	150	42	63	52	10	101	5	M12x1
HSK-A100-H25-1	HSK-A 100	25	150	50	63	58	10	99	6	M12x1
HSK-A100-H32-1	HSK-A 100	32	150	60	63	62	10	100	6	M12x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

Delivery: Without wrench



Maintenance and repair of hydraulic chucks

Clamping of tools with hydraulic chucks is a widespread, well-established and reliable method. It is a resistant, easy-to-operate and durable way of clamping due to its advantageous construction design. Nevertheless in the course of time under the influence of thermal and mechanical outputs at factories loss of clamping force is observed. As a result the life of the tool shortens and its quality during the working process reduces. Therefore it leads to a costly damage of the tool.

We maintain and repair your hydraulic chucks - both those manufactured at our place and those produced somewhere else - for a reasonable price here at our office in the south of Germany.

We check possible causes of the clamping force reduction and repair it within two weeks at a fixed low price. At the same time we renew all the fast wearing parts, fill the hydraulic system anew and adjust its clamping force. Afterwards the final inspection stage takes place.

You are welcome to contact our customer service for further information and prices.

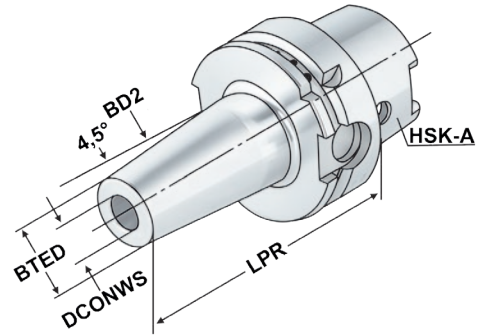


Shrink chucks 4,5° for mounting of solid carbide and HSS-tool shanks

ISO 12164-1 | HSK-A
(DIN 69893-1 | HSK-A)



Application:
For mounting straight-shank tools.



ISO
12164

Form
A



RFID
Chip

h6

Order no.	HSK	DCONWS	TDCON	LPR	BTED	BD2	LSCN	LSCX	ADJRGA	THID
HSK-A32-70-03	HSK-A 32	3	h4	60	11	15	-	10	-	-
HSK-A32-70-04	HSK-A 32	4	h4	60	10	16	-	20	-	-
HSK-A32-70-05	HSK-A 32	5	h4	60	10	16	-	20	-	-
HSK-A32-70-06	HSK-A 32	6	h6	70	21	26	26	36	10	M5x0,8
HSK-A32-70-08	HSK-A 32	8	h6	70	21	26	26	36	10	M6x1
HSK-A32-70-10	HSK-A 32	10	h6	70	24	29	32	42	10	M8x1
HSK-A32-70-12	HSK-A 32	12	h6	90	24	29	37	47	10	M10x1
HSK-A32-70-14	HSK-A 32	14	h6	90	27	34	37	47	10	M10x1
HSK-A32-70-16	HSK-A 32	16	h6	90	27	34	40	50	10	M12x1
HSK-A32-70-20	HSK-A 32	20	h6	100	33	40	42	52	10	M12x1
HSK-A40-70-03	HSK-A 40	3	h4	80	11	15	-	10	-	-
HSK-A40-70-04	HSK-A 40	4	h4	80	14	22	-	20	-	-
HSK-A40-70-05	HSK-A 40	5	h4	80	16	22	-	20	-	-
HSK-A40-70-06	HSK-A 40	6	h6	80	21	27	26	36	10	M5x0,8
HSK-A40-70-08	HSK-A 40	8	h6	80	21	27	26	36	10	M6x1
HSK-A40-70-10	HSK-A 40	10	h6	80	24	32	32	42	10	M8x1
HSK-A40-70-12	HSK-A 40	12	h6	90	24	32	37	47	10	M10x1
HSK-A40-70-14	HSK-A 40	14	h6	90	27	34	37	47	10	M10x1
HSK-A40-70-16	HSK-A 40	16	h6	90	27	34	40	50	10	M12x1
HSK-A40-70-18	HSK-A 40	18	h6	95	33	42	40	50	10	M12x1
HSK-A40-70-20	HSK-A 40	20	h6	100	33	42	42	52	10	M16x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

For Ø 3, 4 and 5 mm only solid carbide tool shanks must be used!

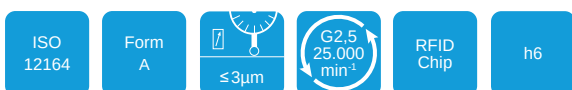
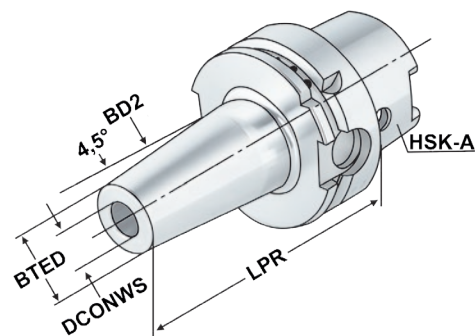
Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 3, 4, 5 with h₄-tolerance and Ø 6–Ø 32 with h₆-tolerance

Shrink chucks 4,5° for mounting of solid carbide and HSS-tool shanks

ISO 12164-1 | HSK-A
(DIN 69893-1 | HSK-A)



Application:
For mounting straight-shank tools.



5

Order no.	HSK	DCONWS	TDCON	LPR	BTED	BD2	LSCN	LSCX	ADJRGA	THID
HSK-A50-70-03	HSK-A 50	3	h4	80	11	15	-	18	-	-
HSK-A50-70-04	HSK-A 50	4	h4	80	14	22	-	20	-	-
HSK-A50-70-05	HSK-A 50	5	h4	80	16	22	-	20	-	-
HSK-A50-70-06	HSK-A 50	6	h6	80	21	27	26	36	10	M5x0,8
HSK-A50-70-08	HSK-A 50	8	h6	80	21	27	26	36	10	M6x1
HSK-A50-70-10	HSK-A 50	10	h6	85	24	32	32	42	10	M8x1
HSK-A50-70-12	HSK-A 50	12	h6	90	24	32	37	47	10	M10x1
HSK-A50-70-14	HSK-A 50	14	h6	90	27	34	37	47	10	M10x1
HSK-A50-70-16	HSK-A 50	16	h6	95	27	34	40	50	10	M12x1
HSK-A50-70-18	HSK-A 50	18	h6	95	33	42	40	50	10	M12x1
HSK-A50-70-20	HSK-A 50	20	h6	100	33	42	42	52	10	M16x1

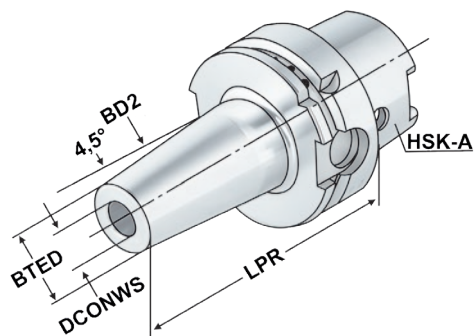


Shrink chucks 4,5° for mounting of solid carbide and HSS-tool shanks

ISO 12164-1 | HSK-A
(DIN 69893-1 | HSK-A)



Application:
For mounting straight-shank tools.



ISO
12164

Form
A



RFID
Chip

h6

Order no.	HSK	DCONWS	TDCON	LPR	BTED	BD2	LSCN	LSCX	ADJRGA	THID
HSK-A63-70-03	HSK-A 63	3	h4	80	11	15	9	–	–	–
HSK-A63-70-04	HSK-A 63	4	h4	80	14	22	9	–	–	–
HSK-A63-70-05	HSK-A 63	5	h4	80	16	22	10	–	–	–
HSK-A63-70-06	HSK-A 63	6	h6	80	21	27	22	36	10	M5x0,8
HSK-A63-70-08	HSK-A 63	8	h6	80	21	27	26	36	10	M6x1
HSK-A63-70-10	HSK-A 63	10	h6	85	24	32	31	41	10	M8x1
HSK-A63-70-12	HSK-A 63	12	h6	90	24	32	36	46	10	M10x1
HSK-A63-70-14	HSK-A 63	14	h6	90	27	34	36	46	10	M10x1
HSK-A63-70-16	HSK-A 63	16	h6	95	27	34	39	49	10	M12x1
HSK-A63-70-18	HSK-A 63	18	h6	95	33	42	39	49	10	M12x1
HSK-A63-70-20	HSK-A 63	20	h6	100	33	42	41	51	10	M16x1
HSK-A63-70-25	HSK-A 63	25	h6	115	44	53	47	57	10	M16x1
HSK-A63-70-32	HSK-A 63	32	h6	120	44	53	51	61	10	M16x1
HSK-A63-70-03-1	HSK-A 63	3	h4	120	11	15	9	–	–	–
HSK-A63-70-04-1	HSK-A 63	4	h4	120	14	22	9	–	–	–
HSK-A63-70-05-1	HSK-A 63	5	h4	120	16	22	10	–	–	–
HSK-A63-70-06-1	HSK-A 63	6	h6	120	21	27	22	36	10	M5x0,8
HSK-A63-70-08-1	HSK-A 63	8	h6	120	21	27	26	36	10	M6x1
HSK-A63-70-10-1	HSK-A 63	10	h6	120	24	32	31	41	10	M8x1
HSK-A63-70-12-1	HSK-A 63	12	h6	120	24	32	36	46	10	M10x1
HSK-A63-70-14-1	HSK-A 63	14	h6	120	27	34	36	46	10	M10x1
HSK-A63-70-16-1	HSK-A 63	16	h6	120	27	34	39	49	10	M12x1
HSK-A63-70-18-1	HSK-A 63	18	h6	120	33	42	39	49	10	M12x1
HSK-A63-70-20-1	HSK-A 63	20	h6	120	33	42	41	51	10	M16x1

For Ø 3, 4 and 5 mm only solid carbide tool shanks must be used!

Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 3, 4, 5 with h₄-tolerance and Ø 6–Ø 32 with h₆-tolerance

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.



Shrink chucks 4,5° for mounting of solid carbide and HSS-tool shanks

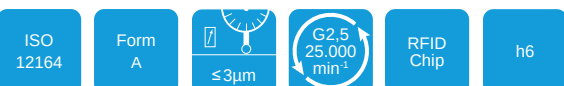
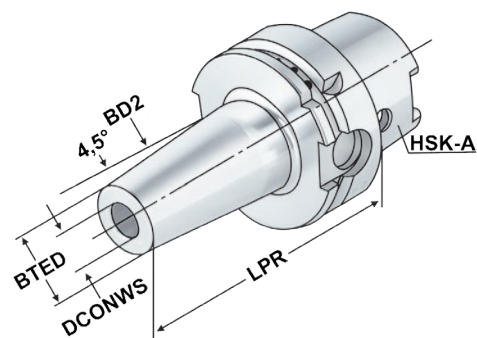
ISO 12164-1 | HSK-A
(DIN 69893-1 | HSK-A)



Verwendung:
Zur Aufnahme von Werkzeugen mit
Zylinderschaft.

Application:
For mounting straight-shank tools.

Application:
Pour le serrage d'outils avec queue
cylindrique.



5

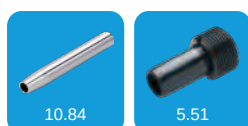
Order no.	HSK	DCONWSTD	CON	LPR	BTED	BD2	LSCN	LSCX	ADJRGA	THID
HSK-A63-70-03-2	HSK-A 63	3	h4	160	11	15	9	—	—	—
HSK-A63-70-04-2	HSK-A 63	4	h4	160	14	22	9	—	—	—
HSK-A63-70-05-2	HSK-A 63	5	h4	160	16	22	10	—	—	—
HSK-A63-70-06-2	HSK-A 63	6	h6	160	21	27	22	36	10	M5x0,8
HSK-A63-70-08-2	HSK-A 63	8	h6	160	21	27	26	36	10	M6x1
HSK-A63-70-10-2	HSK-A 63	10	h6	160	24	32	31	41	10	M8x1
HSK-A63-70-12-2	HSK-A 63	12	h6	160	24	32	36	46	10	M10x1
HSK-A63-70-14-2	HSK-A 63	14	h6	160	27	34	36	46	10	M10x1
HSK-A63-70-16-2	HSK-A 63	16	h6	160	27	34	39	49	10	M12x1
HSK-A63-70-18-2	HSK-A 63	18	h6	160	33	42	39	49	10	M12x1
HSK-A63-70-20-2	HSK-A 63	20	h6	160	33	42	41	51	10	M16x1
HSK-A63-70-25-2	HSK-A 63	25	h6	160	44	53	47	57	10	M16x1
HSK-A63-70-32-2	HSK-A 63	32	h6	160	44	53	51	61	10	M16x1
HSK-A63-70-06-3	HSK-A 63	6	h6	200	21	27	22	36	10	M5x0,8
HSK-A63-70-08-3	HSK-A 63	8	h6	200	21	27	26	36	10	M6x1
HSK-A63-70-10-3	HSK-A 63	10	h6	200	24	32	31	41	10	M8x1
HSK-A63-70-12-3	HSK-A 63	12	h6	200	24	32	36	46	10	M10x1
HSK-A63-70-14-3	HSK-A 63	14	h6	200	27	34	36	46	10	M10x1
HSK-A63-70-16-3	HSK-A 63	16	h6	200	27	34	39	49	10	M12x1
HSK-A63-70-18-3	HSK-A 63	18	h6	200	33	42	39	49	10	M12x1
HSK-A63-70-20-3	HSK-A 63	20	h6	200	33	42	41	51	10	M16x1
HSK-A63-70-25-3	HSK-A 63	25	h6	200	44	53	47	57	10	M16x1
HSK-A63-70-32-3	HSK-A 63	32	h6	200	44	53	51	61	10	M16x1

For Ø 3, 4 and 5 mm only solid carbide tool shanks must be used!

Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 3, 4, 5 with h₄-tolerance and Ø 6–Ø 32 with h₆-tolerance

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

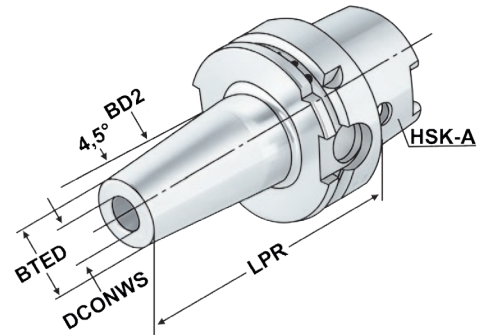


Shrink chucks 4,5° for mounting of solid carbide and HSS-tool shanks

ISO 12164-1 | HSK-A
(DIN 69893-1 | HSK-A)



Verwendung:
Zur Aufnahme von Werkzeugen mit
Zylinderschaft.
Application:
For mounting straight-shank tools.
Application:
Pour le serrage d'outils avec queue
cylindrique.



ISO
12164

Form
A



RFID
Chip

h6

Order no.	HSK	DCONWS	TDCON	LPR	BTED	BD2	LSCN	LSCX	ADJRG	THID
HSK-A100-70-04	HSK-A 100	4	h4	85	14	22	8	-	-	-
HSK-A100-70-05	HSK-A 100	5	h4	85	16	22	10	-	-	-
HSK-A100-70-06	HSK-A 100	6	h6	85	21	27	22	36	10	M5x0,8
HSK-A100-70-08	HSK-A 100	8	h6	85	21	27	26	36	10	M6x1
HSK-A100-70-10	HSK-A 100	10	h6	90	24	32	31	41	10	M8x1
HSK-A100-70-12	HSK-A 100	12	h6	95	24	32	36	46	10	M10x1
HSK-A100-70-14	HSK-A 100	14	h6	95	27	34	36	46	10	M10x1
HSK-A100-70-16	HSK-A 100	16	h6	100	27	34	39	49	10	M12x1
HSK-A100-70-18	HSK-A 100	18	h6	100	33	42	39	49	10	M12x1
HSK-A100-70-20	HSK-A 100	20	h6	105	33	42	41	51	10	M16x1
HSK-A100-70-25	HSK-A 100	25	h6	120	44	53	47	57	10	M16x1
HSK-A100-70-32	HSK-A 100	32	h6	120	44	53	51	61	10	M16x1
HSK-A100-70-06-1	HSK-A 100	6	h6	120	21	27	22	36	10	M5x0,8
HSK-A100-70-08-1	HSK-A 100	8	h6	120	21	27	26	36	10	M6x1
HSK-A100-70-10-1	HSK-A 100	10	h6	120	24	32	31	41	10	M8x1
HSK-A100-70-12-1	HSK-A 100	12	h6	120	24	32	36	46	10	M10x1
HSK-A100-70-14-1	HSK-A 100	14	h6	120	27	34	36	46	10	M10x1
HSK-A100-70-16-1	HSK-A 100	16	h6	120	27	34	39	49	10	M12x1
HSK-A100-70-18-1	HSK-A 100	18	h6	120	33	42	39	49	10	M12x1
HSK-A100-70-20-1	HSK-A 100	20	h6	120	33	42	41	51	10	M16x1
HSK-A100-70-06-2	HSK-A 100	6	h6	160	21	27	22	36	10	M5x0,8
HSK-A100-70-08-2	HSK-A 100	8	h6	160	21	27	26	36	10	M6x1
HSK-A100-70-10-2	HSK-A 100	10	h6	160	24	32	31	41	10	M8x1
HSK-A100-70-12-2	HSK-A 100	12	h6	160	24	32	36	46	10	M10x1
HSK-A100-70-14-2	HSK-A 100	14	h6	160	27	34	36	46	10	M10x1
HSK-A100-70-16-2	HSK-A 100	16	h6	160	27	34	39	49	10	M12x1
HSK-A100-70-18-2	HSK-A 100	18	h6	160	33	42	39	49	10	M12x1
HSK-A100-70-20-2	HSK-A 100	20	h6	160	33	42	41	51	10	M16x1
HSK-A100-70-25-2	HSK-A 100	25	h6	160	44	53	47	57	10	M16x1
HSK-A100-70-32-2	HSK-A 100	32	h6	160	44	53	51	61	10	M16x1

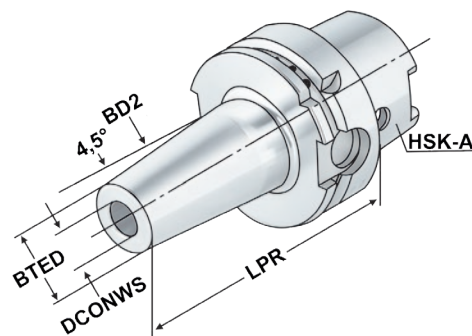


Shrink chucks 4,5° for mounting of solid carbide and HSS-tool shanks

ISO 12164-1 | HSK-A
(DIN 69893-1 | HSK-A)



Application:
For mounting straight-shank tools.



ISO
12164

Form
A

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

G2.5
25.000
min⁻¹

RFID
Chip

h6

5

Order no.	HSK	DCONWS	TDCON	LPR	BTED	BD2	LSCN	LSCX	ADJRGA	THID
HSK-A100-70-06-3	HSK-A 100	6	h6	200	21	27	22	36	10	M5x0,8
HSK-A100-70-08-3	HSK-A 100	8	h6	200	21	27	26	36	10	M6x1
HSK-A100-70-10-3	HSK-A 100	10	h6	200	24	32	31	41	10	M8x1
HSK-A100-70-12-3	HSK-A 100	12	h6	200	24	32	36	46	10	M10x1
HSK-A100-70-14-3	HSK-A 100	14	h6	200	27	34	36	46	10	M10x1
HSK-A100-70-16-3	HSK-A 100	16	h6	200	27	34	39	49	10	M12x1
HSK-A100-70-18-3	HSK-A 100	18	h6	200	33	42	39	49	10	M12x1
HSK-A100-70-20-3	HSK-A 100	20	h6	200	33	42	41	51	10	M16x1
HSK-A100-70-25-3	HSK-A 100	25	h6	200	44	53	47	57	10	M16x1
HSK-A100-70-32-3	HSK-A 100	32	h6	200	44	53	51	61	10	M16x1

For Ø 3, 4 and 5 mm only solid carbide tool shanks must be used!

Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 3, 4, 5 with h₄-tolerance and Ø 6–Ø 32 with h₆-tolerance

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

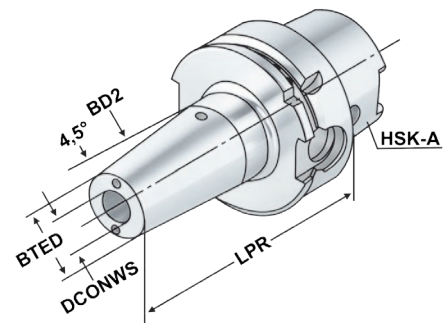


Shrink chucks 4,5° for mounting of solid carbide and HSS-tool shanks

ISO 12164-1 | HSK-A
(DIN 69893-1 | HSK-A)



Application:
For mounting straight-shank tools.



Order no.	HSK	DCONWS	TDCON	LPR	BTED	BD2	LSCN	LSCX	ADJRGA	THID
HSK-A63-70-03-CC	HSK-A 63	3	h4	80	11	15	9	-	-	-
HSK-A63-70-04-CC	HSK-A 63	4	h4	80	14	22	9	-	-	-
HSK-A63-70-05-CC	HSK-A 63	5	h6	80	16	22	10	-	-	-
HSK-A63-70-06-CC	HSK-A 63	6	h6	80	21	27	22	36	10	M5x0,8
HSK-A63-70-08-CC	HSK-A 63	8	h6	80	21	27	26	36	10	M6x1
HSK-A63-70-10-CC	HSK-A 63	10	h6	85	24	32	31	41	10	M8x1
HSK-A63-70-12-CC	HSK-A 63	12	h6	90	24	32	36	46	10	M10x1
HSK-A63-70-14-CC	HSK-A 63	14	h6	90	27	34	36	46	10	M10x1
HSK-A63-70-16-CC	HSK-A 63	16	h6	95	27	34	39	49	10	M12x1
HSK-A63-70-18-CC	HSK-A 63	18	h6	95	33	42	39	49	10	M12x1
HSK-A63-70-20-CC	HSK-A 63	20	h6	100	33	42	41	51	10	M16x1
HSK-A63-70-25-CC	HSK-A 63	25	h6	115	44	53	48	58	10	M16x1
HSK-A63-70-32-CC	HSK-A 63	32	h6	120	44	53	51	61	10	M16x1
HSK-A63-70-03-1-CC	HSK-A 63	3	h6	120	11	15	-	-	-	-
HSK-A63-70-04-1-CC	HSK-A 63	4	h6	120	14	22	-	-	-	-
HSK-A63-70-05-1-CC	HSK-A 63	5	h6	120	16	22	-	-	-	-
HSK-A63-70-06-1-CC	HSK-A 63	6	h6	120	21	27	22	36	10	M5x0,8
HSK-A63-70-08-1-CC	HSK-A 63	8	h6	120	21	27	26	36	10	M6x1
HSK-A63-70-10-1-CC	HSK-A 63	10	h6	120	24	32	31	41	10	M8x1
HSK-A63-70-12-1-CC	HSK-A 63	12	h6	120	24	32	36	46	10	M10x1
HSK-A63-70-14-1-CC	HSK-A 63	14	h6	120	27	34	36	46	10	M10x1
HSK-A63-70-16-1-CC	HSK-A 63	16	h6	120	27	34	39	49	10	M12x1
HSK-A63-70-18-1-CC	HSK-A 63	18	h6	120	33	42	39	49	10	M12x1
HSK-A63-70-20-1-CC	HSK-A 63	20	h6	120	33	42	41	51	10	M16x1

For Ø 3, 4 and 5 mm only solid carbide tool shanks must be used!

Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 3, 4, 5 with h₄-tolerance and Ø 6–Ø 32 with h₆-tolerance

LSCX = Clamping depth, max.

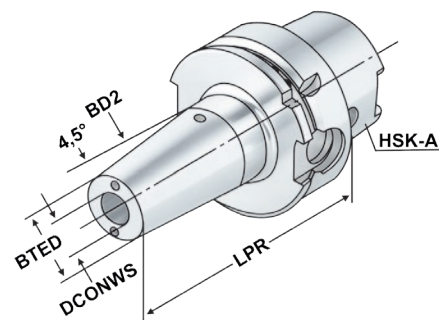
ADJRGA = Length adjustment range, max.

Shrink chucks 4,5° for mounting of solid carbide and HSS-tool shanks

ISO 12164-1 | HSK-A
(DIN 69893-1 | HSK-A)



Application:
For mounting straight-shank tools.



5

Order no.	HSK	DCONWS	TDCON	LPR	BTED	BD2	LSCN	LSCX	ADJRG	THID
HSK-A63-70-06-2-CC	HSK-A 63	6	h6	160	21	27	26	36	10	M5x0,8
HSK-A63-70-08-2-CC	HSK-A 63	8	h6	160	21	27	26	36	10	M6x1
HSK-A63-70-10-2-CC	HSK-A 63	10	h6	160	24	32	41	42	10	M8x1
HSK-A63-70-12-2-CC	HSK-A 63	12	h6	160	24	32	37	47	10	M10x1
HSK-A63-70-14-2-CC	HSK-A 63	14	h6	160	27	34	37	47	10	M10x1
HSK-A63-70-16-2-CC	HSK-A 63	16	h6	160	27	34	40	50	10	M12x1
HSK-A63-70-18-2-CC	HSK-A 63	18	h6	160	33	42	40	50	10	M12x1
HSK-A63-70-20-2-CC	HSK-A 63	20	h6	160	33	42	42	52	10	M16x1
HSK-A63-70-25-2-CC	HSK-A 63	25	h6	160	44	53	48	58	10	M16x1
HSK-A63-70-32-2-CC	HSK-A 63	32	h6	160	44	53	51	61	10	M16x1
HSK-A100-70-06-CC	HSK-A 100	6	h6	80	21	27	26	36	10	M5x0,8
HSK-A100-70-08-CC	HSK-A 100	8	h6	80	21	27	26	36	10	M6x1
HSK-A100-70-10-CC	HSK-A 100	10	h6	85	24	32	41	42	10	M8x1
HSK-A100-70-12-CC	HSK-A 100	12	h6	90	24	32	46	47	10	M10x1
HSK-A100-70-14-CC	HSK-A 100	14	h6	90	27	34	46	47	10	M10x1
HSK-A100-70-16-CC	HSK-A 100	16	h6	95	27	34	40	50	10	M12x1
HSK-A100-70-18-CC	HSK-A 100	18	h6	95	33	42	40	50	10	M12x1
HSK-A100-70-20-CC	HSK-A 100	20	h6	100	33	42	42	52	10	M16x1
HSK-A100-70-25-CC	HSK-A 100	25	h6	120	44	53	48	58	10	M16x1
HSK-A100-70-32-CC	HSK-A 100	32	h6	120	44	53	51	61	10	M16x1
HSK-A100-70-06-1-CC	HSK-A 100	6	h6	120	21	27	26	36	10	M5x0,8
HSK-A100-70-08-1-CC	HSK-A 100	8	h6	120	21	27	26	36	10	M6x1
HSK-A100-70-10-1-CC	HSK-A 100	10	h6	120	24	32	42	42	10	M8x1
HSK-A100-70-12-1-CC	HSK-A 100	12	h6	120	24	32	37	47	10	M10x1
HSK-A100-70-14-1-CC	HSK-A 100	14	h6	120	27	34	37	47	10	M10x1
HSK-A100-70-16-1-CC	HSK-A 100	16	h6	120	27	34	40	50	10	M12x1
HSK-A100-70-18-1-CC	HSK-A 100	18	h6	120	33	42	40	50	10	M12x1
HSK-A100-70-20-1-CC	HSK-A 100	20	h6	120	33	42	42	52	10	M16x1

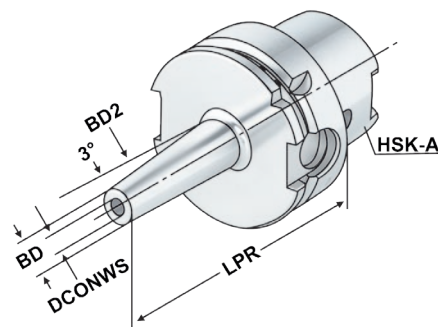


Shrink chucks 3° for mounting of solid carbide and HSS-tool shanks - slim

ISO 12164-1 | HSK-A
(DIN 69893-1 | HSK-A)



Application:
For mounting straight-shank tools.



ISO
12164

Form
A



RFID
Chip

h6

Order no.	HSK	DCONWS	TDCON	LPR	BTED	BD2	LSCN	LSCX	ADJRGA	THID
HSK-A63-72-03	HSK-A 63	3	h4	80	9	15,5	6	-	-	-
HSK-A63-72-04	HSK-A 63	4	h4	80	10	16,5	8	-	-	-
HSK-A63-72-05	HSK-A 63	5	h4	80	11	17,5	10	-	-	-
HSK-A63-72-06	HSK-A 63	6	h6	80	12	18,5	22	36	10	M5x0,8
HSK-A63-72-08	HSK-A 63	8	h6	80	14	20,5	26	36	10	M6x1
HSK-A63-72-10	HSK-A 63	10	h6	80	16	22,5	31	41	10	M8x1
HSK-A63-72-12	HSK-A 63	12	h6	80	18	24,5	36	46	10	M10x1
HSK-A63-72-03-1	HSK-A 63	3	h4	120	9	19,5	6	-	-	-
HSK-A63-72-04-1	HSK-A 63	4	h4	120	10	20,5	8	-	-	-
HSK-A63-72-05-1	HSK-A 63	5	h4	120	11	21,5	10	-	-	-
HSK-A63-72-06-1	HSK-A 63	6	h6	120	12	22,5	22	36	10	M5x0,8
HSK-A63-72-08-1	HSK-A 63	8	h6	120	14	24,5	26	36	10	M6x1
HSK-A63-72-10-1	HSK-A 63	10	h6	120	16	26,5	31	41	10	M8x1
HSK-A63-72-12-1	HSK-A 63	12	h6	120	18	28,5	36	46	10	M10x1
HSK-A63-72-04-2	HSK-A 63	4	h4	160	10	24	8	-	-	-
HSK-A63-72-05-2	HSK-A 63	5	h4	160	11	25	10	-	-	-
HSK-A63-72-06-2	HSK-A 63	6	h6	160	12	26,5	22	36	10	M5x0,8
HSK-A63-72-08-2	HSK-A 63	8	h6	160	14	28,5	26	36	10	M6x1
HSK-A63-72-10-2	HSK-A 63	10	h6	160	16	30,5	31	41	10	M8x1
HSK-A63-72-12-2	HSK-A 63	12	h6	160	18	32,5	36	46	10	M10x1

For Ø 3, 4 and 5 mm only solid carbide tool shanks must be used!

Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 3, 4, 5 with h₄-tolerance and Ø 6–Ø 32 with h₆-tolerance

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

Version: slim design (reduced interference contour)



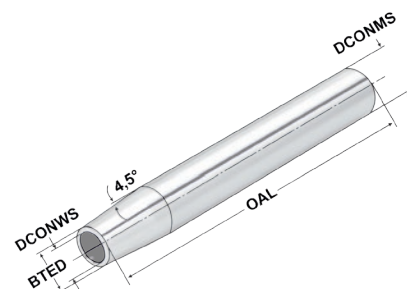
10.84



5.51



Application:
For use in shrink-fit chucks, hydraulic chucks, and ER collet chucks.


5

Order no.	DCONMS	DCONWS	BTED	OAL	LSCN	LSCX	ADJRGA	THID
ACE-70-03*	20	3	10	150	6	-	-	-
ACE-70-04*	20	4	10	150	8	-	-	-
ACE-70-05*	20	5	10	150	10	-	-	-
ACE-70-06	20	6	10	150	22	36	10	M5x0,8
ACE-70-08	20	8	12	150	26	36	10	M6x1
ACE-70-10	20	10	14	150	31	41	10	M8x1
ACE-70-12	20	12	16	150	36	46	10	M10x1
ACE-70-25-08	25	8	12	150	26	36	10	M6x1
ACE-70-25-10	25	10	14	150	31	41	10	M8x1
ACE-70-25-12	25	12	16	150	36	46	10	M10x1
ACE-70-25-14	25	14	18	150	36	46	10	M10x1
ACE-70-25-16	25	16	20	150	39	49	10	M12x1
ACE-70-32-10	32	10	14	150	31	41	10	M8x1
ACE-70-32-12	32	12	16	150	36	46	10	M10x1
ACE-70-32-14	32	14	18	150	36	46	10	M10x1
ACE-70-32-16	32	16	20	150	39	49	10	M12x1
ACE-70-32-18	32	18	22	150	39	49	10	M12x1
ACE-70-32-20	32	20	24	150	41	51	10	M16x1

For Ø 3, 4 and 5 mm only solid carbide tool shanks must be used!

Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 3, 4, 5 with h_4 -tolerance and Ø 6–Ø 32 with h_6 -tolerance

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

Through hole for internal cooling provided.

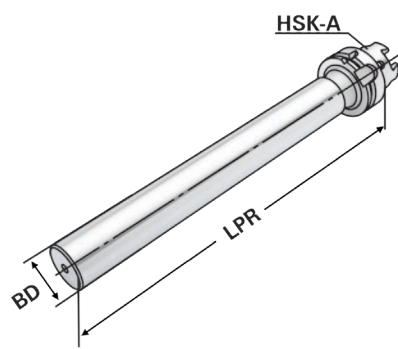
* without end stop

Test arbors

ISO 12164-1 | HSK-A
(DIN 69893-1 | HSK-A)



Application:
For the inspection of machine tools according to ISO recommendation R230 or for testing the tool spindle.



ISO 12164

Form A

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

Order no.	HSK	BD	LPR	Tolerance	max. concentricity deviation
HSK-A32-18-25	HSK-A 32	25	200	0,003	0,003
HSK-A40-18-25	HSK-A 40	25	200	0,003	0,003
HSK-A50-18-32	HSK-A 50	32	346	0,003	0,003
HSK-A63-18-40	HSK-A 63	40	346	0,003	0,003
HSK-A100-18-50	HSK-A 100	50	329	0,003	0,003

5

Delivery: *Delivery with test certificate*

Wooden box for test arbors



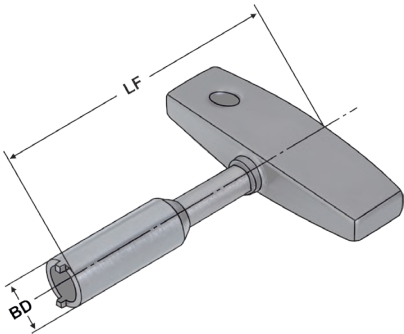
Application:
For the storage of test arbors.



Order no.	Size	for cones
WB-18	460×130×115	SK 30 / 40 / 50



Application:
For mounting the coolant tubes in HSK
toolholders.



ISO
12164

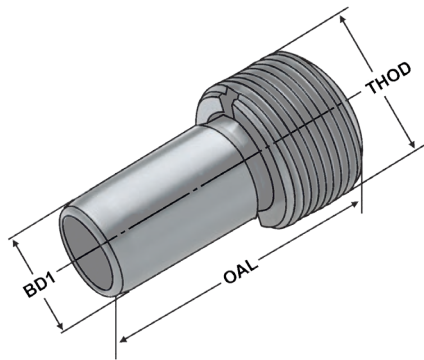
Form
A

Order no.	HSK	BD	LF
K-HSK-A32	HSK 32	8,5	115
K-HSK-A40	HSK 40	10,5	115
K-HSK-A50	HSK 50	14,5	115
K-HSK-A63	HSK 63	16,5	136
K-HSK-A80	HSK 80	18,5	136
K-HSK-A100	HSK 100	22,0	136





Application:
For the coolant supply through the centre of
HSK toolholders.



DIN
69895

Form
A + E

Order no.	HSK	THOD	BD1	OAL	TQX
CT-HSK-A32	HSK 32	M10 × 1	6	26,0	5
CT-HSK-A40	HSK 40	M12 × 1	8	29,5	10
CT-HSK-A50	HSK 50	M16 × 1	10	33,0	15
CT-HSK-A63	HSK 63	M18 × 1	12	36,5	20
CT-HSK-A80	HSK 80	M20 × 1,5	14	40,0	25
CT-HSK-A100	HSK 100	M24 × 1,5	16	44,0	30

5

Note: According to ISO 22402-1 (formerly DIN 69895) for HSK-A and HSK-E hollow taper shanks
Axial sealed with two O-rings
Tightness of the screw connection tested up to 80 bar
After mounting, the coolant tube can be moved only to a minimum degree according to DIN (±1°)

ISO 22402-1:2021-11

Medium-transfer units for tool interfaces
Part 1: Transfer units for hollow taper shanks in accordance with the ISO 12164 series

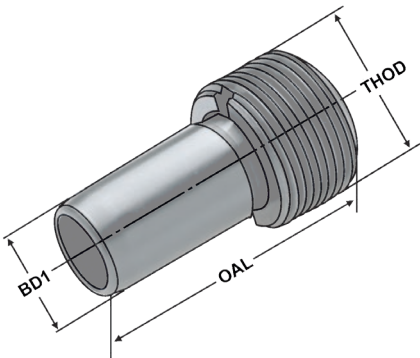


Coolant pipe / Coolant tubes for conventional cooling with filter

ISO 12164-1 | HSK-A
(DIN 69893-1 | HSK-A)



Application:
For the coolant supply through the centre of HSK toolholders.



DIN 69895
Form A + E

Order no.	HSK	THOD	BD1	OAL	TQX
HSK-A63-700-F-100	HSK 63	M18×1	12	36,5	20
HSK-A100-700-F-100	HSK 100	M24×1,5	16	44,0	30

5



Note:
With filter for dirt particle-free cooling
100µ stainless steel mesh filter
Tightness of the screw connection tested up to 80 bar
After mounting, the coolant tube can be moved only to a minimum degree according to DIN (±1°)

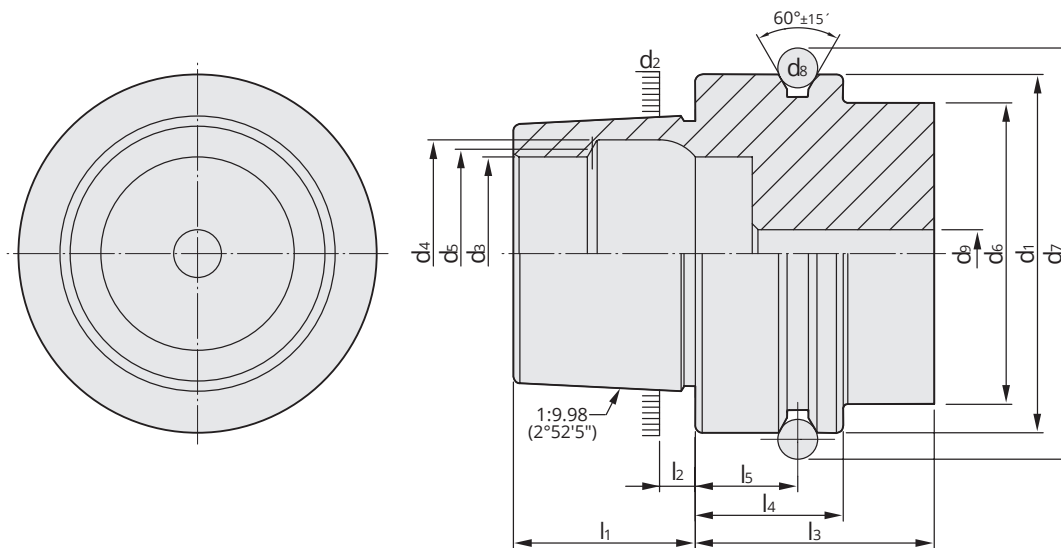


5.50

DIN 69893-5 HSK-E



Toolholders
DIN 69893-5 - HSK-E


5

HSK	d ₁ h10	d ₂	d ₃ H10	d ₄ H11	d ₅	d ₆ max	d ₇ 0 -0,1	d ₈	d ₉ max	l ₁ 0 -0,2	l ₂	l ₃ min	l ₄ 0 -0,1	l ₅ ±0,1
25	25	19,006	14	16,4	15	20	28,5	3	3	13	2,5	20	10	4,5
32	32	24,007	17	20,5	19	26	37	4	4,2	16	3,2	35	20	16
40	40	30,007	21	25,5	23	34	45	4	5	20	4	35	20	16
50	50	38,009	26	32	29	42	59,3	7	6,8	25	5	42	26	18
63	63	48,010	34	40	37	53	72,3	7	8,4	32	6,3	42	26	18
80	80	60,012	42	50	46	68	88,8	7	10,2	40	8	42	26	18
100	100	75,013	53	63	58	88	109,75	7	12	50	10	45	29	20
125	125	95,016	67	80	73	111	134,75	7	14	63	12,5	45	29	20

Pre-balanced G 6,3 15.000 min⁻¹
G 2.5 Fine balancing at extra charge

Material: Alloyed case-hardened steel, tensile core strength of min. 950 N/mm².
Case hardened HRC 60 ± 2 (HV 700 ± 50), hardening depth 0.8 mm ± 0.2 mm,
black-finished and precisely grinded.

Accuracy: Quality of taper < AT 3 according to DIN 7187.

Normative references:

ISO 12164-1:2023-10

Hollow taper interface with flange contact surface -

Part 1: Shanks of types A, AB, C, CB and EB

DIN 69893-5:2024-05

Hollow taper shanks with flat contact surface -

Part 5: Hollow taper shanks type E - Dimensions and design

5.55



5.56



5.57



5.58



5.59



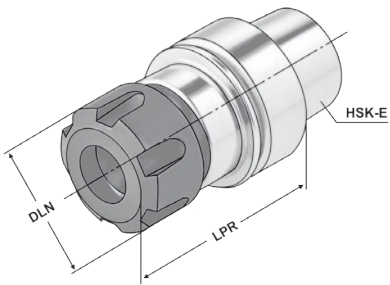
5.60



Collet chucks for collets ISO 15488 (DIN 6499) ER-system



Application:
For mounting straight-shank tools in
collets.



ISO 12164

Form E

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

$G2.5$
 25.000
 min^{-1}

ISO 15488

Ch. 11

5

Order no.	HSK	DCONWS Capacity	Typ	LPR	DLN	DRVS	THID
HSK-E40-02-10	HSK-E 40	1 – 10	426E ER 16	65	32	24	M10 x 1,5
HSK-E40-02-13	HSK-E 40	1 – 13	428E ER 20	60	35	30	M12 x 1,75
HSK-E40-02-16	HSK-E 40	2 – 16	430E ER 25	75	42	32	M16 x 2,0
HSK-E40-02-20	HSK-E 40	2 – 20	470E ER 32	100	50	48	M16 x 2,0
HSK-E63-02-20	HSK-E 63	2 – 20	470E ER 32	90	50	46	M16 x 2,0
HSK-E63-02-26	HSK-E 63	3 – 26	472E ER 40	120	63	46	M16 x 2,0

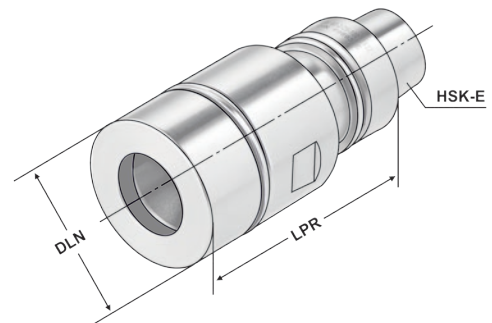
Delivery: With balanced clamping nut



Precision collet chuck ER for collets ISO 15488 (DIN 6499) ER-system



Application:
For mounting straight-shank tools in
3 µm-collets.



Order no.	HSK	DCONWS Capacity	Typ	LPR	DLN	DRVS	THID
HSK-E40-P2-20-070	HSK-E 40	2 – 20	470E ER 32	70	50	30	M16 x 2,0
HSK-E50-P2-20-070	HSK-E 50	2 – 20	470E ER 32	70	50	38	M16 x 2,0

5

Advantages:

- Excellent concentricity in the system (chuck + collet + clamping nut)
- Extremely strong holding force (increases the holding power by at least 60% compared to standard ER chuck)
- Plain clamping nut without grooves for high speed machining

Note: Only nominal size DCONWS can be clamped.

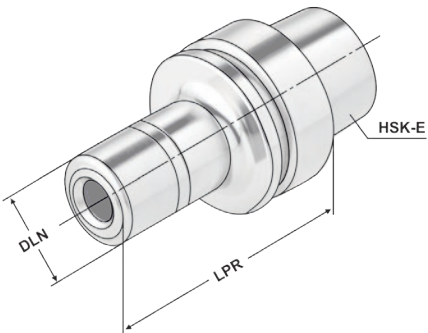
Delivery: With precision clamping nut



Collet chucks for collets | KPS-system



Application:
For mounting straight-shank tools in collets.
To use for high speed cutting and high precision milling.



ISO 12164

Form E

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

$G2.5$
 30.000
 min^{-1}

KPS

i

Ch. 11

5

Order no.	HSK	DCONWS Capacity	Typ	LPR	DLN	DRVS	THID
HSK-E40-03-10	HSK-E 40	1 – 10	490E KPS 10	75	27,5	26	M12 x 1,75
HSK-E40-03-16	HSK-E 40	4 – 16	496E KPS 16	75	40,0	38	M18 x 1,50
HSK-E63-03-10	HSK-E 63	1 – 10	490E KPS 10	105	27,5	26	M12 x 1,75
HSK-E63-03-16	HSK-E 63	4 – 16	496E KPS 16	120	40,0	38	M18 x 1,50

Delivery: With balanced clamping nut

9.03

10.05

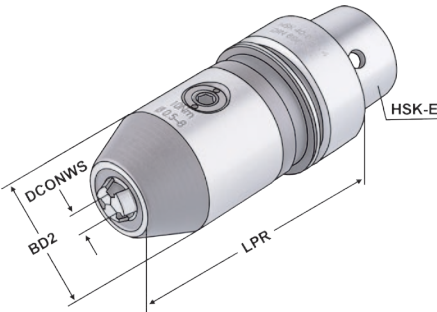
10.06

5.51

CNC-Drill chucks for clockwise and counter clockwise rotation



Application:
For mounting tools with straight shanks.



ISO
12164

Form
E

≤30µm

G6,3
15.000
min⁻¹

Ch. 11

Order no.	HSK	DCONWS Capacity	LPR	BD	DRVS
HSK-E40-15-08	HSK-E 40	0,5 – 8	85	36	4

Note: *High precision and accurate concentricity of ≤ 0.03 mm. No automatic slackening of the clamping force while machining with either clockwise or counter clockwise rotation or on spindle stop. Clamping and releasing effected by means of an Allen wrench.*

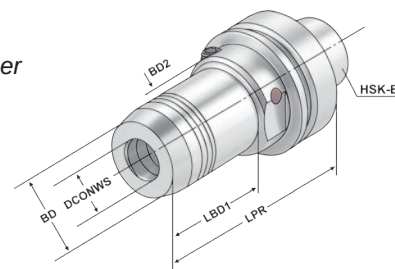
Delivery: Without wrench



Hydraulic expansion chucks



Application:
For mounting straight-shank tools acc. DIN 1835
form A+B+E and DIN 6535 form HA+HB+HE (larger
than dia. 20 mm only with reduction sleeve).



5

Order no.	HSK	DCONWS	LPR	BD	BD2	LSCX	ADJRGA	LB01	DRVS	THID
HSK-E40-H12	HSK-E 40	12	90	32	34	47	10	47	5	M8x1
HSK-E40-H20	HSK-E 40	20	100	42	50	52	10	—	5	M12x1
HSK-E63-H12	HSK-E 63	12	90	32	50	47	10	44,5	5	M10x1
HSK-E63-H20	HSK-E 63	20	100	42	50	52	10	58	5	M12x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

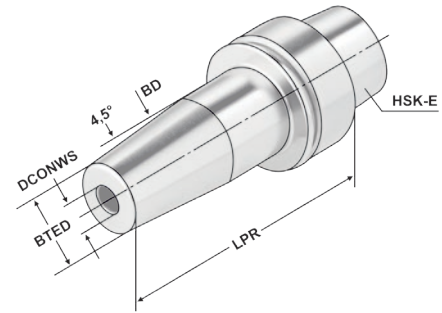
Delivery: Without wrench



Shrink chucks 4,5° for mounting of solid carbide and HSS-tool shanks



Application:
For mounting straight-shank tools.



Order no.	HSK	DCONWS	TDCON	LPR	BTED	BD	LSCN	LSCX	ADJRGA	THID
HSK-E40-70-03	HSK-E 40	3	h4	80	9	18	10	18	—	-
HSK-E40-70-04	HSK-E 40	4	h4	80	10	22	10	20	5	-
HSK-E40-70-05	HSK-E 40	5	h4	80	16	22	10	20	5	-
HSK-E40-70-06	HSK-E 40	6	h6	80	21	27	26	36	10	M5
HSK-E40-70-08	HSK-E 40	8	h6	80	21	27	26	36	10	M6
HSK-E40-70-10	HSK-E 40	10	h6	80	24	32	32	42	10	M8x1
HSK-E40-70-12	HSK-E 40	12	h6	90	24	32	37	47	10	M8x1
HSK-E40-70-14	HSK-E 40	14	h6	90	27	34	37	47	10	M10x1
HSK-E40-70-16	HSK-E 40	16	h6	90	27	34	40	50	10	M12x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 3, 4, 5 with h₄-tolerance and Ø 6–Ø 32 with h₆-tolerance



DIN 69893-6 HSK-F



Toolholders
DIN 69893-6 - HSK-F

Maintenance and repair of hydraulic chucks

Clamping of tools with hydraulic chucks is a widespread, well-established and reliable method.

It is a resistant, easy-to-operate and durable way of clamping due to its advantageous construction design.

Nevertheless in the course of time under the influence of thermal and mechanical outputs at factories loss of clamping force is observed.

As a result the life of the tool shortens and its quality during the working process reduces. Therefore it leads to a costly damage of the tool.

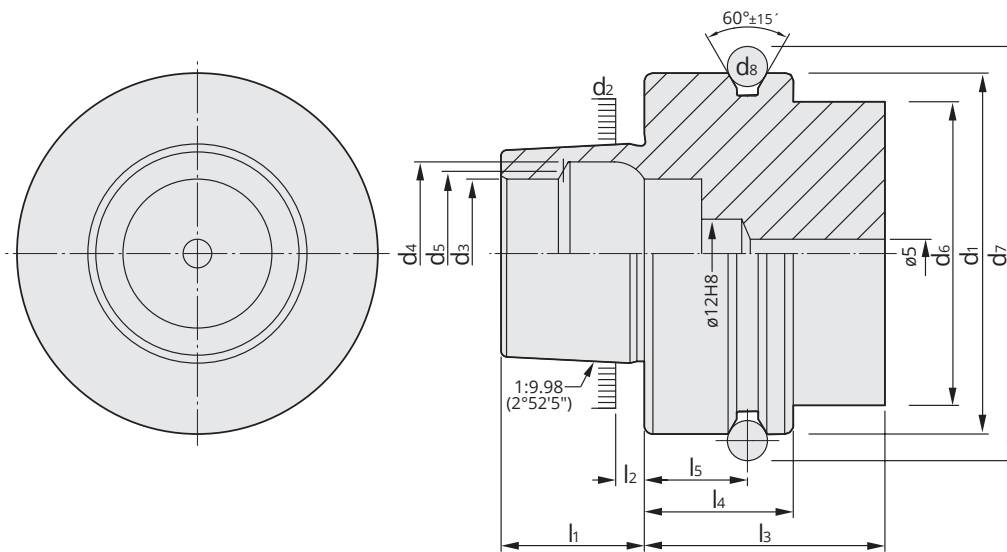
We maintain and repair your hydraulic chucks - both those manufactured at our place and those produced somewhere else - for a reasonable price here at our office in the south of Germany.

We check possible causes of the clamping force reduction and repair it within two weeks at a fixed low price. At the same time we renew all the fast wearing parts, fill the hydraulic system anew and adjust its clamping force. Afterwards the final inspection stage takes place.

You are welcome to contact our customer service for further information and prices.



Toolholders formerly DIN 69893-6 - HSK-F



5

HSK	d ₁	d ₂	d ₃	d ₄	d ₅	d ₆	d ₇	d ₈	l ₁	l ₂	l ₃	l ₄	l ₅
	h_{10}		H_{10}	H_{11}		max	$\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$		$\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$		min	$\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	± 0.1
50	50	30,007	21	25,5	23	42	59,3	7	20	4	42	26	18
63	63	38,009	26	32	29	53	72,3	7	25	5	42	26	18

 Pre-balanced **G 6,3 15.000 min⁻¹**

G 2.5 Fine balancing at extra charge

Material: Alloyed case-hardened steel, tensile core strength of min. 950 N/mm².
Case hardened HRC 60 ± 2 (HV 700 ± 50), hardening depth 0.8 mm ± 0.2 mm

Accuracy: Quality of taper < AT 3 according to DIN 7187.

Normative references:

DIN 69893-1:2011

Hollow taper shanks with flange contact surface:

- Part 1: Part 6: Hollow taper shank type F;

Dimensions and design

Index

5.65



5.66



5.67



5.68



5.69



5.70



5.71



5.72



5.73



5.74



5.75



5.76



5.77



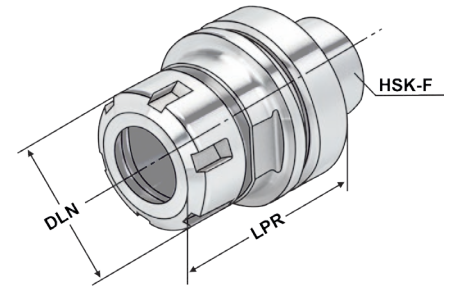
5.79



Collet chucks for collets ISO 15488 (DIN 6499) ER-system



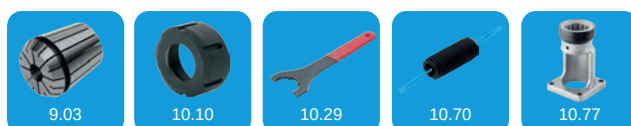
Application:
For mounting straight-shank tools in
collets.



5

Order no.	HSK	DCONWS Capacity	Typ	LPR	DLN	THID	DRVS
HSK-F63-02-10	HSK-F 63	1 – 10	426E ER 16	60	32	-	28
HSK-F63-02-16	HSK-F 63	2 – 16	430E ER 25	70	42	-	38
HSK-F63-02-20	HSK-F 63	2 – 20	470E ER 32	70	50	-	46
HSK-F63-02-26	HSK-F 63	3 – 26	472E ER 40	75	63	-	46
HSK-F63-02-10-1	HSK-F 63	1 – 10	426E ER 16	100	32	M10 x 1,5	28
HSK-F63-02-16-1	HSK-F 63	2 – 16	430E ER 25	100	42	M16 x 2,0	38
HSK-F63-02-20-1	HSK-F 63	2 – 20	470E ER 32	100	50	M16 x 2,0	46
HSK-F63-02-26-1	HSK-F 63	3 – 26	472E ER 40	100	63	M16 x 2,0	46
HSK-F63-02-10-2	HSK-F 63	1 – 10	426E ER 16	160	32	M10 x 1,5	28
HSK-F63-02-16-2	HSK-F 63	2 – 16	430E ER 25	160	42	M16 x 2,0	38
HSK-F63-02-20-2	HSK-F 63	2 – 20	470E ER 32	160	50	M16 x 2,0	46
HSK-F63-02-26-2	HSK-F 63	3 – 26	472E ER 40	160	63	M16 x 2,0	46

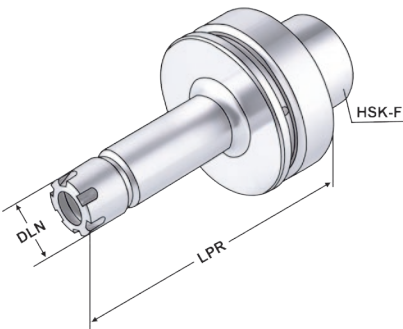
Delivery: With balanced clamping nut



Collet chucks for collets ISO 15488 (DIN 6499) ER-system
- Mini



Application:
For mounting straight-shank tools in
collets.



ISO
12164

Form
F

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

$G2.5$
 $25,000$
 min^{-1}

Order no.	HSK	DCONWS Capacity	Typ	LPR	DLN	THID	DRVS
HSK-F63-02-0710-1	HSK-F 63	1 – 10	426E ER 16	100	22	7/16" 20 UNF	18
HSK-F63-02-0710-130	HSK-F 63	1 – 10	426E ER 16	130	22	7/16" 20 UNF	18
HSK-F63-02-0710-2	HSK-F 63	1 – 10	426E ER 16	160	22	7/16" 20 UNF	18

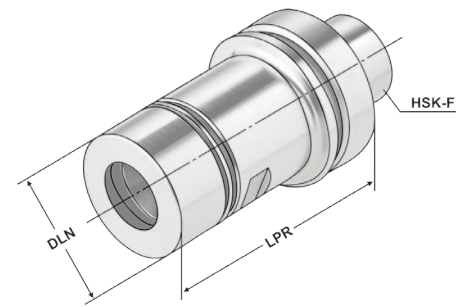


Precision collet chuck ER for collets

ISO 15488 (DIN 6499) ER-system



Application:
For mounting straight-shank tools in
3 µm-collets.



ISO 12164	Form F	$\leq 3\mu\text{m}$	$G2.5$ 25.000 min^{-1}	ISO 15488	Ch. 11
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Order no.	HSK	DCONWS Capacity	Typ	LPR	LB	DLN	DRVS	THID
HSK-F63-P2-20-100	HSK-F 63	2 – 20	470E ER 32	100	71	50	48	M16 x 2,0

5

Advantages:

- Excellent concentricity in the system (chuck + collet + clamping nut)
- Extremely strong holding force (increases the holding power by at least 60% compared to standard ER chuck)
- Plain clamping nut without grooves for high speed machining

Note: Only nominal size DCONWS can be clamped.

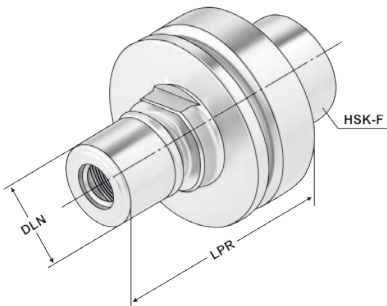
Delivery: With precision clamping nut



Collet chucks for collets | KPS-system



Application:
For mounting straight-shank tools in collets.
To use for high speed cutting and high precision milling.



ISO 12164

Form F

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

$G2.5$
 $30,000\text{ min}^{-1}$

KPS

Ch. 11

Order no.	HSK	DCONWS Capacity	Typ	LPR	DLN	DRVS	THID
HSK-F63-03-10	HSK-F 63	1 – 10	490EK KPS 10	90	27,5	26	M12 x 1,75
HSK-F63-03-16	HSK-F 63	4 – 16	496EK KPS 16	90	40,0	38	M12 x 1,75

Delivery: With balanced clamping nut

Balanced type



Order no.	Version
-----------	---------

Balancing at G 2.5 of pre-balanced Konrad tools

W25 Without balancing report

W25.2 With balancing report

Balancing of unbalanced tools

W25.1 Without balancing report

9.03

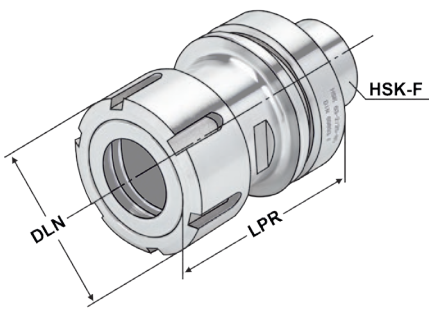
10.05

10.06

Collet chucks for collets ISO 10897 (DIN 6388) OZ-system



Application:
For mounting straight-shank tools in
collets.



ISO 12164

Form F

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

$G2.5$
 25.000
 min^{-1}

ISO 10897

Ch. 11

Order no.	HSK	DCONWS Capacity	Typ	LPR	DLN	DRVS
HSK-F63-01-25	HSK-F 63	2 – 25	462E OZ 25	85	60	44

Delivery: With balanced clamping nut

9.03

10.08

10.23

9.03

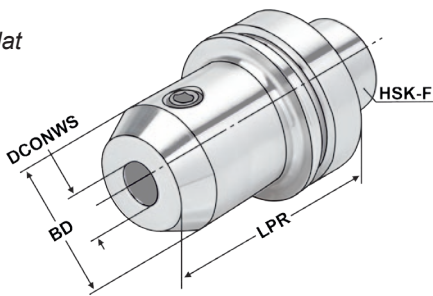
10.09

10.28

End mill holders DIN 6359 for end mills DIN 1835-B



Application:
For mounting straight-shank tools with lateral flat according to DIN 1835 form B (Weldon).



ISO 12164

Form F

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

$G2.5$

 25.000 min^{-1}

DIN 1835-B

H4

Ch. 11

Order no.	HSK	DCONWS	TDCON	LPR	BD
HSK-F63-04-06	HSK-F 63	6	H4	65	25
HSK-F63-04-08	HSK-F 63	8	H4	65	28
HSK-F63-04-10	HSK-F 63	10	H4	65	35
HSK-F63-04-12	HSK-F 63	12	H4	80	42
HSK-F63-04-14	HSK-F 63	14	H4	80	44
HSK-F63-04-16	HSK-F 63	16	H4	80	48
HSK-F63-04-18	HSK-F 63	18	H4	80	48
HSK-F63-04-20	HSK-F 63	20	H4	80	52
HSK-F63-04-25	HSK-F 63	25	H4	110	65
HSK-F63-04-32	HSK-F 63	32	H4	110	72

Note: From DCONWS = 25 on two clamping screws

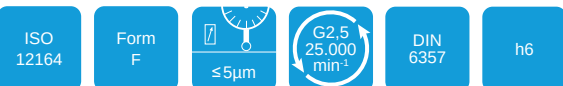
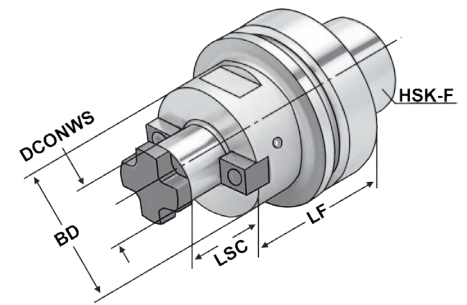
Delivery: With clamping screw



Shell mill holders DIN 6357 with enlarged contact face



Application:
For mounting milling cutters with
transversal groove.



5

Order no.	HSK	DCONWS	TCDCON	LF	LSC	BD	DRVS
HSK-F63-11-16	HSK-F 63	16	h6	50	17	40	34
HSK-F63-11-22	HSK-F 63	22	h6	50	19	48	44
HSK-F63-11-27	HSK-F 63	27	h6	60	21	60	54
HSK-F63-11-32	HSK-F 63	32	h6	60	24	78	74
HSK-F63-11-40	HSK-F 63	40	h6	100	27	89	84
HSK-F63-11-16-1	HSK-F 63	16	h6	100	17	40	34
HSK-F63-11-22-1	HSK-F 63	22	h6	100	19	48	44
HSK-F63-11-27-1	HSK-F 63	27	h6	100	21	60	54
HSK-F63-11-32-1	HSK-F 63	32	h6	100	24	78	74
HSK-F63-11-16-2	HSK-F 63	16	h6	160	17	40	34
HSK-F63-11-22-2	HSK-F 63	22	h6	160	19	48	44
HSK-F63-11-27-2	HSK-F 63	27	h6	160	21	60	54

DCONWS = 40

For large diameter face mill cutters with four additional threaded holes according to DIN 2079.

Delivery:

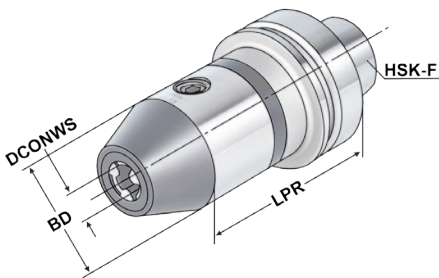
With drivers, cross head retaining screw and cylinder head retaining screw for cutters with central coolant.



CNC-Drill chucks for clockwise and counter clockwise rotation



Application:
For mounting tools with straight shanks.



ISO
12164

Form
F

≤30µm

G6.3
15.000
min⁻¹

Ch. 11

Order no.	HSK	DCONWS Capacity	LPR	BD	DRVS
HSK-F63-15-13	HSK-F 63	1,0 – 13	110	50	6
HSK-F63-15-16	HSK-F 63	2,5 – 16	115	50	6

Note: *High precision and accurate concentricity of ≤ 0.03 mm. No automatic slackening of the clamping force while machining with either clockwise or counter clockwise rotation or on spindle stop. Clamping and releasing effected by means of an Allen wrench.*

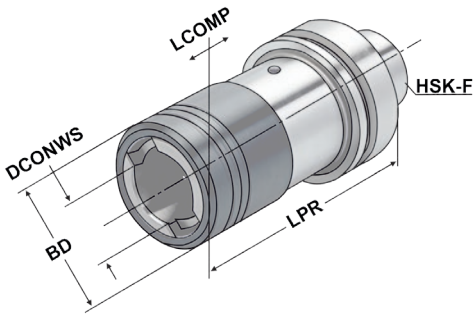
Delivery: Without wrench



Quick change tapping chucks with length compensation
on compression and expansion



Application:
For the chucking of quick change adaptors for
taps.



ISO 12164

Form F

Ch. 11

5

Order no.	HSK	Capacity	SZID	DCONWS	LPR	BD	LCOMP
HSK-F63-16-12	HSK-F 63	M3 – M14	1	19	102	36	7
HSK-F63-16-20	HSK-F 63	M5 – M22	2	31	140	53	12

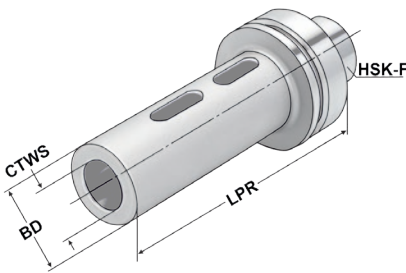
Note: For machining centres without synchronous spindle.



Adaptor sleeves for MT with tang DIN 6383



Application:
For mounting tools with Morse taper shank
and tang according to DIN 228-1 form B.



ISO
12164

Form
F

$\leq 5\mu\text{m}$

G6.3
15.000
min⁻¹

DIN
6383

AT5

Order no.	HSK	CTWS	TDCON	LPR	BD
HSK-F63-07-01	HSK-F 63	1	AT5	100	25
HSK-F63-07-02	HSK-F 63	2	AT5	120	32
HSK-F63-07-03	HSK-F 63	3	AT5	140	40
HSK-F63-07-04	HSK-F 63	4	AT5	160	48

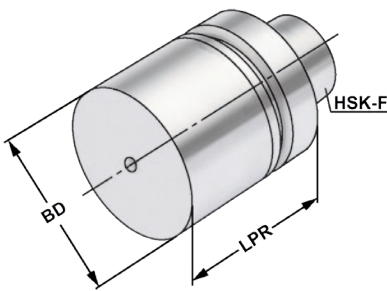
8.12

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Boring bar blanks



Application:
For the manufacturing of special tools.



ISO
12164

Form
F

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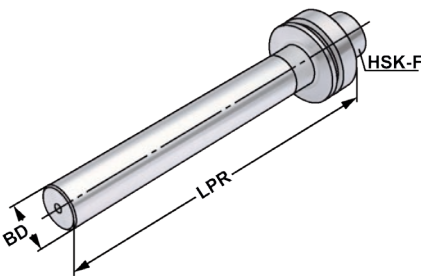
Order no.	HSK	LPR	BD
HSK-F63-17-63	HSK-F 63	125	63
HSK-F63-17-63-1	HSK-F 63	250	63

Version: Cone and flange hardened and adjusted. Soft body for later processing.

Test arbors



Application:
For the inspection of machine tools according to ISO recommendation R230 or for testing the tool spindle.



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12164

Form
F

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

Order no.	HSK	LPR	BD	Tolerance	max. concentricity deviation
HSK-F63-18-40	HSK-F 63	346	40	0,003	0,003

5

Delivery: *Delivery with test certificate*

Wooden box for test arbors



Application:
For the storage of test arbors.

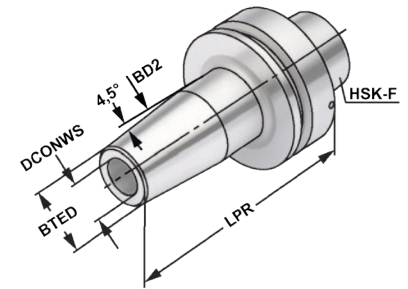


Order no.	Size	for cones
WB-18	460×130×115	SK 30 / 40 / 50

Shrink chucks 4,5° for mounting of solid carbide and HSS-tool shanks



Application:
For mounting straight-shank tools.



5

Order no.	HSK	DCONWS	TDCON	LPR	BTED	BD2	LSCN	LSCX	ADJRGA	THID
HSK-F63-70-03	HSK-F 63	3	h4	80	15	20	9	—	—	—
HSK-F63-70-04	HSK-F 63	4	h4	80	15	20	9	—	—	—
HSK-F63-70-05	HSK-F 63	5	h4	80	15	20	10	—	—	—
HSK-F63-70-06	HSK-F 63	6	h6	80	21	27	22	36	10	M5x0,8
HSK-F63-70-08	HSK-F 63	8	h6	80	21	27	26	36	10	M6x1
HSK-F63-70-10	HSK-F 63	10	h6	85	24	32	31	41	10	M8x1
HSK-F63-70-12	HSK-F 63	12	h6	90	24	32	36	46	10	M10x1
HSK-F63-70-14	HSK-F 63	14	h6	95	27	34	36	46	10	M10x1
HSK-F63-70-16	HSK-F 63	16	h6	95	27	34	39	49	10	M12x1
HSK-F63-70-18	HSK-F 63	18	h6	95	33	42	39	49	10	M12x1
HSK-F63-70-20	HSK-F 63	20	h6	100	33	42	41	51	10	M16x1
HSK-F63-70-25	HSK-F 63	25	h6	115	44	53	47	57	10	M16x1
HSK-F63-70-32	HSK-F 63	32	h6	125	44	53	51	61	10	M16x1
HSK-F63-70-03-1	HSK-F 63	3	h4	120	15	20	9	—	—	—
HSK-F63-70-04-1	HSK-F 63	4	h4	120	15	20	9	—	—	—
HSK-F63-70-05-1	HSK-F 63	5	h4	120	15	20	10	—	—	—
HSK-F63-70-06-1	HSK-F 63	6	h6	120	21	27	22	36	10	M5x0,8
HSK-F63-70-08-1	HSK-F 63	8	h6	120	21	27	26	36	10	M6x1
HSK-F63-70-10-1	HSK-F 63	10	h6	120	24	32	31	41	10	M8x1
HSK-F63-70-12-1	HSK-F 63	12	h6	120	24	32	36	46	10	M10x1
HSK-F63-70-14-1	HSK-F 63	14	h6	120	27	34	36	46	10	M10x1
HSK-F63-70-16-1	HSK-F 63	16	h6	120	27	34	39	49	10	M12x1
HSK-F63-70-18-1	HSK-F 63	18	h6	120	33	42	39	49	10	M12x1
HSK-F63-70-20-1	HSK-F 63	20	h6	120	33	42	41	51	10	M16x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

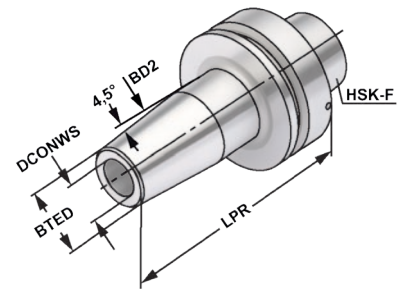
For Ø 3, 4 and 5 mm only solid carbide tool shanks must be used!

Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 3, 4, 5 with h₄-tolerance and Ø 6–Ø 32 with h₆-tolerance

Shrink chucks 4,5° for mounting of solid carbide and HSS-tool shanks



Application:
For mounting straight-shank tools.



Order no.	HSK	DCONWS	TDCON	LPR	BTED	BD2	LSCN	LSCX	ADJRGA	THID
HSK-F63-70-06-2	HSK-F 63	6	h6	160	21	27	22	36	10	M5x0,8
HSK-F63-70-08-2	HSK-F 63	8	h6	160	21	27	26	36	10	M6x1
HSK-F63-70-10-2	HSK-F 63	10	h6	160	24	32	31	41	10	M8x1
HSK-F63-70-12-2	HSK-F 63	12	h6	160	24	32	36	46	10	M10x1
HSK-F63-70-14-2	HSK-F 63	14	h6	160	27	34	36	46	10	M10x1
HSK-F63-70-16-2	HSK-F 63	16	h6	160	27	34	39	49	10	M12x1
HSK-F63-70-18-2	HSK-F 63	18	h6	160	33	42	39	49	10	M12x1
HSK-F63-70-20-2	HSK-F 63	20	h6	160	33	42	41	51	10	M16x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

For Ø 3, 4 and 5 mm only solid carbide tool shanks must be used!

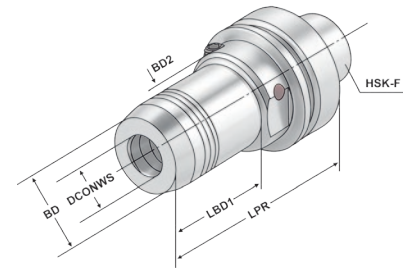
Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 3, 4, 5 with h_4 -tolerance and Ø 6–Ø 32 with h_6 -tolerance



Hydraulic expansion chucks



Application:
For mounting straight-shank tools acc. DIN 1835
form A+B+E and DIN 6535 form HA+HB+HE
(larger).



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Order no.	HSK	DCONWS	LPR	BD	BD2	LSCX	ADJRGA	LB01	DRVS	THID
HSK-F63-H06	HSK-F 63	6	100	26	50	37	10	45	5	M6x1
HSK-F63-H08	HSK-F 63	8	100	28	50	37	10	44	5	M6x1
HSK-F63-H10	HSK-F 63	10	100	30	50	42	10	46	5	M8x1
HSK-F63-H12	HSK-F 63	12	100	32	50	47	10	45,5	5	M8x1
HSK-F63-H14	HSK-F 63	14	100	34	50	47	10	44	5	M10x1
HSK-F63-H16	HSK-F 63	16	100	38	50	52	10	44	5	M12x1
HSK-F63-H18	HSK-F 63	18	100	40	50	52	10	42	5	M12x1
HSK-F63-H20	HSK-F 63	20	100	42	50	52	10	42	5	M12x1
HSK-F63-H25	HSK-F 63	25	120	50	50	58	10	26	6	M12x1
HSK-F63-H32	HSK-F 63	32	125	60	50	62	10	26	6	M12x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

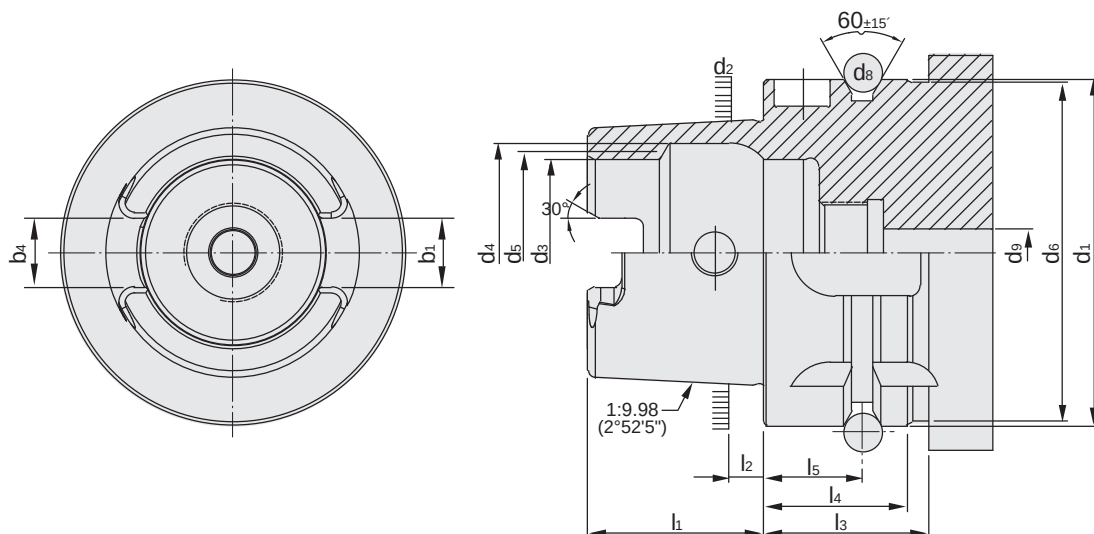
Delivery: Without wrench



DIN ISO 12164-3 HSK-T



**Toolholders
ISO-12164-3 (HSK-T)**


5

HSK	d_1 h10	d_2	d_3 H10	d_4 H11	d_5	d_6 max	d_8	d_9 max	l_1 0 -0,2	l_2	l_3 min	l_4 0 -0,1	l_5 $\pm 0,1$	b_1 $\pm 0,04$	b_2 H10	b_4 $+0,03$ 0
32	32	24,007	17	20,5	19	31	4	4,2	16	3,2	23	20	16	7,05	7	9
40	40	30,007	21	25,5	23	39	4	5	20	4	23	20	16	8,05	9	11
50	50	38,009	26	32	29	49	7	6,8	25	5	30	26	18	10,54	12	14
63	63	48,010	34	40	37	62	7	8,4	32	6,3	30	26	18	12,54	16	18
80	80	60,012	42	50	46	79	7	10,2	40	8	30	26	18	16,04	18	20
100	100	75,013	53	63	58	99	7	12	50	10	34	29	20	20,02	20	22

Material: Alloyed case-hardened steel, tensile core strength of min. 1000 N/mm².
Case hardened HRC 60 $\pm$ 2 (HV 700 $\pm$ 50), hardening depth 0.8 mm $\pm$ 0.2 mm,
black-finished and precisely grinded.

The HSK-T (T = Turning) standard was specially developed for the use of stationary tools on lathes. Compared to the other HSK variants, the driver play is restricted and the influence on the position of the cutting edge is minimised. In addition, it is possible to accommodate driven tools on the HSK-T space without having to make any modifications to the turret.

Normative references:

ISO 12164-3:2014-12 [CURRENT]

Hollow taper interface with face contact -

Part 3: Dimensions of shanks for stationary tools

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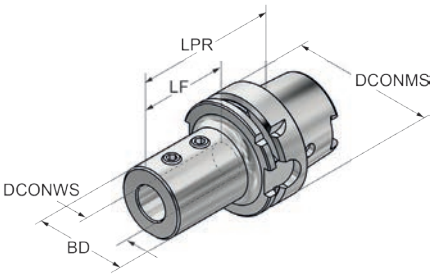


5.97





Application:
For mounting solid drills with cylindrical shank according to DIN 6595.



ISO 12164-3

Form T

RFID Chip

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Order no.	HSK	DCONMS	DCONWS	BD	LF	LPR	TD-CON
HSK-T63-51-16-80	HSK-T 63	63	16	34	54	80	H6
HSK-T63-51-20-80	HSK-T 63	63	20	40	54	80	H6
HSK-T63-51-25-85	HSK-T 63	63	25	45	59	85	H6
HSK-T63-51-32-90	HSK-T 63	63	32	52	63	90	H6
HSK-T63-51-40-100	HSK-T 63	63	40	60	73	100	H6

Note: Contact surface precision grinded

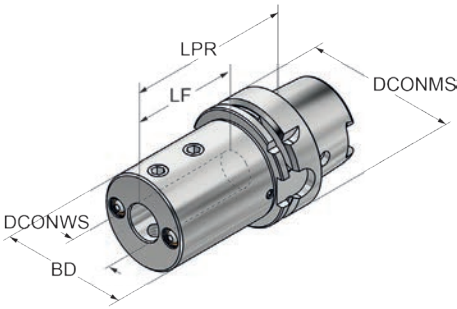
Delivery: With clamping screws, without the illustrated cutting tools



HSK-T holders for insert drills



Application:
For internal machining with boring bars.



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Chip

Order no.	HSK	DCONMS	DCONWS	BD	LF	LPR	TD- CON
HSK-T63-52-06-90	HSK-T 63	63	6	38	55	90	H6
HSK-T63-52-08-90	HSK-T 63	63	8	40	55	90	H6
HSK-T63-52-10-90	HSK-T 63	63	10	42	55	90	H6
HSK-T63-52-12-90	HSK-T 63	63	12	44	55	90	H6
HSK-T63-52-16-90	HSK-T 63	63	16	48	65	90	H6
HSK-T63-52-20-90	HSK-T 63	63	20	52	65	90	H6
HSK-T63-52-25-90	HSK-T 63	63	25	57	65	90	H6
HSK-T63-52-32-90	HSK-T 63	63	32	64	65	90	H6
HSK-T63-52-40-100	HSK-T 63	63	40	74	75	100	H6

Version: Clamping possible on both sides, *with adjustable ball spray nozzles, closable for tools with internal coolant supply*

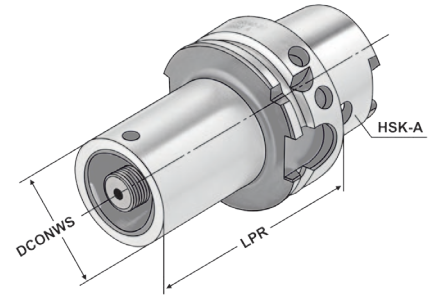
Delivery: *With clamping screws, without the illustrated cutting tools*



Reducing adapter for adaption from HSK-T to PSC (ISO 12164-3 to ISO 26623-1)



Application:
For adaption from HSK-T to PSC
(ISO 12164 to ISO 26623-1)



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26623

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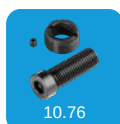
Order no.	HSK	Typ	DCONWS	LPR	TQX	THID
HSK-T63-09-C3-075	HSK-T 63	PSK C3	32	75	45	M12x1,5
HSK-T63-09-C4-080	HSK-T 63	PSK C4	40	80	55	M14x1,5
HSK-T63-09-C5-090	HSK-T 63	PSK C5	50	90	95	M16x1,5
HSK-T63-09-C6-110	HSK-T 63	PSK C6	63	110	170	M20x2,0

Version:

Adapters HSK / PSK with axial clamping. Ground internally and externally. The internal thread provided for the coolant tube in the PSC toolholder is plugged with the socket-head screw incorporated in the adapter. The clamping screw incorporates a through hole, so the system is suitable for through-coolant feed.

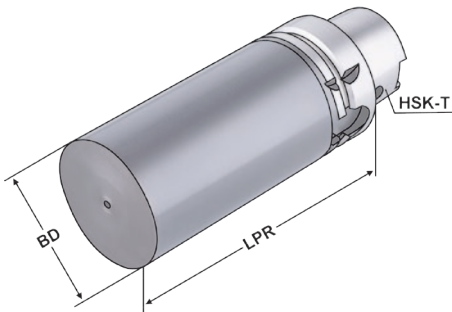
Suitable for tool arbor with polygonal shank (PSC) - ISO 26623-1.

Delivery: Clamping screw





Application:
For the manufacturing of special tools.



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Order no.	HSK	BD	LPR
HSK-T63-17-63-140	HSK-T 63	63	140
HSK-T63-17-80-200	HSK-T 63	80	200

Version: *Cone and flange hardened and grinded. Soft body for later processing.*

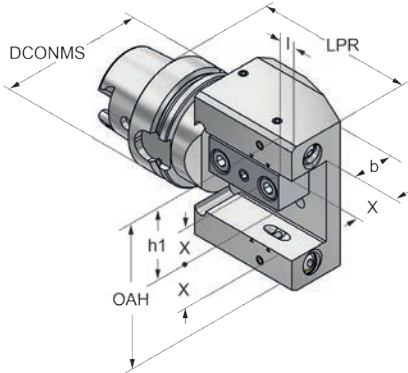
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HSK-T multi-turning-toolholders with internal coolant



Application:
Rotary holder for clamp holders with coolant supply directly to the cutting edge and for ISO clamp holders with claw clamping for optimum cooling of the cutting edge



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Order no.	HSK	DCONMS	LPR	X	OAH	h1	b	l
HSK-T63-81-20-112	HSK-T 63	63	112	20	80	40	31,5	10
HSK-T63-81-25-112	HSK-T 63	63	112	25	90	45	31,5	10

Note: Coolant pressure up to 100 bar

Version:
One turning toolholder - four possibilities:
Left - right - forehead - overhead.
Coolant nozzles lockable for tools with internal coolant.

Delivery: Without the illustrated cutting tools



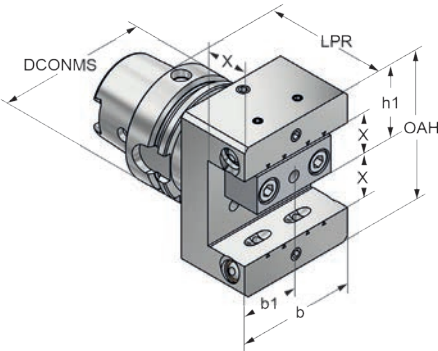

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HSK-T multi-turning-toolholders 90° with internal coolant



Application:
Rotary holder for clamp holders with coolant supply directly to the cutting edge and for ISO clamp holders with claw clamping for optimum cooling of the cutting edge



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Order no.	HSK	DCONMS	LPR	X	OAH	h1	b	b1
HSK-T63-82-20-85	HSK-T 63	63	85	20	80	40	35	70
HSK-T63-82-25-85	HSK-T 63	63	85	25	90	45	35	70

5

Note: Coolant pressure up to 100 bar

Version:
One turning toolholder - four possibilities:
Left - right - forehead - overhead.
Coolant nozzles lockable for tools with internal coolant.

Delivery: Without the illustrated cutting tools



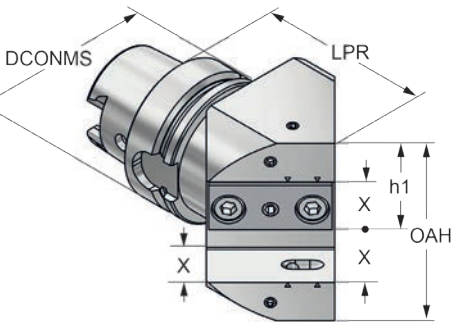
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HSK-T multi-turning-toolholders 45° with internal coolant



Application:
Rotary holder for clamp holders with coolant supply directly to the cutting edge and for ISO clamp holders with claw clamping for optimum cooling of the cutting edge



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RFID Chip

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Order no.	HSK	DCONMS	LPR	X	OAH	h1
HSK-T63-83-20-93	HSK-T 63	63	93	20	80	40
HSK-T63-83-25-97	HSK-T 63	63	97	25	90	45

Note: Coolant pressure up to 100 bar

Delivery: Without the illustrated cutting tools



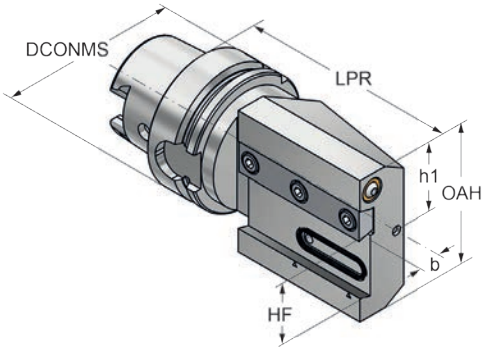
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HSK-T infeed-toolholders with internal coolant



Application:
For parting-off holders with coolant supply directly to the cutting edge. Spray nozzle can be closed.



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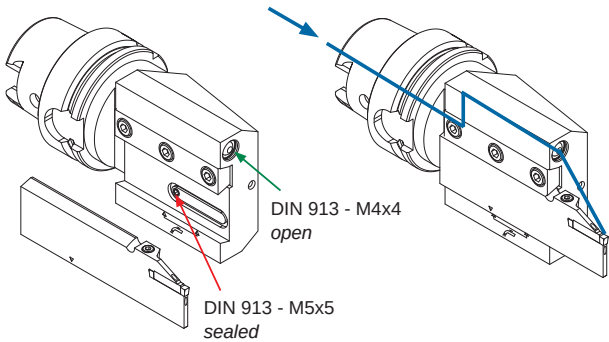
Order no.	HSK	DCONMS	LPR	HF	OAH	b	h1
HSK-T63-65-32-112	HSK-T 63	63	112	32	70	15	35

5

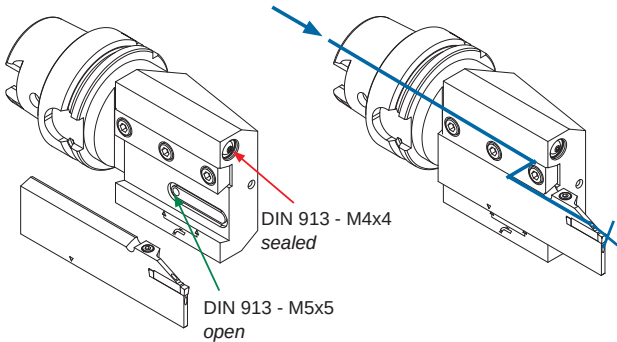
Note: Coolant pressure up to 100 bar

Delivery: Without the illustrated cutting tools

Version 1
Coolant supply by means of swivelling spray nozzle



Version 2
Coolant supply internally through the cut-off sword

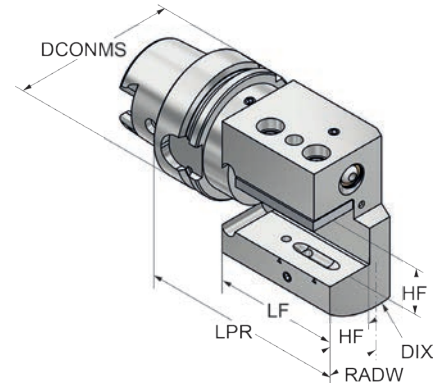


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Application:
for clamping holders with coolant channels
directly to the cutting edge, Coolant nozzles
lockable



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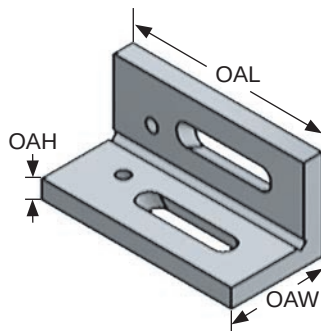
RFID
Chip

5

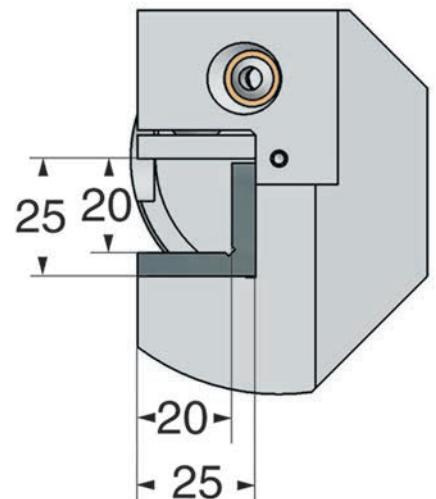
Order no.	HSK	DCONMS	LPR	X	DIX	LF	RADW	HF
HSK-T63-84-25-110	HSK-T 63	63	110	30	100	68	30	25

Note: Coolant pressure up to 100 bar

Delivery: Without the illustrated cutting tools, without reduction



Z-HSK-T63-R-001

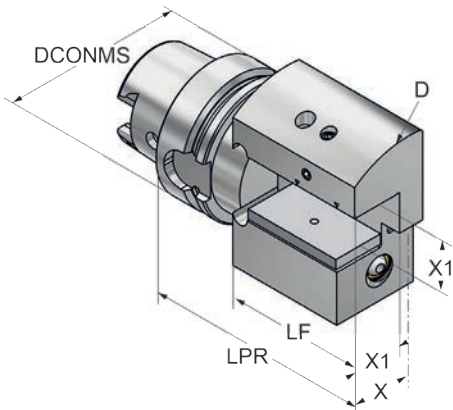


Order no.	OAH	OAL	OAW
Z-HSK-T63-R-001	5	60	24

HSK-T single turning toolholder with internal coolant



Application:
for clamping holders with coolant channels
directly to the cutting edge, Coolant nozzles
lockable



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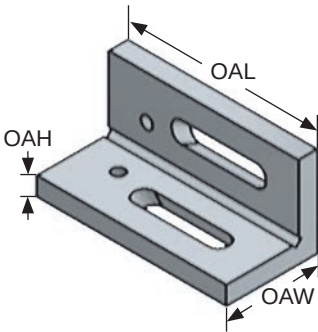
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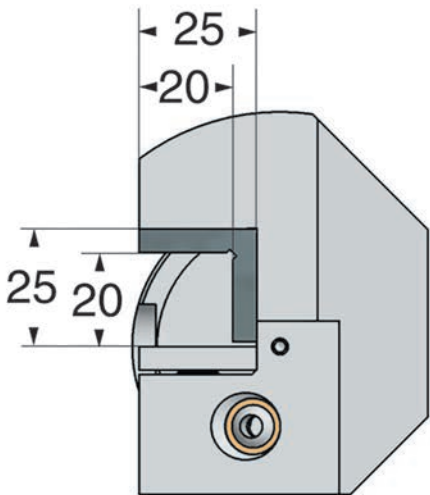
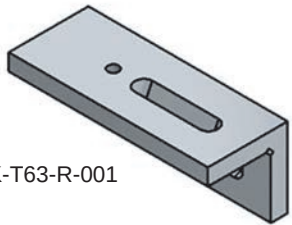
Order no.	HSK	DCONMS	LPR	X	X1	LF	D
HSK-T63-85-25-110	HSK-T 63	63	110	30	25	68	100

5

- Note: Coolant pressure up to 100 bar
- Delivery: Without the illustrated cutting tools, without reduction



Z-HSK-T63-R-001

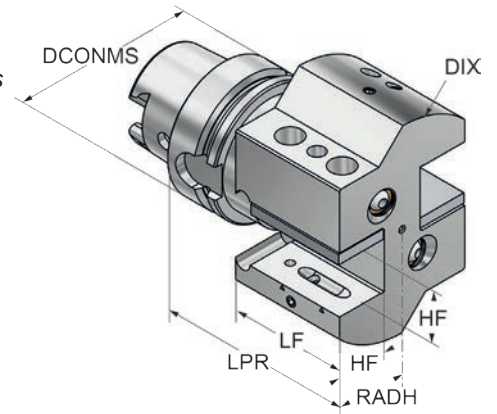


Order no.	OAH	OAL	OAW
Z-HSK-T63-R-001	5	60	24

HSK-T double turning toolholder with internal coolant



Application:
for clamping holders with coolant channels
directly to the cutting edge, Coolant nozzles
lockable



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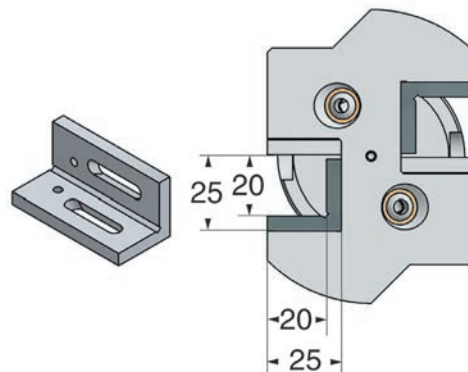
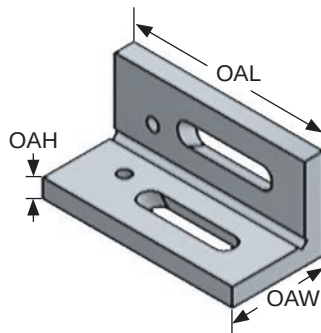
RFID
Chip

Order no.	HSK	DCONMS	DIX	LPR	LF	RADH	HF
HSK-T63-87-25-100	HSK-T 63	63	100	100	58	35	25

5

Note: Coolant pressure up to 100 bar

Delivery: Without the illustrated cutting tools, without reduction

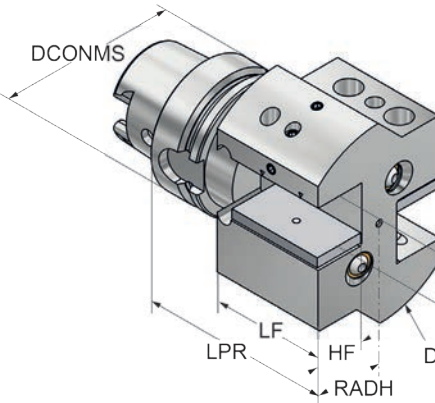


Order no.	OAH	OAL	OAW
Z-HSK-T63-R-001	5	50	24

HSK-T double turning toolholder with internal coolant



Application:
for clamping holders with coolant channels
directly to the cutting edge, Coolant nozzles
lockable



ISO
12164-3

Form
T

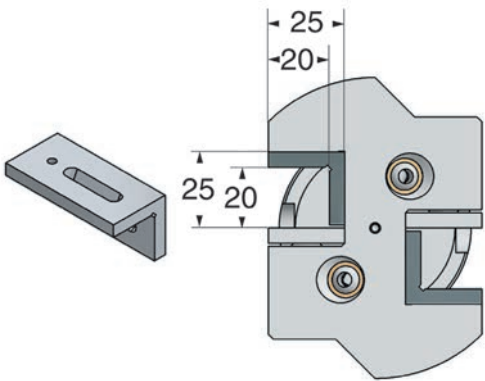
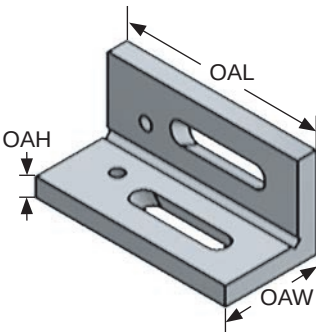
RFID
Chip

Order no.	HSK	DCONMS	DIX	LPR	LF	RADH	HF
HSK-T63-88-25-100	HSK-T 63	63	100	100	58	35	25

5

Note: Coolant pressure up to 100 bar

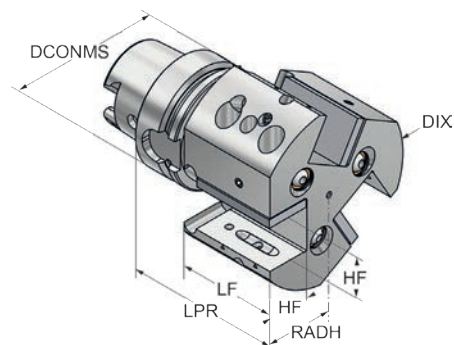
Delivery: Without the illustrated cutting tools, without reduction



Order no.	OAH	OAL	OAW
Z-HSK-T63-R-002	5	50	24



Application:
for clamping holders with coolant channels
directly to the cutting edge, Coolant nozzles
lockable



ISO
12164-3

Form
T

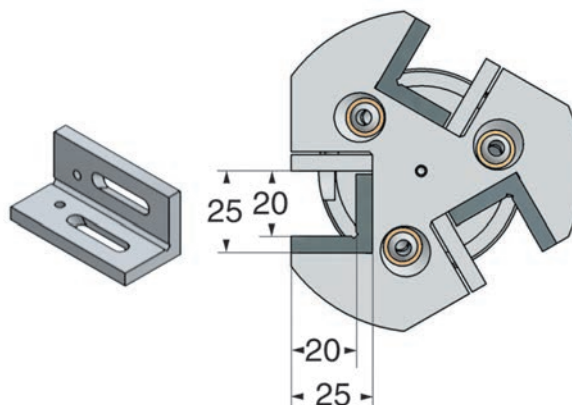
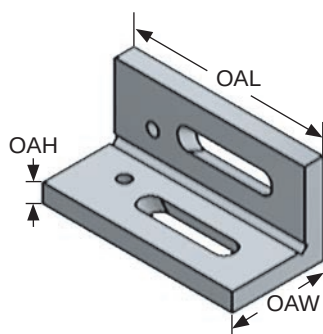
RFID
Chip

5

Order no.	HSK	DCONMS	DIX	LPR	LF	RADH	HF
HSK-T63-75-25-100	HSK-T 63	63	100	100	58	40	25

Note: Coolant pressure up to 100 bar

Delivery: Without the illustrated cutting tools, without reduction

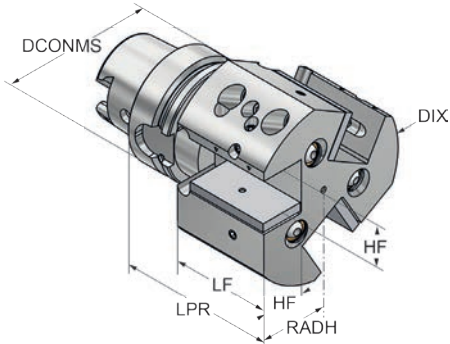


Order no.	OAH	OAL	OAW
Z-HSK-T63-R-002	5	50	24

HSK-T triple turning toolholder with internal coolant



Application:
for clamping holders with coolant channels
directly to the cutting edge, Coolant nozzles
lockable



ISO
12164-3

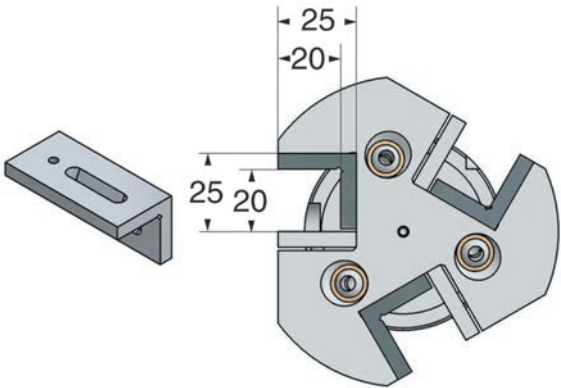
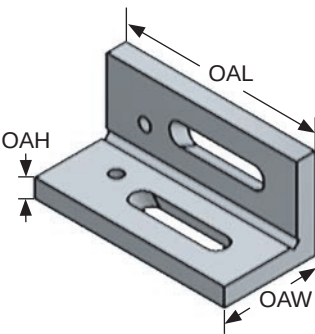
Form
T

RFID
Chip

Order no.	HSK	DCONMS	DIX	LPR	LF	RADH	HF
HSK-T63-76-25-100	HSK-T 63	63	100	100	58	40	25

5

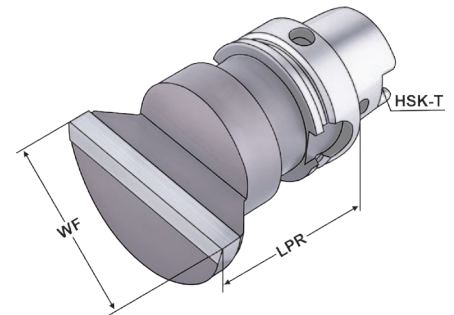
- Note: Coolant pressure up to 100 bar
- Delivery: Without the illustrated cutting tools, without reduction



Order no.	OAH	OAL	OAW
Z-HSK-T63-R-002	5	50	24



Application:
Calibration of the angular position of
spindles of milling-turning centres



ISO
12164-3

Form
T

RFID
Chip

5

Order no.

HSK

LPR

WF

HSK-T63-18-90-090

HSK-T 63

90

90

Application:

- Checking and setting the rotation angle position of machine spindles (M19 function - spindle stop in defined end position).
- Determining the reference points (calibration) of optical presetting devices
- Calibration of the angular position of spindles of milling-turning centres
- Calibrating the accuracy of the turret recordings of CNC lathes
- Setting the rotary table zero point of 5-axis machining centres

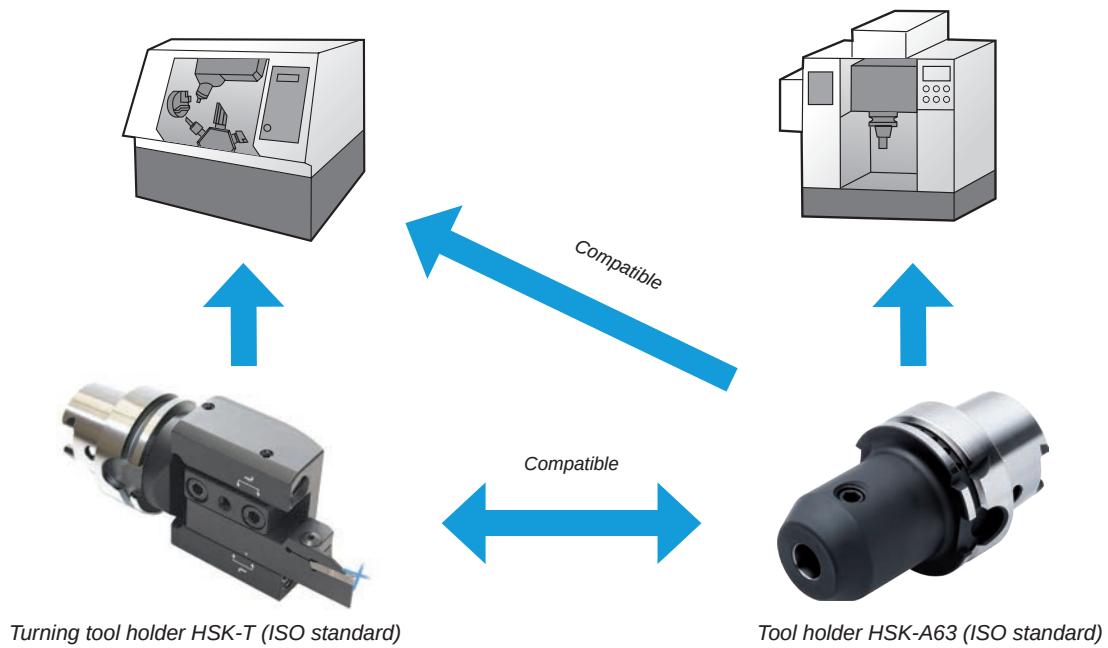
Accuracy:

- Alignment surface $\pm 0.01\text{mm}$ to the centre axis
- Parallelism to driver grooves $< 0.01\text{ mm}$

Delivery: Delivery with test certificate

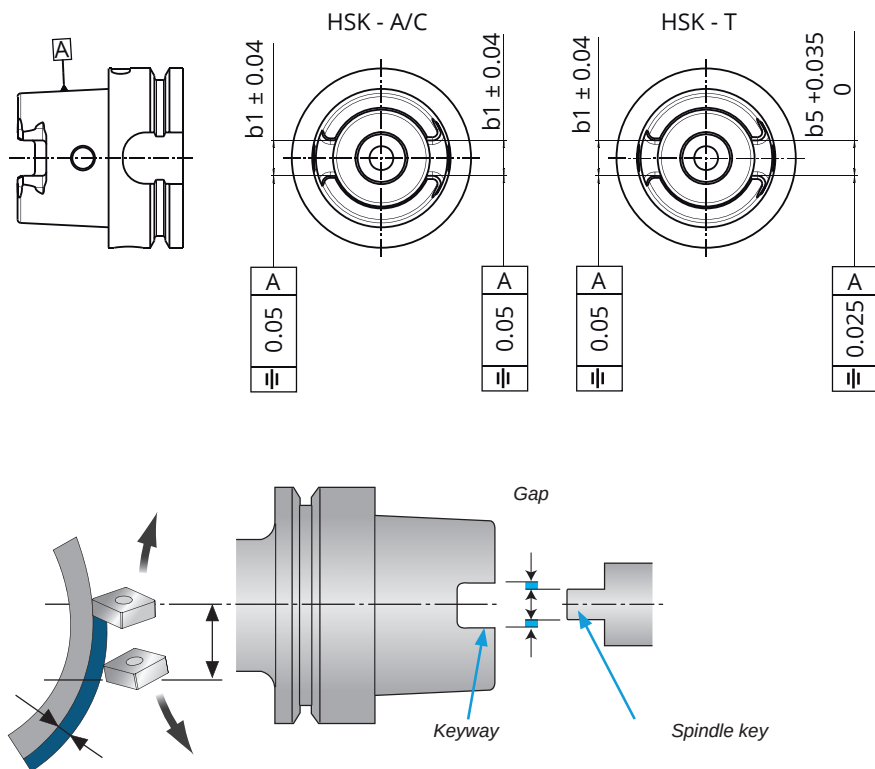
Multi-task machines with HSK-T spindle

Machining centre with HSK-A spindle



5

Improved keyway tolerance according to ICTM standard



The gap causes variant cutting diameters. Example at $\varnothing 50$.
 HSK63T=3 μ m - HSK63A=14 μ m

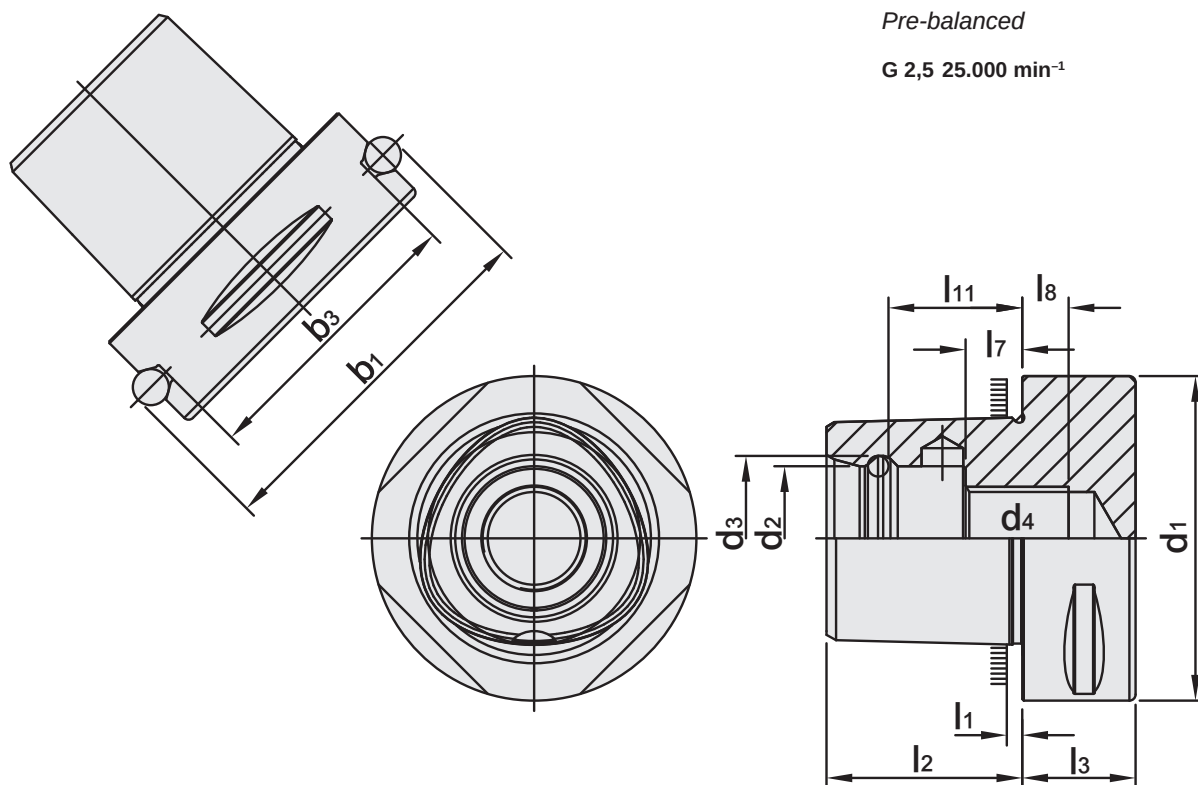


Toolholders with polygonal shank ISO 26623-1



Toolholders with polygonal shank ISO 26623-1

Pre-balanced

 G 2,5 25.000 min⁻¹


6

PSK	b ₁ ±0,1	b ₃ ±0,1	d ₁ ±0,1	d ₂ +0,1 -0,05	d ₃ ±0,05	d ₄	l ₁	l ₂ ±0,1	l ₃ min	l ₇ ±0,15	l ₈ min	l ₁₁ ±0,1
32	39,0	27,9	32	15	16,5	M12 x 1,5P	2,5	19	15	6	6	13,5
40	46,0	34,9	40	18	20,0	M14 x 1,5P	2,5	24	20	9	6	17,5
50	59,3	44,0	50	21	24,0	M16 x 1,5P	3	30	20	10	7	22,0
63	70,7	55,4	63	28	32,0	M20 x 2,0P	3	38	22	11	9	26,0
80	86,0	70,7	80	32	38,0	M20 x 2,0P	3	48	30	20	10	34,0
100	110,0	88,3	100	43	50,5	M24 x 2,0P	3	60	32	20	10	42,5

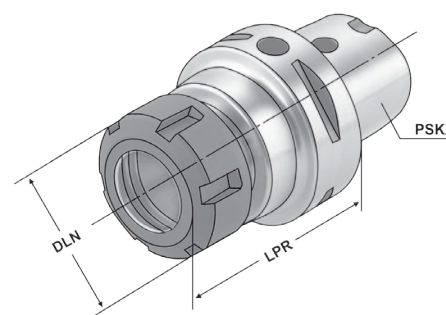
Material: Alloyed case-hardened steel, tensile core strength of min. 950 N/mm².
Case hardened HRC 60 ± 2 (HV 700 ± 50), hardening depth 0.8 mm ± 0.2 mm,
black-finished and precisely grinded.

Index

6.05	6.06	6.07	6.08
			
6.09	6.10	6.11	6.12
			
6.13	6.14	6.15	6.16
			
6.17	6.18	6.19	6.20
			
6.21	6.22	6.23	6.24
			
6.25	6.26	6.27	6.28
			
6.29	6.30	6.31	6.32
			
6.33	6.36	6.36	6.36
			

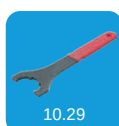
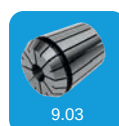
Collet chucks for collets ISO 15488 (DIN 6499) ER-system


Application:
For mounting straight-shank tools in
collets.


6

Order no.	PSK	DCONWS Capacity	Typ	LPR	DLN	THID
C3-02-10	C3	1 – 10	426E ER 16	45	32	-
C3-02-13	C3	2 – 13	428E ER 20	45	34	-
C4-02-10	C4	1 – 10	426E ER 16	70	32	-
C4-02-13	C4	2 – 13	428E ER 20	52	34	-
C4-02-16	C4	2 – 16	430E ER 25	52	42	-
C4-02-20	C4	2 – 20	470E ER 32	54	50	-
C5-02-10-1	C5	1 – 10	426E ER 16	100	32	M10x1
C5-02-13	C5	2 – 13	428E ER 20	55	34	-
C5-02-13-1	C5	2 – 13	428E ER 20	100	34	M10x1
C5-02-16	C5	2 – 16	430E ER 25	55	42	-
C5-02-20	C5	2 – 20	470E ER 32	57	50	-
C5-02-20-1	C5	2 – 20	470E ER 32	100	50	M10x1
C6-02-10	C6	1 – 10	426E ER 16	60	32	-
C6-02-16	C6	2 – 16	430E ER 25	60	42	-
C6-02-20	C6	2 – 20	470E ER 32	70	50	-
C6-02-26	C6	3 – 26	472E ER 40	65	63	-
C6-02-10-1	C6	1 – 10	426E ER 16	100	32	M10x1
C6-02-16-1	C6	2 – 16	430E ER 25	100	42	M10x1
C6-02-20-1	C6	2 – 20	470E ER 32	100	50	M10x1
C6-02-26-1	C6	3 – 26	472E ER 40	100	63	M10x1
C6-02-10-130	C6	1 – 10	426E ER 16	130	32	M10x1
C6-02-16-130	C6	2 – 16	430E ER 25	130	42	M10x1
C6-02-20-130	C6	2 – 20	470E ER 32	130	50	M10x1
C6-02-26-130	C6	3 – 26	472E ER 40	130	63	M10x1
C6-02-10-160	C6	1 – 10	426E ER 16	160	32	M10x1
C6-02-16-160	C6	2 – 16	430E ER 25	160	42	M10x1

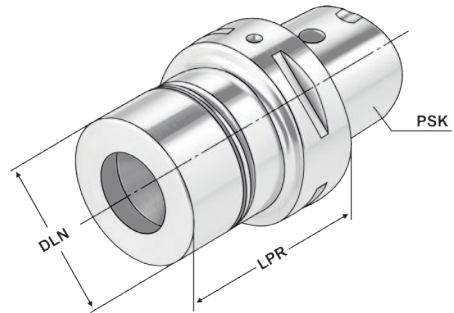
Delivery: With balanced clamping nut



Precision collet chuck ER for collets ISO 15488 (DIN 6499) ER-system



Application:
For mounting straight-shank tools in
3 µm-collets.



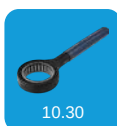
Order no.	PSK	DCONWS Capacity	Typ	LPR	LB	DLN	THID
C4-P2-20-070	C4	2 – 20	470E ER 32	70	39,5	50	M16 x 2,0
C5-P2-20-070	C5	2 – 20	470E ER 32	70	46	50	M16 x 2,0
C6-P2-20-070	C6	2 – 20	470E ER 32	70	45	50	M16 x 2,0

Advantages:

- Excellent concentricity in the system (chuck + collet + clamping nut)
- Extremely strong holding force (increases the holding power by at least 60% compared to standard ER chuck)
- Plain clamping nut without grooves for high speed machining

Note: Only nominal size DCONWS can be clamped.

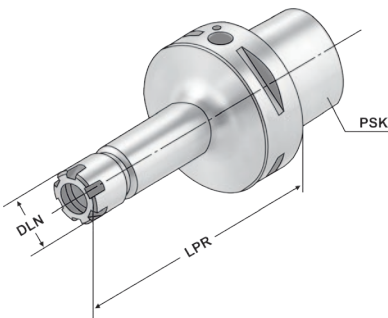
Delivery: With precision clamping nut



Collet chucks for collets ISO 15488 (DIN 6499) ER-system - Mini



Application:
For mounting straight-shank tools in
collets.



ISO 26623

≤3µm

G2.5
25.000
min⁻¹

ISO 15488

Ch. 11

Order no.	PSK	DCONWS Capacity	Typ	LPR	DLN	THID
C6-02-07-10-100	C6	1 – 10	426E ER 16	100	22	M10x1
C6-02-07-10-130	C6	1 – 10	426E ER 16	130	22	M10x1
C6-02-07-10-160	C6	1 – 10	426E ER 16	160	22	M10x1

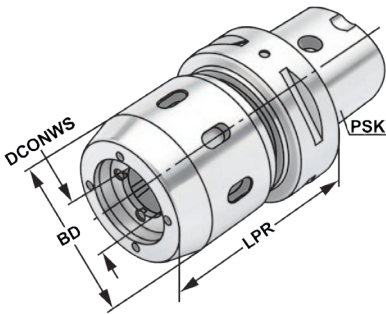
Delivery: With balanced clamping nut



High Performance Milling Chuck | HKS-system



Application:
For mounting straight-shank tools acc. DIN
1835 form A+B+E and DIN 6535 form HB+HE



ISO
26623

≤3µm

G6.3
15.000
min⁻¹

ISO
15488

HKS

Ch. 11

Order no.	PSK	DCONWS Capacity	Typ	DCONWS	LPR	BD
C5-64-20	C5	3 – 20	HKS 20	20	75	56
C5-64-32	C5	3 – 32	HKS 32	32	90	71
C6-64-20	C6	3 – 20	HKS 20	20	75	56
C6-64-32	C6	3 – 32	HKS 32	32	85	71

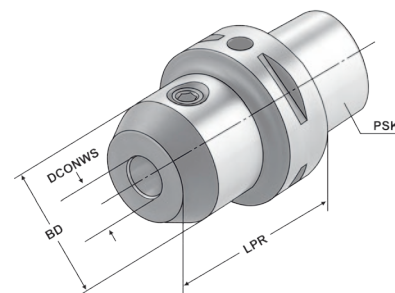
Size	20mm	25mm	32mm
Clamping torque	50-70 Nm	80-100 Nm	80-100 Nm
Clamping force	780 Nm	2000 Nm	2000 Nm



End mill holders DIN 6359 for end mills DIN 1835-B



Application:
For mounting straight-shank tools with lateral flat according to DIN 1835 form B (Weldon).



6

Order no.	PSK	DCONWS	TDCON	LPR	BD
C3-04-06	C3	6	H4	45	25
C3-04-08	C3	8	H4	45	28
C3-04-10	C3	10	H4	50	35
C3-04-12	C3	12	H4	55	42
C4-04-06	C4	6	H4	50	25
C4-04-08	C4	8	H4	50	28
C4-04-10	C4	10	H4	50	35
C4-04-12	C4	12	H4	55	42
C4-04-14	C4	14	H4	55	44
C4-04-16	C4	16	H4	55	48
C5-04-06	C5	6	H4	50	25
C5-04-08	C5	8	H4	50	28
C5-04-10	C5	10	H4	55	35
C5-04-12	C5	12	H4	60	42
C5-04-14	C5	14	H4	60	44
C5-04-16	C5	16	H4	60	48
C5-04-18	C5	18	H4	60	50
C5-04-20	C5	20	H4	60	52
C5-04-25	C5	25	H4	80	65

Delivery: With clamping screw

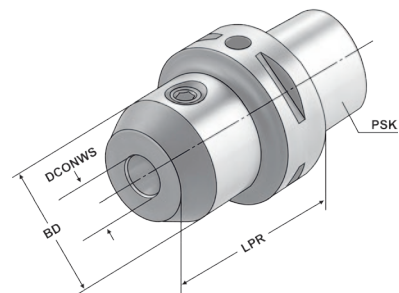
Note: From d = 25 on two clamping screws



End mill holders DIN 6359 for end mills DIN 1835-B



Application:
For mounting straight-shank tools with lateral flat according to DIN 1835 form B (Weldon).



Order no.	PSK	DCONWS	TDCON	LPR	BD
C6-04-06	C6	6	H4	55	25
C6-04-08	C6	8	H4	55	28
C6-04-10	C6	10	H4	60	35
C6-04-12	C6	12	H4	60	42
C6-04-14	C6	14	H4	60	44
C6-04-16	C6	16	H4	65	48
C6-04-18	C6	18	H4	65	50
C6-04-20	C6	20	H4	65	52
C6-04-25	C6	25	H4	80	65
C6-04-32	C6	32	H4	90	72
C6-04-40	C6	40	H4	100	80
C6-04-06-1	C6	6	H4	100	25
C6-04-08-1	C6	8	H4	100	28
C6-04-10-1	C6	10	H4	100	35
C6-04-12-1	C6	12	H4	100	42
C6-04-14-1	C6	14	H4	100	44
C6-04-16-1	C6	16	H4	100	48
C6-04-18-1	C6	18	H4	100	50
C6-04-20-1	C6	20	H4	100	52

6

Delivery: With clamping screw

Note: From d = 25 on two clamping screws

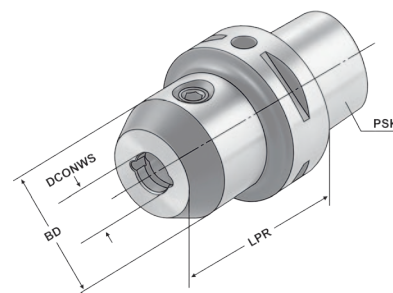


End mill holders DIN 6359 with coolant channels

for end mills DIN 1835-B



Application:
For mounting straight-shank tools with lateral flat according to DIN 1835 form B (Weldon). With coolant channels for optimal coolant at the cutting edge.



6

Order no.	PSK	DCONWS	TDCON	LPR	BD
C6-04-06-CC	C6	6	H4	55	25
C6-04-08-CC	C6	8	H4	55	28
C6-04-10-CC	C6	10	H4	60	35
C6-04-12-CC	C6	12	H4	60	42
C6-04-14-CC	C6	14	H4	60	44
C6-04-16-CC	C6	16	H4	65	48
C6-04-18-CC	C6	18	H4	65	50
C6-04-20-CC	C6	20	H4	65	52
C6-04-25-CC	C6	25	H4	80	65
C6-04-32-CC	C6	32	H4	90	72
C6-04-40-CC	C6	40	H4	100	80
C6-04-06-1-CC	C6	6	H4	100	25
C6-04-08-1-CC	C6	8	H4	100	28
C6-04-10-1-CC	C6	10	H4	100	35
C6-04-12-1-CC	C6	12	H4	100	42
C6-04-14-1-CC	C6	14	H4	100	44
C6-04-16-1-CC	C6	16	H4	100	48
C6-04-20-1-CC	C6	20	H4	100	52
C6-04-06-2-CC	C6	6	H4	160	25
C6-04-08-2-CC	C6	8	H4	160	28
C6-04-10-2-CC	C6	10	H4	160	35
C6-04-12-2-CC	C6	12	H4	160	42
C6-04-16-2-CC	C6	16	H4	160	48

Note:
From d = 25 on two clamping screws
d = 6 to 18 with two coolant channels
d = 20 to 40 with four coolant channels
For tools with through coolant an O-ring must be used.

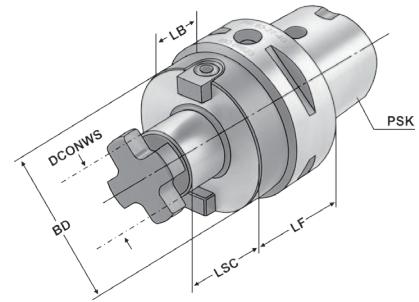
Delivery: With clamping screw



Shell mill holders DIN 6357 with enlarged contact face and coolant exit bores on the end face



Application:
For mounting milling cutters with
transversal groove.



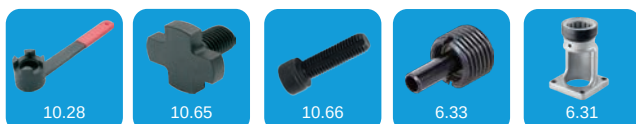
Order no.	PSK	DCONWS	TDCON	LF	LSC	LB	BD
C3-11-16	C3	16	h6	30	17	15	38
C4-11-16	C4	16	h6	35	17	15	38
C4-11-22	C4	22	h6	40	19	20	48
C5-11-16	C5	16	h6	35	17	15	38
C5-11-22	C5	22	h6	40	19	20	48
C5-11-27	C5	27	h6	40	21	20	58
C5-11-32	C5	32	h6	40	24	20	78
C6-11-16	C6	16	h6	35	17	13	38
C6-11-22	C6	22	h6	40	19	18	48
C6-11-27	C6	27	h6	40	21	18	58
C6-11-32	C6	32	h6	40	24	18	78
C6-11-40	C6	40	h6	45	27	23	88
C6-11-16-1	C6	16	h6	100	17	78	38
C6-11-22-1	C6	22	h6	100	19	78	48
C6-11-27-1	C6	27	h6	100	21	78	58

DCONWS=40

For large diameter face mill cutters with four additional threaded holes according to DIN 2079.

Delivery:

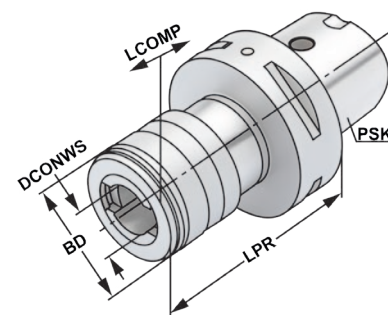
With drivers, cross head retaining screw and cylinder head retaining screw for cutters with central coolant.



Quick change tapping chucks with length compensation on compression and expansion



Application:
For the chucking of quick change adaptors for taps.



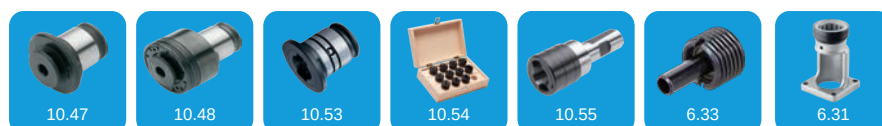
ISO
26623



i
Ch. 11

Order no.	PSK	Capacity	SZID	DCONWS	LPR	BD	LCOMP
C4-16-12	C4	M3 – M14	1	19	80	36	7,5
C4-16-20	C4	M5 – M22	2	31	110	53	12,5
C5-16-12	C5	M3 – M14	1	19	80	36	7,5
C5-16-20	C5	M5 – M22	2	31	115	53	12,5
C6-16-12	C6	M3 – M14	1	19	90	36	7,5
C6-16-20	C6	M5 – M22	2	31	120	53	12,5
C6-16-36	C6	M14 – M36	3	48	170	78	20

Note: For machining centres without synchronous spindle.



10.47

10.48

10.53

10.54

10.55

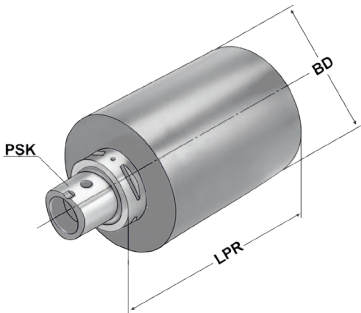
6.33

6.31

Boring bar blanks



Application:
For the manufacturing of special tools.



ISO
26623

Order no.	PSK	BD	LPR
C3-17-32	C3	32	90
C3-17-60	C3	60	90
C4-17-40	C4	40	120
C4-17-80	C4	80	120
C5-17-50	C5	50	150
C5-17-95	C5	99	150
C6-17-63	C6	63	180
C6-17-120	C6	120	180

Version: Cone and flange hardened and grinded. Soft body for later processing.

6



6.33

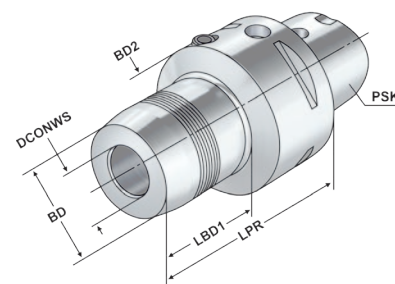


6.31

Hydraulic expansion chucks



Application:
For mounting straight-shank tools acc. DIN 1835 form A+B+E and DIN 6535 form HB+HE (larger than Ø 20 mm only with reduction sleeve).

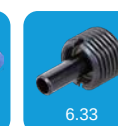
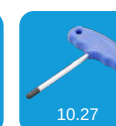
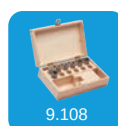


Order no.	PSK	DCONWS	LPR	BD	BD2	LSCX	ADJRGA	LBD1	DRVS	THID
C4-H12	C4	12	70	29	50	47	10	27,5	5	M8x1
C4-H20	C4	20	90	38	50	52	10	50	5	M10x1
C5-H12	C5	12	75	29	50	47	10	43	5	M8x1
C5-H20	C5	20	85	38	50	52	10	55	5	M10x1
C6-H12	C6	12	80	29	63	47	10	37	5	M8x1
C6-H20	C6	20	85	38	63	52	10	45	6	M10x1
C6-H32	C6	32	100	56	63	62	10	61	6	M12x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

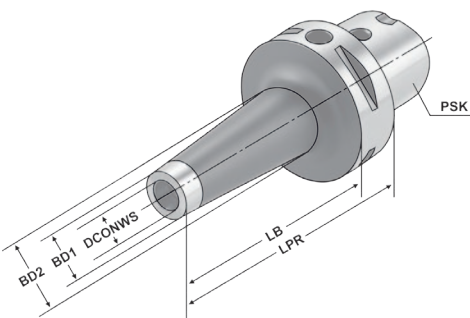
Delivery: Without wrench



Milling arbors for screw-in cutters



Application:
For mounting screw-in cutters with thread.



ISO 26623

≤3µm

G2.5
25.000
min⁻¹

H7

Order no.	PSK	THSZWS	DCONWS	BD1	BD2	LPR	LB
C6-06-08	C6	M8	8,5	13	23	105	75
C6-06-10	C6	M10	10,5	18	25	105	75
C6-06-12	C6	M12	12,5	21	31	105	75
C6-06-16	C6	M16	17	29	34	105	75

Recommended tightening torques

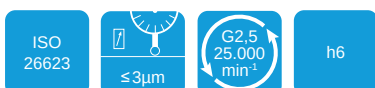
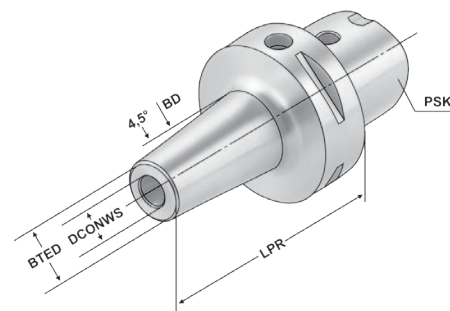
M6	10 Nm
M8	25 Nm
M10	40 Nm
M12	60 Nm
M16	50 Nm



Shrink chucks 4,5°



Application:
For mounting straight-shank tools.



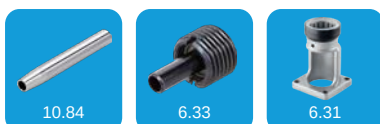
Order no.	PSK	DCONMS	LPR	BTED	BD	LSCX	ADJRGA	THID
C3-70-06	C3	6	60	12	18	36	10	M8x1
C3-70-08	C3	8	107	20	26	36	10	M8x1
C3-70-10	C3	10	95	24	32	41	10	M10x1
C3-70-12	C3	12	84	24	32	47	10	M10x1
C4-70-06	C4	6	75	21	27	36	10	M8x1
C4-70-08	C4	8	75	21	27	36	10	M8x1
C4-70-10	C4	10	75	24	32	41	10	M10x1
C4-70-12	C4	12	75	24	32	47	10	M10x1
C4-70-14	C4	14	80	27	34	47	10	M10x1
C4-70-16	C4	16	80	27	34	50	10	M10x1
C4-70-18	C4	18	80	33	42	50	10	M10x1
C4-70-20	C4	20	85	33	42	52	10	M10x1
C5-70-06	C5	6	75	21	27	36	10	M8x1
C5-70-08	C5	8	75	21	27	36	10	M8x1
C5-70-10	C5	10	75	24	32	41	10	M10x1
C5-70-12	C5	12	75	24	32	47	10	M10x1
C5-70-14	C5	14	80	27	34	47	10	M10x1
C5-70-16	C5	16	80	27	34	50	10	M10x1
C5-70-18	C5	18	80	33	42	50	10	M10x1
C5-70-20	C5	20	85	33	42	52	10	M10x1
C5-70-25	C5	25	90	44	53	58	10	M10x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

For $\varnothing 3, 4$ and 5 mm only solid carbide tool shanks must be used

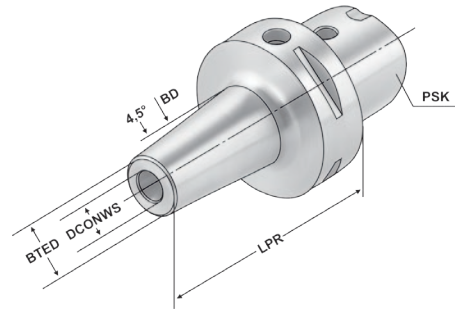
Note: Toolholders suitable for induction-, contact- and hot air shrink units.
 $\varnothing 3, 4, 5$ with h4-tolerance and $\varnothing 6\text{--}\varnothing 32$ with h6-tolerance



Shrink chucks 4,5°



Application:
For mounting straight-shank tools.



Order no.	PSK	DCONMS	TDCON	LPR	BTED	BD	LSCX	ADJRGA	THID
C6-70-03	C6	3	h4	80	10	20	10	10	M6x1
C6-70-04	C6	4	h4	80	11	20	10	10	M6x1
C6-70-06	C6	6	h4	80	21	27	36	10	M8x1
C6-70-08	C6	8	h4	80	21	27	36	10	M8x1
C6-70-10	C6	10	h4	80	24	32	41	10	M10x1
C6-70-12	C6	12	h4	80	24	32	47	10	M10x1
C6-70-14	C6	14	h4	85	27	34	47	10	M10x1
C6-70-16	C6	16	h4	85	27	34	50	10	M10x1
C6-70-18	C6	18	h4	85	33	42	50	10	M10x1
C6-70-20	C6	20	h4	85	33	42	52	10	M10x1
C6-70-25	C6	25	h4	90	44	53	58	10	M10x1
C6-70-32	C6	32	h4	95	44	53	62	10	M10x1
C6-70-06-1	C6	6	h4	120	21	27	36	10	M8x1
C6-70-08-1	C6	8	h4	120	21	27	36	10	M8x1
C6-70-10-1	C6	10	h4	120	24	32	41	10	M10x1
C6-70-12-1	C6	12	h4	120	24	32	47	10	M10x1
C6-70-16-1	C6	16	h4	120	27	34	50	10	M10x1
C6-70-20-1	C6	20	h4	120	33	42	52	10	M10x1
C6-70-25-1	C6	25	h4	120	44	53	58	10	M10x1
C6-70-32-1	C6	32	h4	120	44	53	62	10	M10x1
C6-70-06-2	C6	6	h4	160	21	27	36	10	M8x1
C6-70-08-2	C6	8	h4	160	21	27	36	10	M8x1
C6-70-10-2	C6	10	h4	160	24	32	41	10	M10x1
C6-70-12-2	C6	12	h4	160	24	32	47	10	M10x1
C6-70-16-2	C6	16	h4	160	27	34	50	10	M10x1
C6-70-20-2	C6	20	h4	160	33	42	52	10	M10x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

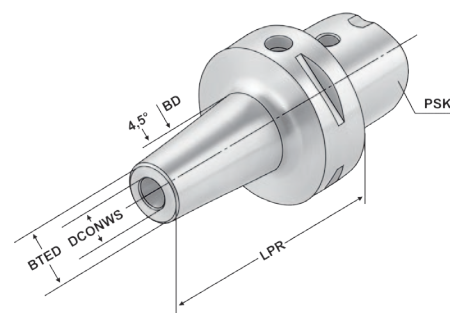
For Ø 3, 4 and 5 mm only solid carbide tool shanks must be used

Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 3, 4, 5 with h4-tolerance and Ø 6–Ø 32 with h6-tolerance

Shrink chucks 4,5° for mounting of solid carbide and HSS-tool shanks



Application:
For mounting straight-shank tools.



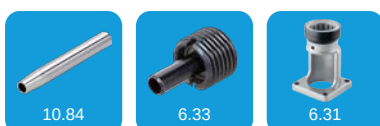
Order no.	PSK	DCONWS	TDCON	LPR	BTED	BD2	LSCN	LSCX	ADJRGA	THID
C6-70-06-CC	C6	6	h6	80	16	27	22	36	10	M8x1
C6-70-08-CC	C6	8	h6	80	21	27	26	36	10	M8x1
C6-70-10-CC	C6	10	h6	80	24	32	31	41	10	M8x1
C6-70-12-CC	C6	12	h6	80	24	32	36	46	10	M10x1
C6-70-16-CC	C6	16	h6	85	27	34	39	49	10	M10x1
C6-70-20-CC	C6	20	h6	85	33	42	41	51	10	M10x1
C6-70-25-CC	C6	25	h6	90	44	53	47	57	10	M10x1
C6-70-32-CC	C6	32	h6	90	44	53	51	61	10	M10x1

LSCX = Clamping depth, max.

ADJRGA = Length adjustment range, max.

For Ø 3, 4 and 5 mm only solid carbide tool shanks must be used

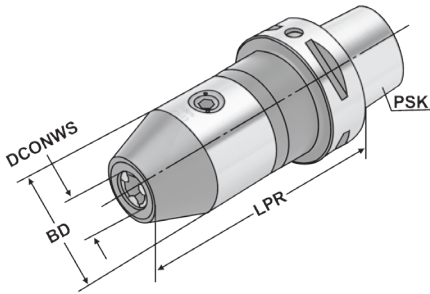
Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 3, 4, 5 with h4-tolerance and Ø 6–Ø 32 with h6-tolerance



CNC-Drill chucks for clockwise and counter clockwise rotation



Application:
For mounting tools with straight shanks.



ISO
26623

$\leq 30\mu\text{m}$

G6.3
15.000
min⁻¹

Ch. 11

Order no.	PSK	DCONWS Capacity	LPR	BD	DRVS
C6-15-13	C6	1,0 – 13	112	50	6
C6-15-16	C6	2,5 – 16	117	50	6

With centre coolant

Note: *High precision and accurate concentricity of $\leq 0.03\text{ mm}$. No automatic slackening of the clamping force while machining with either clockwise or counter clockwise rotation or on spindle stop. Clamping and releasing effected by means of an Allen wrench.*

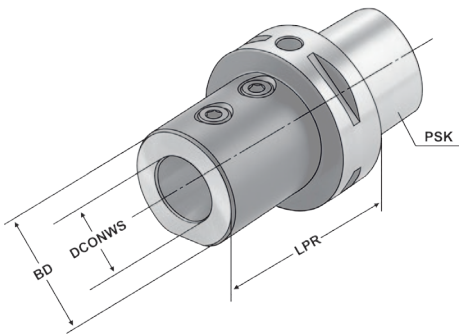
Delivery: Without wrench



Boring holders for drills with indexable inserts form E1



Application:
For all solid drills with cylindrical shank according to DIN 6595.



ISO 26623

$\leq 4\mu\text{m}$

$G6.3$
 15.000
 min^{-1}

ISO 9766

E1

H6

Order no.	PSK	DCONWS	TDCON	LPR	BD
C6-51-20	C6	20	H6	70	40
C6-51-25	C6	25	H6	70	45
C6-51-32	C6	32	H6	75	52
C6-51-40	C6	40	H6	85	60

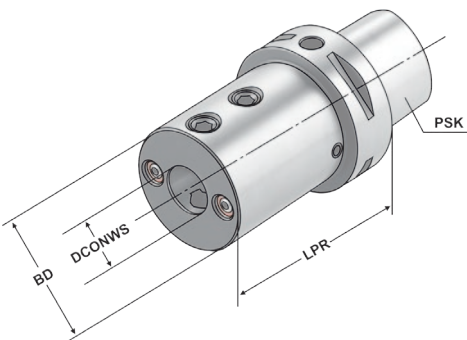
Delivery: With clamping screws



Boring bar holders form E2 - Clamping possible on both sides



Application:
For internal machining with boring bars.



ISO 26623

$\leq 4\mu\text{m}$

$G6.3$
 15.000 min^{-1}

E2

H6

Order no.	PSK	DCONWS	TDCON	LPR	BD
C6-52-12	C6	12	H6	80	44
C6-52-16	C6	16	H6	80	48
C6-52-20	C6	20	H6	85	52
C6-52-25	C6	25	H6	85	57
C6-52-32	C6	32	H6	90	64
C6-52-40	C6	40	H6	90	74

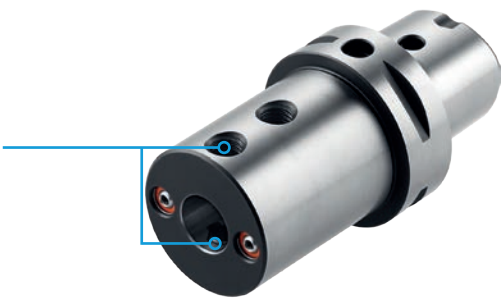
6

Version: With adjustable ball spray nozzles, closable for tools with internal coolant supply

Delivery: With clamping screws



Clamping possible on both sides



6.33

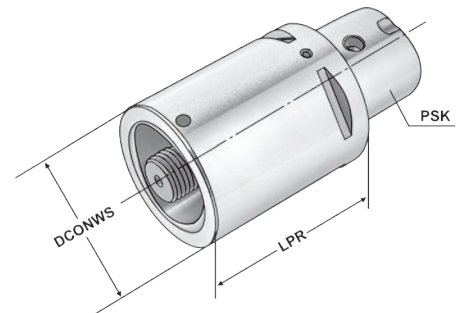
6.31

Adaptor sleeves for adaption from PSC to PSC

(ISO 26623-1 to ISO 26623-1)



Application:
For adaption from ISO to PSC
(ISO 7388-1 to ISO 26623-1)



Order no.	PSK	ADINTWS	DCONWS	LPR	TQX	THID
C6-09-C3-70	PSK C6	PSK C3	32	70	50	M12x1,5
C6-09-C4-80	PSK C6	PSK C4	40	80	50	M14x1,5
C6-09-C5-80	PSK C6	PSK C5	50	80	50	M16x1,5
C6-09-C6-80	PSK C6	PSK C6	63	80	70	M20x2,0
C6-09-C6-100	PSK C6	PSK C4	40	100	70	M14x1,5
C6-09-C6-140	PSK C6	PSK C5	50	140	70	M16x1,5
C6-09-C6-200	PSK C6	PSK C6	63	200	70	M20x2,0

6

Version:

Adapters PSK / PSK with axial clamping. Ground internally and externally. The internal thread provided for the coolant tube in the PSC toolholder is plugged with the socket-head screw incorporated in the adapter. The clamping screw incorporates a through hole, so the system is suitable for through-coolant feed. Suitable for tool arbor with polygonal shank (PSC) - ISO 26623-1.

Delivery: With clamping screw

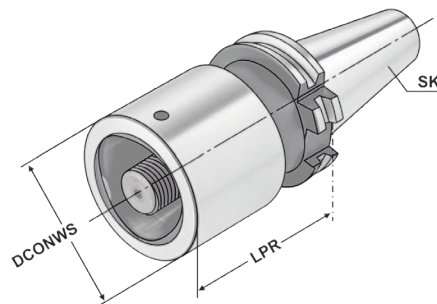


Adaptor sleeves for adaption from ISO to PSC

(ISO 7388-1 to ISO 26623-1)



Application:
Adapter from ISO to PSK with axial tension

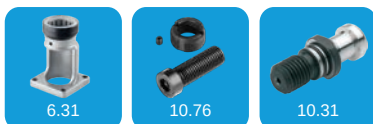


Order no.	SK	Typ	DCONWS	LPR	TQX	THID
SK40-02-09-C3	SK 40	PSK C3	32	30	45	M12x1,5
SK40-02-09-C4	SK 40	PSK C4	40	40	55	M14x1,5
SK40-02-09-C5	SK 40	PSK C5	50	50	95	M16x1,5
SK40-02-09-C6	SK 40	PSK C6	63	90	170	M20x2,0
SK50-09-C3-030	SK 50	PSK C3	32	30	45	M12x1,5
SK50-09-C4-030	SK 50	PSK C4	40	30	55	M14x1,5
SK50-09-C5-030	SK 50	PSK C5	50	30	95	M16x1,5
SK50-09-C6-030	SK 50	PSK C6	63	30	170	M20x2,0
SK50-09-C6-100	SK 50	PSK C6	63	100	170	M20x2,0

Version:

Adapters SK / PSK with axial clamping. Ground internally and externally. The internal thread provided for the coolant tube in the PSC toolholder is plugged with the socket-head screw incorporated in the adapter. The clamping screw incorporates a through hole, so the system is suitable for through-coolant feed. Suitable for tool arbor with polygonal shank (PSC) - ISO 26623-1.

Delivery: With clamping screw

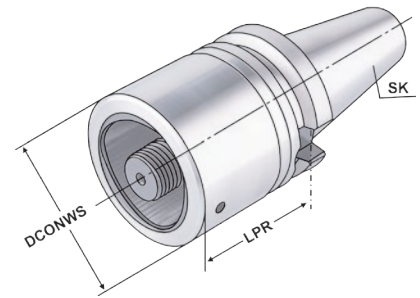


Adaptor sleeves for adaption from BT to PSC

(ISO 7388-2 to ISO 26623-1)



Application:
Adapter from BT to PSK with axial tension



ISO
7388-2

Form
JD
(AD)

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

G6.3
15.000
min⁻¹

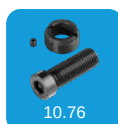
ISO
26623

Order no.	SK	Typ	DCONWS	LPR	TQX	THID
BT50-09-C3-030	BT 40	PSK C3	32	30	45	M12x1,5
BT50-09-C4-030	BT 40	PSK C4	40	30	55	M14x1,5
BT50-09-C5-030	BT 40	PSK C5	50	30	95	M16x1,5
BT50-09-C6-075	BT 40	PSK C6	63	75	170	M20x2,0
BT50-09-C3-040	BT 50	PSK C3	32	40	45	M12x1,5
BT50-09-C4-040	BT 50	PSK C4	40	40	55	M14x1,5
BT50-09-C5-040	BT 50	PSK C5	50	40	95	M16x1,5
BT50-09-C6-100	BT 50	PSK C6	63	100	170	M20x2,0

Version:

Adapters BT / PSK with axial clamping. Ground internally and externally. The internal thread provided for the coolant tube in the PSC toolholder is plugged with the socket-head screw incorporated in the adapter. The clamping screw incorporates a through hole, so the system is suitable for through-coolant feed. Suitable for tool arbor with polygonal shank (PSC) - ISO 26623-1.

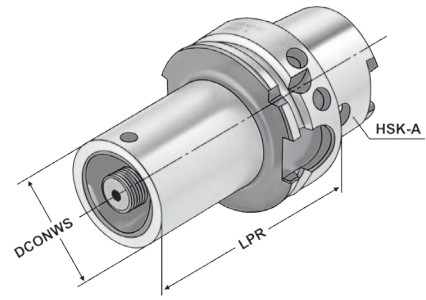
Delivery: With clamping screw



Reducing adapter for adaption from HSK-A to PSC (ISO 12164 to ISO 26623-1)



Application:
For adaption from HSK-A to PSK
(ISO 12164 to ISO 26623-1)



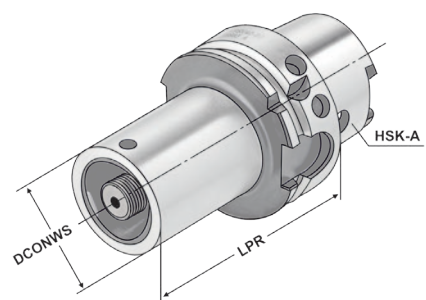
Order no.	HSK	Typ	DCONWS	LPR	TQX	THID
HSK-A63-09-C3	HSK-A 63	PSK C3	32	75	45	M12x1,5
HSK-A63-09-C4	HSK-A 63	PSK C4	40	80	55	M14x1,5
HSK-A63-09-C5	HSK-A 63	PSK C5	50	90	95	M16x1,5
HSK-A100-09-C3-080	HSK-A 100	PSK C3	32	80	45	M12x1,5
HSK-A100-09-C4-090	HSK-A 100	PSK C4	40	90	55	M14x1,5
HSK-A100-09-C5-100	HSK-A 100	PSK C5	50	100	95	M16x1,5
HSK-A100-09-C6-110	HSK-A 100	PSK C6	63	110	170	M20x2,0

6

Reducing adapter for adaption from HSK-T to PSC (ISO 12164-3 to ISO 26623-1)



Application:
For adaption from HSK-T to PSK
(ISO 12164 to ISO 26623-1)



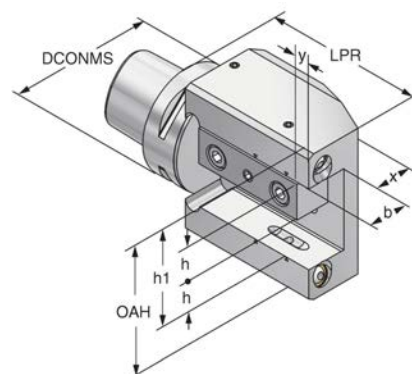
Order no.	HSK	Typ	DCONWS	LPR	TQX	THID
HSK-T63-09-C3-075	HSK-T 63	PSK C3	32	75	45	M12x1,5
HSK-T63-09-C4-080	HSK-T 63	PSK C4	40	80	55	M14x1,5
HSK-T63-09-C5-090	HSK-T 63	PSK C5	50	90	95	M16x1,5
HSK-T63-09-C6-110	HSK-T 63	PSK C6	63	110	170	M20x2,0

Multi-turning-toolholders with internal coolant



Application:

- for clamping holders with coolant channels directly to the cutting edge
- for ISO-clamping holders with claw clamping for best possible coolant supply
- coolant pressure up to 100 bar



ISO
26623

6

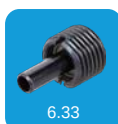
Order no.	Size	PSK	LPR	h/b	OAH	h1	x	y
C6-81-20	C6x20x112	C6	112	20	80	40	31,5	10
C6-81-25	C6x25x112	C6	112	25	90	45	31,5	10

Delivery: Without the illustrated cutting tools



Version:

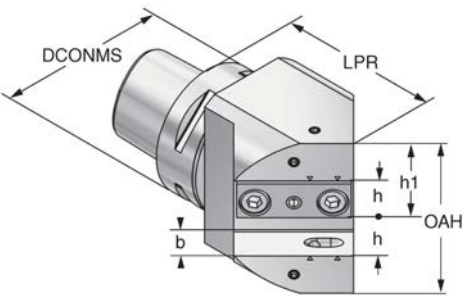
One turning toolholder - four possibilities:
Left - right - forehead - overhead.
B1- B2 - B3 - B4.
Coolant nozzles lockable for tools with internal coolant.



Multi-turning-toolholders 45° with internal coolant



Application:
 - for clamping holders with coolant channels directly to the cutting edge
 - for ISO-clamping holders with claw clamping for best possible coolant supply
 - coolant pressure up to 100 bar



ISO
26623

6

Order no.	Size	PSK	LPR	h/b	OAH	h1
C6-83-20	C6x20x45°	C6	93	20	80	40
C6-83-25	C6x25x45°	C6	97	25	90	45

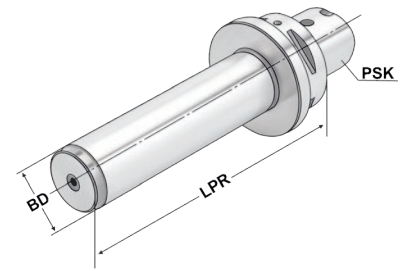
Delivery: Without the illustrated cutting tools



Test arbors



Application:
For the inspection of machine tools according to ISO recommendation R230 or for testing the tool spindle.



Order no.	PSK	LPR	BD	Tolerance	max. concentricity deviation
C3-18-20	C3	180	20	0,005	0,005
C4-18-32	C4	180	32	0,005	0,005
C5-18-32	C5	180	32	0,005	0,005
C6-18-40	C6	182	40	0,005	0,005
C6-18-40-352	C6	352	40	0,005	0,005

Delivery: Delivery with test certificate

6

Wooden box for test arbors



Application:
For the storage of test arbors.

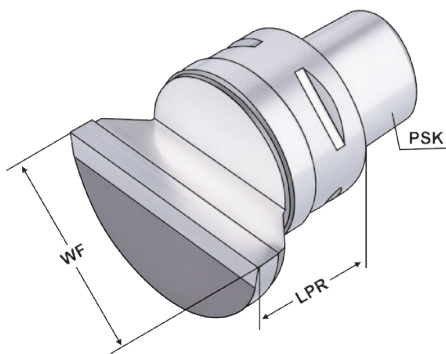


Order no.	Size	for cones
WB-18	460 × 130 × 115	SK 30 / 40 / 50 / C3 / C4 / C5 / C6

Master Setting Gauge



Application:
Calibration of the angular position of
spindles of milling-turning centres



ISO
26623

Order no.	PSK	LPR	WF
C6-18-90-065	C6	65	90

- Application:
- Checking and setting the rotation angle position of machine spindles (M19 function - spindle stop in defined end position).
 - Determining the reference points (calibration) of optical presetting devices
 - Calibration of the angular position of spindles of milling-turning centres
 - Calibrating the accuracy of the turret recordings of CNC lathes
 - Setting the rotary table zero point of 5-axis machining centres
- Accuracy:
- Alignment surface $\pm 0.01\text{mm}$ to the centre axis

6

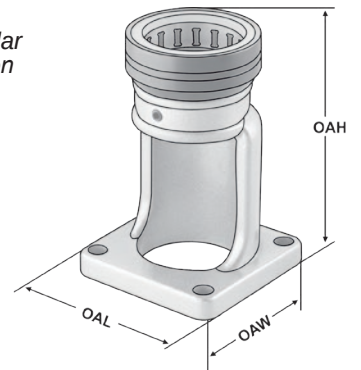
Delivery: Delivery with test certificate



Universal ball bearing tightening fixture



Application:
For easy and reliable clamping of tool arbors at the collar using rollers to mount and remove cutting tools – friction lock is self-clamping and ideal for HSK forms E and F, and also polygon shank arbors.

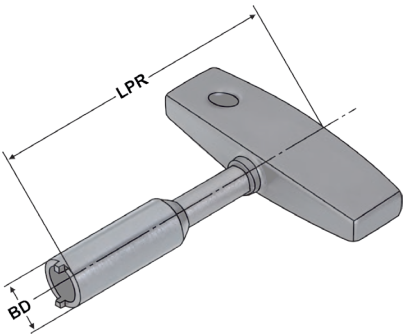


Order no.	Size	OAL	OAW	OAH
TF-07-1-032	C3 - HSK A32 - C32 - E32 - F32	110	110	165
TF-07-1-040	C4 - HSK A40 - C40 - E40 - F40	110	110	165
TF-07-1-050	C5 - HSK A50 - C50 - E50 - F50 - SK30	110	110	165
TF-07-1-063	C6 - HSK A63 - C63 - E63 - F63 - BT40	110	110	172
TF-07-1-080	C8 - HSK A80 - C80 - E80 - F80	160	160	215

Key for coolant tubes



Application:
For mounting the coolant tubes in PSC
toolholdKTS-



ISO
12164

Order no.	PSK	BD	LPR	
K-C3	C3 PSK 32	8,5	115	
K-C4	C4 PSK 40	10,5	115	
K-C5	C5 PSK 50	14,5	115	
K-C6	C6 PSK 63	16,5	136	
K-C8	C8 PSK 80	18,5	136	
K-C4-1	C4 PSK 40	10,5	115	ISO 22402-2
K-C6-1	C6 PSK 63	16,5	136	ISO 22402-2

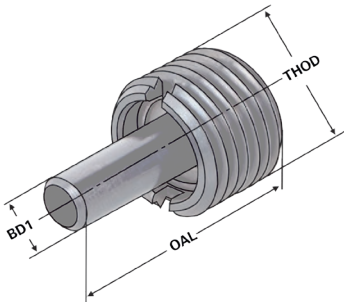
6



Coolant tubes



Application:
For the coolant supply through the centre
of PSC toolholdKTS-



ISO
26623

Order no.	PSK	THOD	BD1	OAL
CT-C3	C3 PSK 32	M12 x 1.5	5	22,4
CT-C4	C4 PSK 40	M14 x 1,5	6	25,2
CT-C5	C5 PSK 50	M16 x 1,5	7	28,3
CT-C6	C6 PSK 63	M20 x 2	8	31,0
CT-C8	C8 PSK 80	M20 x 2	10	31,5

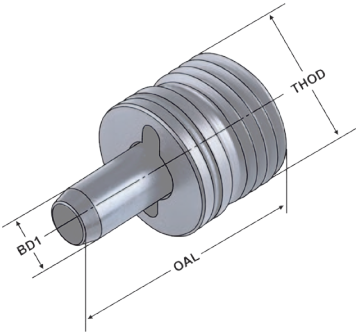
Note: The coolant transfer unit should be fixed using Loctite® 542



Coolant tubes - ISO 22402-2



Application:
For the coolant supply through the centre
of PSC toolholdKTS-



ISO 26623

ISO 22402-2

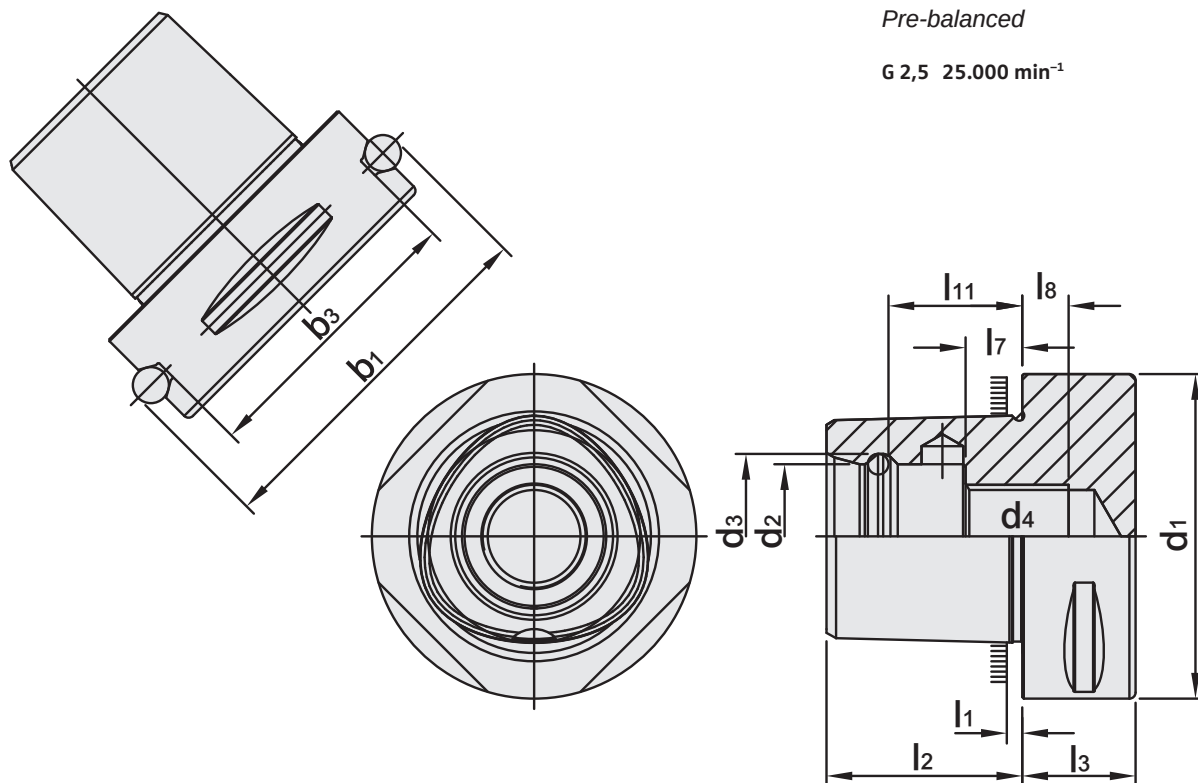
Order no.	PSK	THOD	BD1	OAL
CT-C4-1	C4 PSK 40	M14 × 1,5	6	27,5
CT-C6-1	C6 PSK 63	M20 × 2	8	33,5

ISO 22402-2:2022-02

Medium-transfer units for tool interfaces
Part 2: Transfer units for polygonal taper interfaces in accordance with the ISO 26623 series

Toolholders with polygonal shank ISO 26623-1

Pre-balanced

 G 2,5 25.000 min⁻¹


6

PSK	b ₁ ±0,1	b ₃ ±0,1	d ₁ ±0,1	d ₂ +0,1 -0,05	d ₃ ±0,05	d ₄	l ₁	l ₂ ±0,1	l ₃ min	l ₇ ±0,15	l ₈ min	l ₁₁ ±0,1
32	39,0	27,9	32	15	16,5	M12 x 1,5P	2,5	19	15	6	6	13,5
40	46,0	34,9	40	18	20,0	M14 x 1,5P	2,5	24	20	9	6	17,5
50	59,3	44,0	50	21	24,0	M16 x 1,5P	3	30	20	10	7	22,0
63	70,7	55,4	63	28	32,0	M20 x 2,0P	3	38	22	11	9	26,0
80	86,0	70,7	80	32	38,0	M20 x 2,0P	3	48	30	20	10	34,0
100	110,0	88,3	100	43	50,5	M24 x 2,0P	3	60	32	20	10	42,5

Material:

Alloyed case-hardened steel, tensile core strength of min. 950 N/mm².
Case hardened HRC 60 ± 2 (HV 700 ± 50), hardening depth 0.8 mm ± 0.2 mm,
black-finished and precisely grinded.

Index

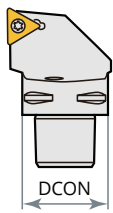
6.39  DCLN	6.40  DDJN	6.41  DDHN	6.42  DDNN
6.43  DSKN	6.44  DSDN	6.45  DSSN	6.46  DWLN
6.47  DVJN	6.48  DVVNN	6.49  DTJN	6.50  PCLN
6.51  PDJN	6.52  PSKN	6.53  SCLC	6.54  SDJC
6.55  SVHB	6.56  SVJB	6.57  SRDC	6.58  SRSC
6.61  DCLN	6.62  DDUN	6.63  PCLN	6.64  PSKN
6.65  DCLN			



Code keys - External toolholders – Metric

C3	D	C	L	N	R	22	040	09
1	2	3	4	5	6	7	8	9

1
PSC size



C3 = 32 mm
C4 = 40 mm
C5 = 50 mm
C6 = 63 mm
C8 = 80 mm
C10 = 100 mm

2
Insert clamping

C Clamp	D Clamp/inserts with center hole	M,W Pin/Clamp	P Pin/Wedge or Lever	S Screw
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6

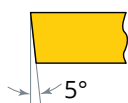
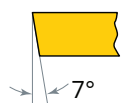
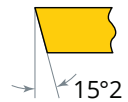
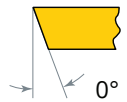
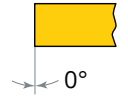
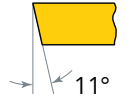
3
Insert shape

4
Tool type

C		A 90° (0°)		B 75° (15°)		D 45° (45°)		E 60° (30°)		F 91° (-1°)		G 91° (-1°)	
D		H 107.5° (-17.5°)		J 93° (-3°)		K 75° (15°)		L 95° (-5°)		M 50° (40°)		N 62.5° (27.5°)	
K		Q 107.5° (-17.5°)		R 75° (15°)		S 45° (45°)		T 60° (30°)		U 93° (-3°)		V 72.5° (17.5°)	
R													
S													
T													
V								Y(X) 85° (5°)		Y(Z) 85° (5°)		P 62.5° (27.5°)	
W													

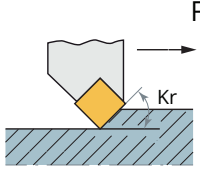
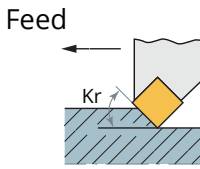
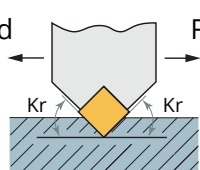
5

Insert side clearance angle

B		C	
D		E	
N		P	
O	Sonder Special Spécial		

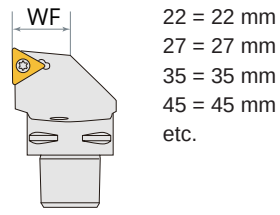
6

Cutting direction

R	
L	
N	

7

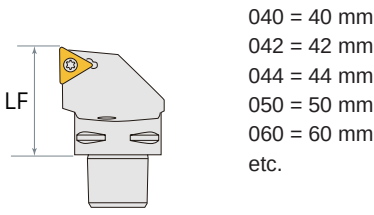
WF-dimension



Specification in millimetres, two digits

8

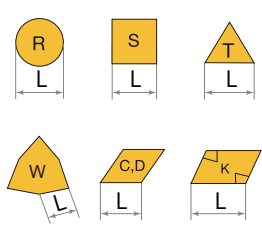
LF-dimension



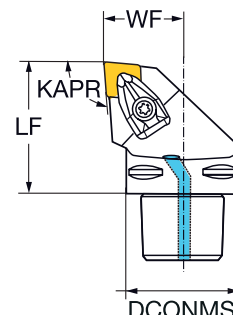
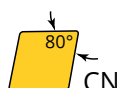
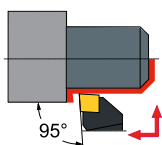
Specification in millimetres, three digits

9

Cutting edge length



Specification in millimetres, two digits
Integer, not rounded


ISO
26623

DCLNL

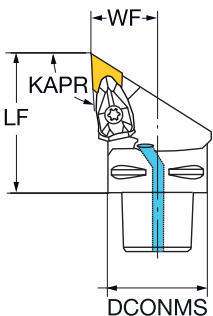
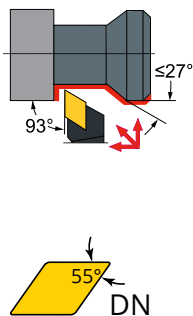
95°

CTWS: CNMM | CNMG | CNMA | CNGA

Order no.	DCONMS	DMIN1	WF	LF	KAPR	GAMO	LAMS	ISO Inserts
C6-DCLNL-45-065-12	C6	110	45	65	95°	-6°	-6°	CN.. 1204..
C6-DCLNR-45-065-12	C6	110	45	65	95°	-6°	-6°	CN.. 1204..
C6-DCLNL-45-065-16	C6	125	45	65	95°	-6°	-6°	CN.. 1606..
C6-DCLNR-45-065-16	C6	125	45	65	95°	-6°	-6°	CN.. 1606..
C6-DCLNL-45-065-19	C6	81	45	65	95°	-6°	-6°	CN.. 1906..
C6-DCLNR-45-065-19	C6	81	45	65	95°	-6°	-6°	CN.. 1906..

- Right-hand version shown
 - Delivery: without inserts
 - For holder code key, see page 6.37
 - For ISO attribute explanation, see page 6.66

DCON	CTWS	Shim screw	Shim	Clamp key	Clamp (set)
C6	12	KTS-T-SS-4085	KTS-T-SH-234-01	KTS-T-S-48-150-10	KTS-T-CS-028-021
C6	16	KTS-T-SS-5011	KTS-T-SH-234-01	KTS-T-S-48-200-10	KTS-T-CS-028-031
C6	19	KTS-T-SS-5011	KTS-T-SH-236-01	KTS-T-S-48-200-10	KTS-T-CS-028-041



ISO 26623

DDJN

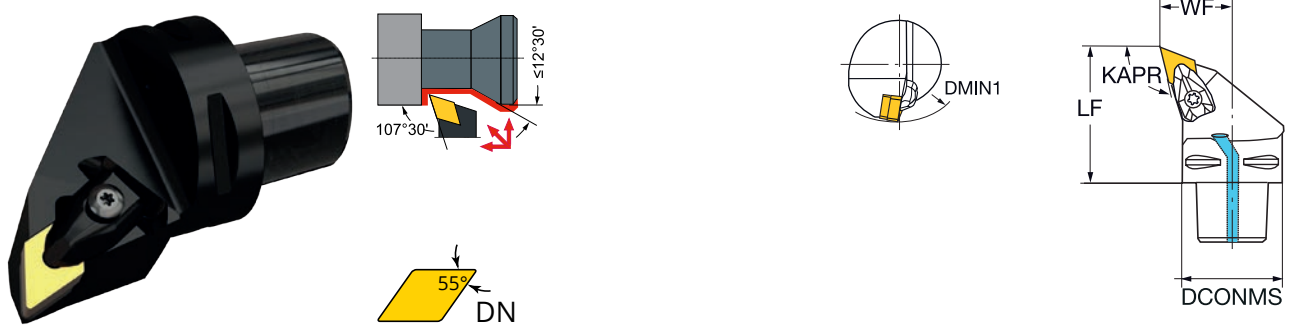
93°

CTWS: DNMM | DNMX | DNMG | DNMA | DNGA

Order no.	DCONMS	DMIN1	WF	LF	KAPR	GAMO	LAMS	ISO Inserts
C6-DDJNL-45-065-11	C6	81	45	65	93°	-6°	-7°	DN.. 1104..
C6-DDJNR-45-065-11	C6	81	45	65	93°	-6°	-7°	DN.. 1104..
C6-DDJNL-45-065-15	C6	110	45	65	95°	-6°	-7°	DN.. 1506..
C6-DDJNR-45-065-15	C6	110	45	65	95°	-6°	-7°	DN.. 1506..

- Right-hand version shown
- Delivery: without inserts
- For holder code key, see page 6.37
- For ISO attribute explanation, see page 6.66

DCON	CTWS	Shim screw	Shim	Clamp key	Clamp (set)
C6	11	KTS-T-SS-3072	KTS-T-SH-267-01	KTS-T-S-42-090-40	KTS-T-CS-028-011
C6	15	KTS-T-SS-4085	KTS-T-SH-266-02	KTS-T-S-48-150-10	KTS-T-CS-028-021



ISO
26623

DDHN

107,5°

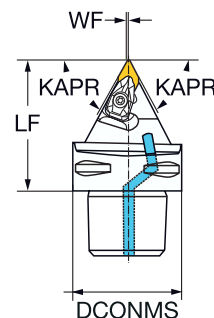
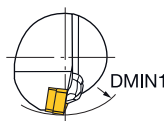
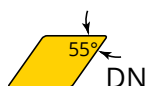
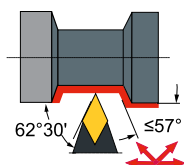
CTWS: DNMM | DNMX | DNMG | DNMA | DNMA

Order no.	DCONMS	DMIN1	WF	LF	KAPR	GAMO	LAMS	ISO Inserts
C6-DDHNL-45-065-15	C6	110	45	65	107,5°	-6°	-7°	DN.. 1506..
C6-DDHNR-45-065-15	C6	110	45	65	107,5°	-6°	-7°	DN.. 1506..

6

- Right-hand version shown
- Delivery: without inserts
- For holder code key, see page 6.37
- For ISO attribute explanation, see page 6.66

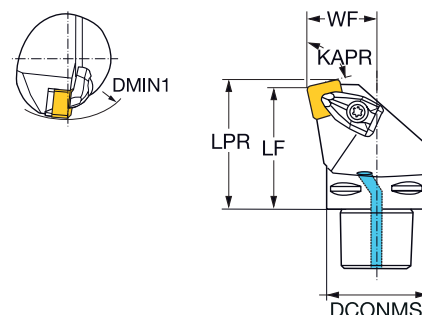
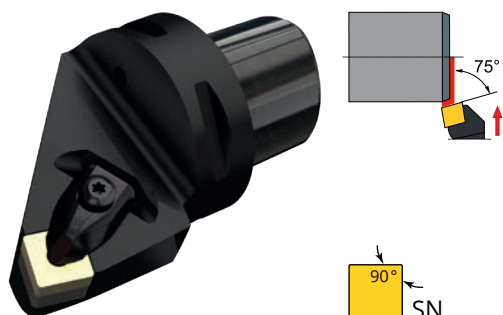
DCON	CTWS	Shim screw	Shim	Clamp key	Clamp (set)
C6	11	KTS-T-SS-3072	KTS-T-SH-267-01	KTS-T-S-42-090-40	KTS-T-CS-028-011
C6	15	KTS-T-SS-4085	KTS-T-SH-266-02	KTS-T-S-48-150-10	KTS-T-CS-028-021


**ISO
26623**
DDNN
62,5°
CTWS: DNMM | DNMX | DNMG | DNMA | DNGA

Order no.	DCONMS	DMIN1	WF	LF	KAPR	GAMO	LAMS	ISO Inserts
C6-DDNNN-00-065-15	C6	-	0,5	65	62,5°	-5°	-9°	DN.. 1506..

- Right-hand version shown
- Delivery: without inserts
- For holder code key, see page 6.37
- For ISO attribute explanation, see page 6.66

DCON	CTWS	Shim screw	Shim	Clamp key	Clamp (set)
C6	11	KTS-T-SS-3072	KTS-T-SH-267-01	KTS-T-S-42-090-40	KTS-T-CS-028-011
C6	15	KTS-T-SS-4085	KTS-T-SH-266-02	KTS-T-S-48-150-10	KTS-T-CS-028-021



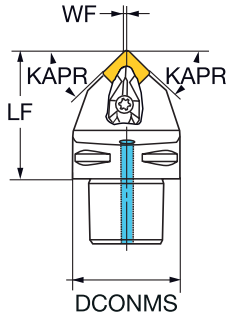
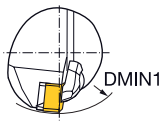
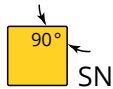
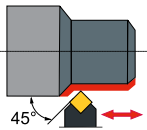
CTWS: SNMM | SNMG | SNMA | SNGA

Order no.	DCONMS	DMIN1	WF	LF	LF2	KAPR	GAMO	LAMS	ISO Inserts
C6-DSKNL-45-065-12	C6	110	45	65	-	75°	-6°	-6°	SN.. 1204..
C6-DSKNR-45-065-12	C6	110	45	65	-	75°	-6°	-6°	SN.. 1204..
C6-DSKNL-45-065-19	C6	125	45	65	-	75°	-6°	-6°	SN.. 1906..
C6-DSKNR-45-065-19	C6	125	45	65	-	75°	-6°	-6°	SN.. 1906..

6

- Right-hand version shown
- Delivery: without inserts
- For holder code key, see page 6.37
- For ISO attribute explanation, see page 6.66

DCON	CTWS	Shim screw	Shim	Clamp key	Clamp (set)
C6	11	KTS-T-SS-4085	KTS-T-SH-425-01	KTS-T-S-42-150-10	KTS-T-CS-028-021
C6	15	KTS-T-SS-5011	KTS-T-SH-425-04	KTS-T-S-48-200-10	KTS-T-CS-028-041



ISO
26623

DSDN

45°

CTWS: SNMM | SNMG | SNMA | SNGA

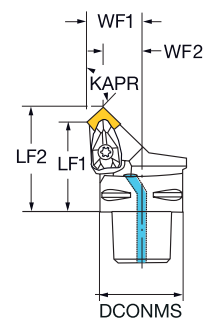
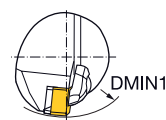
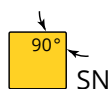
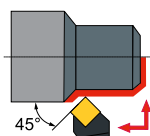
Order no.	DCONMS	DMIN1	WF	LF	LF2	KAPR	GAMO	LAMS	ISO Inserts
C6-DSDNN-00-065-12	C6	-	0,3	65	-	45°	-6°	-6°	SN.. 1204..

- Right-hand version shown
- Delivery: without inserts
- For holder code key, see page 6.37
- For ISO attribute explanation, see page 6.66

DCON	CTWS	Shim screw	Shim	Clamp key	Clamp (set)
C6	11	KTS-T-SS-4085	KTS-T-SH-425-01	KTS-T-S-42-150-10	KTS-T-CS-028-021
C6	15	KTS-T-SS-5011	KTS-T-SH-425-04	KTS-T-S-48-200-10	KTS-T-CS-028-041

DSSN - External turning tool

DSSNR/L-Kr 45°



ISO
26623

DSSN

45°

CTWS: SNMM | SNMG | SNMA | SNGA

Order no.	DCONMS	DMIN1	WF1	WF2	LF	LF2	KAPR	GAMO	LAMS	ISO Inserts
C6-DSSNL-45-056-12	C6	110	45	36,7	56	64,3	45°	-8°	0°	SN.. 1206..
C6-DSSNR-45-056-12	C6	110	45	36,7	56	64,3	45°	-8°	0°	SN.. 1206..

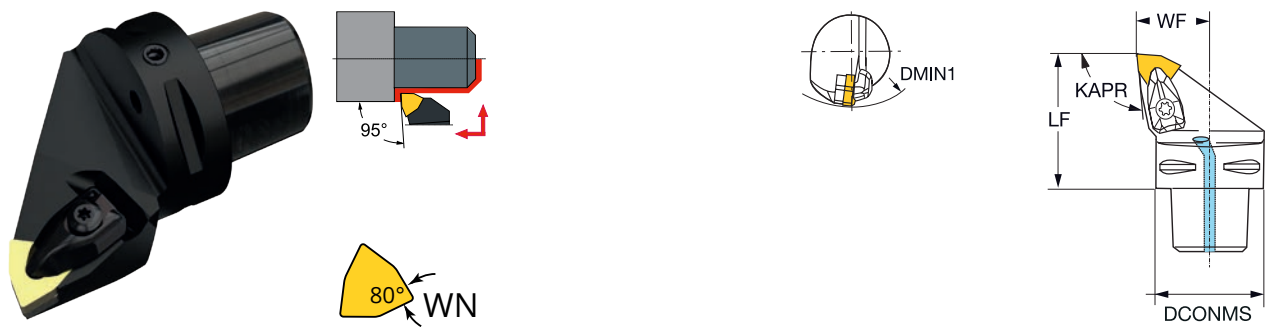
6

- Right-hand version shown
- Delivery: without inserts
- For holder code key, see page 6.37
- For ISO attribute explanation, see page 6.66

DCON	CTWS	Shim screw	Shim	Clamp key	Clamp (set)
					
C6	11	KTS-T-SS-4085	KTS-T-SH-425-01	KTS-T-S-42-150-10	KTS-T-CS-028-021
C6	15	KTS-T-SS-5011	KTS-T-SH-425-04	KTS-T-S-48-200-10	KTS-T-CS-028-041

DWLN - External turning tool

DWLNR/L-Kr 95°



ISO 26623

DWLN

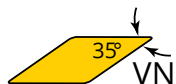
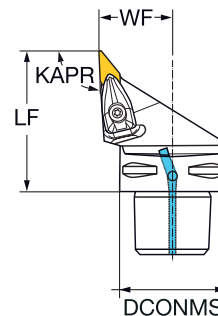
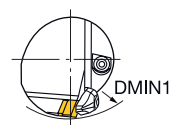
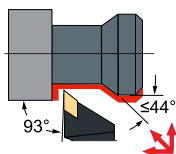
95°

CTWS: WNMM | WNMG | WNGA | WNMA

Order no.	DCONMS	DMIN1	WF	LF	KAPR	GAMO	LAMS	ISO Inserts
C6-DWLNL-45-065-06	C6	81	45	65	95°	-6°	-6°	WN.. 0604..
C6-DWLNR-45-065-06	C6	81	45	65	95°	-6°	-6°	WN.. 0604..
C6-DWLNL-45-065-08	C6	110	45	65	95°	-6°	-6°	WN.. 0804..
C6-DWLNR-45-065-08	C6	110	45	65	95°	-6°	-6°	WN.. 0804..

- Right-hand version shown
- Delivery: without inserts
- For holder code key, see page 6.37
- For ISO attribute explanation, see page 6.66

DCON	CTWS	Shim screw	Shim	Clamp key	Clamp (set)
C6	06	KTS-T-SS-3072	KTS-T-SH-328.01	KTS-T-S-42-090-40	KTS-T-CS-028-011
C6	08	KTS-T-SS-4085	KTS-T-SH-331-12	KTS-T-S-48-150-10	KTS-T-CS-028-021



ISO 26623 DVJN 93°

CTWS: VNMG | VNGP

Order no.	DCONMS	DMIN1	WF	LF	KAPR	GAMO	LAMS	ISO Inserts
C6-DVJNL-45-065-16	C6	81	45	65	93°	4°	-13°	VN.. 1604..
C6-DVJNR-45-065-16	C6	81	45	65	93°	4°	-13°	VN.. 1604..

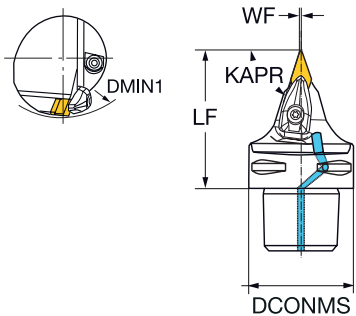
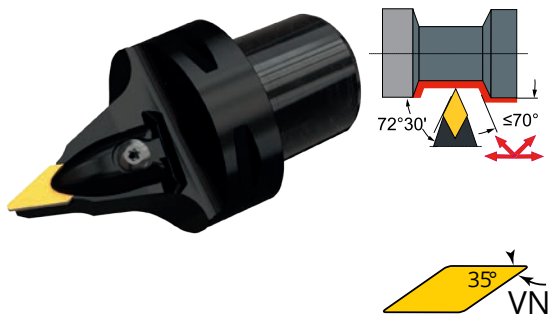
6

- Right-hand version shown
- Delivery: without inserts
- For holder code key, see page 6.37
- For ISO attribute explanation, see page 6.66

DCON	CTWS	Shim screw	Shim	Clamp key	Clamp (set)
C6	16	KTS-T-SS-3581	KTS-T-SH-269-01	KTS-T-S-48-150-10	KTS-T-CS-028-61

DVVNN - External turning tool

DVVNN/L-Kr 72.5°



ISO 26623

DVVN

72,5°

CTWS: VNMG | VNGP

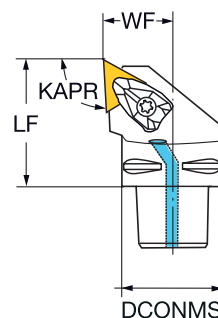
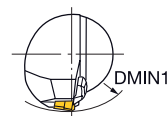
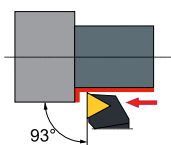
Order no.	DCONMS	DMIN1	WF	LF	KAPR	GAMO	LAMS	ISO Inserts
C6-DVVNN-00-065-16	C6	-	0,6	65	72,5°	4°	-13°	VN.. 1604..

- Right-hand version shown
- Delivery: without inserts
- For holder code key, see page 6.37
- For ISO attribute explanation, see page 6.66

DCON	CTWS	Shim screw	Shim	Clamp key	Clamp (set)
C6	16	KTS-T-SS-3581	KTS-T-SH-269-01	KTS-T-S-48-150-10	KTS-T-CS-028-61

DTJN - External turning tool

DTJNR/L-Kr 93°



ISO
26623

DTJN

93°

CTWS: TNMM | TNMX | TNMG | TNMA | TNGA

Order no.	DCONMS	DMIN1	WF	LF	KAPR	GAMO	LAMS	ISO Inserts
C6-DTJNL-45-065-16	C6	110	45	65	93°	-6°	-6°	TN.. 1604..
C6-DTJNR-45-065-16	C6	110	45	65	93°	-6°	-6°	TN.. 1604..

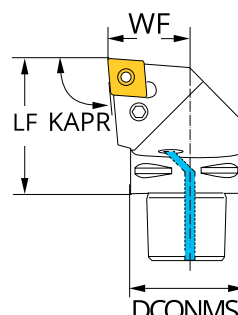
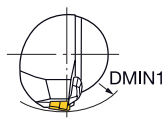
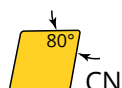
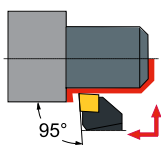
6

- Right-hand version shown
- Delivery: without inserts
- For holder code key, see page 6.37
- For ISO attribute explanation, see page 6.66

DCON	CTWS	Shim screw	Shim	Clamp key	Clamp (set)
C6	16	KTS-T-SS-3072	KTS-T-SH-316-01	KTS-T-S-42-090-40	KTS-T-CS-028-011
C6	16	KTS-T-SS-3072	KTS-T-SH-315-02	KTS-T-S-42-090-40	KTS-T-CS-028-011

PCLN - External turning tool

PCLNR/L-Kr 95°

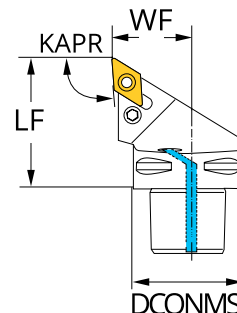
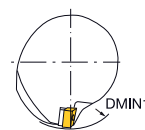
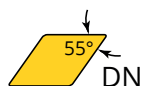
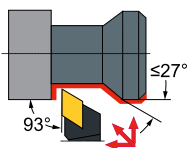


CTWS: CNMM | CNMG | CNMA | CNGA

Order no.	DCONMS	WF	LF	KAPR	GAMO	LAMS	ISO Inserts
C6-PCLNL-45-065-12	C6	45	65	95°	-6°	-6°	CN.. 1204..
C6-PCLNR-45-065-12	C6	45	65	95°	-6°	-6°	CN.. 1204..
C6-PCLNL-45-065-16	C6	45	65	95°	-6°	-6°	CN.. 1606..
C6-PCLNR-45-065-16	C6	45	65	95°	-6°	-6°	CN.. 1606..
C6-PCLNL-45-065-19	C6	45	65	95°	-6°	-6°	CN.. 1906..
C6-PCLNR-45-065-19	C6	45	65	95°	-6°	-6°	CN.. 1906..

- Right-hand version shown
- Delivery: without inserts
- For holder code key, see page 6.37
- For ISO attribute explanation, see page 6.66

DCON	CTWS	Shim screw	Shim	Clamp key	Insert lever
C6	12	KTS-T-SS-4-438-21	KTS-T-SH-318-50	KTS-T-S-41-030-63	KTS-T-L-438-41
C6	16	KTS-T-SS-4-838-31	KTS-T-SH-318-52	KTS-T-S-41-030-63	KTS-T-L-838-40
C6	19	KTS-T-SS-4-438-22	KTS-T-SH-318-51	KTS-T-S-41-030-63	KTS-T-L-438-42



ISO
26623

PDJN

93°

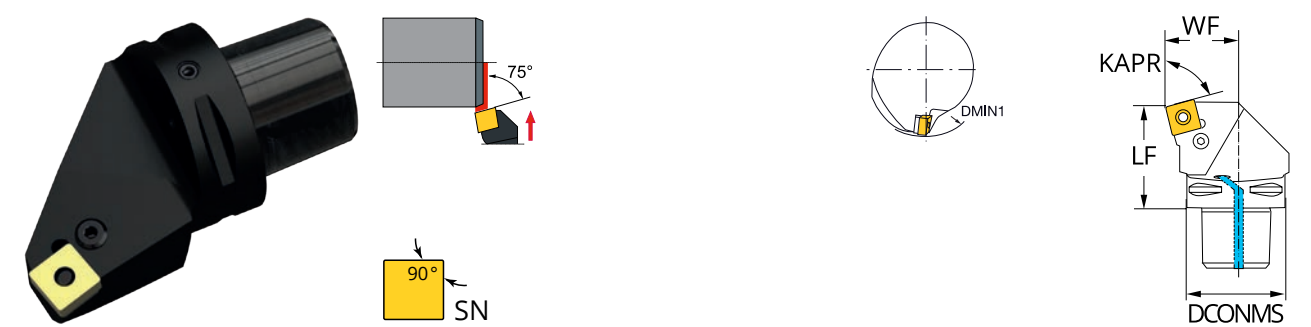
CTWS: DNMM | DNMX | DNMG | DNMA | DNGA

Order no.	DCONMS	WF	LF	KAPR	GAMO	LAMS	ISO Inserts
C6-PDJNL-45-065-15	C6	45	65	93°	-6°	-7°	DN.. 1506..
C6-PDJNR-45-065-15	C6	45	65	93°	-6°	-7°	DN.. 1506..

6

- Right-hand version shown
- Delivery: without inserts
- For holder code key, see page 6.37
- For ISO attribute explanation, see page 6.66

DCON	CTWS	Shim screw	Shim	Clamp key	Insert lever
C6	15	KTS-T-SS-4-438-30	KTS-T-SH-358-51	KTS-T-S-41-030-63	KTS-T-L-438-47



ISO
26623

PSKN

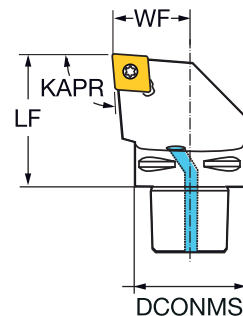
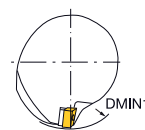
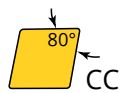
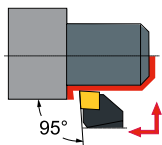
75°

CTWS: SNMM | SNMG | SNMA | SNGA

Order no.	DCONMS	WF	LF	KAPR	GAMO	LAMS	ISO Inserts
C6-PSKNL-45-065-12	C6	45	65	75°	-6°	-6°	SN.. 1204..
C6-PSKNR-45-065-12	C6	45	65	75°	-6°	-6°	SN.. 1204..

- Right-hand version shown
- Delivery: without inserts
- For holder code key, see page 6.37
- For ISO attribute explanation, see page 6.66

DCON	CTWS	Shim screw	Shim	Clamp key	Insert lever
C6	12	KTS-T-SS-4-438-21	KTS-T-SH-428-51	KTS-T-S-41-030-63	KTS-T-L-438-41



ISO
26623

SCLC

95°

CTWS: CCMT | CCGT | CCGX | CCET | CCMW

Order no.	DCONMS	WF	LF	KAPR	GAMO	LAMS	ISO Inserts
C6-SCLCL-45-065-12	C6	45	65	95°	0°	0°	CC.. 1204..
C6-SCLCR-45-065-12	C6	45	65	95°	0°	0°	CC.. 1204..

6

- Right-hand version shown
- Delivery: without inserts
- For holder code key, see page 6.37
- For ISO attribute explanation, see page 6.66

DCON

CTWS

Shim screw

Shim

Clamp key

Insert screw



C6

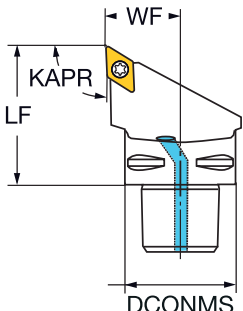
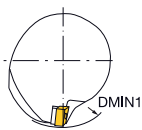
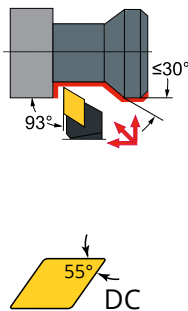
12

KTS-T-SS-5-090-03

KTS-T-SH-232-02

KTS-T-S-48-150-10
KTS-T-S-41-040-70

KTS-T-SS-4014



ISO 26623

SDJC

93°

CTWS: DCMT | DCMX | DCGT | DCGX | DCET | DCMW

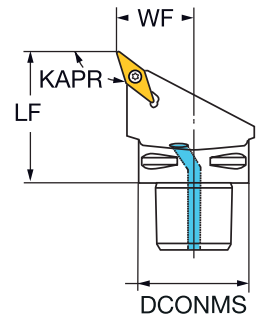
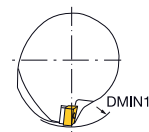
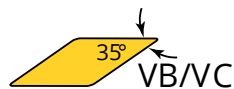
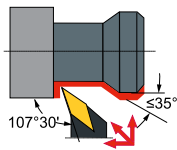
Order no.	DCONMS	WF	LF	KAPR	GAMO	LAMS	ISO Inserts
C6-SDJCL-45-065-11	C6	45	65	93°	0°	0°	DC...11T3..
C6-SDJCR-45-065-11	C6	45	65	93°	0°	0°	DC...11T3..

- Right-hand version shown
- Delivery: without inserts
- For holder code key, see page 6.37
- For ISO attribute explanation, see page 6.66

DCON	CTWS	Shim screw	Shim	Clamp key	Insert screw
C6	11	KTS-T-SS-5-090-01	KTS-T-SH-263-01	KTS-T-S-48-150-10 KTS-T-S-41-035-65	KTS-T-SS-3512

SVHB - External turning tool

SVHBR/L-Kr 107.5°



ISO
26623

SVHB

107,5°

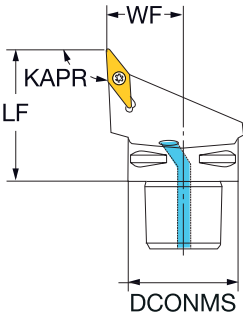
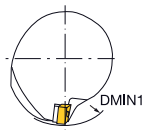
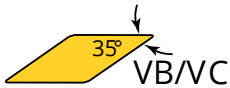
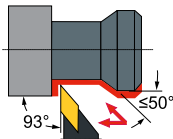
CTWS: VBMT | VBGT | VCGX | VCEX | VCGT | VCET | VBMW | VCMW

Order no.	DCONMS	WF	LF	KAPR	GAMO	LAMS	ISO Inserts
C6-SVHBL-45-065-16	C6	45	65	107,5°	0°	0°	V.. .. 1604..
C6-SVHBR-45-065-16	C6	45	65	107,5°	0°	0°	V.. .. 1604..

6

- Right-hand version shown
- Delivery: without inserts
- For holder code key, see page 6.37
- For ISO attribute explanation, see page 6.66

DCON	CTWS	Shim screw	Shim	Clamp key	Insert screw
					
C6	16	KTS-T-SS-5-090-01	KTS-T-SH-270-01	KTS-T-S-48-150-10 KTS-T-S-41-035-65	KTS-T-SS-3512



ISO
26623

SVHB

107,5°

CTWS: VBMT | VBGH | VCGX | VCEX | VCGT | VCET | VBMW | VCMW

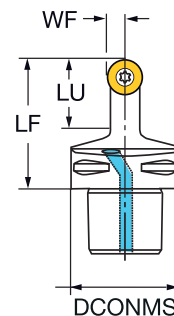
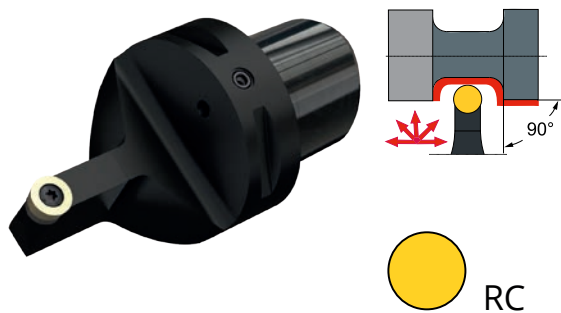
Order no.	DCONMS	WF	LF	KAPR	GAMO	LAMS	ISO Inserts
C6-SVJBL-45-065-16	C6	45	65	93°	0°	0°	V.. .. 1604..
C6-SVJBR-45-065-16	C6	45	65	93°	0°	0°	V.. .. 1604..

- Right-hand version shown
- Delivery: without inserts
- For holder code key, see page 6.37
- For ISO attribute explanation, see page 6.66

DCON	CTWS	Shim screw	Shim	Clamp key	Insert screw
C6	16	KTS-T-SS-5-090-01	KTS-T-SH-270-01	KTS-T-S-48-150-10 KTS-T-S-41-035-65	KTS-T-SS-3512

SRDC - External turning tool

SRDCN



ISO
26623

SRDC

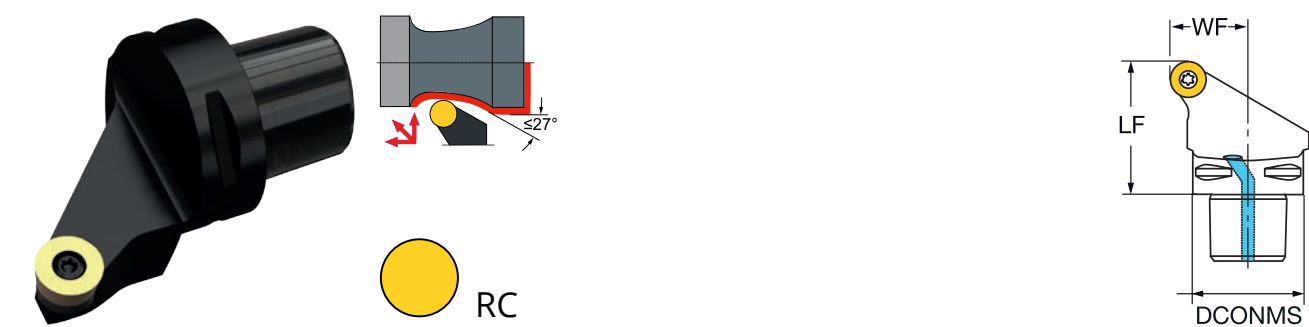
CTWS: RCMT | RCGX-AL

Order no.	DCONMS	LU	WF	LF	GAMO	LAMS	ISO Inserts
C6-SRDCN-00-065-10A	C6	25	5	65	0°	0°	RC.10T3M0

6

- Right-hand version shown
- Delivery: without inserts
- For holder code key, see page 6.37
- For ISO attribute explanation, see page 6.66

DCON	CTWS	Shim screw	Shim	Clamp key	Insert screw
C6	10	KTS-T-SS-5-090-01	KTS-T-SH-110.01	KTS-T-S-48-150-10 KTS-T-S-41-035-65	KTS-T-SS-3510



ISO
26623

SRSC

CTWS: RCMT | RCGX-AL

Order no.	DCONMS	LU	WF	LF	GAMO	LAMS	ISO Inserts
C6-SRSCL-45-065-16	C6	-	45	65	0°	0°	RC.1606M0
C6-SRSCR-45-065-16	C6	-	45	65	0°	0°	RC.1606M0

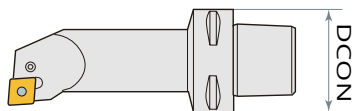
- Right-hand version shown
- Delivery: without inserts
- For holder code key, see page 6.37
- For ISO attribute explanation, see page 6.66

DCON	CTWS	Shim screw	Shim	Clamp key	Insert screw
C6	16	KTS-T-SS-5-090-06	KTS-T-SH-110-03	KTS-T-S-48-200-10 KTS-T-S-41-050-80	KTS-T-SS-5017

Code keys - Internal toolholders – Metric

C3	S	C	L	C	R	09	065	09
1	2	3	4	5	6	7	8	9

1
PSC size



C3 = 32 mm
C4 = 40 mm
C5 = 50 mm
C6 = 63 mm
C8 = 80 mm
C10 = 100 mm

2
Insert clamping

C Clamp	D <i>Clamp/inserts with center hole</i>	M,W Pin/Clamp	P Pin/Wedge or Lever	S Screw
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6

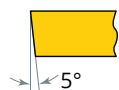
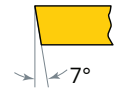
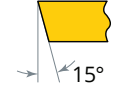
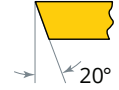
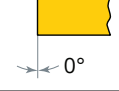
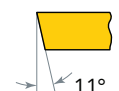
3
Insert shape

C	
D	
K	
R	
S	
T	
V	
W	

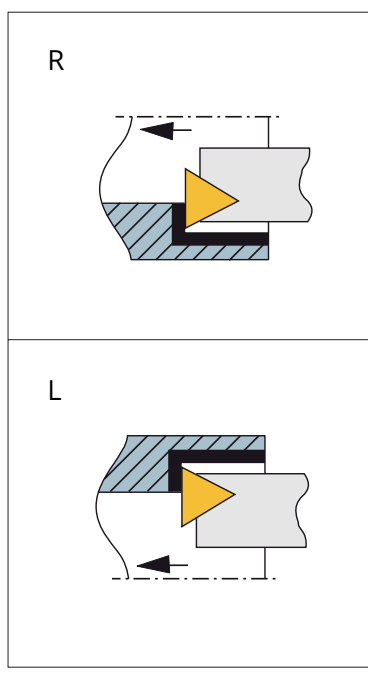
4
Tool type

F 91° (-1°) 	J 93° (-3°)
K 75° (15°) 	L 95° (-5°)
P 117.5° (-27.5°) 	Q 107.5° (-17.5°)
U 93° (-3°) 	U-X 93° (-3°)

5
Insert side clearance angle

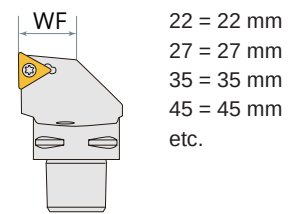
B	
C	
D	
E	
N	
O	Sonder Special Spécial
P	

6
Cutting direction



6

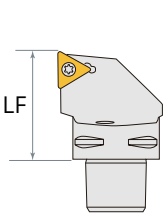
7
WF-dimension



22 = 22 mm
27 = 27 mm
35 = 35 mm
45 = 45 mm
etc.

Specification in millimetres, two digits

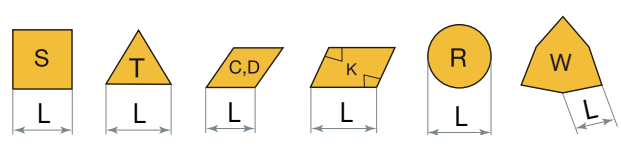
8
LF-dimension



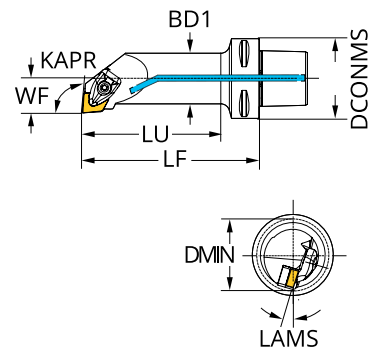
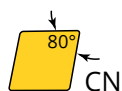
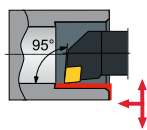
040 = 40 mm
042 = 42 mm
044 = 44 mm
050 = 50 mm
060 = 60 mm
etc.

Specification in millimetres, three digits

9
Cutting edge length



Specification in millimetres, two digits
Integer, not rounded



ISO
26623

DCLN

95°

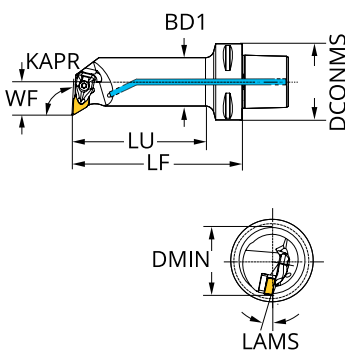
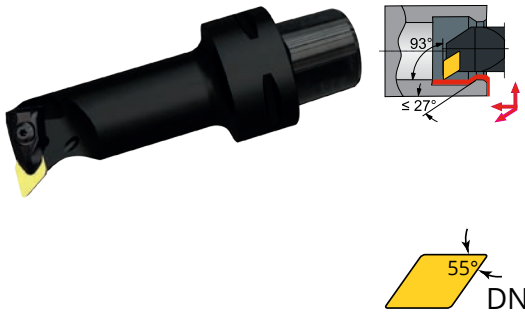
CTWS: CNMM | CNMG | CNMA | CNGA

Order no.	DCONMS	KAPR	DMIN	BD1	WF	LF	LU	GAMO	LAMS	ISO Inserts
C6-DCLNL-17-100-12	C6	95°	32	25	17	100	73	-6°	-12°	CN.. 1204..
C6-DCLNR-17-100-12	C6	95°	32	25	17	100	73	-6°	-12°	CN.. 1204..

6

- Right-hand version shown
- Delivery: without inserts
- For holder code key, see page 6.59
- For ISO attribute explanation, see page 6.66

DCON	CTWS	Shim screw	Shim	Clamp key	Clamp (set)
C6	12	KTS-T-SS-4085	KTS-T-SH-236.03	KTS-T-S-48-150-10	KTS-T-CS-028-021



ISO 26623

DDUN

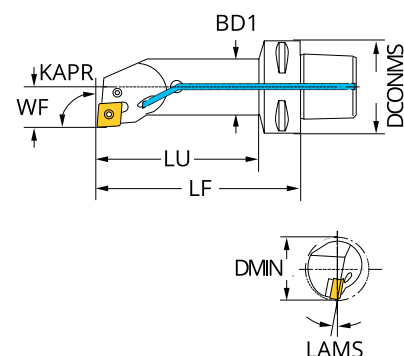
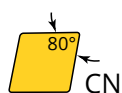
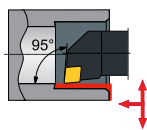
93°

CTWS: DNMM | DNMX | DNMG | DNMA | DNGA

Order no.	DCONMS	KAPR	DMIN	BD1	WF	LF	LU	GAMO	LAMS	ISO Inserts
C6-DDUNL-27-140-15	C6	93°	50	40	27	140	114	-6°	-11°	DN.. 1506..
C6-DDUNR-27-140-15	C6	93°	50	40	27	140	114	-6°	-11°	DN.. 1506..

- Right-hand version shown
- Delivery: without inserts
- For holder code key, see page 6.59
- For ISO attribute explanation, see page 6.66

DCON	CTWS	Shim screw	Shim	Clamp key	Clamp (set)
C6	11	KTS-T-SS-3512	KTS-T-SH-267-01	KTS-T-S-42-090-40	KTS-T-CS-028-011
C6	15	KTS-T-SS-4085	KTS-T-SH-266-02	KTS-T-S-48-150-10	KTS-T-CS-028-021

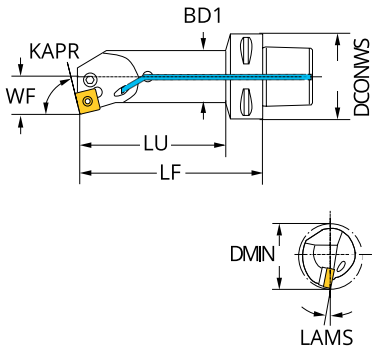
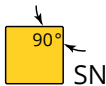


CTWS: CNMM | CNMG | CNMA | CNGA

Order no.	DCONMS	DMIN1	BD1	WF	LF	LU	KAPR	GAMO	LAMS	ISO Inserts
C6-PCLNL-17-100-12	C6	32	25	17	100	74	95°	-6°	-11°	CN.. 1204..
C6-PCLNR-17-100-12	C6	32	25	17	100	74	95°	-6°	-11°	CN.. 1204..
C6-PCLNL-22-110-12	C6	40	32	22	110	84	95°	-6°	-11°	CN.. 1204..
C6-PCLNR-22-110-12	C6	40	32	22	110	84	95°	-6°	-11°	CN.. 1204..

- Right-hand version shown
- Delivery: without inserts
- For holder code key, see page 6.59
- For ISO attribute explanation, see page 6.66

DCON	CTWS	Lever screw	Shim	Clamp key	Insert lever
C6	12	KTS-T-SS-4-838-32	-	KTS-T-S-41-025-56	KTS-T-L-838-41-1
C6	12	KTS-T-SS-4-438-21	KTS-T-SH-318-50	KTS-T-S-48-030-63	KTS-T-L-438-41



ISO 26623

PSKN

75°

CTWS: SNMM | SNMG | SNMA | SNGA

Order no.	DCONMS	DMIN1	BD1	WF	LF	LU	KAPR	GAMO	LAMS	ISO Inserts
C6-PSKNR-22-110-12	C6	40	32	22	110	84	75°	-6°	-10°	SN.. 1204..

- Right-hand version shown
- Delivery: without inserts
- For holder code key, see page 6.59
- For ISO attribute explanation, see page 6.66

DCON	CTWS	Lever screw	Shim	Clamp key	Insert lever
C6	12	KTS-T-SS-4-838-32	-	KTS-T-S-41-025-56	KTS-T-L-838-41-1
C6	12	KTS-T-SS-4-438-21	KTS-T-SH-438-51	KTS-T-S-48-030-63	KTS-T-L-438-41

Technical Information for Polygon Shank Adapters

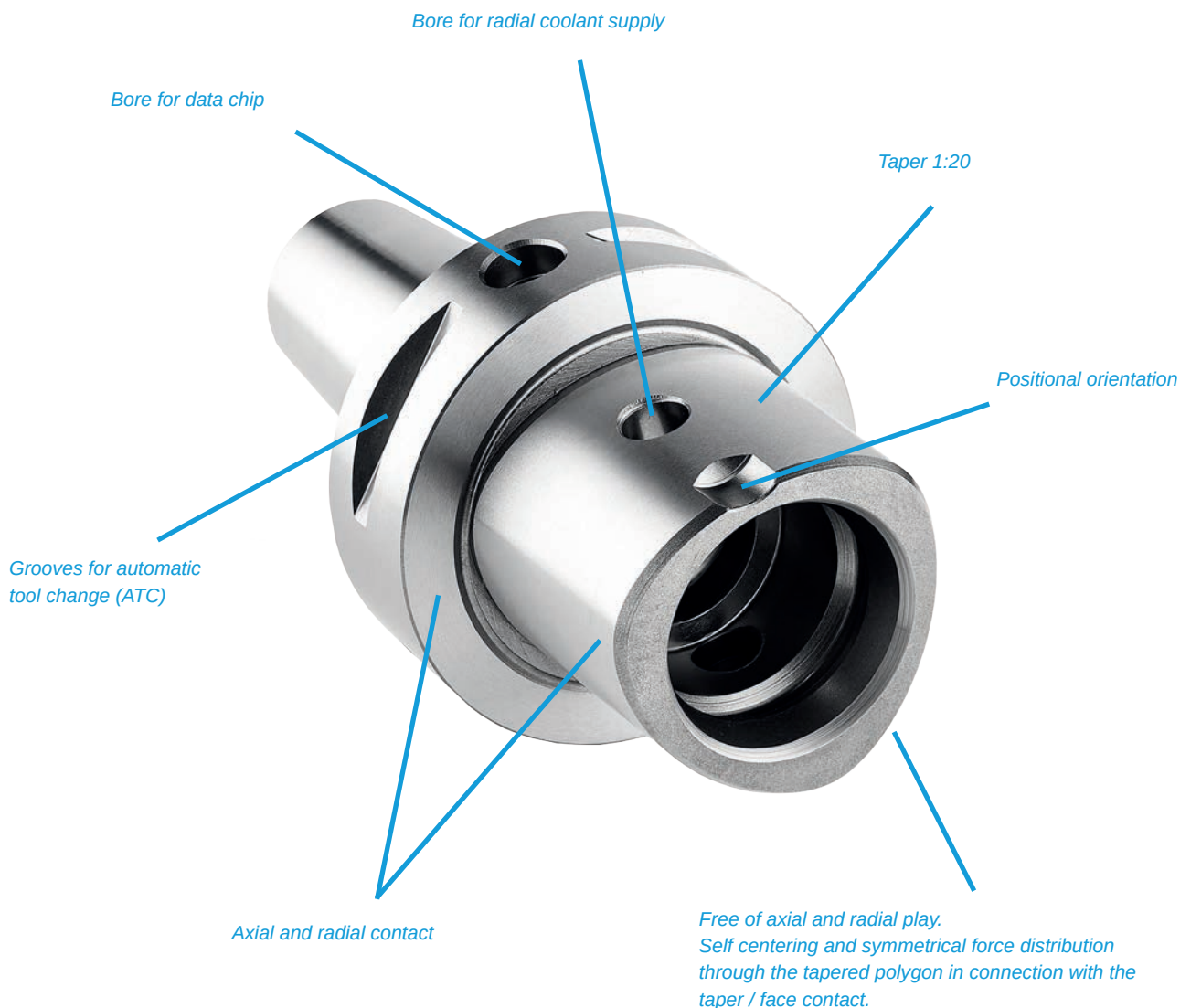
Normative references:

ISO 26623-1:2020

Polygonal taper interface with flange contact surface

- Part 1: Dimensions and designation of shanks

- Part 2: Dimensions and designation of receivers



6

In 1990 (patent application 1988), Sandvik Coromant presented a polygonal hollow shank taper with face contact under the brand name Coromant Capto®, developed for all types of application - turning, milling and drilling.

Then standardised in 2008 as the ISO/DIS 26623 standard for 'Polygonal taper interfaces with a flange contact surface' [ISO 26623-1:2008]. The standard previously covered flange sizes 32 to 80 (C3 to C8) and was extended in July 2013 to include polygonal shank size 100 (C10) [ISO 26623-1:2014]. In ISO 26623-1:2020-11, fluid transfer units for tool interfaces according to ISO 22402-2:2022-02 were added.

The tapered polygon in conjunction with the tight tolerance provides backlash-free centering also acts as pull back. The PSC cone has very high rigidity and bending strength. The main advantages of this interface are the transmittable torque stability, the resistance against radial forces acting on the tool and the exact center height.

This means high feed rates can be achieved on large material cross sections.

The PSC interface is ideally suited for all machining operations such as drilling, turning and milling.

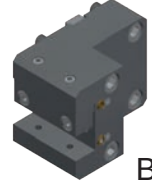
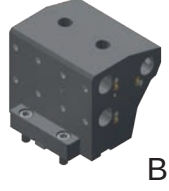
DIN ISO 10889

7

HAAS BMT 65



Toolholders
DIN ISO 10889
DIN 69880 (VDI 3425)
HAAS BMT 65

7.05  B1	7.07  B2	7.09  B3	7.11  B4
7.13  B5	7.14  B6	7.15  B7	7.16  B8
7.17  C1	7.19  C2	7.21  C3	7.23  C4
7.25 7.26  D1 D2	7.27 7.28  AR AL	7.29  E3	7.30  E4
7.31  E1	7.32  E2	7.33  E2	7.36  E2
7.37  E2	7.39  F1	7.40  E2	7.41  E2
7.43  E2	7.45  F1	7.47 7.48  A1 A2	7.49  Z2
7.50 - 7.57 	7.58  HAAS BMT 65	7.58  HAAS BMT 65	

Radial toolholders form B1 right, short

DIN ISO 10889

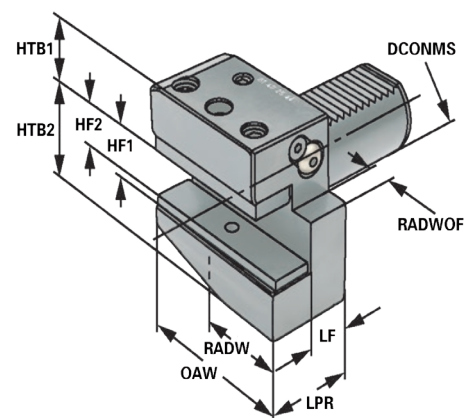
(DIN 69880)



Application:
Mainly for external machining.
For face machining.

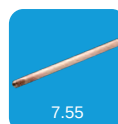
DIN ISO
10889

B1



Order no.	Size	DCONMS	HF1	HF2	LPR	LF	OAW	RADW	RADWOF	HTB1	HTB2
VDI-16-31-12	B1 – 16×12×24	16	12	–	24	13	42	23	5	20	22
VDI-20-31-16	B1 – 20×16×30	20	16	12	30	16	55	30	7	25	30
VDI-25-31-16	B1 – 25×16×30	25	16	12	30	16	55	30	7	25	30
VDI-30-31-20	B1 – 30×20×40	30	24,5	20,5	40	22	70	35	10	23,5	42,5
VDI-40-31-25	B1 – 40×25×44	40	28	23	44	22	85	42,5	12,5	30	50
VDI-50-31-32	B1 – 50×32×55	50	33	26	55	30	100	50	16	35	60

Version: With adjustable spray nozzle and shim

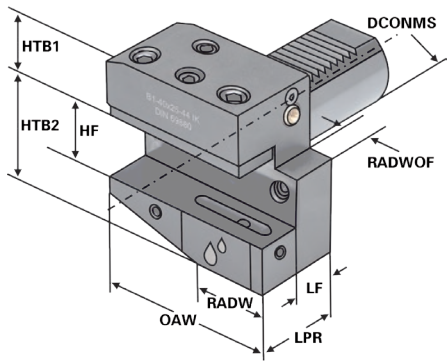


Radial toolholders form B1 right, short
for tools with internal coolant

DIN ISO 10889
(DIN 69880)



Application:
Mainly for external machining.
For face machining.



DIN ISO 10889

B1

IC

Order no.	Size	DCONMS	HF	LPR	LF	OAW	RADW	RADWOF	HTB1	HTB2
VDI-30-31-20-IC	B1 – 30×20×40	30	20	40	22	70	35	10	28	38
VDI-40-31-25-IC	B1 – 40×25×44	40	25	44	22	85	42,5	12,5	32,5	48
VDI-50-31-32-IC	B1 – 50×32×55	50	32	55	30	100	50	16	35	60

Version: With adjustable spray nozzle



Coolant supply

7.50

7.52

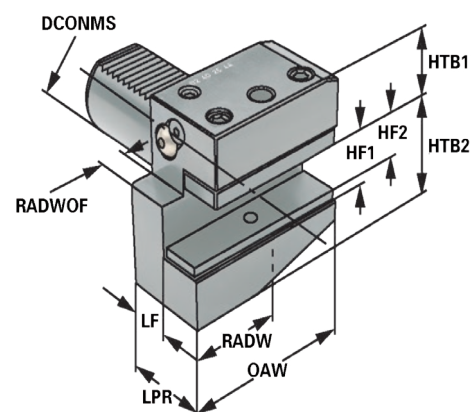
7.55



Application:
Mainly for external machining.
For face machining.

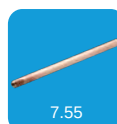
DIN ISO
10889

B2



Order no.	Size	DCONMS	HF1	HF2	LPR	LF	OAW	RADW	RADWOF	HTB1	HTB2
VDI-16-32-12	B2 – 16 × 12 × 24	16	12	–	24	13	42	23	5	20	22
VDI-20-32-16	B2 – 20 × 16 × 30	20	16	12	30	16	55	30	7	25	30
VDI-25-32-16	B2 – 25 × 16 × 30	25	16	12	30	16	55	30	7	25	30
VDI-30-32-20	B2 – 30 × 20 × 40	30	24,5	20,5	40	22	70	35	10	23,5	42,5
VDI-40-32-25	B2 – 40 × 25 × 44	40	28	23	44	22	85	42,5	12,5	30	50
VDI-50-32-32	B2 – 50 × 32 × 55	50	33	26	55	30	100	50	16	35	60

Version: With adjustable spray nozzle and shim

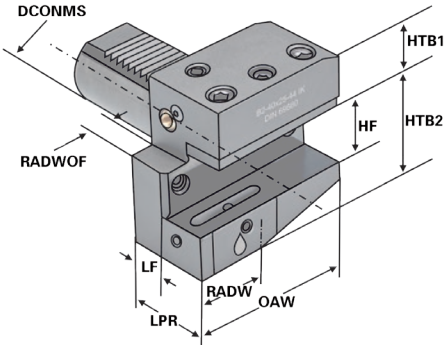


Radial toolholders form B2 left, short
for tools with internal coolant

DIN ISO 10889
(DIN 69880)



Application:
Mainly for external machining.
For face machining.



DIN ISO 10889

B2

IC

Order no.	Size	DCONMS	HF	LPR	LF	OAW	RADW	RADWOF	HTB1	HTB2
VDI-30-32-20-IC	B2 – 30×20×40	30	20	40	22	70	35	10	28	38
VDI-40-32-25-IC	B2 – 40×25×44	40	25	44	22	85	42,5	12,5	32,5	48
VDI-50-32-32-IC	B2 – 50×32×55	50	32	55	30	100	50	16	35	60

Version: With adjustable spray nozzle



Coolant supply

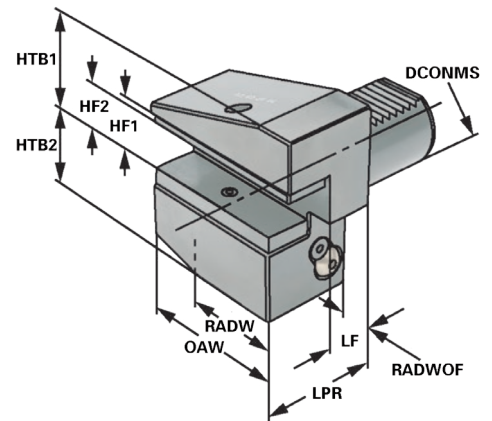
7.50

7.52

7.55



Application:
Mainly for external machining.
For face machining.



DIN ISO
10889

B3

Order no.	Size	DCONMS	HF1	HF2	LPR	LF	OAW	RADW	RADWOF	HTB1	HTB2
VDI-16-33-12	B3 – 16×12×24	16	12	–	24	13	42	23	5	20	22
VDI-20-33-16	B3 – 20×16×30	20	16	12	30	16	55	30	7	25	30
VDI-25-33-16	B3 – 25×16×30	25	16	12	30	16	55	30	7	25	30
VDI-30-33-20	B3 – 30×20×40	30	25	20,5	40	22	70	35	10	30	43
VDI-40-33-25	B3 – 40×25×44	40	29	23	44	22	85	42,5	12,5	39,5	51
VDI-50-33-32	B3 – 50×32×55	50	34	26	55	30	100	50	16	49	61

Version: With adjustable spray nozzle and shim



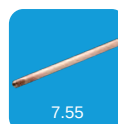
7.50



7.50



7.52



7.55

Radial toolholders form B3 overhead right, short
for tools with internal coolant

DIN ISO 10889
(DIN 69880)



Application:
Mainly for external machining.
For face machining.

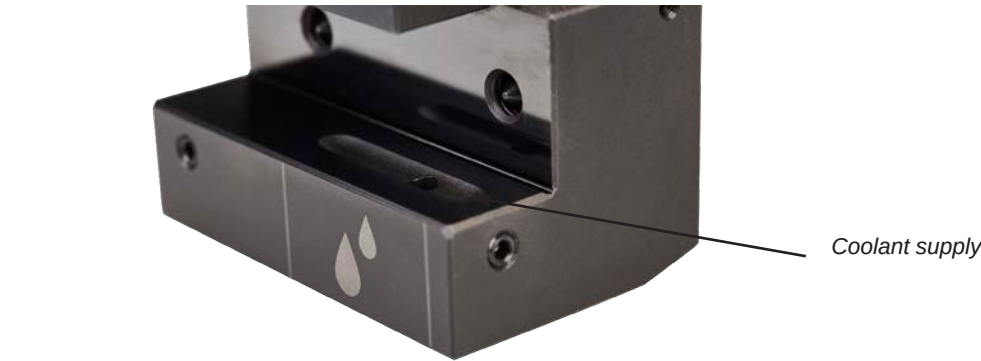
DIN ISO 10889

B3

IC

Order no.	Size	DCONMS	HF	LPR	LF	OAW	RADW	RADWOF	HTB1	HTB2
VDI-30-33-20-IC	B3 – 30 × 20 × 40	30	20	40	22	70	35	10	35	38
VDI-40-33-25-IC	B3 – 40 × 25 × 44	40	25	44	22	85	42,5	12,5	42,5	48
VDI-50-33-32-IC	B3 – 50 × 32 × 55	50	32	55	30	100	50	16	50	60

Version: With adjustable spray nozzle



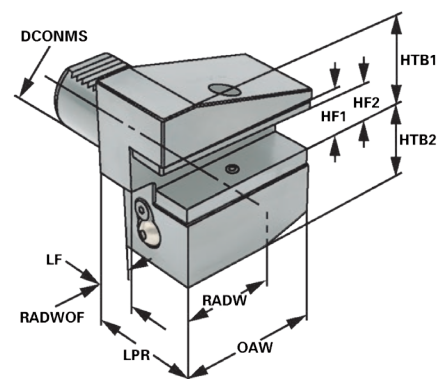
7.50

7.52

7.55

Radial toolholders form B4 overhead left, short
(DIN 69880)


Application:
Mainly for external machining.
For face machining.


DIN ISO
10889

B4

Order no.	Size	DCONMS	HF1	HF2	LPR	LF	OAW	RADW	RADWOF	HTB1	HTB2
VDI-16-34-12	B4 – 16 × 12 × 24	16	12	–	24	13	42	23	5	20	22
VDI-20-34-16	B4 – 20 × 16 × 30	20	16	12	30	16	55	30	7	35	30
VDI-25-34-16	B4 – 25 × 16 × 30	25	16	12	30	16	55	30	7	35	30
VDI-30-34-20	B4 – 30 × 20 × 40	30	25	20,5	40	22	70	35	10	30	42,5
VDI-40-34-25	B4 – 40 × 25 × 44	40	29	23	44	22	85	42,5	12,5	39,5	51
VDI-50-34-32	B4 – 50 × 32 × 55	50	34	26	55	30	100	50	16	49	61

Version: With adjustable spray nozzle and shim



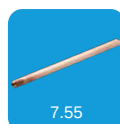
7.50



7.50



7.52



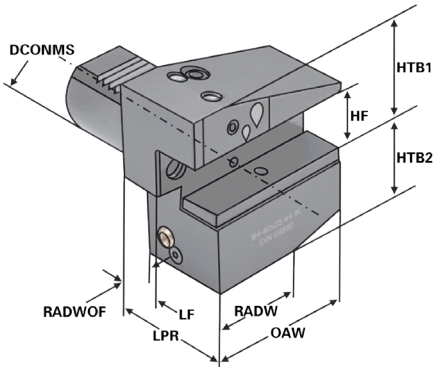
7.55

Radial toolholders form B4 overhead left, short
for tools with internal coolant

DIN ISO 10889
(DIN 69880)



Application:
Mainly for external machining.
For face machining.



DIN ISO 10889

B4

IC

Order no.	Size	DCONMS	HF	LPR	LF	OAW	RADW	RADWOF	HTB1	HTB2
VDI-30-34-20-IC	B4 – 30 × 20 × 40	30	20	40	22	70	35	10	35	38
VDI-40-34-25-IC	B4 – 40 × 25 × 44	40	25	44	22	85	42,5	12,5	42,5	48
VDI-50-34-32-IC	B4 – 50 × 32 × 55	50	32	55	30	100	50	16	50	60

Version: With adjustable spray nozzle



Coolant supply

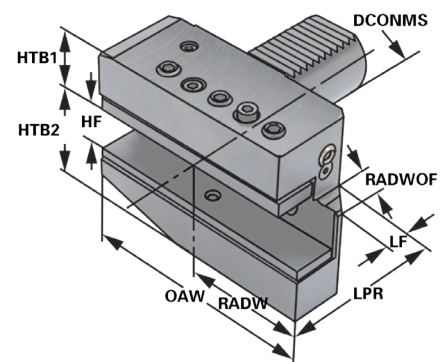
7.50

7.52

7.55



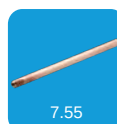
Application:
Mainly for external machining.
For face machining.


DIN ISO
10889

B5

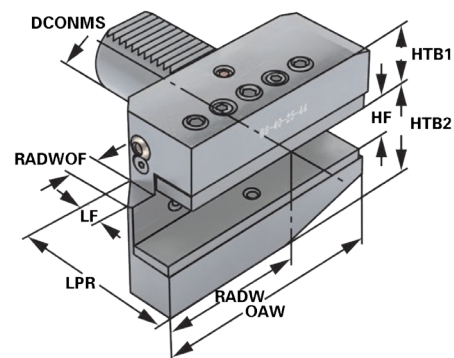
Order no.	Size	DCONMS	OAW	R_{ADW}	RADWOF	LF	LPR	HF	HTB1	HTB2
VDI-16-35-12	B5 – 16 × 12 × 24	16	58	39	5	13	24	12	22	20
VDI-20-35-16	B5 – 20 × 16 × 30	20	75	50	7	16	30	16	25	30
VDI-25-35-16	B5 – 25 × 16 × 30	25	75	50	7	16	30	16	25	30
VDI-30-35-20	B5 – 30 × 20 × 40	30	100	65	10	22	40	20	28	38
VDI-40-35-25	B5 – 40 × 25 × 44	40	118	75,5	12,5	22	44	25	32,5	48
VDI-50-35-32	B5 – 50 × 32 × 55	50	130	85	16	30	55	32	35	60

Version: With adjustable spray nozzle and shim





Application:
Mainly for external machining.
For face machining.

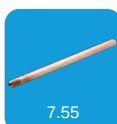
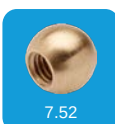


DIN ISO
10889

B6

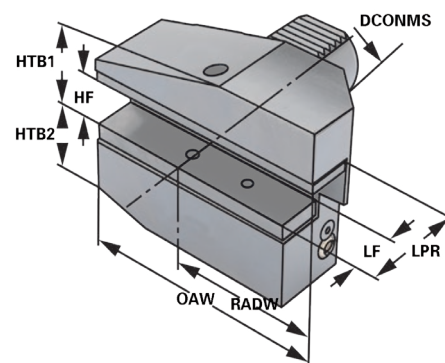
Order no.	Size	DCONMS	OAW	RADW	RADWOF	LF	LPR	HF	HTB1	HTB2
VDI-16-36-12	B6 – 16 × 12 × 24	16	58	39	5	13	24	12	22	20
VDI-20-36-16	B6 – 20 × 16 × 30	20	75	50	7	16	30	16	25	30
VDI-25-36-16	B6 – 25 × 16 × 30	25	75	50	7	16	30	16	25	30
VDI-30-36-20	B6 – 30 × 20 × 40	30	100	65	10	22	40	20	28	38
VDI-40-36-25	B6 – 40 × 25 × 44	40	118	75,5	12,5	22	44	25	32,5	48
VDI-50-36-32	B6 – 50 × 32 × 55	50	130	80	16	30	55	32	35	60

Version: With adjustable spray nozzle and shim





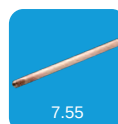
Application:
Mainly for external machining.
For face machining.


DIN ISO
10889

B7

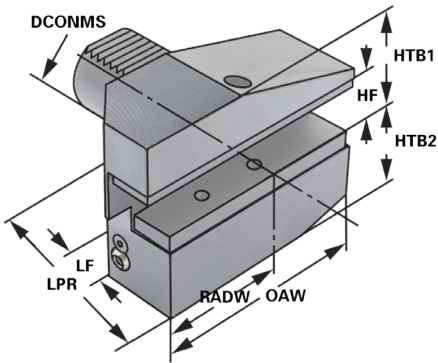
Order no.	Size	DCONMS	OAW	RADW	RADWOF	LF	LPR	HF	HTB1	HTB2
VDI-16-37-12	B7 – 16×12×24	16	58	39	5	13	24	12	20	22
VDI-20-37-16	B7 – 20×16×30	20	75	50	7	16	30	16	30	25
VDI-25-37-16	B7 – 25×16×30	25	75	50	7	16	30	16	30	25
VDI-30-37-20	B7 – 30×20×40	30	100	65	10	22	40	20	42	30
VDI-40-37-25	B7 – 40×25×44	40	118	75,5	12,5	22	44	25	48	42,5
VDI-50-37-32	B7 – 50×32×55	50	130	80	16	30	55	32	60	50

Version: With adjustable spray nozzle and shim





Application:
Mainly for external machining.
For face machining.



DIN ISO 10889
B8

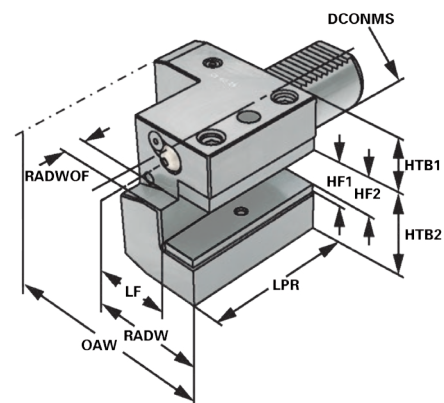
Order no.	Size	DCONMS	OAW	r_{ADW}	RADWOF	LF	LPR	HF	HTB1	HTB2
VDI-16-38-12	B8 – 16 × 12 × 24	16	58	39	5	13	24	12	20	22
VDI-20-38-16	B8 – 20 × 16 × 30	20	75	50	7	16	30	16	30	25
VDI-25-38-16	B8 – 25 × 16 × 30	25	75	50	7	16	30	16	30	25
VDI-30-38-20	B8 – 30 × 20 × 40	30	100	65	10	22	40	20	38	35
VDI-40-38-25	B8 – 40 × 25 × 44	40	118	75,5	12,5	22	44	25	48	42,5
VDI-50-38-32	B8 – 50 × 32 × 55	50	130	80	16	30	55	32	60	50

Version: With adjustable spray nozzle and shim





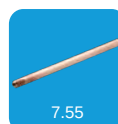
Application:
Mainly for external machining.
For face machining.


DIN ISO
10889

C1

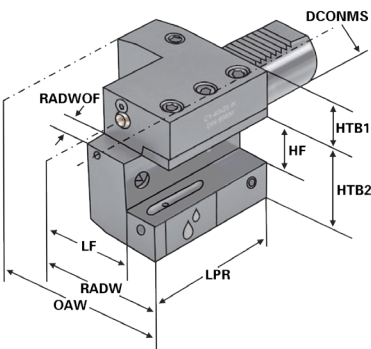
Order no.	Size	DCONMS	HF1	HF2	OAW	RADH	LF	LPR	RADWOF	HTB1	HTB2
VDI-16-41-12	C1 – 16×12	16	12	10	43	24	13	44	5	20	22
VDI-20-41-16	C1 – 20×16	20	16	12	52	27	13	50	7	25	30
VDI-25-41-16	C1 – 25×16	25	16	12	58	33	19	55	7	25	30
VDI-30-41-20	C1 – 30×20	30	20	16	70	35	17	70	10	28	38
VDI-40-41-25	C1 – 40×25	40	25	20	85	42,5	21	85	12,5	32,5	48
VDI-50-41-32	C1 – 50×32	50	32	25	100	50	26	100	16	35	60

Version: With adjustable spray nozzle and shim





Application:
Mainly for external machining.
For face machining.



DIN ISO 10889

C1

IC

Order no.	Size	DCONMS	HF	OAW	RADH	LF	LPR	RADWOF	HTB1	HTB2
VDI-30-41-20-IC	C1 – 30×20	30	20	76	49	31	70	10	24	42
VDI-40-41-25-IC	C1 – 40×25	40	25	90	55	33	85	12,5	32,5	48
VDI-50-41-32-IC	C1 – 50×32	50	32	105	62	38	100	16	35	60

Version: With adjustable spray nozzle



Coolant supply

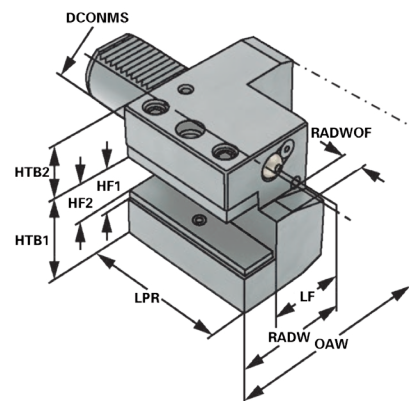
7.50

7.52

7.55



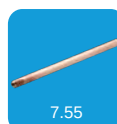
Application:
Mainly for external machining.
For face machining.


DIN ISO
10889

C2

Order no.	Size	DCONMS	HF1	HF2	OAW	RADH	LF	LPR	RADWOF	HTB1	HTB2
VDI-16-42-12	C2 – 16×12	16	12	–	43	24	13	44	5	20	22
VDI-20-42-16	C2 – 20×16	20	16	12	65	40	26	50	7	25	30
VDI-25-42-16	C2 – 25×16	25	16	12	58	33	26	55	7	20	30
VDI-30-42-20	C2 – 30×20	30	20	16	76	41	23	70	10	28	38
VDI-40-42-25	C2 – 40×25	40	25	20	90	47,5	25,5	85	12,5	32,5	48
VDI-50-42-32	C2 – 50×32	50	32	25	105	55	30,5	100	16	35	60

Version: With adjustable spray nozzle and shim

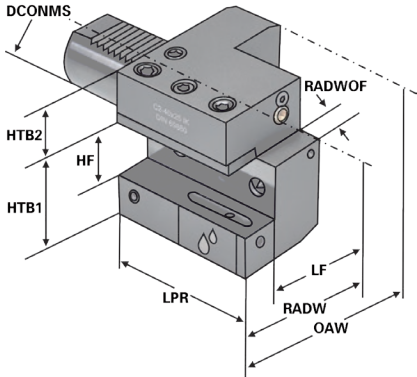


Axial toolholders form C2 left
for tools with internal coolant

DIN ISO 10889
(DIN 69880)



Application:
Mainly for external machining.
For face machining.



DIN ISO 10889

C2

IC

Order no.	Size	DCONMS	HF	OAW	RADH	LF	LPR	RADWOF	HTB1	HTB2
VDI-30-42-20-IC	C2 – 30×20	30	20	76	49	31	70	10	24	42
VDI-40-42-25-IC	C2 – 40×25	40	25	90	55	33	85	12,5	32,5	48
VDI-50-42-32-IC	C2 – 50×32	50	32	105	62	38	100	16	35	60

Version: With adjustable spray nozzle



Coolant supply

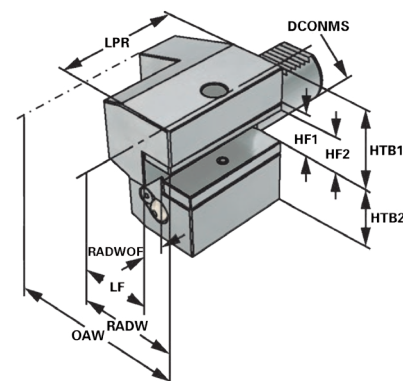
7.50

7.52

7.55



Application:
Mainly for external machining.
For face machining.

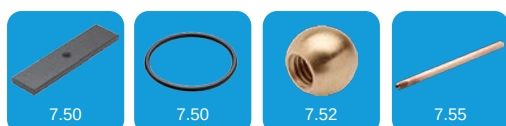


DIN ISO
10889

C3

Order no.	Size	DCONMS	HF1	HF2	OAW	RADH	LF	LPR	RADWOF	HTB1	HTB2
VDI-16-43-12	C3 – 16 × 12	16	12	10	43	24	13	44	5	20	22
VDI-20-43-16	C3 – 20 × 16	20	16	12	52	27	13	55	7	30	25
VDI-25-43-16	C3 – 25 × 16	25	16	12	58	33	19	55	7	30	25
VDI-30-43-20	C3 – 30 × 20	30	20	16	70	35	17	70	10	38	35
VDI-40-43-25	C3 – 40 × 25	40	25	20	85	42,5	21	85	12,5	48	42,5
VDI-50-43-32	C3 – 50 × 32	50	32	25	100	50	26	100	16	60	50

Version: With adjustable spray nozzle and shim

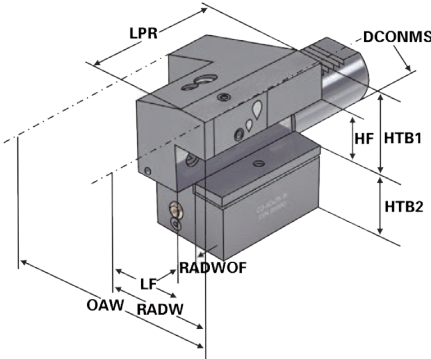


Axial toolholders form C3 overhead right
for tools with internal coolant

DIN ISO 10889
(DIN 69880)



Application:
Mainly for external machining.
For face machining.



DIN ISO 10889

C3

IC

Order no.	Size	DCONMS	HF	OAW	RADH	LF	LPR	RADWOF	HTB1	HTB2
VDI-30-43-20-IC	C3 – 30×20	30	20	70	35	17	70	10	38	35
VDI-40-43-25-IC	C3 – 40×25	40	25	85	42,5	21	85	12,5	48	42,5
VDI-50-43-32-IC	C3 – 50×32	50	32	100	50	26	100	16	60	50

Version: With adjustable spray nozzle



Coolant supply

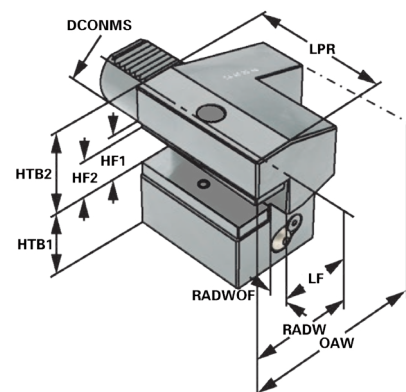
7.50

7.52

7.55



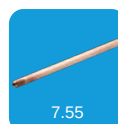
Application:
Mainly for external machining.
For face machining.


DIN ISO
10889

C4

Order no.	Size	DCONMS	HF1	HF2	OAW	RADH	LF	LPR	RADWOF	HTB1	HTB2
VDI-16-44-12	C4 – 16×12	16	12	10	43	24	13	44	5	22	20
VDI-20-44-16	C4 – 20×16	20	16	12	65	40	26	50	7	30	25
VDI-25-44-16	C4 – 25×16	25	16	12	58	33	19	55	7	30	25
VDI-30-44-20	C4 – 30×20	30	20	16	76	41	23	70	10	38	35
VDI-40-44-25	C4 – 40×25	40	25	20	90	47,5	25,5	85	12,5	48	42,5
VDI-50-44-32	C4 – 50×32	50	32	25	105	55	30,5	100	16	60	50

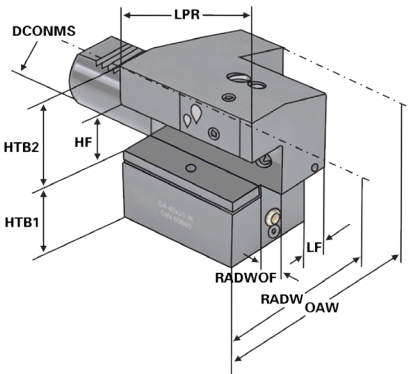
Version: With adjustable spray nozzle and shim



Axial toolholders form C4 overhead left
for tools with internal coolant



Application:
Mainly for external machining.
For face machining.



DIN ISO 10889

C4

IC

Order no.	Size	DCONMS	HF	OAW	RADH	LF	LPR	RADWOF	HTB1	HTB2
VDI-30-44-20-IC	C4 – 30×20	30	20	70	35	17	70	10	38	35
VDI-40-44-25-IC	C4 – 40×25	40	25	85	42,5	21	85	12,5	48	42,5
VDI-50-44-32-IC	C4 – 50×32	50	32	100	50	26	100	16	60	50

Version: With adjustable spray nozzle



Coolant supply

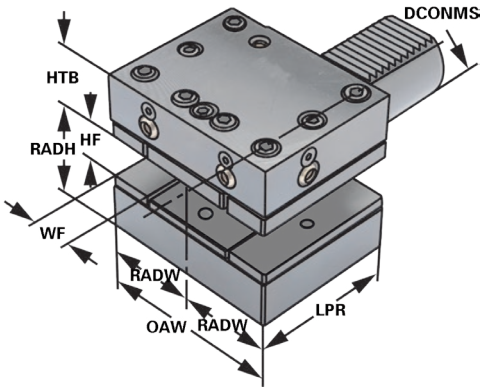
7.50

7.52

7.55



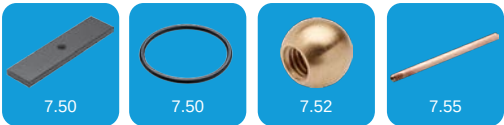
Application:
Mainly for external machining.
For face machining.



DIN ISO 10889
D1

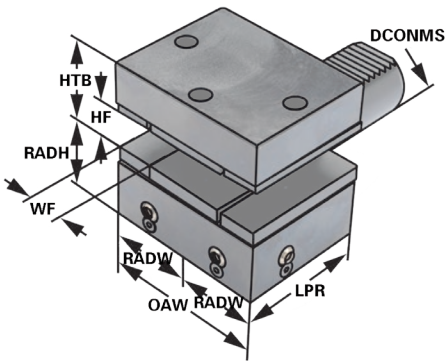
Order no.	Size	DCONMS	OAW	RADW	WF	LPR	HF	HTB	RADH
VDI-30-89-12	D1 – 30 × 20 × 60	30	76	41	18	60	20	28	38
VDI-40-89-16	D1 – 40 × 25 × 72	40	90	47,5	22	72	25	32,5	48
VDI-50-89-20	D1 – 50 × 32 × 85	50	105	55	24,5	85	32	35	60

Version: With adjustable spray nozzle and shim





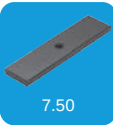
Application:
Mainly for external machining.
For face machining.



DIN ISO 10889
D2

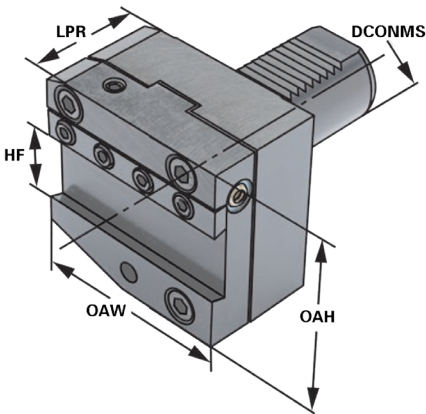
Order no.	Size	DCONMS	OAW	RADW	WF	LPR	HF	HTB	RADH
VDI-30-90-12	D2 – 30×20 x 60	30	76	41	18	60	20	35	38
VDI-40-90-16	D2 – 40×25 x 72	40	90	47,5	22	72	25	42,5	48
VDI-50-90-20	D2 – 50×32 x 85	50	105	55	24,5	85	32	50	60

Version: With adjustable spray nozzle and shim





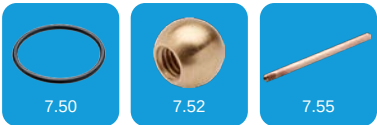
Application:
Mainly for external machining.
For face machining.



DIN ISO 10889
AR

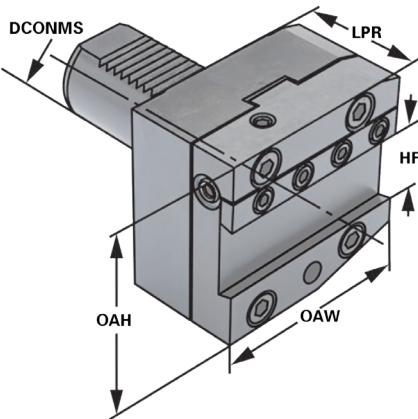
Order no.	Size	DCONMS	OAW	OAH	LPR	HF
VDI-30-65-26	AR – 30×26	30	70	70	50	26
VDI-40-65-32	AR – 40×32	40	85	80	50	32
VDI-50-65-32	AR – 50×32	50	100	80	50	32

Version: With adjustable spray nozzle





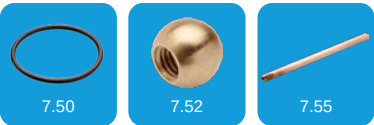
Application:
Mainly for external machining.
For face machining.



DIN ISO 10889
AL

Order no.	Size	DCONMS	OAW	OAH	LPR	HF
VDI-30-66-26	AL – 30 × 26	30	70	70	50	26
VDI-40-66-32	AL – 40 × 32	40	85	80	50	32
VDI-50-66-32	AL – 50 × 32	50	100	80	50	32

Version: With adjustable spray nozzle



Collet chucks form E3 DIN 6391 for collets

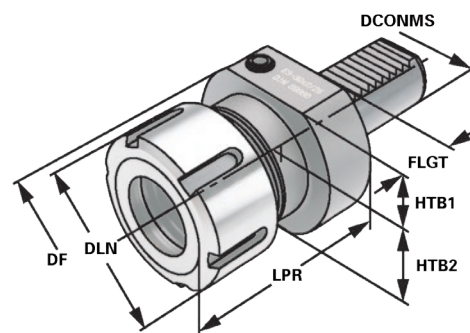
ISO 10897 (DIN 6388) OZ-system

DIN ISO 10889

(DIN 69880)



Application:
For mounting straight-shank tools in
collets.



DIN ISO
10889

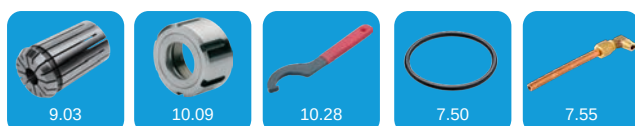
E3

ISO
10897

i
Ch. 11

Order no.	Size	DCONMS	DCONWS	Typ	DF	DLN	HTB1	HTB2	LPR	FLGT
VDI-30-01-16	E3 – 30 × 2 – 16	30	2 – 16	415E OZ 16	68	43	28	30	57	22
VDI-30-01-25	E3 – 30 × 2 – 25	30	2 – 25	462E OZ 25	68	60	28	30	75	22
VDI-40-01-25	E3 – 40 × 2 – 25	40	2 – 25	462E OZ 25	83	60	32,5	41,5	75	22
VDI-40-01-32	E3 – 40 × 3 – 32	40	3 – 32	467E OZ 32	83	72	32,5	41,5	90	22
VDI-50-01-25	E3 – 50 × 2 – 25	50	2 – 25	462E OZ 25	98	60	35	49	75	30
VDI-50-01-32	E3 – 50 × 3 – 32	50	3 – 32	467E OZ 32	98	72	35	49	90	30

Delivery: With ball bearing clamping nut



Collet chucks form E4 for collets

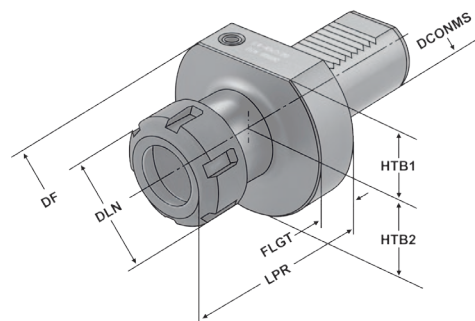
ISO 15488 (DIN 6499) ER-system

DIN ISO 10889

(DIN 69880)



Application:
For mounting straight-shank tools in
collets.


DIN ISO
10889

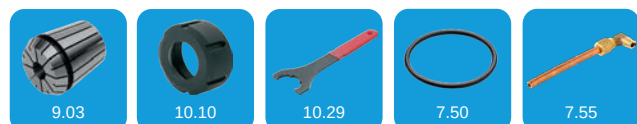
E4

ISO
15488

i
Ch. 11

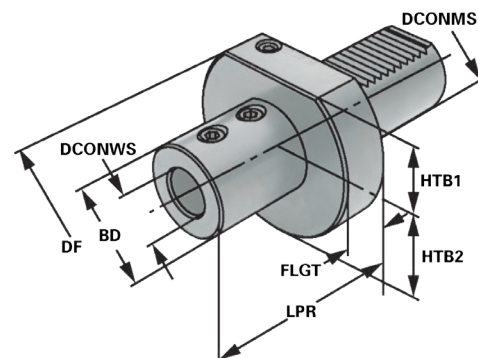
Order no.	Size	DCONMS	DCONWS	Typ	DF	DLN	HTB1	HTB2	LPR	FLGT
VDI-16-02-10	E4 – 16 × 1 – 10	16	1 – 10	426E ER 16	40	28	18	18	40	13
VDI-20-02-10	E4 – 20 × 1 – 10	20	1 – 10	426E ER 16	50	28	25	23	42	18
VDI-20-02-16	E4 – 20 × 2 – 16	20	2 – 16	430E ER 25	50	42	25	23	46	18
VDI-25-02-16	E4 – 25 × 2 – 16	25	2 – 16	430E ER 25	58	42	25	25	55	18
VDI-25-02-20	E4 – 25 × 2 – 20	25	2 – 20	470E ER 32	58	50	25	25	55	18
VDI-30-02-16	E4 – 30 × 2 – 16	30	2 – 16	430E ER 25	68	42	28	30	57	22
VDI-30-02-20	E4 – 30 × 2 – 20	30	2 – 20	470E ER 32	68	50	28	30	75	22
VDI-30-02-26	E4 – 30 × 3 – 26	30	3 – 26	472E ER 40	68	63	28	30	75	22
VDI-40-02-16	E4 – 40 × 2 – 16	40	2 – 16	430E ER 25	83	42	32,5	41,5	75	22
VDI-40-02-20	E4 – 40 × 2 – 20	40	2 – 20	470E ER 32	83	50	32,5	41,5	75	22
VDI-40-02-26	E4 – 40 × 3 – 26	40	3 – 26	472E ER 40	83	63	32,5	41,5	75	22
VDI-50-02-26	E4 – 50 × 3 – 26	50	3 – 26	472E ER 40	98	63	35	49	75	30

Delivery: With balanced clamping nut





Application:
For all solid drills with cylindrical shank
according to DIN 6595.

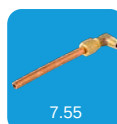

DIN ISO
10889

E1

7

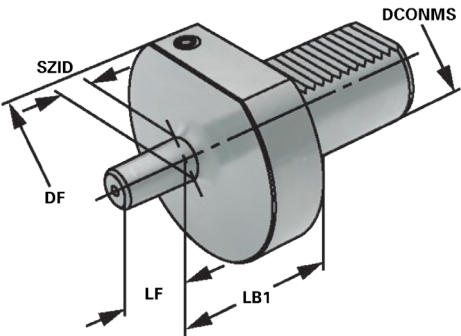
Order no.	Size	DCONMS	DCONWS	BD	DF	HTB1	HTB2	LPR	FLGT
VDI-20-51-16	E1 – 20×16	20	16	40	50	22	22	67	18
VDI-20-51-20	E1 – 20×20	20	20	40	50	22	22	67	18
VDI-20-51-25	E1 – 20×25	20	25	45	50	22	22	71	18
VDI-25-51-16	E1 – 25×16	25	16	40	58	25	25	67	18
VDI-25-51-20	E1 – 25×20	25	20	40	58	25	25	67	18
VDI-25-51-25	E1 – 25×25	25	25	45	58	25	25	71	18
VDI-25-51-32	E1 – 25×32	25	32	58	58	25	25	78	-
VDI-30-51-16	E1 – 30×16	30	16	36	68	28	30	64	22
VDI-30-51-20	E1 – 30×20	30	20	40	68	28	30	67	22
VDI-30-51-25	E1 – 30×25	30	25	45	68	28	30	71	22
VDI-30-51-32	E1 – 30×32	30	32	52	68	28	30	75	22
VDI-30-51-40	E1 – 30×40	30	40	60	68	28	30	95	22
VDI-40-51-16	E1 – 40×16	40	16	36	83	32,5	41,5	64	22
VDI-40-51-20	E1 – 40×20	40	20	40	83	32,5	41,5	67	22
VDI-40-51-25	E1 – 40×25	40	25	45	83	32,5	41,5	75	22
VDI-40-51-32	E1 – 40×32	40	32	52	83	32,5	41,5	75	22
VDI-40-51-40	E1 – 40×40	40	40	65	83	32,5	41,5	90	22
VDI-50-51-16	E1 – 50×16	50	16	40	98	35	49	66	30
VDI-50-51-20	E1 – 50×20	50	20	40	98	35	49	66	30
VDI-50-51-25	E1 – 50×25	50	25	45	98	35	49	80	30
VDI-50-51-32	E1 – 50×32	50	32	52	98	35	49	80	30
VDI-50-51-40	E1 – 50×40	50	40	65	98	35	49	90	30
VDI-50-51-50	E1 – 50×50	50	50	75	98	35	49	100	30

Delivery: With clamping screws





Application:
For mounting drill chucks.



DIN ISO
10889

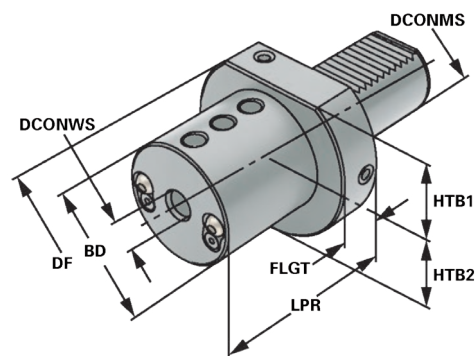
DIN
238

Order no.	Size	DCONMS	SZID	DF	LB1	LF
VDI-30-14-16	30 – B16	30	B16	68	27	24
VDI-40-14-16	40 – B16	40	B16	83	27	24
VDI-50-14-16	50 – B16	50	B16	98	35	24





Application:
For internal machining with boring bars.

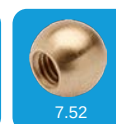
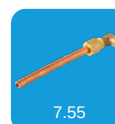

DIN ISO
10889

E2

Order no.	Size	DCONMS	DCONWS	DF	BD	HTB1	HTB2	LPR	FLGT
VDI-16-52-06	E2 – 16×06	16	6	40	32	18	20	44	13
VDI-16-52-08	E2 – 16×08	16	8	40	32	18	20	44	13
VDI-16-52-10	E2 – 16×10	16	10	40	32	18	20	44	13
VDI-16-52-12	E2 – 16×12	16	12	40	32	18	20	44	13
VDI-16-52-16	E2 – 16×16	16	16	40	32	18	20	44	13
VDI-20-52-08	E2 – 20×08	20	8	50	40	23	25	50	18
VDI-20-52-10	E2 – 20×10	20	10	50	40	23	25	50	18
VDI-20-52-12	E2 – 20×12	20	12	50	40	23	25	50	18
VDI-20-52-16	E2 – 20×16	20	16	50	40	23	25	50	18
VDI-20-52-20	E2 – 20×20	20	20	50	40	23	25	50	18
VDI-25-52-08	E2 – 25×08	25	8	58	40	25	25	50	18
VDI-25-52-10	E2 – 25×10	25	10	58	40	25	25	50	18
VDI-25-52-12	E2 – 25×12	25	12	58	40	25	25	50	18
VDI-25-52-16	E2 – 25×16	25	16	58	40	25	25	50	18
VDI-25-52-20	E2 – 25×20	25	20	58	58	25	25	50	–
VDI-25-52-25	E2 – 25×25	25	25	58	58	25	25	60	–

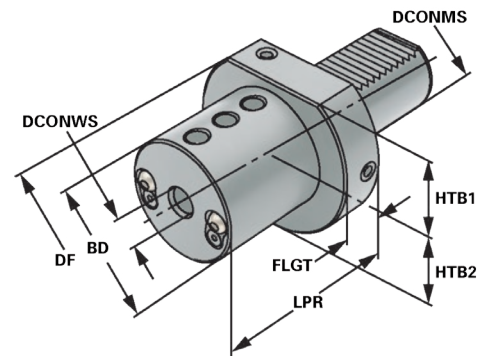
Version: With adjustable spray nozzles

Delivery: With clamping screws





Application:
For internal machining with boring bars.

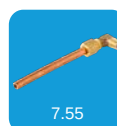

DIN ISO
10889

E2

Order no.	Size	DCONMS	DCONWS	DF	BD	HTB1	HTB2	LPR	FLGT
VDI-30-52-08	E2 – 30×08	30	8	68	55	28	30	60	22
VDI-30-52-10	E2 – 30×10	30	10	68	55	28	30	60	22
VDI-30-52-12	E2 – 30×12	30	12	68	55	28	30	60	22
VDI-30-52-16	E2 – 30×16	30	16	68	55	28	30	60	22
VDI-30-52-20	E2 – 30×20	30	20	68	55	28	30	60	22
VDI-30-52-25	E2 – 30×25	30	25	68	55	28	30	60	22
VDI-30-52-32	E2 – 30×32	30	32	68	68	28	30	75	–
VDI-40-52-08	E2 – 40×08	40	8	83	55	32,5	41,5	75	22
VDI-40-52-10	E2 – 40×10	40	10	83	55	32,5	41,5	75	22
VDI-40-52-12	E2 – 40×12	40	12	83	55	32,5	41,5	75	22
VDI-40-52-16	E2 – 40×16	40	16	83	55	32,5	41,5	75	22
VDI-40-52-20	E2 – 40×20	40	20	83	55	32,5	41,5	75	22
VDI-40-52-25	E2 – 40×25	40	25	83	55	32,5	41,5	75	22
VDI-40-52-32	E2 – 40×32	40	32	83	83	32,5	41,5	75	–
VDI-40-52-40	E2 – 40×40	40	40	83	83	32,5	41,5	90	–
VDI-50-52-12	E2 – 50×12	50	12	98	68	35	49	90	30
VDI-50-52-16	E2 – 50×16	50	16	98	68	35	49	90	30
VDI-50-52-20	E2 – 50×20	50	20	98	68	35	49	90	30
VDI-50-52-25	E2 – 50×25	50	25	98	68	35	49	90	30
VDI-50-52-32	E2 – 50×32	50	32	98	68	35	49	90	30
VDI-50-52-40	E2 – 50×40	50	40	98	98	35	49	90	–
VDI-50-52-50	E2 – 50×50	50	50	98	98	35	49	100	–

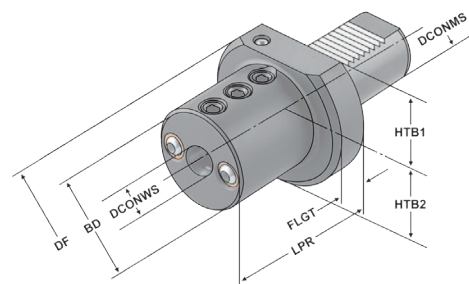
Version: With adjustable spray nozzles

Delivery: With clamping screws





Application:
For internal machining with boring bars.



DIN ISO
10889

E2

Order no.	Size	DCONMS	DCONWS	DF	BD	HTB1	HTB2	LPR	FLGT
VDI-30-53-10	E2 – 30×10	30	10	68	50	28	30	60	22
VDI-30-53-12	E2 – 30×12	30	12	68	50	28	30	60	22
VDI-30-53-16	E2 – 30×16	30	16	68	55	28	30	60	22
VDI-30-53-20	E2 – 30×20	30	20	68	55	28	30	60	22
VDI-30-53-25	E2 – 30×25	30	25	68	55	28	30	60	22
VDI-30-53-32	E2 – 30×32	30	32	68	68	28	30	65	–
VDI-40-53-08	E2 – 40×08	40	8	83	50	32,5	41,5	75	22
VDI-40-53-10	E2 – 40×10	40	10	83	50	32,5	41,5	75	22
VDI-40-53-12	E2 – 40×12	40	12	83	50	32,5	41,5	75	22
VDI-40-53-16	E2 – 40×16	40	16	83	55	32,5	41,5	75	22
VDI-40-53-20	E2 – 40×20	40	20	83	55	32,5	41,5	75	22
VDI-40-53-25	E2 – 40×25	40	25	83	60	32,5	41,5	75	22
VDI-40-53-32	E2 – 40×32	40	32	83	72	32,5	41,5	75	–
VDI-40-53-40	E2 – 40×40	40	40	83	83	32,5	41,5	85	–

7

Version: With adjustable spray nozzles

Delivery: With clamping screws



Clamping possible on both sides

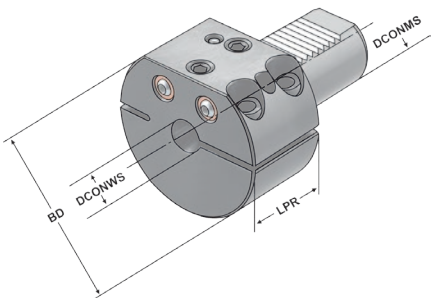


Boring bar holders form E2 slotted

DIN ISO 10889
(DIN 69880)



Application:
For internal machining with boring bars.



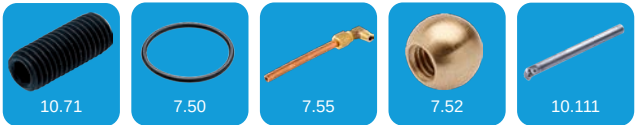
DIN ISO 10889
E2

Order no.	Size	DCONMS	DCONWS	BD	LPR
VDI-30-55-16	E2 – 30 × 16	30	16	68	42
VDI-30-55-20	E2 – 30 × 20	30	20	68	42
VDI-40-55-16	E2 – 40 × 16	40	16	83	46
VDI-40-55-20	E2 – 40 × 20	40	20	83	46
VDI-40-55-25	E2 – 40 × 25	40	25	83	46
VDI-40-55-32	E2 – 40 × 32	40	32	83	90

Version: With adjustable spray nozzles

Delivery: With clamping screws

7

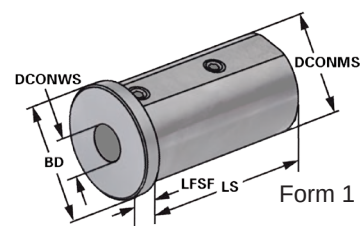
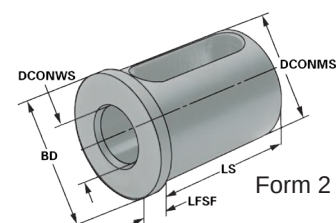


Reduction sleeves for boring bar holders form E2
(DIN 69880)

Form 1

Form 2
H7


Application:
Reduction for mounting tools with straight-shank, such as precision boring bars.


Form 1

Form 2

Order no.	Form	DCONMS	DCONWS	LS	LFSF	BD	OAL
RS-25-06	1	25	6	46	5	29	51
RS-25-08	1	25	8	46	5	29	51
RS-25-10	1	25	10	46	5	29	51
RS-25-12	1	25	12	46	5	29	51
RS-25-14	1	25	14	46	5	29	51
RS-25-16	2	25	16	46	5	29	51
RS-25-18	2	25	18	46	5	29	51
RS-25-20	2	25	20	46	5	29	51
RS-32-06	1	32	6	55	5	36	60
RS-32-08	1	32	8	55	5	36	60
RS-32-10	1	32	10	55	5	36	60
RS-32-12	1	32	12	55	5	36	60
RS-32-14	1	32	14	55	5	36	60
RS-32-16	2	32	16	55	5	36	60
RS-32-18	2	32	18	55	5	36	60
RS-32-20	2	32	20	55	5	36	60
RS-32-25	2	32	25	55	5	36	60
RS-40-06	1	40	6	71	5	44	76
RS-40-08	1	40	8	71	5	44	76
RS-40-10	1	40	10	71	5	44	76
RS-40-12	1	40	12	71	5	44	76
RS-40-14	1	40	14	71	5	44	76
RS-40-16	2	40	16	71	5	44	76
RS-40-18	2	40	18	71	5	44	76
RS-40-20	2	40	20	71	5	44	76
RS-40-25	2	40	25	71	5	44	76
RS-40-32	2	40	32	71	5	44	76

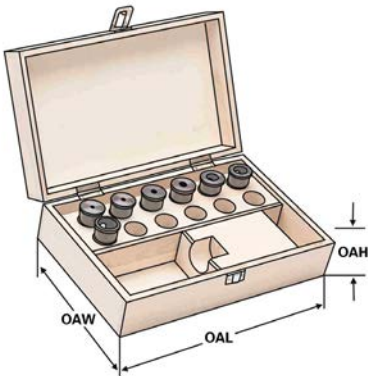
Note: Suitable for through-coolant (not slotted)



10.111



Application:
Reduction for mounting tools with straight-shank, such as precision boring bars.

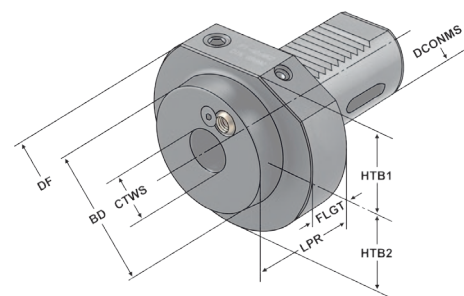


Order no.	Size	OAL	OAW	OAH
RSS-25-S	Ø 25 Set 6 St. 06-08-10-12-16-20	360	235	70
RSS-32-S	Ø 32 Set 7 St. 06-08-10-12-16-20-25	360	235	70
RSS-40-S	Ø 40 Set 8 St. 06-08-10-12-16-20-25-32	360	235	70





Application:
For holding tools with Morse taper shank
and tang according to DIN 228-1 form B.


DIN ISO 10889
F1

Order no.	Size	DCONMS	CTWS	BD	DF	LPR	FLGT	HTB1	HTB2
VDI-16-07-01	F1 – 16×MK 1	16	1	32	40	32	13	18	18
VDI-20-07-01	F1 – 20×MK 1	20	1	–	50	23	–	22	23
VDI-20-07-02	F1 – 20×MK 2	20	2	40	50	90	–	22	23
VDI-25-07-01	F1 – 25×MK 1	25	1	–	58	23	–	25	25
VDI-25-07-02	F1 – 25×MK 2	25	2	–	58	27	–	25	25
VDI-30-07-01	F1 – 30×MK 1	30	1	–	68	27	–	28	30
VDI-30-07-02	F1 – 30×MK 2	30	2	–	68	27	–	28	30
VDI-30-07-03	F1 – 30×MK 3	30	3	58	68	75	22	28	30
VDI-40-07-02	F1 – 40×MK 2	40	2	55	83	36	22	32,5	50,5
VDI-40-07-03	F1 – 40×MK 3	40	3	55	83	36	22	32,5	50,5
VDI-40-07-04	F1 – 40×MK 4	40	4	68	83	80	22	32,5	50,5
VDI-50-07-02	F1 – 50×MK 2	50	2	55	98	36	30	35	49
VDI-50-07-03	F1 – 50×MK 3	50	3	58	98	36	30	35	49
VDI-50-07-04	F1 – 50×MK 4	50	4	68	98	50	30	35	49
VDI-50-07-05	F1 – 50×MK 5	50	5	98	98	168	–	35	49

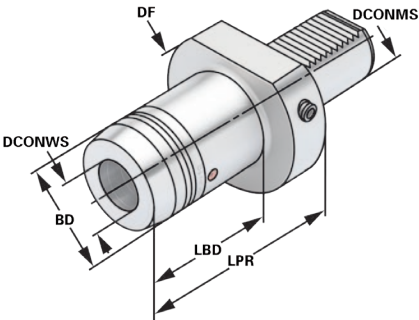
Version: With adjustable spray nozzles

Note: DCONMS 30, 40 and 50 are supplied with a ball spray nozzle.





Application:
For mounting straight-shank tools acc.
DIN 1835 form A+B+E and DIN 6535 form
HA+HB+HE (larger than Ø 20 mm only with
reduction sleeve).



DIN ISO
10889

Ch. 11

Order no.	Size	DCONMS	DCONWS	BD	LPR	LBD	DF	LSCX	ADJR- GA
VDI-30-H12	30 - 12	30	12	32	54	38	68	47	10
VDI-30-H20	30 - 20	30	20	42	89	73	68	52	10
VDI-40-H12	40 - 12	40	12	32	60	38	83	47	10
VDI-40-H20	40 - 20	40	20	42	95	73	83	52	10

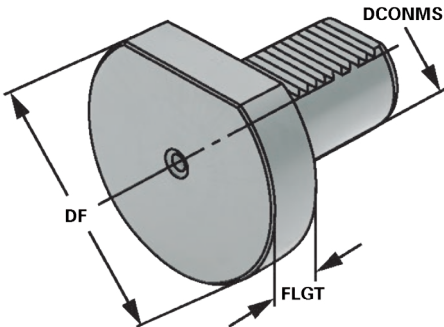
LSCX = Clamping depth, max. ADJRGA = Length adjustment range, max.

Delivery: Without wrench





Application:
For sealing the spindle of the turret.



DIN ISO 10889

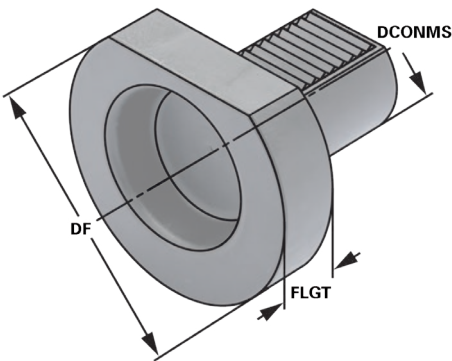
Z2

Order no.	Size	DCONMS	DF	FLGT
VDI-16-29-13	Z2 – 16×13	16	40	13
VDI-20-29-16	Z2 – 20×16	20	50	16
VDI-25-29-16	Z2 – 25×16	25	58	16
VDI-30-29-20	Z2 – 30×16	30	68	16
VDI-40-29-20	Z2 – 40×20	40	83	20
VDI-50-29-20	Z2 – 50×20	50	98	20





Application:
For sealing the spindle of the turret.

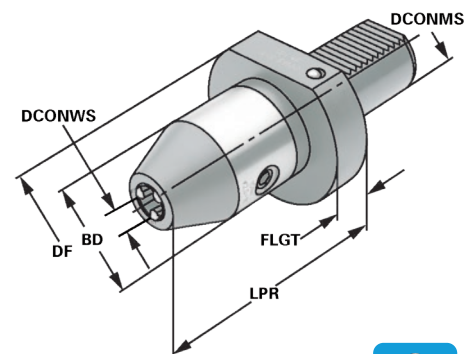


DIN ISO 10889
Z2

Order no.	Size	DCONMS	DF	FLGT
VDI-16-30-13	Z2 – 16×13	16	40	13
VDI-20-30-16	Z2 – 20×16	20	50	16
VDI-25-30-16	Z2 – 25×16	25	58	16
VDI-30-30-16	Z2 – 30×16	30	68	16
VDI-40-30-20	Z2 – 40×20	40	83	20
VDI-50-30-20	Z2 – 50×20	50	98	20



Application:
For mounting tools with straight shank.



Order no.	DCONMS	DCONWS Capacity	BD	DF	LPR	FLGT	DRVS
VDI-20-15-13	20	1,0 – 13	50	50	90	17	6
VDI-30-15-13	30	1,0 – 13	50	68	93	22	6
VDI-30-15-16	30	2,5 – 16	50	68	98	22	6
VDI-40-15-13	40	1,0 – 13	50	83	93	22	6
VDI-40-15-16	40	2,5 – 16	50	83	98	22	6
VDI-50-15-13	50	1,0 – 13	50	98	101	30	6
VDI-50-15-16	50	2,5 – 16	50	98	106	30	6

Note:

High precision and accurate concentricity of ≤ 0.03 mm. No automatic slackening of the clamping force while machining with either clockwise or counter clockwise rotation. Clamping and releasing effected by means of an Allen wrench.

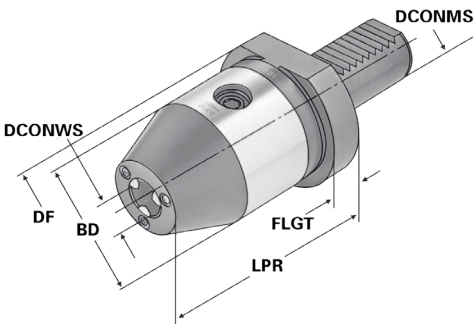
Delivery:

Without wrench





Application:
For mounting tools with straight shanks.



DIN ISO 10889

$\leq 30\mu\text{m}$

Ch. 11

Order no.	DCONMS	DCONWS Capacity	BD	DF	LPR	FLGT	DRVS
VDI-16-15-10-EC	16	1,0 – 13	57	40	87	5	6
VDI-20-15-10-EC	20	1,0 – 13	57	50	87	5	6
VDI-25-15-13-EC	25	1,0 – 13	57	58	87	15	6
VDI-30-15-13-EC	30	1,0 – 13	57	68	87	22	6
VDI-30-15-16-EC	30	2,5 – 16	57	68	92	22	6
VDI-40-15-13-EC	40	1,0 – 13	57	83	87	22	6
VDI-40-15-16-EC	40	2,5 – 16	57	83	92	22	6
VDI-50-15-13-EC	50	1,0 – 13	57	98	92	20	6
VDI-50-15-16-EC	50	2,5 – 16	57	98	96,9	20	6

Note: *High precision and accurate concentricity of $\leq 0.03\text{ mm}$. No automatic slackening of the clamping force while machining with either clockwise or counter clockwise rotation. Clamping and releasing effected by means of an Allen wrench.*

Delivery: Without wrench

10.27

7.50

10.78

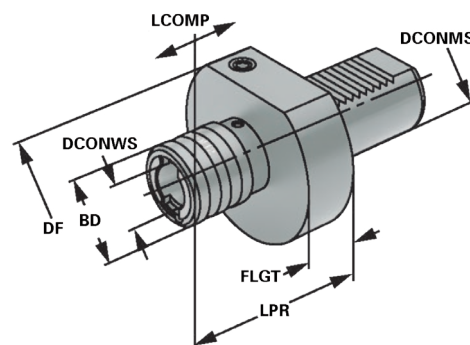
Quick change tapping chucks with length compensation on compression and expansion

DIN ISO 10889

(DIN 69880)



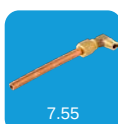
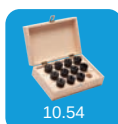
Application:
For the chucking of Quick change
taps
for threading taps.


DIN ISO
10889

i
Ch. 11

Order no.	DCONMS	Capacity	SZID	DF	LPR	BD	DCONWS	LCOMP	FLGT
VDI-20-16-12	20	M3 – M14	1	50	67	38	19	7	17
VDI-25-16-12	25	M3 – M14	1	58	55	38	19	7	18
VDI-30-16-12	30	M3 – M14	1	68	58	36	19	7	16
VDI-30-16-20	30	M5 – M22	2	68	81	53	31	12	16
VDI-40-16-12	40	M3 – M14	1	83	58	36	19	7	16
VDI-40-16-20	40	M5 – M22	2	83	81	53	31	12	16
VDI-50-16-12	50	M3 – M14	1	98	56	36	19	7	30
VDI-50-16-20	50	M5 – M22	2	98	80	53	31	12	30

7

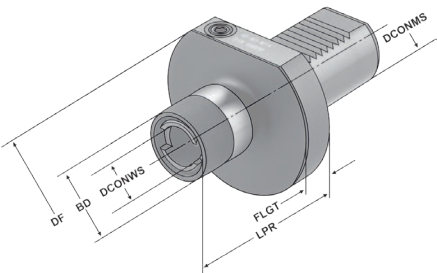


Quick change tapping chucks without length compensation
on compression and expansion

DIN ISO 10889
(DIN 69880)



Application:
On machining centres with synchro-
nised spindles. For the chucking of
Quick change taps for threading taps.



DIN ISO 10889

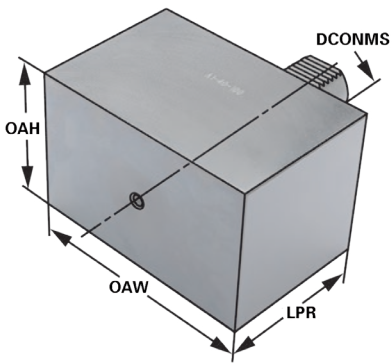
Ch. 11

Order no.	DCONMS	Capacity	SZID	DF	LPR	BD	DCONWS	FLGT
VDI-30-16-12-1	30	M3 – M14	1	68	55	36	19	16
VDI-30-16-20-1	30	M5 – M22	2	68	77	53	31	16
VDI-40-16-12-1	40	M3 – M14	1	83	55	36	19	16
VDI-40-16-20-1	40	M5 – M22	2	83	77	53	31	16





Application:
For the manufacturing of special tools.



DIN ISO 10889

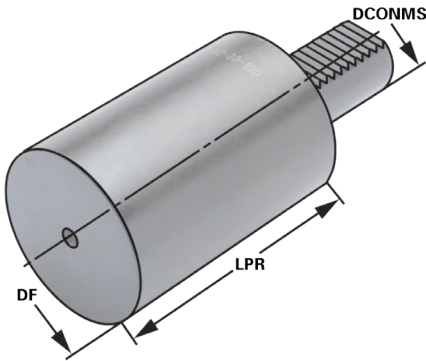
A1

Order no.	Size	DCONMS	LPR	OAH	OAW
VDI-16-17-12	A1 – 16 - 78 - 44 - 44	16	44	44	78
VDI-20-17-16	A1 – 20 - 100 - 60 - 65	20	65	60	100
VDI-25-17-16	A1 – 25 - 100 - 60 - 75	25	75	60	100
VDI-30-17-20	A1 – 30 - 130 - 76 - 85	30	85	76	130
VDI-40-17-25	A1 – 40 - 151 - 96 - 100	40	100	96	151
VDI-50-17-32	A1 – 50 - 160 - 120 - 125	50	125	120	160





Application:
For the manufacturing of special tools.



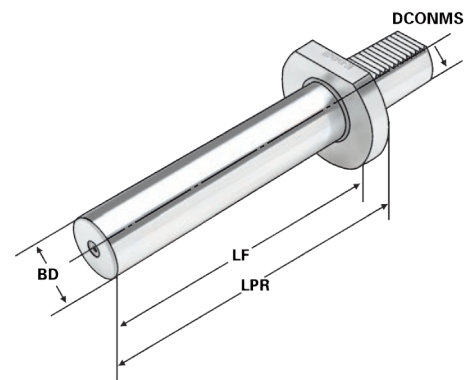
DIN ISO
10889

A2

Order no.	Size	DCONMS	DF	LPR
VDI-16-19-12	A2 - 16 - 40 - 60	16	40	60
VDI-20-19-16	A2 - 20 - 50 - 70	20	50	70
VDI-25-19-16	A2 - 25 - 58 - 80	25	58	80
VDI-25-19-17	A2 - 25 - 58 - 200	25	58	200
VDI-30-19-20	A2 - 30 - 68 - 100	30	68	100
VDI-30-19-21	A2 - 30 - 68 - 240	30	68	240
VDI-40-19-20	A2 - 40 - 83 - 120	40	83	120
VDI-40-19-21	A2 - 40 - 83 - 320	40	83	320
VDI-50-19-32	A2 - 50 - 98 - 135	50	98	135
VDI-50-19-33	A2 - 50 - 98 - 400	50	98	400



Application:
For the inspection of machine tools according to ISO recommendation R230 or for testing the tool spindle.



Order no.	Size	DCONMS	BD	LPR	LF
VDI-16-18-30	16 - 30 - 120	16	30	120	107
VDI-20-18-40	20 - 40 - 150	20	40	150	132
VDI-25-18-40	25 - 40 - 150	25	40	150	135
VDI-30-18-40	30 - 40 - 200	30	40	230	214
VDI-40-18-40	40 - 40 - 200	40	40	200	184
VDI-50-18-40	50 - 40 - 200	50	40	200	185

Delivery: Delivery with test certificate

Wooden box for test arbors



Application:
For the storage of test arbors.



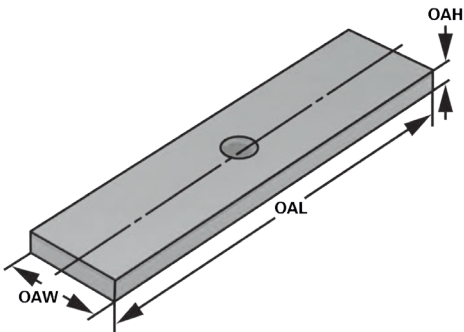
Order no.	Size	for cones
WB-18	460×130×115	VDI 16 / 20 / 25 / 30 / 40 / 50

Shims

DIN ISO 10889
(DIN 69880)



Application:
Shims for VDI toolholder

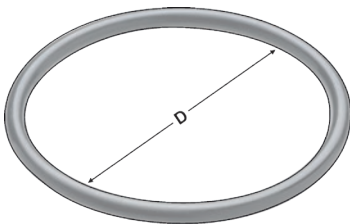


Order no.	OAW	OAH	OAL
S-20-16-01	14	4	54
S-25-16-01	13,5	4	49
S-30-20-01	16	4	69
S-40-25-01	20	5	84
S-50-32-01	23	7	99

O-ring



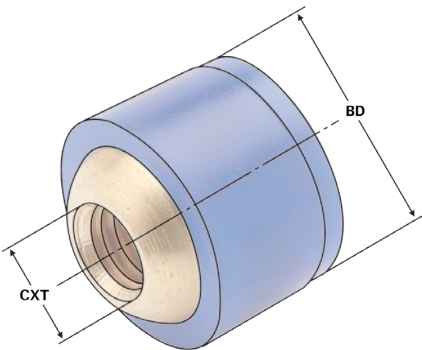
Application:
O-Rings for sealing VDI shanks



Order no.	D
Z.169.RING	16
Z.209.RING	20
Z.259.RING	25
Z.309.RING	30
Z.409.RING	40
Z.509.RING	50



Application:
Sprayer nozzles for cooling for VDI toolholders



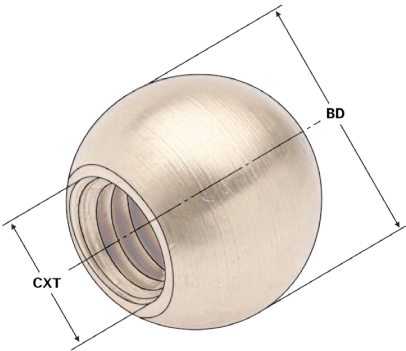
Order no.	BD	CXT
AC-01-08	8	-
AC-01-10	10	M4
AC-01-12	12	M5
AC-01-14	14	M6

Ball sprayer nozzles (brass)
 DIN 69880 Part 8

DIN ISO 10889
 (DIN 69880)



Application:
 Sprayer nozzles for cooling for VDI toolholders



Order no.	BD	CXT	VDI
AC-01-08-ME	8	M5	16
AC-01-10-ME	10	M6	16 + 25 + 30 + 40
AC-01-12-ME	12	M6	50
AC-01-14-ME	14	M8	-

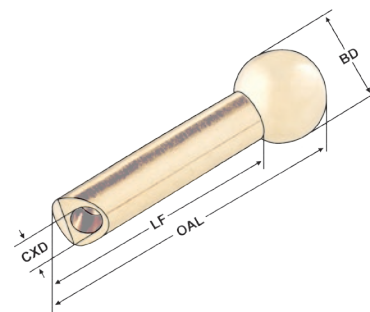
Ball sprayer nozzles with coolant tube (brass)

DIN ISO 10889

(DIN 69880)



Application:
Sprayer nozzles for cooling for VDI toolholders



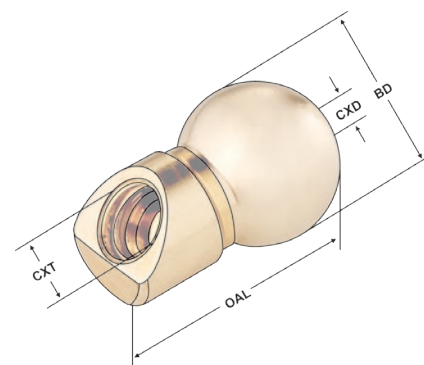
Order no.	BD	OAL	CXD	LF
Z-VDI-100-010	10	35	3	26
Z-VDI-100-012	12	38	4	28
Z-VDI-100-014	14	40	4	28

7

Ball sprayer nozzles (brass)



Application:
Sprayer nozzles for cooling for VDI toolholders



Order no.	BD	OAL	CXD	CXT
Z-VDI-200-010	10	15,8	5	M5
Z-VDI-200-012	12	19	5,5	M6
Z-VDI-200-014	14	19	6	M6

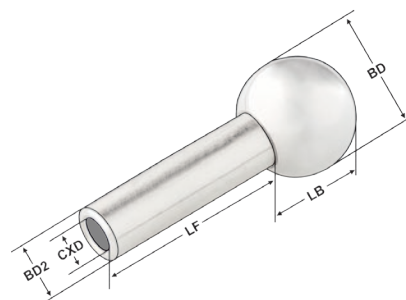
Ball sprayer nozzles with coolant tube

DIN ISO 10889

(DIN 69880)



Application:
Sprayer nozzles for cooling for VDI toolholders



Order no.	BD	LB	LF	BD2	CXD
Z-VDI-300-010	10	8,5	10	6	4
Z-VDI-300-020	10	8,5	20	6	4
Z-VDI-300-040	10	8,5	40	6	4
Z-VDI-310-010	12	10,5	10	6	4
Z-VDI-310-020	12	10,5	20	6	4
Z-VDI-310-040	12	10,5	40	6	4

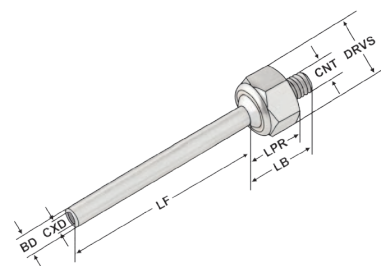
Material: *Stainless steel AISI 304*

7

Screw-in coolant nozzle



Application:
Sprayer nozzles for cooling for VDI toolholders



Order no.	CXD	BD	CNT	DRVS	LB	LF	LPR
Z-VDI-400-015	3	5	M5	14	16	15	10
Z-VDI-400-050	3	5	M5	14	16	50	10
Z-VDI-400-100	3	5	M5	14	16	100	10
Z-VDI-410-015	3	5	M6	14	16	15	10
Z-VDI-410-050	3	5	M6	14	16	50	10
Z-VDI-410-100	3	5	M6	14	16	100	10
Z-VDI-420-015	3	5	1/8"	14	16	15	10

Material: *Stainless steel AISI 304*

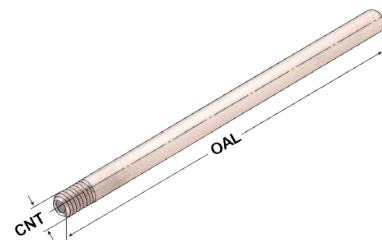
Coolant tube (copper)

DIN ISO 10889

(DIN 69880)



Application:
Sprayer nozzles for cooling for VDI toolholders



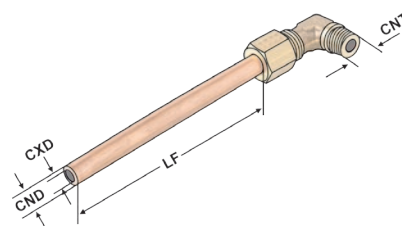
Order no.	OAL	CNT	Ø
Z-VDI-700-200	100	M5	Ø 3mm
Z-VDI-700-100	100	M6	Ø 3mm

7

Coolant tube (brass) incl. 1/8" adapter



Application:
Coolant tube for cooling for VDI toolholders



Order no.	CND	CNT	CXD	LF
Z-VDI-K	8	1/8"	4,5	150

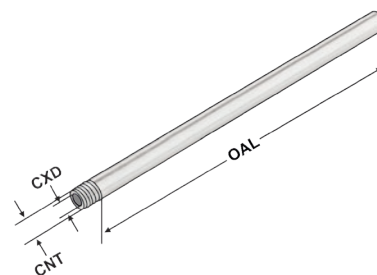
Coolant tube

DIN ISO 10889

(DIN 69880)



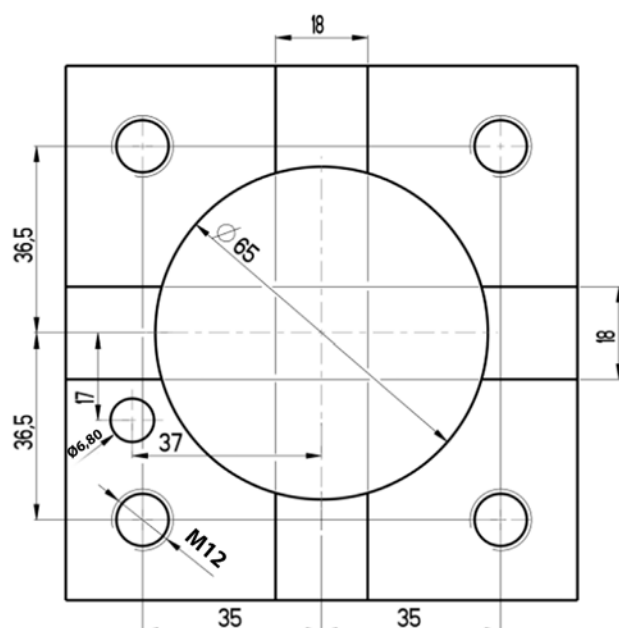
Application:
Sprayer nozzles for cooling for VDI toolholders



Order no.	CNT	CXD	OAL
Z-VDI-710-015	M4	2	15
Z-VDI-710-100	M4	2	100
Z-VDI-710-200	M4	2	200
Z-VDI-711-015	M5	3	15
Z-VDI-711-100	M5	3	100
Z-VDI-711-200	M5	3	200
Z-VDI-712-015	M6	4	15
Z-VDI-712-100	M6	4	100
Z-VDI-712-200	M6	4	200

Material: Stainless steel AISI 304

Static tools for CNC lathes with HAAS/Doosan BMT interface

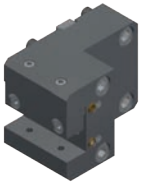

7

BMT	BMT65
Doosan	PUMA 2100/2600 (M,LM,MS,LMS) PUMA 2100/2600 (Y,LY,SY,LSY) PUMA 300 (M,MS,MB,MC) PUMA 3100 (M,LM,LY,XLM,XLY,ULM,ULY) PUMA MX2000/2500 PUMA MX2600 (T,ST), PUMA TT2500 (MS/SY) PUMA V400 (M) PUMA VT450 (M,2SP)
Haas	ST 20Y, ST 35Y, DS-30Y
Hwacheon	Cutex-240/Hi-TECH200/T2-Series Hi-TECH300/400 VT-450
Hyundai	L2100SY SKT-200/250TTSY SKT-250/300 (L,M) SKT-250/300 (MS)
Maxsin	BMT65
SMEC/Samsung	SL 25/SL 35
Tongtai	TMT2000
Victor	Vturn-A26 (YSCM)

ADINTMS (Adaptive interface machine direction): *BMT driven turret interface -size BT65A*

Index

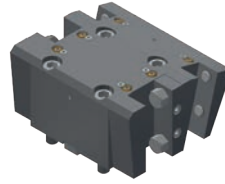
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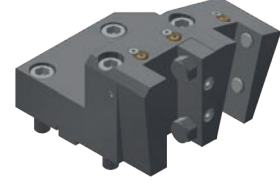
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7.61



7.62



7.63



7.64



7.65



7.66

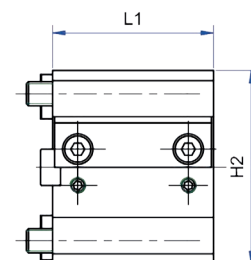
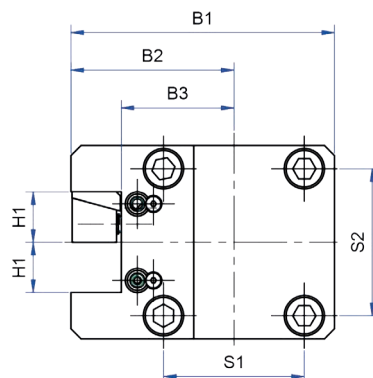
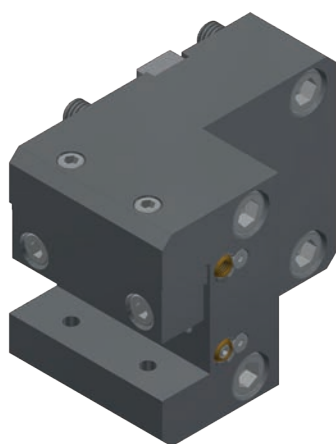


7.67



7.68



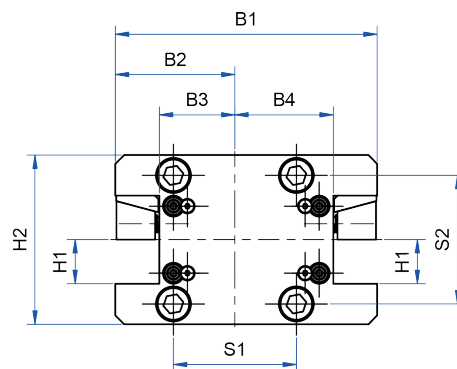
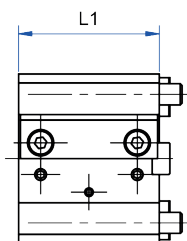
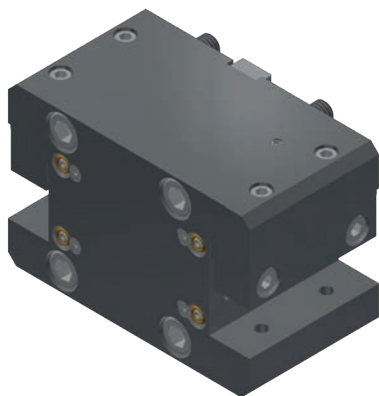
Toolholder with square-longitudinal receptacle doubled


Order no.	H1	H2	B1	B2	B3	L1	S1	S2
BH-102-065-25-755	25	96	131	81	56	80	70	73

7

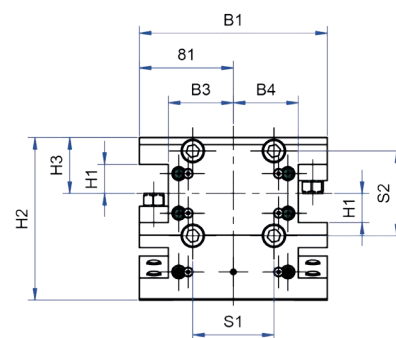
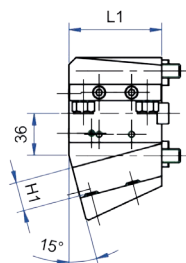
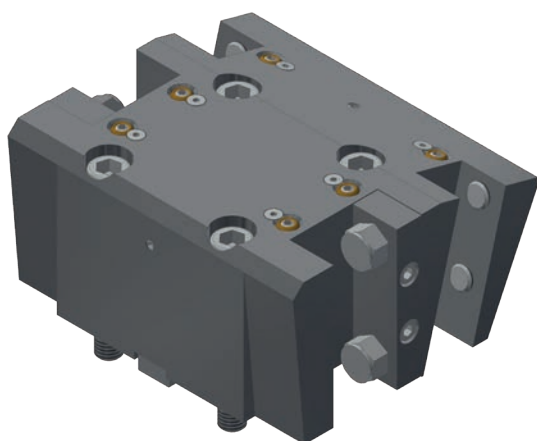
BMT	BMT65
Doosan	PUMA 2100/2600 (M,LM,MS,LMS) PUMA 2100/2600 (Y,LY,SY,LSY) PUMA 300 (M,MS,MB,MC) PUMA 3100 (M,LM,LY,XLM,XLY,ULM,ULY) PUMA MX2000/2500 PUMA MX2600 (T,ST), PUMA TT2500 (MS/SY) PUMA V400 (M) PUMA VT450 (M,2SP)
Haas	ST 20Y, ST 35Y, DS-30Y
Hwacheon	Cutex-240/HI-TECH200/T2-Series HI-TECH300/400 VT-450
Hyundai	L2100SY SKT-200/250TTSY SKT-250/300 (L,M) SKT-250/300 (MS)
Maxsin	BMT65
SMEC/Samsung	SL 25/SL 35
Tongtai	TMT2000
Victor	Vturn-A26 (YSCM)

Toolholder with square-multi-receptacle



Order no.	H1	H2	B1	B2	B3	B4	L1	S1	S2
BH-103-065-25-755	25	96	149	68	43	56	80	70	73

BMT	BMT65
Doosan	PUMA 2100/2600 (M,LM,MS,LMS) PUMA 2100/2600 (Y,LY,SY,LSY) PUMA 300 (M,MS,MB,MC) PUMA 3100 (M,LM,LY,XLM,XLY,ULM,ULY) PUMA MX2000/2500 PUMA MX2600 (T,ST), PUMA TT2500 (MS/SY) PUMA V400 (M) PUMA VT450 (M,2SP)
Haas	ST 20Y, ST 35Y, DS-30Y
Hwacheon	Cutex-240/HI-TECH200/T2-Series HI-TECH300/400 VT-450
Hyundai	L2100SY SKT-200/250TTSY SKT-250/300 (L,M) SKT-250/300 (MS)
Maxsin	BMT65
SMEC/Samsung	SL 25/SL 35
Tongtai	TMT2000
Victor	Vturn-A26 (YSCM)

Toolholder with square-multi-receptacle


Doosan

HAAS

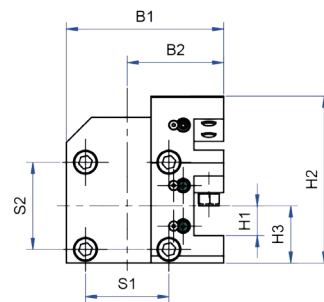
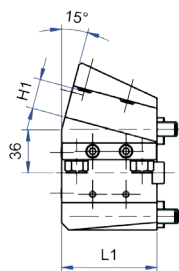
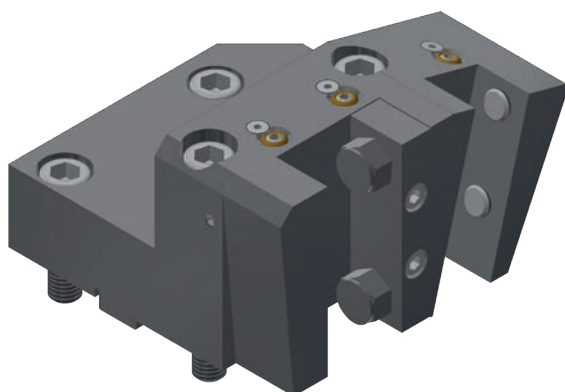
BMT
65


Order no.	H1	H2	H3	B1	B2	B3	B4	L1	S1	S2
BH-103-065-25-756	25	139,873	48	162	81	56	56	80	70	73

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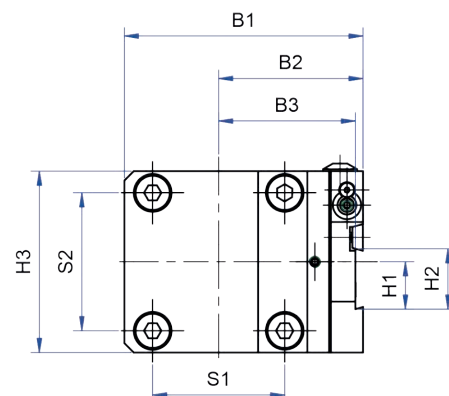
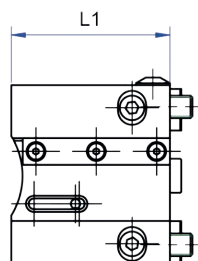
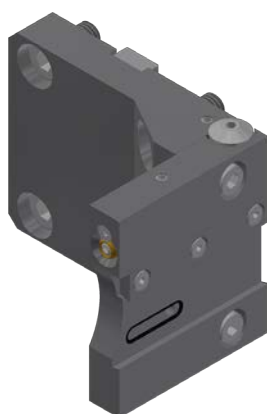
BMT	BMT65
Doosan	PUMA 2100/2600 (M,LM,MS,LMS) PUMA 2100/2600 (Y,LY,SY,LSY) PUMA 300 (M,MS,MB,MC) PUMA 3100 (M,LM,LY,XLM,XLY,ULM,ULY) PUMA MX2000/2500 PUMA MX2600 (T,ST), PUMA TT2500 (MS/SY) PUMA V400 (M) PUMA VT450 (M,2SP)
Haas	ST 20Y, ST 35Y, DS-30Y
Hwacheon	Cutex-240/HI-TECH200/T2-Series HI-TECH300/400 VT-450
Hyundai	L2100SY SKT-200/250TTSY SKT-250/300 (L,M) SKT-250/300 (MS)
Maxsin	BMT65
SMEC/Samsung	SL 25/SL 35
Tongtai	TMT2000
Victor	Vturn-A26 (YSCM)

Toolholder with square-multi-receptacle



Order no.	H1	H2	H3	B1	B2	L1	S1	S2
BH-103-065-25-753	25	139,873	48	132	81	80	70	73

BMT	BMT65
Doosan	PUMA 2100/2600 (M,LM,MS,LMS) PUMA 2100/2600 (Y,LY,SY,LSY) PUMA 300 (M,MS,MB,MC) PUMA 3100 (M,LM,LY,XLM,XLY,ULM,ULY) PUMA MX2000/2500 PUMA MX2600 (T,ST), PUMA TT2500 (MS/SY) PUMA V400 (M) PUMA VT450 (M,2SP)
Haas	ST 20Y, ST 35Y, DS-30Y
Hwacheon	Cutex-240/HI-TECH200/T2-Series HI-TECH300/400 VT-450
Hyundai	L2100SY SKT-200/250TTSY SKT-250/300 (L,M) SKT-250/300 (MS)
Maxsin	BMT65
SMEC/Samsung	SL 25/SL 35
Tongtai	TMT2000
Victor	Vturn-A26 (YSCM)

Front cut-off toolholder


Doosan

HAAS

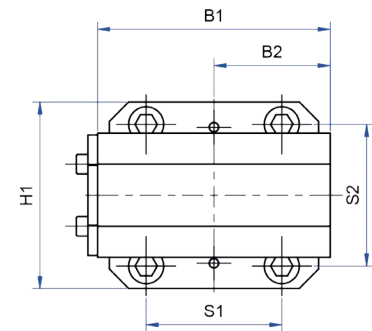
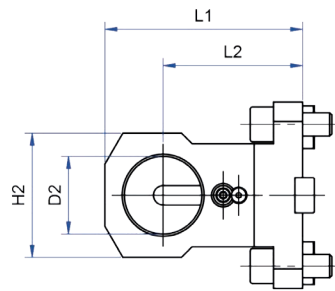
BMT
65


Order no.	H1	H2	H3	B1	B2	B3	L1	S1	S2
BH-105-065-26-753	25	32	96	126,5	76,5	72,5	84	70	73

7

BMT	BMT65
Doosan	PUMA 2100/2600 (M,LM,MS,LMS) PUMA 2100/2600 (Y,LY,SY,LSY) PUMA 300 (M,MS,MB,MC) PUMA 3100 (M,LM,LY,XLM,XLY,ULM,ULY) PUMA MX2000/2500 PUMA MX2600 (T,ST), PUMA TT2500 (MS/SY) PUMA V400 (M) PUMA VT450 (M,2SP)
Haas	ST 20Y, ST 35Y, DS-30Y
Hwacheon	Cutex-240/HI-TECH200/T2-Series HI-TECH300/400 VT-450
Hyundai	L2100SY SKT-200/250TTSY SKT-250/300 (L,M) SKT-250/300 (MS)
Maxsin	BMT65
SMEC/Samsung	SL 25/SL 35
Tongtai	TMT2000
Victor	Vturn-A26 (YSCM)

Cylindrical shank receptacle

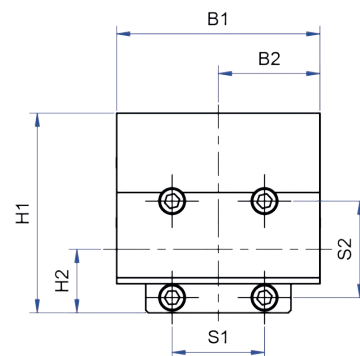
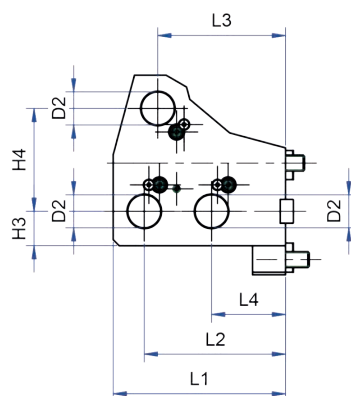
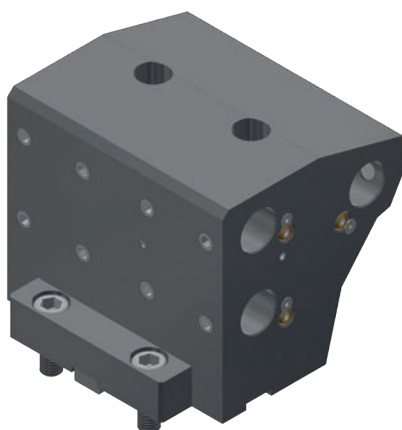


Order no.	D2	H1	H2	B1	B2	L1	L2	S1	S2
BH-107-265-40-750	40	96	64	120	60	102	72	70	73

BMT	BMT65
Doosan	PUMA 2100/2600 (M,LM,MS,LMS) PUMA 2100/2600 (Y,LY,SY,LSY) PUMA 300 (M,MS,MB,MC) PUMA 3100 (M,LM,LY,XLM,XLY,ULM,ULY) PUMA MX2000/2500 PUMA MX2600 (T,ST), PUMA TT2500 (MS/SY) PUMA V400 (M) PUMA VT450 (M,2SP)
Haas	ST 20Y, ST 35Y, DS-30Y
Hwacheon	Cutex-240/HI-TECH200/T2-Series HI-TECH300/400 VT-450
Hyundai	L2100SY SKT-200/250TTSY SKT-250/300 (L,M) SKT-250/300 (MS)
Maxsin	BMT65
SMEC/Samsung	SL 25/SL 35
Tongtai	TMT2000
Victor	Vturn-A26 (YSCM)



Cylindrical shank receptacle



Doosan

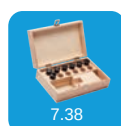
HAAS

BMT
65

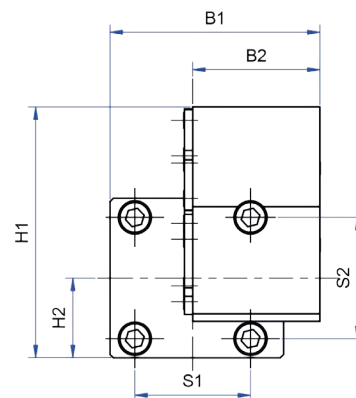
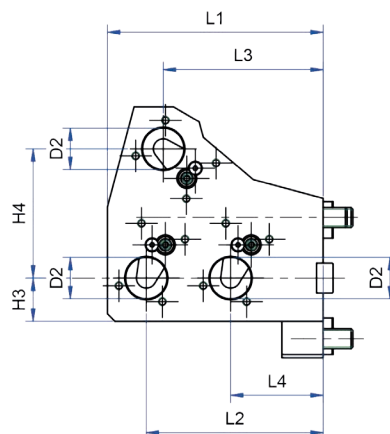
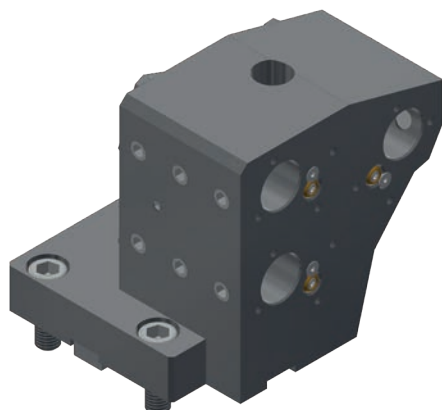

Order no.	D2	H1	H2	H3	H4	B1	B2	L1	L2	L3	L4	S1	S2
BH-107-265-25-756	25	151	48	26	77,82	154	77	130,5	107	96,755	56	70	73

7

BMT	BMT65
Doosan	PUMA 2100/2600 (M,LM,MS,LMS) PUMA 2100/2600 (Y,LY,SY,LSY) PUMA 300 (M,MS,MB,MC) PUMA 3100 (M,LM,LY,XLM,XLY,ULM,ULY) PUMA MX2000/2500 PUMA MX2600 (T,ST), PUMA TT2500 (MS/SY) PUMA V400 (M) PUMA VT450 (M,2SP)
Haas	ST 20Y, ST 35Y, DS-30Y
Hwacheon	Cutex-240/HI-TECH200/T2-Series HI-TECH300/400 VT-450
Hyundai	L2100SY SKT-200/250TTSY SKT-250/300 (L,M) SKT-250/300 (MS)
Maxsin	BMT65
SMEC/Samsung	SL 25/SL 35
Tongtai	TMT2000
Victor	Vturn-A26 (YSCM)



Cylindrical shank receptacle



Order no.	D2	H1	H2	H3	H4	B1	B2	L1	L2	L3	L4	S1	S2
BH-107-265-25-753	25	151	48	26	77,82	127	77	130,5	107	96,755	56	70	73

BMT	BMT65
Doosan	PUMA 2100/2600 (M,LM,MS,LMS) PUMA 2100/2600 (Y,LY,SY,LSY) PUMA 300 (M,MS,MB,MC) PUMA 3100 (M,LM,LY,XLM,XLY,ULM,ULY) PUMA MX2000/2500 PUMA MX2600 (T,ST), PUMA TT2500 (MS/SY) PUMA V400 (M) PUMA VT450 (M,2SP)
Haas	ST 20Y, ST 35Y, DS-30Y
Hwacheon	Cutex-240/HI-TECH200/T2-Series HI-TECH300/400 VT-450
Hyundai	L2100SY SKT-200/250TTSY SKT-250/300 (L,M) SKT-250/300 (MS)
Maxsin	BMT65
SMEC/Samsung	SL 25/SL 35
Tongtai	TMT2000
Victor	Vturn-A26 (YSCM)



Collet chucks with straight shank with with clamping surface for collets

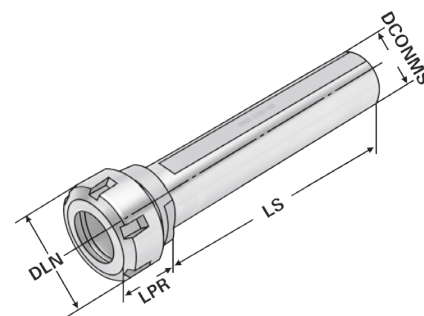
ISO 15488 (DIN 6499) ER-system



Verwendung:
Zur Aufnahme von Werkzeugen mit
Zylinderschaft in Spannzangen.

Application:
For mounting straight-shank tools in
collets.

Application:
Pour le serrage d'outils avec queue
cylindrique dans des pinces de serrage.



Order no.	DCONMS	DCONWS	Typ	LS	LPR	DLN	DRVS	CND	THID
ACE-02-04-10	16	1 – 10	426E ER 16	150	30	32	19	9	M10 x 1,5
ACE-02-04-16	20	1 – 16	430E ER 25	150	40	42	27	11	M12 x 1,5
ACE-02-04-20	32	2 – 20	470E ER 32	150	35	50	32	19	M20 x 1,5
ACE-02-04-20-1	40	2 – 20	470E ER 32	120	35	50	36	19	M20 x 1,5

Through hole for internal cooling provided.

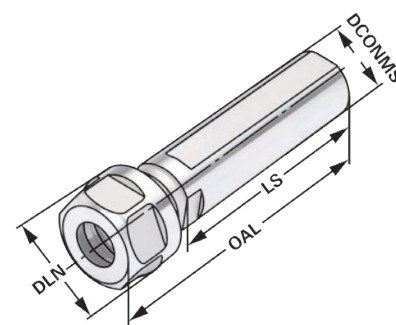
Delivery: with Clamping nut

7

Collet chucks with straight shank for collets ISO 15488 (DIN 6499) ER-system



Application:
For mounting straight-shank tools in
collets.



Order no.	DCONMS	DCONWS	Typ	DLN	LS	OAL	DRVS	CND	THID
ACE-02-A-07	20	1 – 07	4008E ER 11	19	50	67,5	17	7	-
ACE-02-A-07-1	20	1 – 07	4008E ER 11	19	70	87,5	17	7	-
ACE-02-A-10	20	1 – 10	426E ER 16	28	70	96,0	17	10	7/16" 20 UNF
ACE-02-A-13	25	1 – 13	428E ER 20	34	50	74,0	22	13	9/16" 18 UNF

Hexagonal clamping nut

Through hole for internal cooling provided.

Hook wrench with pin 45-50 | ER32 | 2-20



Order no.	Capacity
AW.SE5862	2 – 20 (ER 32)

Wrenches for clamping nuts ER-system



Order no.	Capacity
K-02-20	2 – 20 (ER 32)

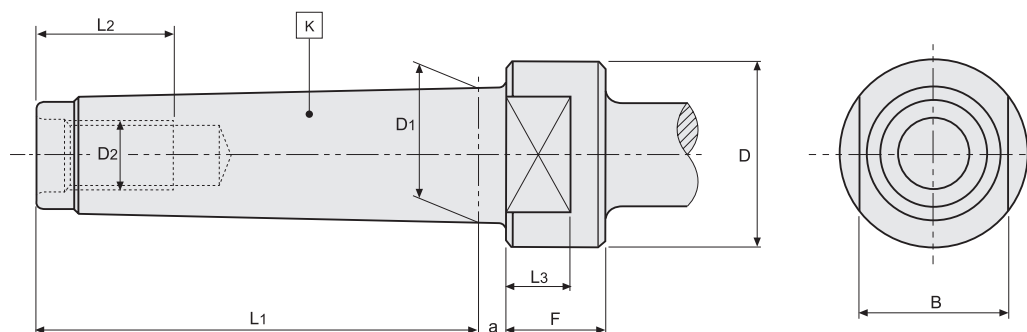
DIN 228

8



Toolholders
MT DIN 228-1 A / DIN 228-1 B

Toolholders Morse taper (MT) DIN 228-1 A



MK	L ₁ mm	L ₂ mm	L ₃ mm	D mm	D ₁ mm	D ₂ mm	F min mm	B d9 mm	a mm	DRVS
1	53,5	16	—	—	12,065	M6	—	—	3,5	—
2	64,0	24	—	—	17,780	M10	—	—	5,0	—
3	81,0	24	12	36	23,825	M12	18	24	5,0	24
4	102,5	32	15	43	31,267	M16	23	32	6,5	32
5	129,5	40	18	60	44,399	M20	28	45	6,5	45
6	182,0	47	25	84	63,348	M24	39	65	8,0	65

Material: *Alloyed case hardened steel, tensile strength in the core of min. 950 N/mm²
Case hardened HRC 60 ± 2 (HV 700 ± 50), hardening depth 0.8 mm ± 0.2 mm,
black-finished and precisely grinded.*

This norm largely corresponds to that of the international norm ISO 296 published by the International Organization for Standardization (ISO).

Normative references:

DIN 228-1:1987-05
Morse tapers and metric tapers; taper shanks

Index

8.05



8.06



8.07



8.08



8.09



8.10



8.11



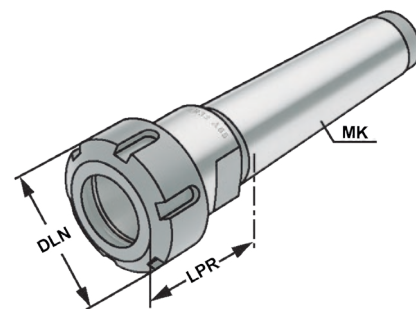
8.12



Collet chucks for collets DIN 6499 (ISO 15488) ER-system



Application:
For mounting straight-shank tools in collets.



DIN 228

Form A

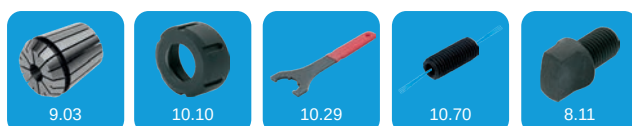
$\leq 8\mu\text{m}$

ISO 15488

Ch. 11

Order no.	MK MT CM	THSZMS	DCONWS Capacity	Typ	LPR	DLN	DRVS
MK-08-02-01	MK 2	M10	1 – 10	426E ER 16	45	32	18
MK-08-02-011	MK 2	M10	2 – 16	430E ER 25	50	42	18
MK-08-02-012	MK 2	M10	2 – 20	470E ER 32	70	50	18
MK-08-02-02	MK 3	M12	2 – 16	430E ER 25	56	42	24
MK-08-02-03	MK 3	M12	2 – 20	470E ER 32	70	50	24
MK-08-02-04	MK 4	M16	2 – 16	430E ER 25	63	42	32
MK-08-02-05	MK 4	M16	2 – 20	470E ER 32	65	50	32
MK-08-02-06	MK 5	M20	3 – 26	472E ER 40	86	63	45

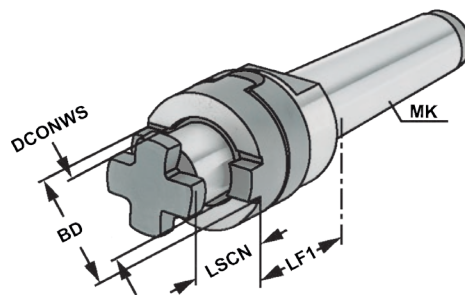
Delivery: With balanced clamping nut



Combi shell mill holders DIN 6358



Application:
For mounting milling cutters with
transverse or longitudinal groove.



DIN 228

Form A

$\leq 8\mu\text{m}$

DIN 6358

h6

Order no.	MK MT CM	THSZMS	DCONWS	TDCON	LF1	LSC	BD	DRVS
MK-08-10-20	MK 2	M10	16	h6	43	17	32	18
MK-08-10-21	MK 2	M10	22	h6	43	19	40	18
MK-08-10-30	MK 3	M12	16	h6	48	17	32	24
MK-08-10-31	MK 3	M12	22	h6	48	19	40	24
MK-08-10-32	MK 3	M12	27	h6	48	21	48	24
MK-08-10-33	MK 3	M12	32	h6	48	24	58	24
MK-08-10-40	MK 4	M16	16	h6	55	17	32	32
MK-08-10-41	MK 4	M16	22	h6	55	19	40	32
MK-08-10-42	MK 4	M16	27	h6	55	21	48	32
MK-08-10-43	MK 4	M16	32	h6	55	24	58	32
MK-08-10-50	MK 5	M20	22	h6	75	19	40	45
MK-08-10-51	MK 5	M20	27	h6	75	21	48	45
MK-08-10-52	MK 5	M20	32	h6	75	24	58	45
MK-08-10-53	MK 5	M20	40	h6	75	27	70	45

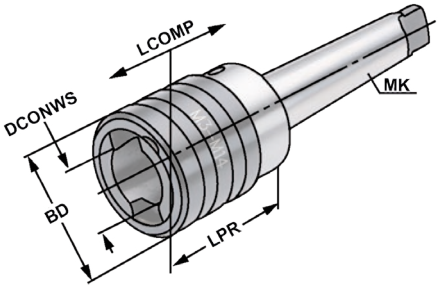
Delivery: With tightening bolt, driving ring and feather key



Quick change tapping chucks with length compensation
on compression and expansion



Application:
For the chucking of Quick change taps
for threading taps.



DIN 228

Form B

Ch. 11

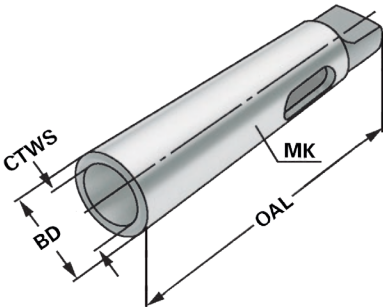
Order no.	MK MT CM	Capacity	SZID	DCONWS	LPR	BD	LCOMP
MK-07-16-212	MK 2	M3 – M14	1	19	46	36	7
MK-07-16-312	MK 3	M3 – M14	1	19	46	36	7
MK-07-16-320	MK 3	M5 – M22	2	31	70	53	12
MK-07-16-412	MK 4	M3 – M14	1	19	46	36	7
MK-07-16-420	MK 4	M5 – M22	2	31	71	53	12
MK-07-16-436	MK 4	M14 – M36	3	48	128	78	17,5



Reduction sleeves for tools with Morse taper shanks DIN 2185



Application:
For mounting tools with Morse taper shanks



DIN 228

Form B

$\leq 10\mu\text{m}$

DIN 2185

AT5

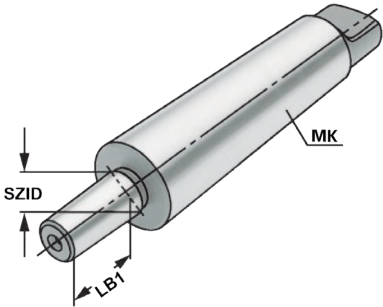
Order no.	MK MT CM	TDCON	CTWS	BD	OAL
MK-07-07-21	MK 2	AT5	MK 1	18,6	92
MK-07-07-32	MK 3	AT5	MK 2	24,7	112
MK-07-07-42	MK 4	AT5	MK 2	31,6	124
MK-07-07-43	MK 4	AT5	MK 3	32,4	140
MK-07-07-53	MK 5	AT5	MK 3	44,7	156
MK-07-07-54	MK 5	AT5	MK 4	45,5	171
MK-07-07-64	MK 6	AT5	MK 4	63,8	218
MK-07-07-65	MK 6	AT5	MK 5	63,8	218

Version: Entirely hardened, grinded on the inside and outside

Drill chuck adaptors DIN 238



Application:
For mounting drill chucks on drilling machines, turning lathes etc.



DIN 228

Form B

≤8µm

DIN 238

AT4

Order no.	MK MT CM	SZID	LB1
MK-07-14-12-02	MK 2	B12	12,06
MK-07-14-12-03	MK 3	B12	12,06
MK-07-14-12-04	MK 4	B12	12,06
MK-07-14-02	MK 2	B16	29
MK-07-14-03	MK 3	B16	29
MK-07-14-04	MK 4	B16	29

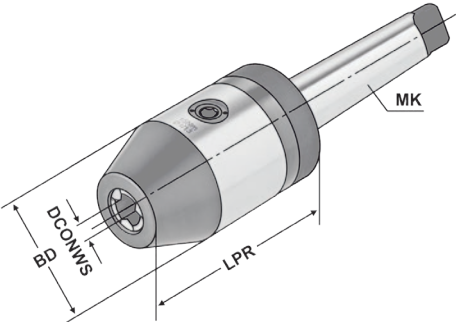
Version: Entirely hardened and grinded



CNC-Drill chucks for clockwise and counter clockwise rotation



Application:
For mounting tools with straight shanks.



DIN
228

Form
B

≤30µm

i
Ch. 11

Order no.	MK MT CM	Capacity	LPR	BD	DRVS
MK-07-15-313	MK 3	1,0 – 13	98	50	6
MK-07-15-316	MK 3	2,5 – 16	103	50	6
MK-07-15-413	MK 4	1,0 – 13	100	50	6
MK-07-15-416	MK 4	2,5 – 16	105	50	6

Note: *High precision and accurate concentricity of ≤ 0.03 mm. Secure gripping of the tool through mechanical amplification of the clamping force. No automatic slackening of the clamping force while machining with either clockwise or counter clockwise rotation or on spindle stop. Clamping and releasing effected by means of an Allen wrench.*

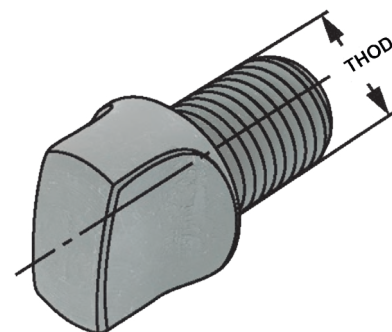
Delivery: Without wrench



Drift tangs to screw in



Application:
For mounting and drifting taper shanks
DIN 228-1A in toolholders DIN 228-1B.

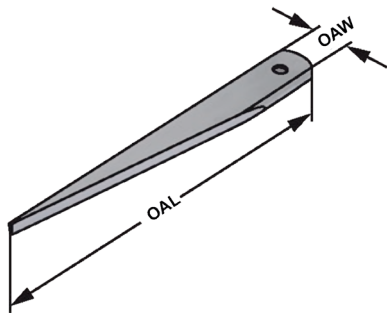


Order no.	MK MT CM
AC-MK-20-06	MK 1
AC-MK-20-10	MK 2
AC-MK-20-12	MK 3
AC-MK-20-16	MK 4
AC-MK-20-20	MK 5

Drill drifts DIN 317 for cones DIN 228 B



Application:
For drifting of tools with taper shanks
DIN 228-1 B.



DIN
317

Order no.	MK MT CM	OAL	OAW
AC-MK-03-01	MK 1+2	140	20
AC-MK-03-03	MK 3	190	25
AC-MK-03-04	MK 4	225	30
AC-MK-03-05	MK 5+6	260	35

COLLETS

9



Index

9.07 9.08 9.09 OZ16 OZ25 OZ32  $\leq 15\mu\text{m}$	9.10 9.11 9.12 OZ16 OZ25 OZ32  $\leq 5\mu\text{m}$	9.13 - 9.18 ER11 - ER40 E  $\leq 15\mu\text{m}$	9.19 - 9.25 ER8 - ER40 EP  $\leq 5\mu\text{m}$
9.26 - 9.29 ER16 - ER32 EPP  $\leq 3\mu\text{m}$	9.30 - 9.34 ER11 - ER32 ESP  $\leq 5\mu\text{m}$	9.35 - 9.39 ER16 - ER40 EA  $\leq 15\mu\text{m}$	9.40 - 9.44 ER16 - ER40 EH  $\leq 15\mu\text{m}$
9.45 - 9.48 ER16 - ER32 EHP  $\leq 3\mu\text{m}$	9.49 - 9.53 ER16 - ER40 EC  $\leq 15\mu\text{m}$	9.54 - 9.57 ER16 - ER32 ECP  $\leq 3\mu\text{m}$	9.58 - 9.62 ER16 - ER40 ECC  $\leq 15\mu\text{m}$
9.63 - 9.67 ER16 - ER40 G  $\leq 3\mu\text{m}$	9.68 - 9.72 ER16 - ER40 GA  $\leq 15\mu\text{m}$	9.73 - 9.77 ER16 - ER40 GC  $\leq 3\mu\text{m}$	
9.97 490EK KPS10  	9.98 496EK KPS16  	9.99 490RD KPS10  	9.100 496RD KPS16 
9.101 HKS 20 - 32  	9.102 HKS-RD 20 - 32  		
9.105 Hydro R  	9.106 Hydro RD  	9.107 Hydro RDC  	

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9.79 - 9.80 OZ 	9.79 - 9.80 OZ 	9.81 - 9.90 ER 	9.81 - 9.90 ER 
9.91 - 9.93 	9.91 - 9.93 		
9.94 HKS 	9.95 	9.96 	9.96 
9.97 - 9.100 KPS 	9.101 - 9.104 HKS 	9.108 Hydro 	9.109 - 9.111 Hydro 

Product overview

Order no.	Typ		Size	Runout	Sealed	CP	Cooling channel	INOX	Square	Page
ISO 10897-B (DIN 6388 B)	415E	E	OZ 16	≤15µm	x	x	x	x	x	7
ISO 10897-B (DIN 6388 B)	462E	E	OZ 25	≤15µm	x	x	x	x	x	8
ISO 10897-B (DIN 6388 B)	467E	E	OZ 32	≤15µm	x	x	x	x	x	9
ISO 10897-B (DIN 6388 B)	415E	EP	OZ 16	≤5µm	x	x	x	x	x	10
ISO 10897-B (DIN 6388 B)	462E	EP	OZ 25	≤5µm	x	x	x	x	x	11
ISO 10897-B (DIN 6388 B)	467E	EP	OZ 32	≤5µm	x	x	x	x	x	12
ISO 15488 B (DIN 6499 B)	4008E	E	ER 11	≤15µm	x	x	x	x	x	13
ISO 15488 B (DIN 6499 B)	426E	E	ER 16	≤15µm	x	x	x	x	x	14
ISO 15488 B (DIN 6499 B)	428E	E	ER 20	≤15µm	x	x	x	x	x	15
ISO 15488 B (DIN 6499 B)	430E	E	ER 25	≤15µm	x	x	x	x	x	16
ISO 15488 B (DIN 6499 B)	470E	E	ER 32	≤15µm	x	x	x	x	x	17
ISO 15488 B (DIN 6499 B)	472 E	E	ER 40	≤15µm	x	x	x	x	x	18
ISO 15488 B (DIN 6499 B)	4004E	EP	ER 8	≤5µm	x	x	x	x	x	19
ISO 15488 B (DIN 6499 B)	4008E	EP	ER 11	≤5µm	x	x	x	x	x	20
ISO 15488 B (DIN 6499 B)	426E	EP	ER 16	≤5µm	x	x	x	x	x	21
ISO 15488 B (DIN 6499 B)	428E	EP	ER 20	≤5µm	x	x	x	x	x	22
ISO 15488 B (DIN 6499 B)	430E	EP	ER 25	≤5µm	x	x	x	x	x	23
ISO 15488 B (DIN 6499 B)	470E	EP	ER 32	≤5µm	x	x	x	x	x	24
ISO 15488 B (DIN 6499 B)	472 E	EP	ER 40	≤5µm	x	x	x	x	x	25
ISO 15488 B (DIN 6499 B)	426E	EPP	ER 16	≤3µm	x	x	x	x	x	26
ISO 15488 B (DIN 6499 B)	428E	EPP	ER 20	≤3µm	x	x	x	x	x	27
ISO 15488 B (DIN 6499 B)	430E	EPP	ER 25	≤3µm	x	x	x	x	x	28
ISO 15488 B (DIN 6499 B)	470E	EPP	ER 32	≤3µm	x	x	x	x	x	29
ISO 15488 B (DIN 6499 B)	4008E	ESP	ER 11	≤5µm	x	x	x	√	x	30
ISO 15488 B (DIN 6499 B)	426E	ESP	ER 16	≤5µm	x	x	x	√	x	31
ISO 15488 B (DIN 6499 B)	428E	ESP	ER 20	≤5µm	x	x	x	√	x	32
ISO 15488 B (DIN 6499 B)	430E	ESP	ER 25	≤5µm	x	x	x	√	x	33
ISO 15488 B (DIN 6499 B)	470E	ESP	ER 32	≤5µm	x	x	x	√	x	34
ISO 15488 B (DIN 6499 B)	426E	EA	ER 16	≤15µm	√	21 bar	x	x	x	35
ISO 15488 B (DIN 6499 B)	428E	EA	ER 20	≤15µm	√	21 bar	x	x	x	36
ISO 15488 B (DIN 6499 B)	430E	EA	ER 25	≤15µm	√	21 bar	x	x	x	37
ISO 15488 B (DIN 6499 B)	470E	EA	ER 32	≤15µm	√	21 bar	x	x	x	38
ISO 15488 B (DIN 6499 B)	472E	EA	ER 40	≤15µm	√	21 bar	x	x	x	39
ISO 15488 B (DIN 6499 B)	426E	EH	ER 16	≤15µm	√	120 bar	x	x	x	40
ISO 15488 B (DIN 6499 B)	428E	EH	ER 20	≤15µm	√	120 bar	x	x	x	41
ISO 15488 B (DIN 6499 B)	430E	EH	ER 25	≤15µm	√	120 bar	x	x	x	42
ISO 15488 B (DIN 6499 B)	470E	EH	ER 32	≤15µm	√	120 bar	x	x	x	43
ISO 15488 B (DIN 6499 B)	472E	EH	ER 40	≤15µm	√	120 bar	x	x	x	44
ISO 15488 B (DIN 6499 B)	426E	EHP	ER 16	≤3µm	√	120 bar	x	x	x	45
ISO 15488 B (DIN 6499 B)	428E	EHP	ER 20	≤3µm	√	120 bar	x	x	x	46
ISO 15488 B (DIN 6499 B)	430E	EHP	ER 25	≤3µm	√	120 bar	x	x	x	47
ISO 15488 B (DIN 6499 B)	470E	EHP	ER 32	≤3µm	√	120 bar	x	x	x	48

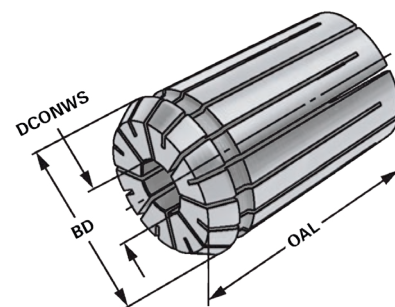
Product overview

Order no.	Typ		Size	Runout	Sealed	CP	Cooling channel	INOX	Square	Page
ISO 15488 B (DIN 6499 B)	426E	EC	ER 16	≤15µm	√	21 bar	√	x	x	49
ISO 15488 B (DIN 6499 B)	428E	EC	ER 20	≤15µm	√	21 bar	√	x	x	50
ISO 15488 B (DIN 6499 B)	430E	EC	ER 25	≤15µm	√	21 bar	√	x	x	51
ISO 15488 B (DIN 6499 B)	470E	EC	ER 32	≤15µm	√	21 bar	√	x	x	52
ISO 15488 B (DIN 6499 B)	472E	EC	ER 40	≤15µm	√	21 bar	√	x	x	53
ISO 15488 B (DIN 6499 B)	426E	ECP	ER 16	≤3µm	√	120 bar	√	x	x	55
ISO 15488 B (DIN 6499 B)	428E	ECP	ER 20	≤3µm	√	120 bar	√	x	x	56
ISO 15488 B (DIN 6499 B)	430E	ECP	ER 25	≤3µm	√	120 bar	√	x	x	57
ISO 15488 B (DIN 6499 B)	470E	ECP	ER 32	≤3µm	√	120 bar	√	x	x	58
ISO 15488 B (DIN 6499 B)	426E	ECC	ER 16	≤15µm	√	21 bar	√	x	x	59
ISO 15488 B (DIN 6499 B)	428E	ECC	ER 20	≤15µm	√	21 bar	√	x	x	60
ISO 15488 B (DIN 6499 B)	430E	ECC	ER 25	≤15µm	√	21 bar	√	x	x	61
ISO 15488 B (DIN 6499 B)	470E	ECC	ER 32	≤15µm	√	21 bar	√	x	x	62
ISO 15488 B (DIN 6499 B)	472E	ECC	ER 40	≤15µm	√	21 bar	√	x	x	63
ISO 15488 B (DIN 6499 B)	426E	G	ER 16	≤15µm	x	x	x	x	√	64
ISO 15488 B (DIN 6499 B)	428E	G	ER 20	≤15µm	x	x	x	x	√	65
ISO 15488 B (DIN 6499 B)	430E	G	ER 25	≤15µm	x	x	x	x	√	66
ISO 15488 B (DIN 6499 B)	470E	G	ER 32	≤15µm	x	x	x	x	√	67
ISO 15488 B (DIN 6499 B)	472E	G	ER 40	≤15µm	x	x	x	x	√	68
ISO 15488 B (DIN 6499 B)	426E	GA	ER 16	≤15µm	√	21 bar	x	x	√	69
ISO 15488 B (DIN 6499 B)	428E	GA	ER 20	≤15µm	√	21 bar	x	x	√	70
ISO 15488 B (DIN 6499 B)	430E	GA	ER 25	≤15µm	√	21 bar	x	x	√	71
ISO 15488 B (DIN 6499 B)	470E	GA	ER 32	≤15µm	√	21 bar	x	x	√	72
ISO 15488 B (DIN 6499 B)	472E	GA	ER 40	≤15µm	√	21 bar	x	x	√	73
ISO 15488 B (DIN 6499 B)	426E	GC	ER 16	≤15µm	√	120 bar	√	x	√	74
ISO 15488 B (DIN 6499 B)	428E	GC	ER 20	≤15µm	√	120 bar	√	x	√	75
ISO 15488 B (DIN 6499 B)	430E	GC	ER 25	≤15µm	√	120 bar	√	x	√	76
ISO 15488 B (DIN 6499 B)	470E	GC	ER 32	≤15µm	√	120 bar	√	x	√	77
ISO 15488 B (DIN 6499 B)	472E	GC	ER 40	≤15µm	√	120 bar	√	x	√	78
KPS - 8°	490EK	EK	KPS 10	≤5µm	x	x	x	x	x	97
KPS - 8°	496EK	EK	KPS 16	≤5µm	x	x	x	x	x	98
KPS - 8°	490RD	RD	KPS 10	≤5µm	√	70 bar	x	x	x	99
KPS - 8°	496RD	RD	KPS 16	≤5µm	√	70 bar	x	x	x	100
HKS	HKS	-	20	≤5µm	x	x	x	x	x	101
HKS	HKS	-	25	≤5µm	x	x	x	x	x	101
HKS	HKS	-	32	≤5µm	x	x	x	x	x	101
HKS	HKS	RD	20	≤5µm	√	70 bar	x	x	x	102
HKS	HKS	RD	25	≤5µm	√	70 bar	x	x	x	102
HKS	HKS	RD	32	≤5µm	√	70 bar	x	x	x	102
Hydro	-	R	12 - 32	≤5µm	x	x	x	x	x	105
Hydro	-	RD	12 - 32	≤5µm	√	80 bar	x	x	x	106
Hydro	-	RDC	20 - 32	≤5µm	√	80 bar	√	x	x	107

Collets ISO 10897-B (DIN 6388 B) | OC system



Application:
For mounting straight-shank tools in collet
chucks DIN 6391.
For highest axial and radial loading.



ISO
10897

OZ



≤15µm

i
Ch. 11

Order no.	Size	DCONWS	BD	OAL
C15E-02	415E OZ 16	2 – 1,5	25,5	40
C15E-03	415E OZ 16	3 – 2,5	25,5	40
C15E-04	415E OZ 16	4 – 3,5	25,5	40
C15E-05	415E OZ 16	5 – 4,5	25,5	40
C15E-06	415E OZ 16	6 – 5,5	25,5	40
C15E-07	415E OZ 16	7 – 6,5	25,5	40
C15E-08	415E OZ 16	8 – 7,5	25,5	40
C15E-09	415E OZ 16	9 – 8,5	25,5	40
C15E-10	415E OZ 16	10 – 9,5	25,5	40
C15E-11	415E OZ 16	11 – 10,5	25,5	40
C15E-12	415E OZ 16	12 – 11,5	25,5	40
C15E-13	415E OZ 16	13 – 12,5	25,5	40
C15E-14	415E OZ 16	14 – 13,5	25,5	40
C15E-15	415E OZ 16	15 – 14,5	25,5	40
C15E-16	415E OZ 16	16 – 15,5	25,5	40

9

Note: Clamping capacity up to –0,5 mm



9.79



9.79

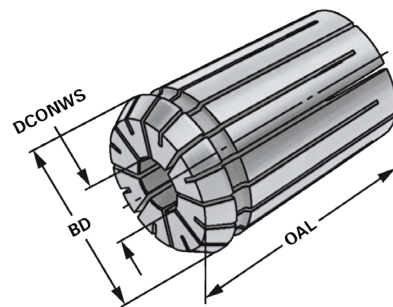


10.09

Collets ISO 10897-B (DIN 6388 B) | OC system



Application:
For mounting straight-shank tools in collet
chucks DIN 6391.
For highest axial and radial loading.



Order no.	Size	DCONWS	BD	OAL
C62E-02	462E OZ 25	2 – 1,5	35,05	52
C62E-03	462E OZ 25	3 – 2,5	35,05	52
C62E-04	462E OZ 25	4 – 3,5	35,05	52
C62E-05	462E OZ 25	5 – 4,5	35,05	52
C62E-06	462E OZ 25	6 – 5,5	35,05	52
C62E-07	462E OZ 25	7 – 6,5	35,05	52
C62E-08	462E OZ 25	8 – 7,5	35,05	52
C62E-09	462E OZ 25	9 – 8,5	35,05	52
C62E-10	462E OZ 25	10 – 9,5	35,05	52
C62E-11	462E OZ 25	11 – 10,5	35,05	52
C62E-12	462E OZ 25	12 – 11,5	35,05	52
C62E-13	462E OZ 25	13 – 12,5	35,05	52
C62E-14	462E OZ 25	14 – 13,5	35,05	52
C62E-15	462E OZ 25	15 – 14,5	35,05	52
C62E-16	462E OZ 25	16 – 15,5	35,05	52
C62E-17	462E OZ 25	17 – 16,5	35,05	52
C62E-18	462E OZ 25	18 – 17,5	35,05	52
C62E-19	462E OZ 25	19 – 18,5	35,05	52
C62E-20	462E OZ 25	20 – 19,5	35,05	52
C62E-21	462E OZ 25	21 – 20,5	35,05	52
C62E-22	462E OZ 25	22 – 21,5	35,05	52
C62E-23	462E OZ 25	23 – 22,5	35,05	52
C62E-24	462E OZ 25	24 – 23,5	35,05	52
C62E-25	462E OZ 25	25 – 24,5	35,05	52

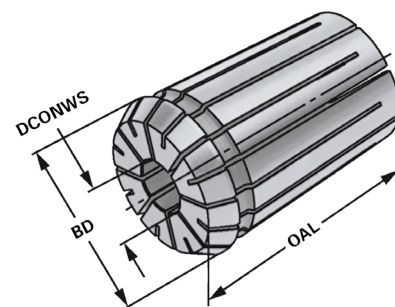
Note: Clamping capacity up to –0,5 mm



Collets ISO 10897-B (DIN 6388 B) | OC system



Application:
For mounting straight-shank tools in collet
chucks DIN 6391.
For highest axial and radial loading.



ISO
10897

OZ

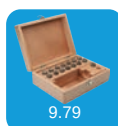


≤15µm

i
Ch. 11

Order no.	Size	DCONWS	BD	OAL
C67E-03	467E OZ 32	3 – 2,5	43,7	60
C67E-04	467E OZ 32	4 – 3,5	43,7	60
C67E-05	467E OZ 32	5 – 4,5	43,7	60
C67E-06	467E OZ 32	6 – 5,5	43,7	60
C67E-07	467E OZ 32	7 – 6,5	43,7	60
C67E-08	467E OZ 32	8 – 7,5	43,7	60
C67E-09	467E OZ 32	9 – 8,5	43,7	60
C67E-10	467E OZ 32	10 – 9,5	43,7	60
C67E-11	467E OZ 32	11 – 10,5	43,7	60
C67E-12	467E OZ 32	12 – 11,5	43,7	60
C67E-13	467E OZ 32	13 – 12,5	43,7	60
C67E-14	467E OZ 32	14 – 13,5	43,7	60
C67E-15	467E OZ 32	15 – 14,5	43,7	60
C67E-16	467E OZ 32	16 – 15,5	43,7	60
C67E-17	467E OZ 32	17 – 16,5	43,7	60
C67E-18	467E OZ 32	18 – 17,5	43,7	60
C67E-19	467E OZ 32	19 – 18,5	43,7	60
C67E-20	467E OZ 32	20 – 19,5	43,7	60
C67E-21	467E OZ 32	21 – 20,5	43,7	60
C67E-22	467E OZ 32	22 – 21,5	43,7	60
C67E-23	467E OZ 32	23 – 22,5	43,7	60
C67E-24	467E OZ 32	24 – 23,5	43,7	60
C67E-25	467E OZ 32	25 – 24,5	43,7	60
C67E-26	467E OZ 32	26 – 25,5	43,7	60
C67E-27	467E OZ 32	27 – 26,5	43,7	60
C67E-28	467E OZ 32	28 – 27,5	43,7	60
C67E-29	467E OZ 32	29 – 28,5	43,7	60
C67E-30	467E OZ 32	30 – 29,5	43,7	60
C67E-31	467E OZ 32	31 – 30,5	43,7	60
C67E-32	467E OZ 32	32 – 31,5	43,7	60

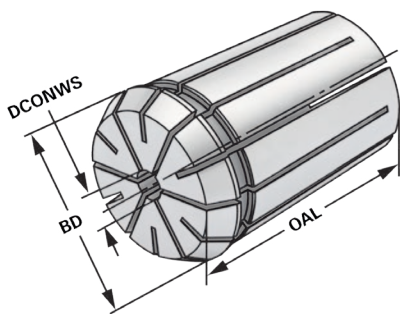
Note: Clamping capacity up to –0,5 mm



Precision collets ISO 10897-B (DIN 6388 B) | OC system



Application:
For mounting straight-shank tools in collet chucks DIN 6391. To use for high speed cutting and high precision milling.



ISO 10897

OZ

$\leq 5\mu\text{m}$

Ch. 11

Order no.	Size	DCONWS	BD	OAL
C15EP-02	415E OZ 16	2 – 1,5	25,5	40
C15EP-03	415E OZ 16	3 – 2,5	25,5	40
C15EP-04	415E OZ 16	4 – 3,5	25,5	40
C15EP-05	415E OZ 16	5 – 4,5	25,5	40
C15EP-06	415E OZ 16	6 – 5,5	25,5	40
C15EP-07	415E OZ 16	7 – 6,5	25,5	40
C15EP-08	415E OZ 16	8 – 7,5	25,5	40
C15EP-09	415E OZ 16	9 – 8,5	25,5	40
C15EP-10	415E OZ 16	10 – 9,5	25,5	40
C15EP-11	415E OZ 16	11 – 10,5	25,5	40
C15EP-12	415E OZ 16	12 – 11,5	25,5	40
C15EP-13	415E OZ 16	13 – 12,5	25,5	40
C15EP-14	415E OZ 16	14 – 13,5	25,5	40
C15EP-15	415E OZ 16	15 – 14,5	25,5	40
C15EP-16	415E OZ 16	16 – 15,5	25,5	40

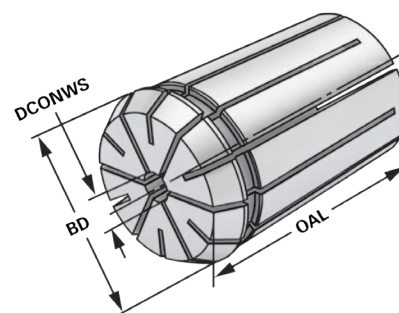
Note: Clamping capacity up to –0,5 mm



Precision collets ISO 10897-B (DIN 6388 B) | OC system



Application:
For mounting straight-shank tools in collet chucks DIN 6391. To use for high speed cutting and high precision milling.



ISO
10897

OZ



≤5µm

i
Ch. 11

Order no.	Size	DCONWS	BD	OAL
C62EP-02	462E OZ 25	2 – 1,5	35,05	52
C62EP-03	462E OZ 25	3 – 2,5	35,05	52
C62EP-04	462E OZ 25	4 – 3,5	35,05	52
C62EP-05	462E OZ 25	5 – 4,5	35,05	52
C62EP-06	462E OZ 25	6 – 5,5	35,05	52
C62EP-07	462E OZ 25	7 – 6,5	35,05	52
C62EP-08	462E OZ 25	8 – 7,5	35,05	52
C62EP-09	462E OZ 25	9 – 8,5	35,05	52
C62EP-10	462E OZ 25	10 – 9,5	35,05	52
C62EP-11	462E OZ 25	11 – 10,5	35,05	52
C62EP-12	462E OZ 25	12 – 11,5	35,05	52
C62EP-13	462E OZ 25	13 – 12,5	35,05	52
C62EP-14	462E OZ 25	14 – 13,5	35,05	52
C62EP-15	462E OZ 25	15 – 14,5	35,05	52
C62EP-16	462E OZ 25	16 – 15,5	35,05	52
C62EP-17	462E OZ 25	17 – 16,5	35,05	52
C62EP-18	462E OZ 25	18 – 17,5	35,05	52
C62EP-19	462E OZ 25	19 – 18,5	35,05	52
C62EP-20	462E OZ 25	20 – 19,5	35,05	52
C62EP-21	462E OZ 25	21 – 20,5	35,05	52
C62EP-22	462E OZ 25	22 – 21,5	35,05	52
C62EP-23	462E OZ 25	23 – 22,5	35,05	52
C62EP-24	462E OZ 25	24 – 23,5	35,05	52
C62EP-25	462E OZ 25	25 – 24,5	35,05	52

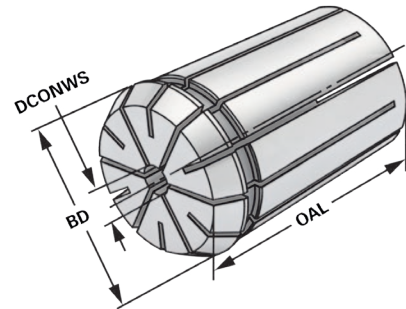
Note: Clamping capacity up to –0,5 mm



Precision collets ISO 10897-B (DIN 6388 B) | OC system



Application:
For mounting straight-shank tools in collet chucks DIN 6391. To use for high speed cutting and high precision milling.



ISO
10897

OZ



≤5µm

i
Ch. 11

Order no.	Size	DCONWS	BD	OAL
C67EP-03	467E OZ 32	3 – 2,5	43,7	60
C67EP-04	467E OZ 32	4 – 3,5	43,7	60
C67EP-05	467E OZ 32	5 – 4,5	43,7	60
C67EP-06	467E OZ 32	6 – 5,5	43,7	60
C67EP-07	467E OZ 32	7 – 6,5	43,7	60
C67EP-08	467E OZ 32	8 – 7,5	43,7	60
C67EP-09	467E OZ 32	9 – 8,5	43,7	60
C67EP-10	467E OZ 32	10 – 9,5	43,7	60
C67EP-11	467E OZ 32	11 – 10,5	43,7	60
C67EP-12	467E OZ 32	12 – 11,5	43,7	60
C67EP-13	467E OZ 32	13 – 12,5	43,7	60
C67EP-14	467E OZ 32	14 – 13,5	43,7	60
C67EP-15	467E OZ 32	15 – 14,5	43,7	60
C67EP-16	467E OZ 32	16 – 15,5	43,7	60
C67EP-17	467E OZ 32	17 – 16,5	43,7	60
C67EP-18	467E OZ 32	18 – 17,5	43,7	60
C67EP-19	467E OZ 32	19 – 18,5	43,7	60
C67EP-20	467E OZ 32	20 – 19,5	43,7	60
C67EP-21	467E OZ 32	21 – 20,5	43,7	60
C67EP-22	467E OZ 32	22 – 21,5	43,7	60
C67EP-23	467E OZ 32	23 – 22,5	43,7	60
C67EP-24	467E OZ 32	24 – 23,5	43,7	60
C67EP-25	467E OZ 32	25 – 24,5	43,7	60
C67EP-26	467E OZ 32	26 – 25,5	43,7	60
C67EP-27	467E OZ 32	27 – 26,5	43,7	60
C67EP-28	467E OZ 32	28 – 27,5	43,7	60
C67EP-29	467E OZ 32	29 – 28,5	43,7	60
C67EP-30	467E OZ 32	30 – 29,5	43,7	60
C67EP-31	467E OZ 32	31 – 30,5	43,7	60
C67EP-32	467E OZ 32	32 – 31,5	43,7	60

Note: Clamping capacity up to –0,5 mm



9.80



9.80

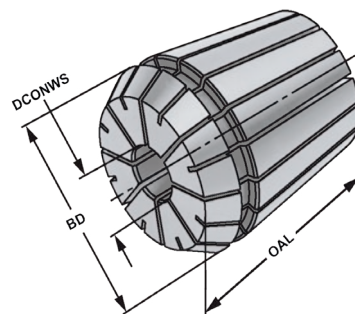


10.09

Collets ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools in collet
chucks DIN 6499.



ISO
15488

ER



i
Ch. 11

Order no.	Size	DCONWS	BD	OAL
C008E-01	4008E ER 11	1,0 – 0,5	11,5	18
C008E-015	4008E ER 11	1,5 – 1,0	11,5	18
C008E-02	4008E ER 11	2,0 – 1,5	11,5	18
C008E-025	4008E ER 11	2,5 – 2,0	11,5	18
C008E-03	4008E ER 11	3,0 – 2,5	11,5	18
C008E-035	4008E ER 11	3,5 – 3,0	11,5	18
C008E-04	4008E ER 11	4,0 – 3,5	11,5	18
C008E-045	4008E ER 11	4,5 – 4,0	11,5	18
C008E-05	4008E ER 11	5,0 – 4,5	11,5	18
C008E-055	4008E ER 11	5,5 – 5,0	11,5	18
C008E-06	4008E ER 11	6,0 – 5,5	11,5	18
C008E-065	4008E ER 11	6,5 – 6,0	11,5	18
C008E-07	4008E ER 11	7,0 – 6,5	11,5	18

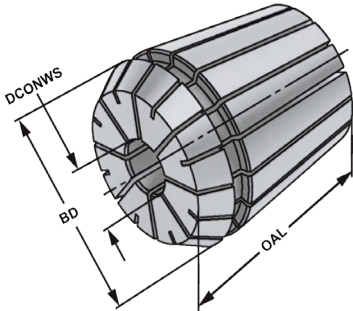
Note: Clamping capacity up to –0,5 mm



Collets ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools in collet
chucks DIN 6499.



ISO
15488

ER


≤15µm



Ch. 11

Order no.	Size	DCONWS	BD	OAL
C26E-01	426E ER 16	1 – 0,5	17	27
C26E-02	426E ER 16	2 – 1,0	17	27
C26E-03	426E ER 16	3 – 2,0	17	27
C26E-04	426E ER 16	4 – 3,0	17	27
C26E-05	426E ER 16	5 – 4,0	17	27
C26E-06	426E ER 16	6 – 5,0	17	27
C26E-07	426E ER 16	7 – 6,0	17	27
C26E-08	426E ER 16	8 – 7,0	17	27
C26E-09	426E ER 16	9 – 8,0	17	27
C26E-10	426E ER 16	10 – 9,0	17	27

Note: High flexibility: Large holding capacity up to –1 mm


9.81

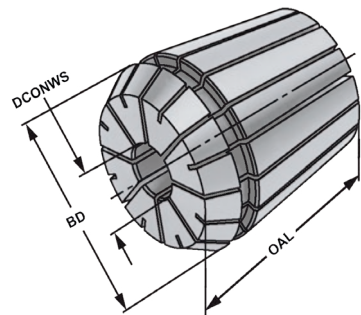

9.81


10.10

Collets ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools in collet
chucks DIN 6499.



ISO 15488

ER

$\leq 15\mu\text{m}$

Ch. 11

Order no.	Size	DCONWS	BD	OAL
C28E-02	428E ER 20	2 – 1,5	21	31,5
C28E-03	428E ER 20	3 – 2,0	21	31,5
C28E-04	428E ER 20	4 – 3,0	21	31,5
C28E-05	428E ER 20	5 – 4,0	21	31,5
C28E-06	428E ER 20	6 – 5,0	21	31,5
C28E-07	428E ER 20	7 – 6,0	21	31,5
C28E-08	428E ER 20	8 – 7,0	21	31,5
C28E-09	428E ER 20	9 – 8,0	21	31,5
C28E-10	428E ER 20	10 – 9,0	21	31,5
C28E-11	428E ER 20	11 – 10,0	21	31,5
C28E-12	428E ER 20	12 – 11,0	21	31,5
C28E-13	428E ER 20	13 – 12,0	21	31,5

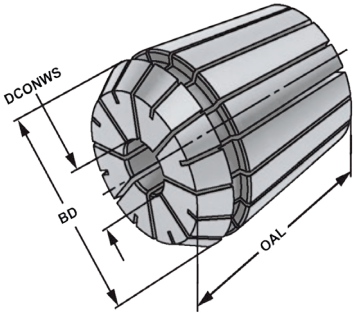
Note: High flexibility: Large holding capacity up to –1 mm



Collets ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools in collet
chucks DIN 6499.



ISO
15488

ER

$\leq 15\mu\text{m}$

Ch. 11

Order no.	Size	DCONWS	BD	OAL
C30E-02	430E ER 25	2 – 1,5	26	34
C30E-03	430E ER 25	3 – 2,0	26	34
C30E-04	430E ER 25	4 – 3,0	26	34
C30E-05	430E ER 25	5 – 4,0	26	34
C30E-06	430E ER 25	6 – 5,0	26	34
C30E-07	430E ER 25	7 – 6,0	26	34
C30E-08	430E ER 25	8 – 7,0	26	34
C30E-09	430E ER 25	9 – 8,0	26	34
C30E-10	430E ER 25	10 – 9,0	26	34
C30E-11	430E ER 25	11 – 10,0	26	34
C30E-12	430E ER 25	12 – 11,0	26	34
C30E-13	430E ER 25	13 – 12,0	26	34
C30E-14	430E ER 25	14 – 13,0	26	34
C30E-15	430E ER 25	15 – 14,0	26	34
C30E-16	430E ER 25	16 – 15,0	26	34

Note: High flexibility: Large holding capacity up to –1 mm

9.81

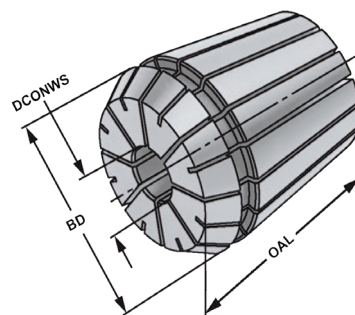
9.81

10.10

Collets ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools in collet
chucks DIN 6499.



ISO
15488

ER



Ch. 11

Order no.	Size	DCONWS	BD	OAL
C70E-02	470E ER 32	2 – 1,5	33	40
C70E-03	470E ER 32	3 – 2,0	33	40
C70E-04	470E ER 32	4 – 3,0	33	40
C70E-05	470E ER 32	5 – 4,0	33	40
C70E-06	470E ER 32	6 – 5,0	33	40
C70E-07	470E ER 32	7 – 6,0	33	40
C70E-08	470E ER 32	8 – 7,0	33	40
C70E-09	470E ER 32	9 – 8,0	33	40
C70E-10	470E ER 32	10 – 9,0	33	40
C70E-11	470E ER 32	11 – 10,0	33	40
C70E-12	470E ER 32	12 – 11,0	33	40
C70E-13	470E ER 32	13 – 12,0	33	40
C70E-14	470E ER 32	14 – 13,0	33	40
C70E-15	470E ER 32	15 – 14,0	33	40
C70E-16	470E ER 32	16 – 15,0	33	40
C70E-17	470E ER 32	17 – 16,0	33	40
C70E-18	470E ER 32	18 – 17,0	33	40
C70E-19	470E ER 32	19 – 18,0	33	40
C70E-20	470E ER 32	20 – 19,0	33	40

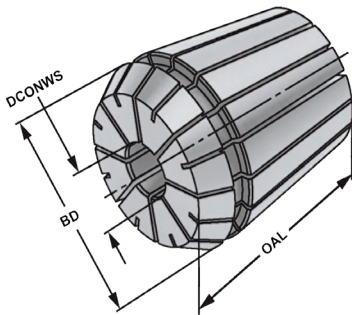
Note: High flexibility: Large holding capacity up to –1 mm



Collets ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools in collet
chucks DIN 6499.



ISO
15488

ER


≤15µm


Ch. 11

Order no.	Size	DCONWS	BD	OAL
C72E-03	472E ER 40	3 – 2,5	41	46
C72E-04	472E ER 40	4 – 3,0	41	46
C72E-05	472E ER 40	5 – 4,0	41	46
C72E-06	472E ER 40	6 – 5,0	41	46
C72E-07	472E ER 40	7 – 6,0	41	46
C72E-08	472E ER 40	8 – 7,0	41	46
C72E-09	472E ER 40	9 – 8,0	41	46
C72E-10	472E ER 40	10 – 9,0	41	46
C72E-11	472E ER 40	11 – 10,0	41	46
C72E-12	472E ER 40	12 – 11,0	41	46
C72E-13	472E ER 40	13 – 12,0	41	46
C72E-14	472E ER 40	14 – 13,0	41	46
C72E-15	472E ER 40	15 – 14,0	41	46
C72E-16	472E ER 40	16 – 15,0	41	46
C72E-17	472E ER 40	17 – 16,0	41	46
C72E-18	472E ER 40	18 – 17,0	41	46
C72E-19	472E ER 40	19 – 18,0	41	46
C72E-20	472E ER 40	20 – 19,0	41	46
C72E-21	472E ER 40	21 – 20,0	41	46
C72E-22	472E ER 40	22 – 21,0	41	46
C72E-23	472E ER 40	23 – 22,0	41	46
C72E-24	472E ER 40	24 – 23,0	41	46
C72E-25	472E ER 40	25 – 24,0	41	46
C72E-26	472E ER 40	26 – 25,0	41	46

Note: High flexibility: Large holding capacity up to –1 mm


9.81

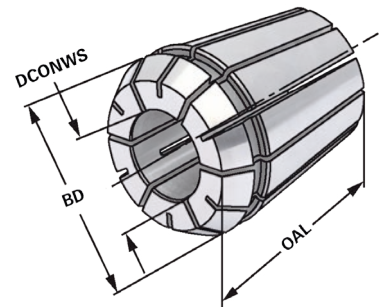

9.81


10.10

Precision collets ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools in collet
chucks DIN 6499.



ISO 15488

ER


≤5µm


Ch. 11

Order no.	Size	DCONWS	BD	OAL
C004EP-01	4004E ER 8	1,0 – 0,5	8,5	13,5
C004EP-015	4004E ER 8	1,5 – 1,0	8,5	13,5
C004EP-02	4004E ER 8	2,0 – 1,5	8,5	13,5
C004EP-025	4004E ER 8	2,5 – 2,0	8,5	13,5
C004EP-03	4004E ER 8	3,0 – 2,5	8,5	13,5
C004EP-035	4004E ER 8	3,5 – 3,0	8,5	13,5
C004EP-04	4004E ER 8	4,0 – 3,5	8,5	13,5
C004EP-045	4004E ER 8	4,5 – 4,0	8,5	13,5
C004EP-05	4004E ER 8	5,0 – 4,5	8,5	13,5

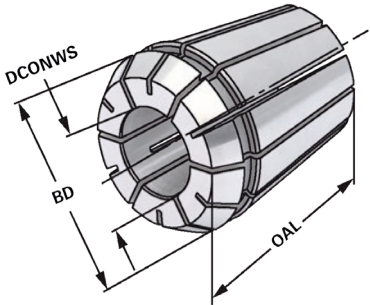
Note: Clamping capacity up to –0,5 mm



Precision collets ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools in collet chucks DIN 6499. To use for high speed cutting and high precision milling.



ISO 15488

ER

$\leq 5\mu\text{m}$

Ch. 11

Order no.	Size	DCONWS	BD	OAL
C008EP-01	4008E ER 11	1,0 – 0,5	11,5	18
C008EP-015	4008E ER 11	1,5 – 1,0	11,5	18
C008EP-02	4008E ER 11	2,0 – 1,5	11,5	18
C008EP-025	4008E ER 11	2,5 – 2,0	11,5	18
C008EP-03	4008E ER 11	3,0 – 2,5	11,5	18
C008EP-035	4008E ER 11	3,5 – 3,0	11,5	18
C008EP-04	4008E ER 11	4,0 – 3,5	11,5	18
C008EP-045	4008E ER 11	4,5 – 4,0	11,5	18
C008EP-05	4008E ER 11	5,0 – 4,5	11,5	18
C008EP-055	4008E ER 11	5,5 – 5,0	11,5	18
C008EP-06	4008E ER 11	6,0 – 5,5	11,5	18
C008EP-065	4008E ER 11	6,5 – 6,0	11,5	18
C008EP-07	4008E ER 11	7,0 – 6,5	11,5	18

Note: Clamping capacity up to –0,5 mm

9.82

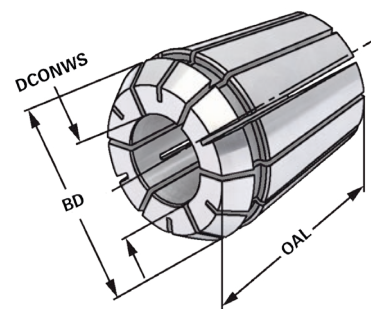
9.82

10.10

Precision collets | ER system



Application:
For mounting straight-shank tools in collet chucks DIN 6499. To use for high speed cutting and high precision milling.



ISO
15488

ER



i
Ch. 11

Order no.	Size	DCONWS	BD	OAL
C26EP-01	426E ER 16	1 – 0,5	17	27
C26EP-02	426E ER 16	2 – 1,0	17	27
C26EP-03	426E ER 16	3 – 2,0	17	27
C26EP-04	426E ER 16	4 – 3,0	17	27
C26EP-05	426E ER 16	5 – 4,0	17	27
C26EP-06	426E ER 16	6 – 5,0	17	27
C26EP-07	426E ER 16	7 – 6,0	17	27
C26EP-08	426E ER 16	8 – 7,0	17	27
C26EP-09	426E ER 16	9 – 8,0	17	27
C26EP-10	426E ER 16	10 – 9,0	17	27

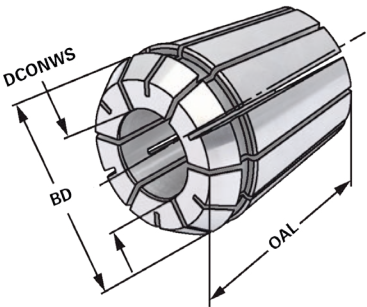
Note: High flexibility: Large holding capacity up to –1 mm



Precision collets ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools in collet chucks DIN 6499. To use for high speed cutting and high precision milling.



ISO
15488

ER

$\leq 5\mu\text{m}$

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Order no.	Size	DCONWS	BD	OAL
C28EP-02	428E ER 20	2 – 1,5	21	31,5
C28EP-03	428E ER 20	3 – 2,0	21	31,5
C28EP-04	428E ER 20	4 – 3,0	21	31,5
C28EP-05	428E ER 20	5 – 4,0	21	31,5
C28EP-06	428E ER 20	6 – 5,0	21	31,5
C28EP-07	428E ER 20	7 – 6,0	21	31,5
C28EP-08	428E ER 20	8 – 7,0	21	31,5
C28EP-09	428E ER 20	9 – 8,0	21	31,5
C28EP-10	428E ER 20	10 – 9,0	21	31,5
C28EP-11	428E ER 20	11 – 10,0	21	31,5
C28EP-12	428E ER 20	12 – 11,0	21	31,5
C28EP-13	428E ER 20	13 – 12,0	21	31,5

Note: High flexibility: Large holding capacity up to –1 mm

9.82

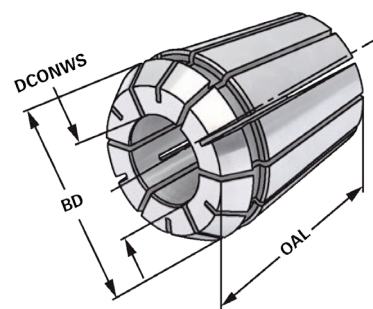
9.82

10.10

Precision collets ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools in collet chucks DIN 6499. To use for high speed cutting and high precision milling.



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Order no.	Size	DCONWS	BD	OAL
C30EP-02	430E ER 25	2 – 1,5	26	34
C30EP-03	430E ER 25	3 – 2,0	26	34
C30EP-04	430E ER 25	4 – 3,0	26	34
C30EP-05	430E ER 25	5 – 4,0	26	34
C30EP-06	430E ER 25	6 – 5,0	26	34
C30EP-07	430E ER 25	7 – 6,0	26	34
C30EP-08	430E ER 25	8 – 7,0	26	34
C30EP-09	430E ER 25	9 – 8,0	26	34
C30EP-10	430E ER 25	10 – 9,0	26	34
C30EP-11	430E ER 25	11 – 10,0	26	34
C30EP-12	430E ER 25	12 – 11,0	26	34
C30EP-13	430E ER 25	13 – 12,0	26	34
C30EP-14	430E ER 25	14 – 13,0	26	34
C30EP-15	430E ER 25	15 – 14,0	26	34
C30EP-16	430E ER 25	16 – 15,0	26	34

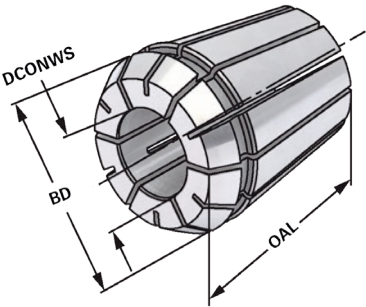
Note: High flexibility: Large holding capacity up to –1 mm



Precision collets ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools in collet chucks DIN 6499. To use for high speed cutting and high precision milling.



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ER

$\leq 5\mu\text{m}$

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Order no.	Size	DCONWS	BD	OAL
C70EP-02	470E ER 32	2 – 1,5	33	40
C70EP-03	470E ER 32	3 – 2,0	33	40
C70EP-04	470E ER 32	4 – 3,0	33	40
C70EP-05	470E ER 32	5 – 4,0	33	40
C70EP-06	470E ER 32	6 – 5,0	33	40
C70EP-07	470E ER 32	7 – 6,0	33	40
C70EP-08	470E ER 32	8 – 7,0	33	40
C70EP-09	470E ER 32	9 – 8,0	33	40
C70EP-10	470E ER 32	10 – 9,0	33	40
C70EP-11	470E ER 32	11 – 10,0	33	40
C70EP-12	470E ER 32	12 – 11,0	33	40
C70EP-13	470E ER 32	13 – 12,0	33	40
C70EP-14	470E ER 32	14 – 13,0	33	40
C70EP-15	470E ER 32	15 – 14,0	33	40
C70EP-16	470E ER 32	16 – 15,0	33	40
C70EP-17	470E ER 32	17 – 16,0	33	40
C70EP-18	470E ER 32	18 – 17,0	33	40
C70EP-19	470E ER 32	19 – 18,0	33	40
C70EP-20	470E ER 32	20 – 19,0	33	40

Note: High flexibility: Large holding capacity up to –1 mm

9.82

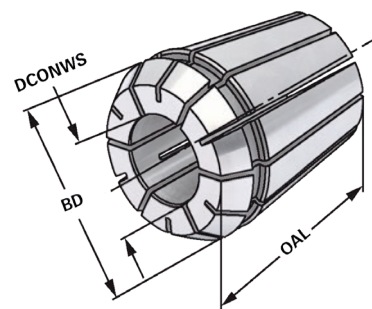
9.82

10.10

Precision collets ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools in collet chucks DIN 6499. To use for high speed cutting and high precision milling.



Order no.	Size	DCONWS	BD	OAL
C72EP-03	472E ER 40	3 – 2,5	41	46
C72EP-04	472E ER 40	4 – 3,0	41	46
C72EP-05	472E ER 40	5 – 4,0	41	46
C72EP-06	472E ER 40	6 – 5,0	41	46
C72EP-07	472E ER 40	7 – 6,0	41	46
C72EP-08	472E ER 40	8 – 7,0	41	46
C72EP-09	472E ER 40	9 – 8,0	41	46
C72EP-10	472E ER 40	10 – 9,0	41	46
C72EP-11	472E ER 40	11 – 10,0	41	46
C72EP-12	472E ER 40	12 – 11,0	41	46
C72EP-13	472E ER 40	13 – 12,0	41	46
C72EP-14	472E ER 40	14 – 13,0	41	46
C72EP-15	472E ER 40	15 – 14,0	41	46
C72EP-16	472E ER 40	16 – 15,0	41	46
C72EP-17	472E ER 40	17 – 16,0	41	46
C72EP-18	472E ER 40	18 – 17,0	41	46
C72EP-19	472E ER 40	19 – 18,0	41	46
C72EP-20	472E ER 40	20 – 19,0	41	46
C72EP-21	472E ER 40	21 – 20,0	41	46
C72EP-22	472E ER 40	22 – 21,0	41	46
C72EP-23	472E ER 40	23 – 22,0	41	46
C72EP-24	472E ER 40	24 – 23,0	41	46
C72EP-25	472E ER 40	25 – 24,0	41	46
C72EP-26	472E ER 40	26 – 25,0	41	46

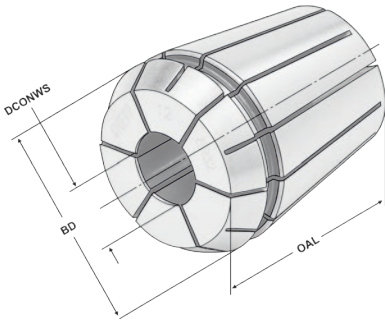
Note: High flexibility: Large holding capacity up to –1 mm



Precision collets | < 3 µm | ISO 15488 B (DIN 6499 B) ER-system



Application:
For mounting straight-shank tools in collet chucks DIN 6499. To use for high speed cutting and high precision milling.



ISO 15488

ER

≤3µm

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Order no.	Size	DCONWS	BD	OAL
C26EPP-02	426E ER 16	2	17	27
C26EPP-03	426E ER 16	3	17	27
C26EPP-04	426E ER 16	4	17	27
C26EPP-05	426E ER 16	5	17	27
C26EPP-06	426E ER 16	6	17	27
C26EPP-07	426E ER 16	7	17	27
C26EPP-08	426E ER 16	8	17	27
C26EPP-09	426E ER 16	9	17	27
C26EPP-10	426E ER 16	10	17	27

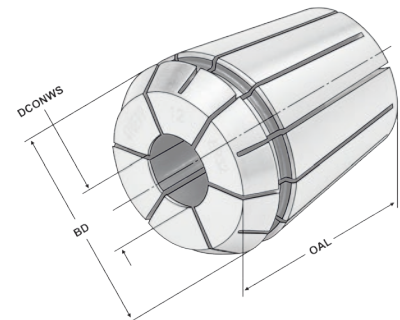
Note: Only nominal size DCONWS can be clamped.



Precision collets | < 3 µm | ISO 15488 B (DIN 6499 B) ER-system



Application:
For mounting straight-shank tools in collet chucks DIN 6499. To use for high speed cutting and high precision milling.



ISO 15488

ER

≤ 3µm

Ch. 11

Order no.	Size	DCONWS	BD	OAL
C28EPP-02	428E ER 20	2	21	31,5
C28EPP-03	428E ER 20	3	21	31,5
C28EPP-04	428E ER 20	4	21	31,5
C28EPP-05	428E ER 20	5	21	31,5
C28EPP-06	428E ER 20	6	21	31,5
C28EPP-07	428E ER 20	7	21	31,5
C28EPP-08	428E ER 20	8	21	31,5
C28EPP-09	428E ER 20	9	21	31,5
C28EPP-10	428E ER 20	10	21	31,5
C28EPP-11	428E ER 20	11	21	31,5
C28EPP-12	428E ER 20	12	21	31,5
C28EPP-13	428E ER 20	13	21	31,5

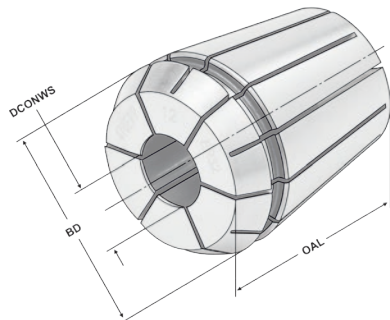
Note: Only nominal size DCONWS can be clamped.



Precision collets | < 3 µm | ISO 15488 B (DIN 6499 B) ER-system



Application:
For mounting straight-shank tools in collet chucks DIN 6499. To use for high speed cutting and high precision milling.



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≤3µm

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Order no.	Size	DCONWS	BD	OAL
C30EPP-02	430E ER 25	2	26	34
C30EPP-03	430E ER 25	3	26	34
C30EPP-04	430E ER 25	4	26	34
C30EPP-05	430E ER 25	5	26	34
C30EPP-06	430E ER 25	6	26	34
C30EPP-07	430E ER 25	7	26	34
C30EPP-08	430E ER 25	8	26	34
C30EPP-09	430E ER 25	9	26	34
C30EPP-10	430E ER 25	10	26	34
C30EPP-11	430E ER 25	11	26	34
C30EPP-12	430E ER 25	12	26	34
C30EPP-13	430E ER 25	13	26	34
C30EPP-14	430E ER 25	14	26	34
C30EPP-15	430E ER 25	15	26	34
C30EPP-16	430E ER 25	16	26	34

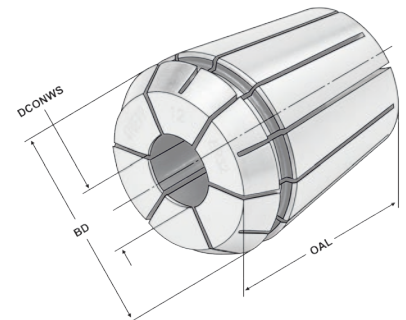
Note: Only nominal size DCONWS can be clamped.



Precision collets | < 3 µm | ISO 15488 B (DIN 6499 B) ER-system



Application:
For mounting straight-shank tools in collet chucks DIN 6499. To use for high speed cutting and high precision milling.



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ER



≤3µm

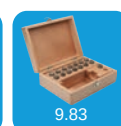
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Order no.	Size	DCONWS	BD	OAL
C70EPP-03	470E ER 32	3,0	33	40
C70EPP-035	470E ER 32	3,5	33	40
C70EPP-04	470E ER 32	4,0	33	40
C70EPP-045	470E ER 32	4,5	33	40
C70EPP-05	470E ER 32	5,0	33	40
C70EPP-055	470E ER 32	5,5	33	40
C70EPP-06	470E ER 32	6,0	33	40
C70EPP-065	470E ER 32	6,5	33	40
C70EPP-07	470E ER 32	7,0	33	40
C70EPP-075	470E ER 32	7,5	33	40
C70EPP-08	470E ER 32	8,0	33	40
C70EPP-085	470E ER 32	8,5	33	40
C70EPP-09	470E ER 32	9,0	33	40
C70EPP-095	470E ER 32	9,5	33	40
C70EPP-10	470E ER 32	10,0	33	40
C70EPP-105	470E ER 32	10,5	33	40
C70EPP-11	470E ER 32	11,0	33	40
C70EPP-115	470E ER 32	11,5	33	40
C70EPP-12	470E ER 32	12,0	33	40
C70EPP-125	470E ER 32	12,5	33	40
C70EPP-13	470E ER 32	13,0	33	40
C70EPP-135	470E ER 32	13,5	33	40
C70EPP-14	470E ER 32	14,0	33	40
C70EPP-145	470E ER 32	14,5	33	40
C70EPP-15	470E ER 32	15,0	33	40
C70EPP-155	470E ER 32	15,5	33	40
C70EPP-16	470E ER 32	16,0	33	40
C70EPP-165	470E ER 32	16,5	33	40
C70EPP-17	470E ER 32	17,0	33	40
C70EPP-175	470E ER 32	17,5	33	40
C70EPP-18	470E ER 32	18,0	33	40
C70EPP-185	470E ER 32	18,5	33	40
C70EPP-19	470E ER 32	19,0	33	40
C70EPP-195	470E ER 32	19,5	33	40
C70EPP-20	470E ER 32	20,0	33	40

Note: Only nominal size DCONWS can be clamped.



9.83



9.83

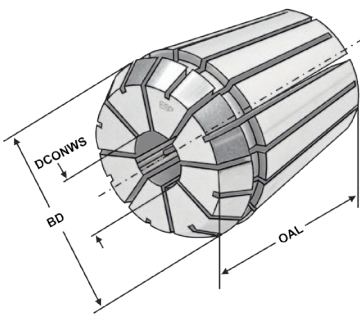


10.10

Precision collets ISO 15488 B (DIN 6499 B) | ER system - stainless steel



Application:
For mounting straight-shank tools in collet chucks DIN 6499. To use for high speed cutting and high precision milling.



ISO 15488

ER

$\leq 5\mu\text{m}$

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Order no.	Size	DCONWS	BD	OAL
C008ESP-03	4008E ER 11	3,0 – 2,5	11,5	18
C008ESP-035	4008E ER 11	3,5 – 3,0	11,5	18
C008ESP-04	4008E ER 11	4,0 – 3,5	11,5	18
C008ESP-045	4008E ER 11	4,5 – 4,0	11,5	18
C008ESP-05	4008E ER 11	5,0 – 4,5	11,5	18
C008ESP-055	4008E ER 11	5,5 – 5,0	11,5	18
C008ESP-06	4008E ER 11	6,0 – 5,5	11,5	18
C008ESP-065	4008E ER 11	6,5 – 6,0	11,5	18
C008ESP-07	4008E ER 11	7,0 – 6,5	11,5	18

Note: Clamping capacity up to –0,5 mm

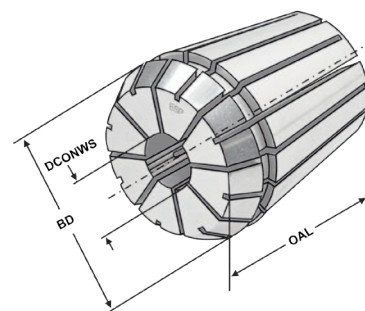
- Rustproof
- Stainless steel 1.4021 x 20Cr13
- Higher repeat-accuracy
- Honed collet boring
- Especially suitable fore wire EDM



Precision collets ISO 15488 B (DIN 6499 B) | ER system - stainless steel



Application:
For mounting straight-shank tools in collet chucks DIN 6499. To use for high speed cutting and high precision milling.



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Order no.	Size	DCONWS	BD	OAL
C26ESP-03	426E ER 16	3 – 2,5	17	27
C26ESP-035	426E ER 16	3,5 – 3,0	17	27
C26ESP-04	426E ER 16	4 – 3,5	17	27
C26ESP-045	426E ER 16	4,5 – 4,0	17	27
C26ESP-05	426E ER 16	5 – 4,5	17	27
C26ESP-055	426E ER 16	5,5 – 5,0	17	27
C26ESP-06	426E ER 16	6 – 5,5	17	27
C26ESP-065	426E ER 16	6,5 – 6,0	17	27
C26ESP-07	426E ER 16	7 – 6,5	17	27
C26ESP-075	426E ER 16	7,5 – 7,0	17	27
C26ESP-08	426E ER 16	8 – 7,5	17	27
C26ESP-085	426E ER 16	8,5 – 8,0	17	27
C26ESP-09	426E ER 16	9 – 8,5	17	27
C26ESP-095	426E ER 16	9,5 – 9,0	17	27
C26ESP-10	426E ER 16	10 – 9,5	17	27

9

Note: Clamping capacity up to –0,5 mm

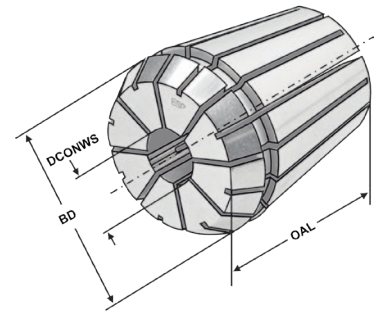
- Rustproof
- Stainless steel 1.4021 x 20Cr13
- Higher repeat-accuracy
- Honed collet boring
- Especially suitable fore wire EDM



Precision collets ISO 15488 B (DIN 6499 B) | ER system - stainless steel



Application:
For mounting straight-shank tools in collet chucks DIN 6499. To use for high speed cutting and high precision milling.



Order no.	Size	DCONWS	BD	OAL
C28ESP-03	428E ER 20	3,0 – 2,5	21	31,5
C28ESP-035	428E ER 20	3,5 – 3,0	21	31,5
C28ESP-04	428E ER 20	4,0 – 3,5	21	31,5
C28ESP-045	428E ER 20	4,5 – 4,0	21	31,5
C28ESP-05	428E ER 20	5,0 – 4,5	21	31,5
C28ESP-055	428E ER 20	5,5 – 5,0	21	31,5
C28ESP-06	428E ER 20	6,0 – 5,5	21	31,5
C28ESP-065	428E ER 20	6,5 – 6,0	21	31,5
C28ESP-07	428E ER 20	7,0 – 6,5	21	31,5
C28ESP-075	428E ER 20	7,5 – 7,0	21	31,5
C28ESP-08	428E ER 20	8,0 – 7,5	21	31,5
C28ESP-085	428E ER 20	8,5 – 8,0	21	31,5
C28ESP-09	428E ER 20	9,0 – 8,5	21	31,5
C28ESP-095	428E ER 20	9,5 – 9,0	21	31,5
C28ESP-10	428E ER 20	10,0 – 9,5	21	31,5
C28ESP-105	428E ER 20	10,5 – 10,0	21	31,5
C28ESP-11	428E ER 20	11,0 – 10,5	21	31,5
C28ESP-115	428E ER 20	11,5 – 11,0	21	31,5
C28ESP-12	428E ER 20	12,0 – 11,5	21	31,5
C28ESP-125	428E ER 20	12,5 – 12,0	21	31,5
C28ESP-13	428E ER 20	13,0 – 12,5	21	31,5

Note: Clamping capacity up to –0,5 mm

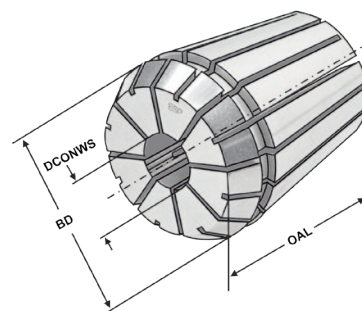
- Rustproof
- Stainless steel 1.4021 x 20Cr13
- Higher repeat-accuracy
- Honed collet boring
- Especially suitable fore wire EDM



Precision collets ISO 15488 B (DIN 6499 B) | ER system - stainless steel



Application:
For mounting straight-shank tools in collet chucks DIN 6499. To use for high speed cutting and high precision milling.



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Order no.	Size	DCONWS	BD	OAL
C30ESP-03	430E ER 25	3,0 – 2,5	26	34
C30ESP-035	430E ER 25	3,5 – 3,0	26	34
C30ESP-04	430E ER 25	4,0 – 3,5	26	34
C30ESP-045	430E ER 25	4,5 – 4,0	26	34
C30ESP-05	430E ER 25	5,0 – 4,5	26	34
C30ESP-055	430E ER 25	5,5 – 5,0	26	34
C30ESP-06	430E ER 25	6,0 – 5,5	26	34
C30ESP-065	430E ER 25	6,5 – 6,0	26	34
C30ESP-07	430E ER 25	7,0 – 6,5	26	34
C30ESP-075	430E ER 25	7,5 – 7,0	26	34
C30ESP-08	430E ER 25	8,0 – 7,5	26	34
C30ESP-085	430E ER 25	8,5 – 8,0	26	34
C30ESP-09	430E ER 25	9,0 – 8,5	26	34
C30ESP-095	430E ER 25	9,5 – 9,0	26	34
C30ESP-10	430E ER 25	10,0 – 9,5	26	34
C30ESP-105	430E ER 25	10,5 – 10,0	26	34
C30ESP-11	430E ER 25	11,0 – 10,5	26	34
C30ESP-115	430E ER 25	11,5 – 11,0	26	34
C30ESP-12	430E ER 25	12,0 – 11,5	26	34
C30ESP-125	430E ER 25	12,5 – 12,0	26	34
C30ESP-13	430E ER 25	13,0 – 12,5	26	34
C30ESP-135	430E ER 25	13,5 – 13,0	26	34
C30ESP-14	430E ER 25	14,0 – 13,5	26	34
C30ESP-145	430E ER 25	14,5 – 14,0	26	34
C30ESP-15	430E ER 25	15,0 – 14,5	26	34
C30ESP-155	430E ER 25	15,5 – 15,0	26	34
C30ESP-16	430E ER 25	16,0 – 15,5	26	34

Note: Clamping capacity up to –0,5 mm

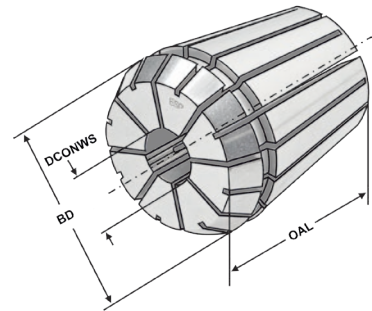
- Rustproof
- Stainless steel 1.4021 x 20Cr13
- Higher repeat-accuracy
- Honed collet boring
- Especially suitable fore wire EDM



Precision collets ISO 15488 B (DIN 6499 B) | ER system - stainless steel



Application:
For mounting straight-shank tools in collet chucks DIN 6499. To use for high speed cutting and high precision milling.



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15488

ER



≤5µm

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Ch. 11

Order no.	Size	DCONWS	BD	OAL
C70ESP-03	470E ER 32	3,0 – 2,5	33	40
C70ESP-035	470E ER 32	3,5 – 3,0	33	40
C70ESP-04	470E ER 32	4,0 – 3,5	33	40
C70ESP-045	470E ER 32	4,5 – 4,0	33	40
C70ESP-05	470E ER 32	5,0 – 4,5	33	40
C70ESP-055	470E ER 32	5,5 – 5,0	33	40
C70ESP-06	470E ER 32	6,0 – 5,5	33	40
C70ESP-065	470E ER 32	6,5 – 6,0	33	40
C70ESP-07	470E ER 32	7,0 – 6,5	33	40
C70ESP-075	470E ER 32	7,5 – 7,0	33	40
C70ESP-08	470E ER 32	8,0 – 7,5	33	40
C70ESP-085	470E ER 32	8,5 – 8,0	33	40
C70ESP-09	470E ER 32	9,0 – 8,5	33	40
C70ESP-095	470E ER 32	9,5 – 9,0	33	40
C70ESP-10	470E ER 32	10,0 – 9,5	33	40
C70ESP-105	470E ER 32	10,5 – 10,0	33	40
C70ESP-11	470E ER 32	11,0 – 10,5	33	40
C70ESP-115	470E ER 32	11,5 – 11,0	33	40
C70ESP-12	470E ER 32	12,0 – 11,5	33	40
C70ESP-125	470E ER 32	12,5 – 12,0	33	40
C70ESP-13	470E ER 32	13,0 – 12,5	33	40
C70ESP-135	470E ER 32	13,5 – 13,0	33	40
C70ESP-14	470E ER 32	14,0 – 13,5	33	40
C70ESP-145	470E ER 32	14,5 – 14,0	33	40
C70ESP-15	470E ER 32	15,0 – 14,5	33	40
C70ESP-155	470E ER 32	15,5 – 15,0	33	40
C70ESP-16	470E ER 32	16,0 – 15,5	33	40
C70ESP-165	470E ER 32	16,5 – 16,0	33	40
C70ESP-17	470E ER 32	17,0 – 16,5	33	40
C70ESP-175	470E ER 32	17,5 – 17,0	33	40
C70ESP-18	470E ER 32	18,0 – 17,5	33	40
C70ESP-185	470E ER 32	18,5 – 18,0	33	40
C70ESP-19	470E ER 32	19,0 – 18,5	33	40
C70ESP-195	470E ER 32	19,5 – 19,0	33	40
C70ESP-20	470E ER 32	20,0 – 19,5	33	40



9.84



9.84



10.10

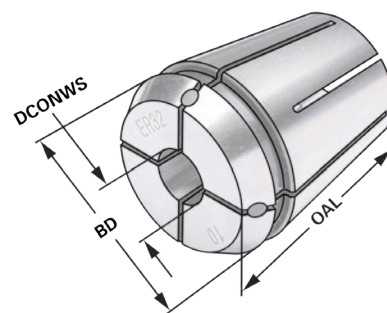
Note:

Clamping capacity up to –0,5 mm

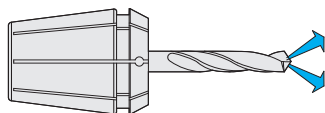
Collets sealed for IC - ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools with internal cooling in collet chucks DIN 6499



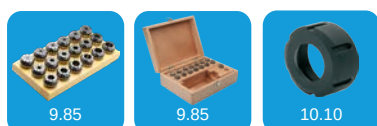
Order no.	Size	DCONWS	BD	OAL
C26EA-03	426E ER 16	3	17	27
C26EA-04	426E ER 16	4	17	27
C26EA-05	426E ER 16	5	17	27
C26EA-06	426E ER 16	6	17	27
C26EA-07	426E ER 16	7	17	27
C26EA-08	426E ER 16	8	17	27
C26EA-09	426E ER 16	9	17	27
C26EA-10	426E ER 16	10	17	27



9

Note:

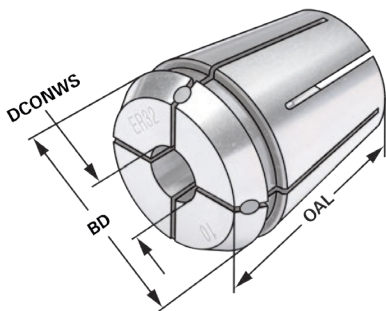
Only nominal size DCONWS can be clamped with sealing plug for internal cooling (applicable up to 21 bar). In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.



Collets sealed for IC - ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools with internal cooling in collet chucks DIN 6499



ISO 15488

ER

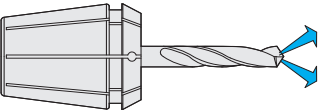
≤15µm

21 bar

i

Ch. 11

Order no.	Size	DCONWS	BD	OAL
C28EA-03	428E ER 20	3	21	31,5
C28EA-04	428E ER 20	4	21	31,5
C28EA-05	428E ER 20	5	21	31,5
C28EA-06	428E ER 20	6	21	31,5
C28EA-07	428E ER 20	7	21	31,5
C28EA-08	428E ER 20	8	21	31,5
C28EA-09	428E ER 20	9	21	31,5
C28EA-10	428E ER 20	10	21	31,5
C28EA-11	428E ER 20	11	21	31,5
C28EA-12	428E ER 20	12	21	31,5
C28EA-13	428E ER 20	13	21	31,5



Note: Only nominal size DCONWS can be clamped with sealing plug for internal cooling (applicable up to 21 bar). In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.



9.85

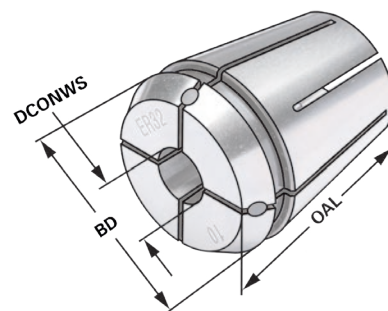
9.85

10.10

Collets sealed for IC - ISO 15488 B (DIN 6499 B) | ER system

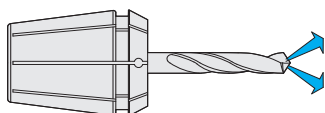


Application:
For mounting straight-shank tools with internal cooling in collet chucks DIN 6499



Order no.	Size	DCONWS	BD	OAL
C30EA-03	430E ER 25	3	26	34
C30EA-04	430E ER 25	4	26	34
C30EA-05	430E ER 25	5	26	34
C30EA-06	430E ER 25	6	26	34
C30EA-07	430E ER 25	7	26	34
C30EA-08	430E ER 25	8	26	34
C30EA-09	430E ER 25	9	26	34
C30EA-10	430E ER 25	10	26	34
C30EA-11	430E ER 25	11	26	34
C30EA-12	430E ER 25	12	26	34
C30EA-13	430E ER 25	13	26	34
C30EA-14	430E ER 25	14	26	34
C30EA-15	430E ER 25	15	26	34
C30EA-16	430E ER 25	16	26	34

9



Note:

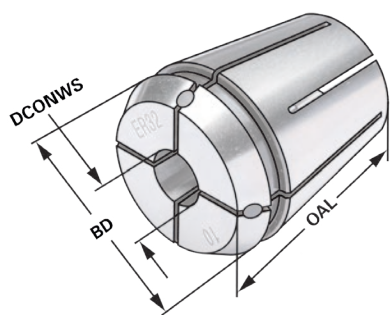
Only nominal size DCONWS can be clamped with sealing plug for internal cooling (applicable up to 21 bar). In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.



Collets sealed for IC - ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools with internal cooling in collet chucks DIN 6499



ISO 15488

ER

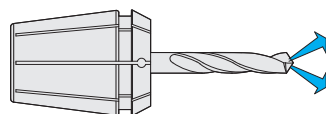
≤15µm

21 bar

i

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Order no.	Size	DCONWS	BD	OAL
C70EA-03	470E ER 32	3	33	40
C70EA-04	470E ER 32	4	33	40
C70EA-05	470E ER 32	5	33	40
C70EA-06	470E ER 32	6	33	40
C70EA-07	470E ER 32	7	33	40
C70EA-08	470E ER 32	8	33	40
C70EA-09	470E ER 32	9	33	40
C70EA-10	470E ER 32	10	33	40
C70EA-11	470E ER 32	11	33	40
C70EA-12	470E ER 32	12	33	40
C70EA-13	470E ER 32	13	33	40
C70EA-14	470E ER 32	14	33	40
C70EA-15	470E ER 32	15	33	40
C70EA-16	470E ER 32	16	33	40
C70EA-17	470E ER 32	17	33	40
C70EA-18	470E ER 32	18	33	40
C70EA-19	470E ER 32	19	33	40
C70EA-20	470E ER 32	20	33	40



Note: Only nominal size DCONWS can be clamped with sealing plug for internal cooling (applicable up to 21 bar). In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.



9.85

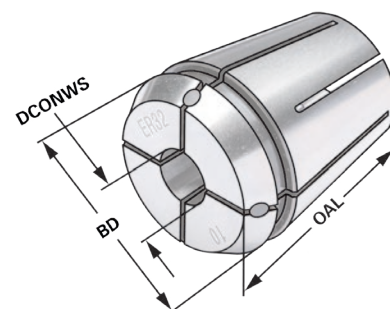
9.85

10.10

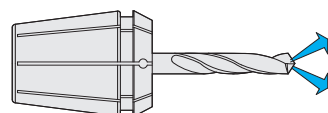
Collets sealed for IC - ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools with internal cooling in collet chucks DIN 6499

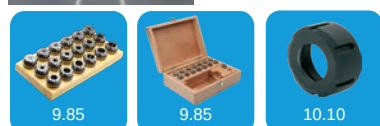


Order no.	Size	DCONWS	BD	OAL
C72EA-03	472E ER 40	3	41	46
C72EA-04	472E ER 40	4	41	46
C72EA-05	472E ER 40	5	41	46
C72EA-06	472E ER 40	6	41	46
C72EA-07	472E ER 40	7	41	46
C72EA-08	472E ER 40	8	41	46
C72EA-09	472E ER 40	9	41	46
C72EA-10	472E ER 40	10	41	46
C72EA-11	472E ER 40	11	41	46
C72EA-12	472E ER 40	12	41	46
C72EA-13	472E ER 40	13	41	46
C72EA-14	472E ER 40	14	41	46
C72EA-15	472E ER 40	15	41	46
C72EA-16	472E ER 40	16	41	46
C72EA-17	472E ER 40	17	41	46
C72EA-18	472E ER 40	18	41	46
C72EA-19	472E ER 40	19	41	46
C72EA-20	472E ER 40	20	41	46
C72EA-21	472E ER 40	21	41	46
C72EA-22	472E ER 40	22	41	46
C72EA-23	472E ER 40	23	41	46
C72EA-24	472E ER 40	24	41	46
C72EA-25	472E ER 40	25	41	46
C72EA-26	472E ER 40	26	41	46



Note:

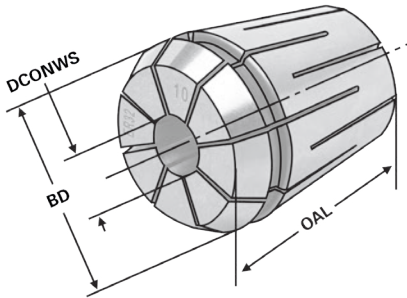
Only nominal size DCONWS can be clamped with sealing plug for internal cooling (applicable up to 21 bar). In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.



Collets steel sealed for high pressure cooling up to 120 bar | ER system



Application:
For mounting straight-shank tools with internal cooling in collet chucks DIN 6499



ISO 15488

ER

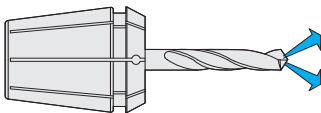
≤15µm

120 bar

i

Ch. 11

Order no.	Size	DCONWS	BD	OAL
C26EH-03	426E ER 16	3	17	27
C26EH-04	426E ER 16	4	17	27
C26EH-05	426E ER 16	5	17	27
C26EH-06	426E ER 16	6	17	27
C26EH-07	426E ER 16	7	17	27
C26EH-08	426E ER 16	8	17	27
C26EH-09	426E ER 16	9	17	27
C26EH-10	426E ER 16	10	17	27



Note: Only nominal size DCONWS can be clamped (applicable up to 120 bar). In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.

9.86

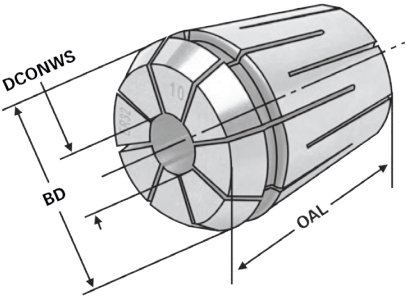
9.86

10.10

Collets steel sealed for high pressure cooling up to 120 bar | ER system



Application:
For mounting straight-shank tools with internal cooling in collet chucks DIN 6499



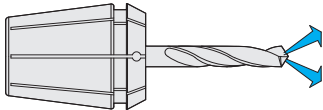
ISO 15488

ER

120 bar

Ch. 11

Order no.	Size	DCONWS	BD	OAL
C28EH-03	428E ER 20	3	21	31,5
C28EH-04	428E ER 20	4	21	31,5
C28EH-05	428E ER 20	5	21	31,5
C28EH-06	428E ER 20	6	21	31,5
C28EH-07	428E ER 20	7	21	31,5
C28EH-08	428E ER 20	8	21	31,5
C28EH-09	428E ER 20	9	21	31,5
C28EH-10	428E ER 20	10	21	31,5
C28EH-11	428E ER 20	11	21	31,5
C28EH-12	428E ER 20	12	21	31,5
C28EH-13	428E ER 20	13	21	31,5



Note: *Only nominal size DCONWS can be clamped (applicable up to 120 bar). In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.*

9.86

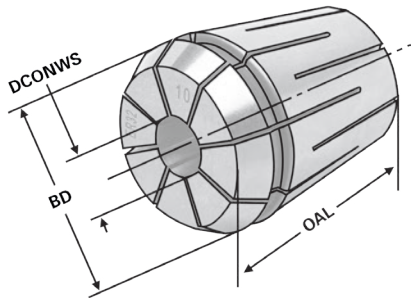
9.86

10.10

Collets steel sealed for high pressure cooling up to 120 bar | ER system



Application:
For mounting straight-shank tools with internal cooling in collet chucks DIN 6499



ISO 15488

ER

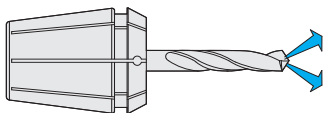
≤15µm

120 bar

i

Ch. 11

Order no.	Size	DCONWS	BD	OAL
C30EH-03	430E ER 25	3	26	34
C30EH-04	430E ER 25	4	26	34
C30EH-05	430E ER 25	5	26	34
C30EH-06	430E ER 25	6	26	34
C30EH-07	430E ER 25	7	26	34
C30EH-08	430E ER 25	8	26	34
C30EH-09	430E ER 25	9	26	34
C30EH-10	430E ER 25	10	26	34
C30EH-11	430E ER 25	11	26	34
C30EH-12	430E ER 25	12	26	34
C30EH-13	430E ER 25	13	26	34
C30EH-14	430E ER 25	14	26	34
C30EH-15	430E ER 25	15	26	34
C30EH-16	430E ER 25	16	26	34



Note: Only nominal size DCONWS can be clamped (applicable up to 120 bar). In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.



9.86

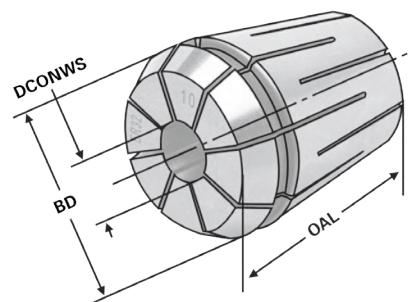
9.86

10.10

Collets steel sealed for high pressure cooling up to 120 bar | ER system



Application:
For mounting straight-shank tools with internal cooling in collet chucks DIN 6499



ISO
15488

ER



≤15µm

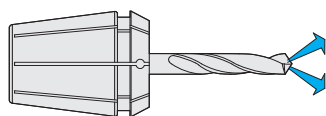


120 bar

i
Ch. 11

Order no.	Size	DCONWS	BD	OAL
C70EH-03	470E ER 32	3	33	40
C70EH-04	470E ER 32	4	33	40
C70EH-05	470E ER 32	5	33	40
C70EH-06	470E ER 32	6	33	40
C70EH-07	470E ER 32	7	33	40
C70EH-08	470E ER 32	8	33	40
C70EH-09	470E ER 32	9	33	40
C70EH-10	470E ER 32	10	33	40
C70EH-11	470E ER 32	11	33	40
C70EH-12	470E ER 32	12	33	40
C70EH-13	470E ER 32	13	33	40
C70EH-14	470E ER 32	14	33	40
C70EH-15	470E ER 32	15	33	40
C70EH-16	470E ER 32	16	33	40
C70EH-17	470E ER 32	17	33	40
C70EH-18	470E ER 32	18	33	40
C70EH-19	470E ER 32	19	33	40
C70EH-20	470E ER 32	20	33	40

9



Note:

Only nominal size DCONWS can be clamped (applicable up to 120 bar). In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.



9.86



9.86

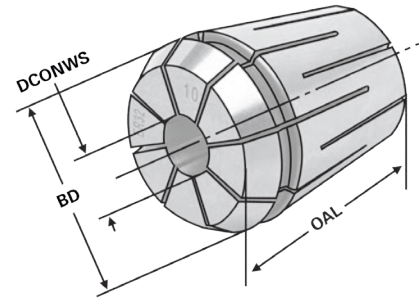


10.10

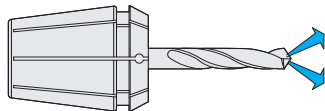
Collets steel sealed for high pressure cooling up to 120 bar | ER system



Application:
For mounting straight-shank tools with internal cooling in collet chucks DIN 6499



Order no.	Size	DCONWS	BD	OAL
C72EH-04	472E ER 40	4	41	46
C72EH-05	472E ER 40	5	41	46
C72EH-06	472E ER 40	6	41	46
C72EH-07	472E ER 40	7	41	46
C72EH-08	472E ER 40	8	41	46
C72EH-09	472E ER 40	9	41	46
C72EH-10	472E ER 40	10	41	46
C72EH-11	472E ER 40	11	41	46
C72EH-12	472E ER 40	12	41	46
C72EH-13	472E ER 40	13	41	46
C72EH-14	472E ER 40	14	41	46
C72EH-15	472E ER 40	15	41	46
C72EH-16	472E ER 40	16	41	46
C72EH-17	472E ER 40	17	41	46
C72EH-18	472E ER 40	18	41	46
C72EH-19	472E ER 40	19	41	46
C72EH-20	472E ER 40	20	41	46
C72EH-21	472E ER 40	21	41	46
C72EH-22	472E ER 40	22	41	46
C72EH-23	472E ER 40	23	41	46
C72EH-24	472E ER 40	24	41	46
C72EH-25	472E ER 40	25	41	46
C72EH-26	472E ER 40	26	41	46



Note:

Only nominal size DCONWS can be clamped (applicable up to 120 bar). In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.

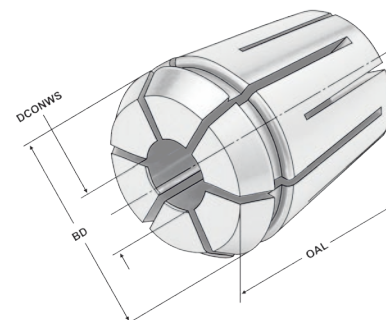


Precision collets sealed for high pressure cooling up to 120 bar

< 3 µm | ISO 15488 B (DIN 6499 B) ER

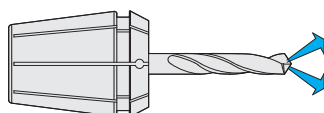


Application:
For mounting straight-shank tools with internal cooling in collet chucks DIN 6499



Order no.	Size	DCONWS	BD	OAL
C26EHP-03	426E ER 16	3	17	27
C26EHP-04	426E ER 16	4	17	27
C26EHP-05	426E ER 16	5	17	27
C26EHP-06	426E ER 16	6	17	27
C26EHP-07	426E ER 16	7	17	27
C26EHP-08	426E ER 16	8	17	27
C26EHP-09	426E ER 16	9	17	27
C26EHP-10	426E ER 16	10	17	27

9



Note:

Only nominal size DCONWS can be clamped.
Applicable up to 120 bar.
In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.

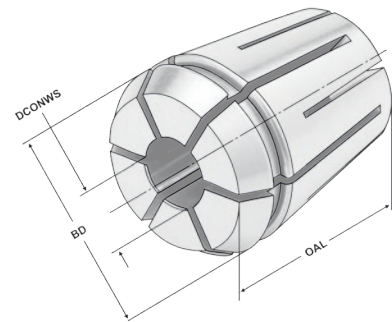


Precision collets sealed for high pressure cooling up to 120 bar

< 3 µm | ISO 15488 B (DIN 6499 B) ER



Application:
For mounting straight-shank tools with internal cooling in collet chucks DIN 6499



ISO 15488

ER

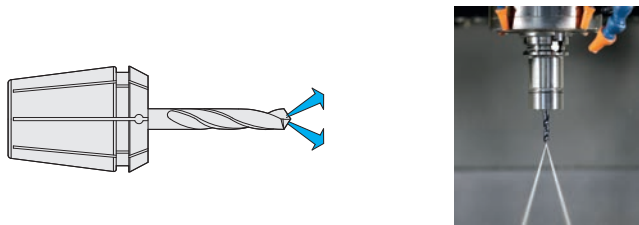
≤3µm

120 bar

i

Ch. 11

Order no.	Size	DCONWS	BD	OAL
C28EHP-03	428E ER 20	3	21	31,5
C28EHP-04	428E ER 20	4	21	31,5
C28EHP-05	428E ER 20	5	21	31,5
C28EHP-06	428E ER 20	6	21	31,5
C28EHP-07	428E ER 20	7	21	31,5
C28EHP-08	428E ER 20	8	21	31,5
C28EHP-09	428E ER 20	9	21	31,5
C28EHP-10	428E ER 20	10	21	31,5
C28EHP-11	428E ER 20	11	21	31,5
C28EHP-12	428E ER 20	12	21	31,5
C28EHP-13	428E ER 20	13	21	31,5



Note: *Only nominal size DCONWS can be clamped.
Applicable up to 120 bar.
In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.*

9.87

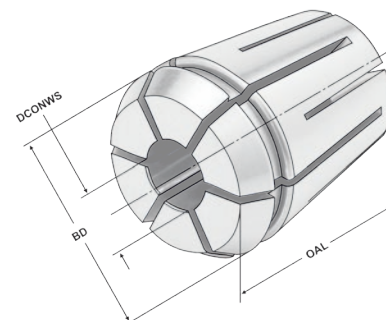
10.10

Precision collets sealed for high pressure cooling up to 120 bar

< 3 µm | ISO 15488 B (DIN 6499 B) ER

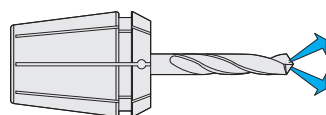


Application:
For mounting straight-shank tools with internal cooling in collet chucks DIN 6499



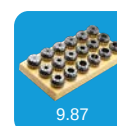
Order no.	Size	DCONWS	BD	OAL
C30EHP-03	430E ER 25	3	26	34
C30EHP-04	430E ER 25	4	26	34
C30EHP-05	430E ER 25	5	26	34
C30EHP-06	430E ER 25	6	26	34
C30EHP-07	430E ER 25	7	26	34
C30EHP-08	430E ER 25	8	26	34
C30EHP-09	430E ER 25	9	26	34
C30EHP-10	430E ER 25	10	26	34
C30EHP-11	430E ER 25	11	26	34
C30EHP-12	430E ER 25	12	26	34
C30EHP-13	430E ER 25	13	26	34
C30EHP-14	430E ER 25	14	26	34
C30EHP-15	430E ER 25	15	26	34
C30EHP-16	430E ER 25	16	26	34

9



Note:

Only nominal size DCONWS can be clamped.
Applicable up to 120 bar.
In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.

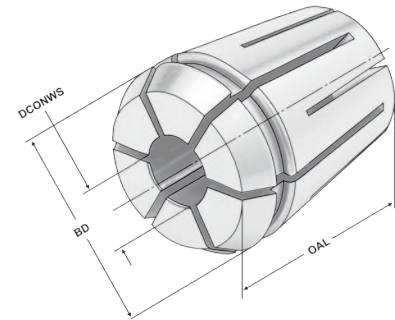


Precision collets sealed for high pressure cooling up to 120 bar

< 3 µm | ISO 15488 B (DIN 6499 B) ER



Application:
For mounting straight-shank tools with internal cooling in collet chucks DIN 6499



ISO 15488

ER

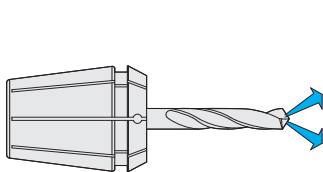
≤3µm

120 bar

i

Ch. 11

Bestll-Nr. Order no. Référence	Size	DCONWS	BD	OAL
C70EHP-03	470E ER 32	3	33	40
C70EHP-04	470E ER 32	4	33	40
C70EHP-05	470E ER 32	5	33	40
C70EHP-06	470E ER 32	6	33	40
C70EHP-07	470E ER 32	7	33	40
C70EHP-08	470E ER 32	8	33	40
C70EHP-09	470E ER 32	9	33	40
C70EHP-10	470E ER 32	10	33	40
C70EHP-11	470E ER 32	11	33	40
C70EHP-12	470E ER 32	12	33	40
C70EHP-13	470E ER 32	13	33	40
C70EHP-14	470E ER 32	14	33	40
C70EHP-15	470E ER 32	15	33	40
C70EHP-16	470E ER 32	16	33	40
C70EHP-17	470E ER 32	17	33	40
C70EHP-18	470E ER 32	18	33	40
C70EHP-19	470E ER 32	19	33	40
C70EHP-20	470E ER 32	20	33	40



Note: Only nominal size DCONWS can be clamped.
Applicable up to 120 bar.
In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.

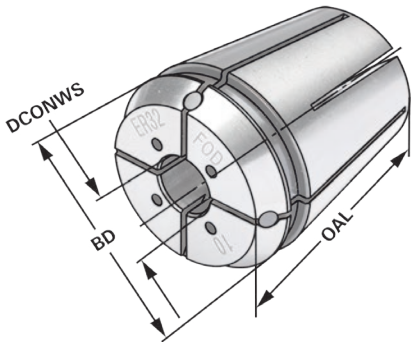
9.87

10.10

Collets with cooling channels ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools in
collet chucks DIN 6499.



ISO 15488

ER

$\leq 15\mu\text{m}$

21 bar

Ch. 11

Order no.	Size	DCONWS	BD	OAL
C26EC-03	426E ER 16	3	17	27
C26EC-04	426E ER 16	4	17	27
C26EC-05	426E ER 16	5	17	27
C26EC-06	426E ER 16	6	17	27
C26EC-07	426E ER 16	7	17	27



Note:

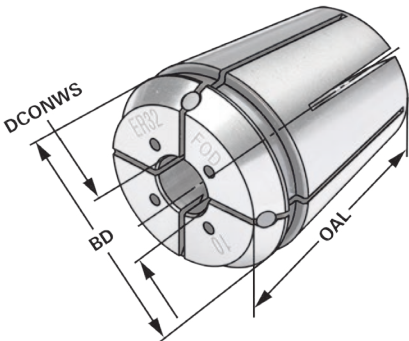
Only nominal size DCONWS can be clamped, with cooling channels. Applicable up to 21 bar.
In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.



Collets with cooling channels ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools in
collet chucks DIN 6499.



ISO
15488

ER

≤15µm

21 bar

Ch. 11

Order no.	Size	DCONWS	BD	OAL
C28EC-04	428E ER 20	4	21	31,5
C28EC-05	428E ER 20	5	21	31,5
C28EC-06	428E ER 20	6	21	31,5
C28EC-07	428E ER 20	7	21	31,5
C28EC-08	428E ER 20	8	21	31,5
C28EC-09	428E ER 20	9	21	31,5



Note:

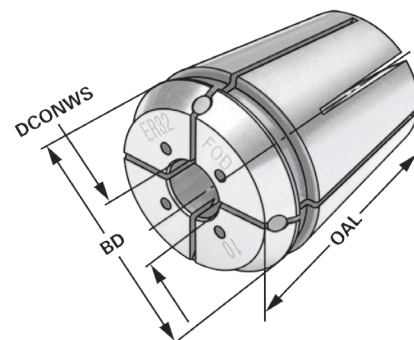
Only nominal size DCONWS can be clamped, with cooling channels. Applicable up to 21 bar.
In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.



Collets with cooling channels ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools in
collet chucks DIN 6499.



Order no.	Size	DCONWS	BD	OAL
C30EC-03	430E ER 25	3	26	34
C30EC-04	430E ER 25	4	26	34
C30EC-05	430E ER 25	5	26	34
C30EC-06	430E ER 25	6	26	34
C30EC-07	430E ER 25	7	26	34
C30EC-08	430E ER 25	8	26	34
C30EC-09	430E ER 25	9	26	34
C30EC-10	430E ER 25	10	26	34
C30EC-11	430E ER 25	11	26	34
C30EC-12	430E ER 25	12	26	34
C30EC-13	430E ER 25	13	26	34
C30EC-14	430E ER 25	14	26	34



9

Note:

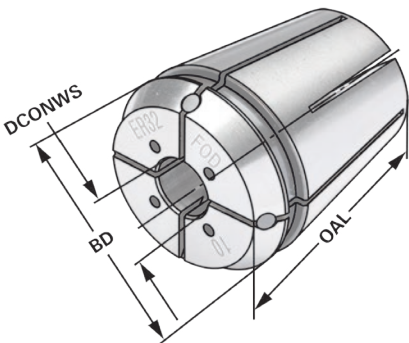
Only nominal size DCONWS can be clamped, with cooling channels. Applicable up to 21 bar.
In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.



Collets with cooling channels ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools in
collet chucks DIN 6499.



ISO 15488

ER

≤15µm

21 bar

Ch. 11

Order no.	Size	DCONWS	BD	OAL
C70EC-03	470E ER 32	3	33	40
C70EC-04	470E ER 32	4	33	40
C70EC-05	470E ER 32	5	33	40
C70EC-06	470E ER 32	6	33	40
C70EC-07	470E ER 32	7	33	40
C70EC-08	470E ER 32	8	33	40
C70EC-09	470E ER 32	9	33	40
C70EC-10	470E ER 32	10	33	40
C70EC-11	470E ER 32	11	33	40
C70EC-12	470E ER 32	12	33	40
C70EC-13	470E ER 32	13	33	40
C70EC-14	470E ER 32	14	33	40
C70EC-15	470E ER 32	15	33	40
C70EC-16	470E ER 32	16	33	40
C70EC-17	470E ER 32	17	33	40
C70EC-18	470E ER 32	18	33	40
C70EC-19	470E ER 32	19	33	40
C70EC-20	470E ER 32	20	33	40



Note: Only nominal size DCONWS can be clamped, with cooling channels. Applicable up to 21 bar.
In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.

9.88

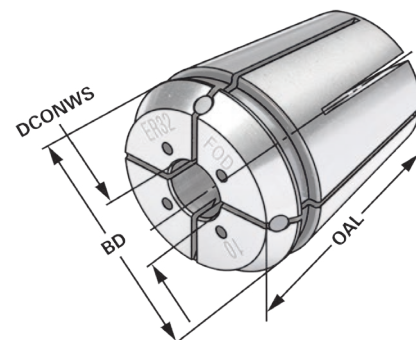
9.88

10.10

Collets with cooling channels ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools in
collet chucks DIN 6499.

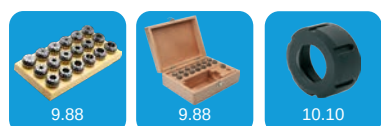


Order no.	Size	DCONWS	BD	OAL
C72EC-04	472E ER 40	4	41	46
C72EC-05	472E ER 40	5	41	46
C72EC-06	472E ER 40	6	41	46
C72EC-07	472E ER 40	7	41	46
C72EC-08	472E ER 40	8	41	46
C72EC-09	472E ER 40	9	41	46
C72EC-10	472E ER 40	10	41	46
C72EC-11	472E ER 40	11	41	46
C72EC-12	472E ER 40	12	41	46
C72EC-13	472E ER 40	13	41	46
C72EC-14	472E ER 40	14	41	46
C72EC-15	472E ER 40	15	41	46
C72EC-16	472E ER 40	16	41	46
C72EC-17	472E ER 40	17	41	46
C72EC-18	472E ER 40	18	41	46
C72EC-19	472E ER 40	19	41	46
C72EC-20	472E ER 40	20	41	46
C72EC-21	472E ER 40	21	41	46
C72EC-22	472E ER 40	22	41	46
C72EC-23	472E ER 40	23	41	46
C72EC-24	472E ER 40	24	41	46
C72EC-25	472E ER 40	25	41	46
C72EC-26	472E ER 40	26	41	46



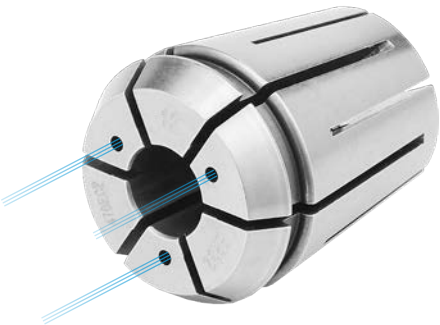
Note:

Only nominal size DCONWS can be clamped, with cooling channels. Applicable up to 21 bar. In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.

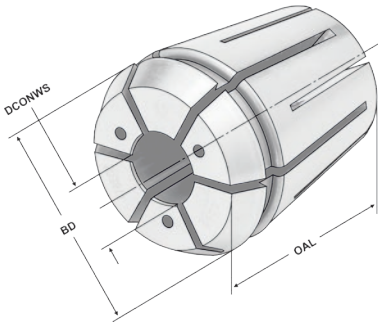


Precision collets with cooling channels

< 3 µm | ISO 15488 B (DIN 6499 B) ER-system



Application:
For mounting straight-shank tools in collet chucks
DIN 6499.



ISO 15488

ER

≤3µm

120 bar

Ch. 11

Order no.	Size	DCONWS	BD	OAL
C26ECP-03	426E ER 16	3	17	27
C26ECP-04	426E ER 16	4	17	27
C26ECP-05	426E ER 16	5	17	27
C26ECP-06	426E ER 16	6	17	27
C26ECP-07	426E ER 16	7	17	27



Note:

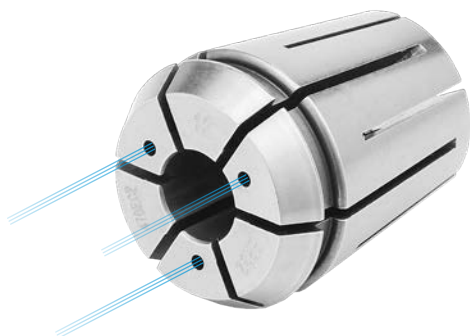
Only nominal size DCONWS can be clamped, with cooling channels. Applicable up to 120 bar.
In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.

9.89

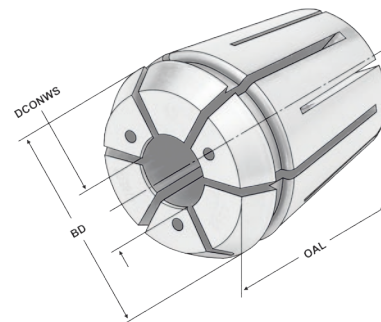
10.10

Precision collets with cooling channels

< 3 µm | ISO 15488 B (DIN 6499 B) ER-system



Application:
For mounting straight-shank tools in collet chucks
DIN 6499.



ISO 15488

ER

≤3µm

120 bar

i

Ch. 11

Order no.	Size	DCONWS	BD	OAL
C28ECP-03	428E ER 20	3	21	31,5
C28ECP-04	428E ER 20	4	21	31,5
C28ECP-05	428E ER 20	5	21	31,5
C28ECP-06	428E ER 20	6	21	31,5
C28ECP-07	428E ER 20	7	21	31,5
C28ECP-08	428E ER 20	8	21	31,5
C28ECP-09	428E ER 20	9	21	31,5

9

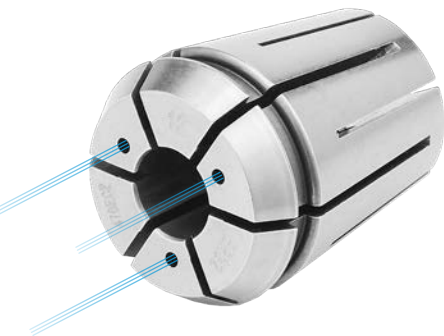


Note:

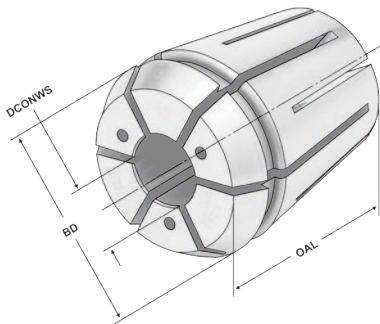
Only nominal size DCONWS can be clamped, with cooling channels. Applicable up to 120 bar.
In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.



Precision collets with cooling channels
 < 3 µm | ISO 15488 B (DIN 6499 B) ER-system



Application:
 For mounting straight-shank tools in collet chucks
 DIN 6499.



ISO 15488

ER

≤3µm

120 bar

i

Ch. 11

Order no.	Size	DCONWS	BD	OAL
C30ECP-03	430E ER 25	3	26	34
C30ECP-04	430E ER 25	4	26	34
C30ECP-05	430E ER 25	5	26	34
C30ECP-06	430E ER 25	6	26	34
C30ECP-07	430E ER 25	7	26	34
C30ECP-08	430E ER 25	8	26	34
C30ECP-09	430E ER 25	9	26	34
C30ECP-10	430E ER 25	10	26	34
C30ECP-11	430E ER 25	11	26	34
C30ECP-12	430E ER 25	12	26	34
C30ECP-13	430E ER 25	13	26	34
C30ECP-14	430E ER 25	14	26	34



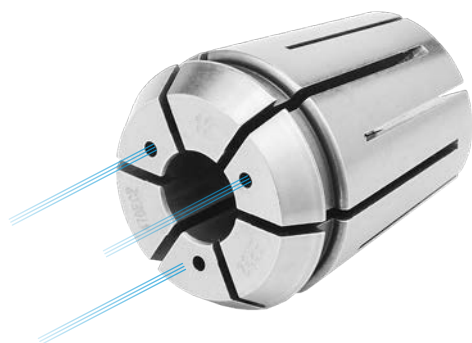
Note: Only nominal size DCONWS can be clamped, with cooling channels. Applicable up to 120 bar.
 In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.

9.89

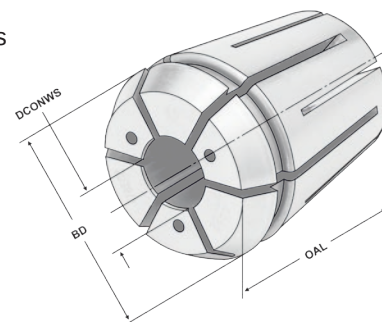
10.10

Precision collets with cooling channels

< 3 µm | ISO 15488 B (DIN 6499 B) ER-system



Application:
For mounting straight-shank tools in collet chucks
DIN 6499.



ISO
15488

ER



≤3µm



120 bar

i
Ch. 11

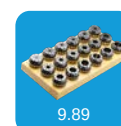
Order no.	Size	DCONWS	BD	OAL
C70ECP-03	470E ER 32	3	33	40
C70ECP-04	470E ER 32	4	33	40
C70ECP-05	470E ER 32	5	33	40
C70ECP-06	470E ER 32	6	33	40
C70ECP-07	470E ER 32	7	33	40
C70ECP-08	470E ER 32	8	33	40
C70ECP-09	470E ER 32	9	33	40
C70ECP-10	470E ER 32	10	33	40
C70ECP-11	470E ER 32	11	33	40
C70ECP-12	470E ER 32	12	33	40
C70ECP-13	470E ER 32	13	33	40
C70ECP-14	470E ER 32	14	33	40
C70ECP-15	470E ER 32	15	33	40
C70ECP-16	470E ER 32	16	33	40
C70ECP-17	470E ER 32	17	33	40
C70ECP-18	470E ER 32	18	33	40
C70ECP-19	470E ER 32	19	33	40
C70ECP-20	470E ER 32	20	33	40

9

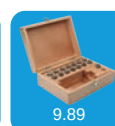


Note:

Only nominal size DCONWS can be clamped, with cooling channels. Applicable up to 120 bar.
In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.



9.89



9.89



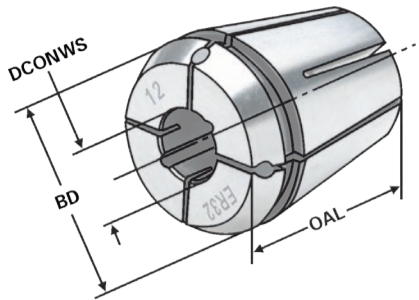
10.10

Collets with cooling channels along the boring

ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools in
collet chucks DIN 6499.



ISO 15488

ER

≤15µm

21 bar

Ch. 11

Order no.	Size	DCONWS	BD	OAL
C26ECC-03	426E ER 16	3	17	27
C26ECC-04	426E ER 16	4	17	27
C26ECC-05	426E ER 16	5	17	27
C26ECC-06	426E ER 16	6	17	27
C26ECC-07	426E ER 16	7	17	27



Note: *Only nominal size DCONWS can be clamped, with cooling channels along the boring. Applicable up to 21 bar. In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.*

9.90

9.90

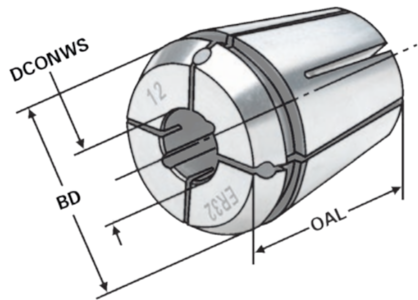
10.10

Collets with cooling channels along the boring

ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools in
collet chucks DIN 6499.



ISO 15488

ER

≤15µm

21 bar

Ch. 11

Order no.	Size	DCONWS	BD	OAL
C28ECC-04	428E ER 20	4	21	31,5
C28ECC-05	428E ER 20	5	21	31,5
C28ECC-06	428E ER 20	6	21	31,5
C28ECC-07	428E ER 20	7	21	31,5
C28ECC-08	428E ER 20	8	21	31,5
C28ECC-09	428E ER 20	9	21	31,5



Note: Only nominal size DCONWS can be clamped, with cooling channels along the boring. Applicable up to 21 bar. In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.

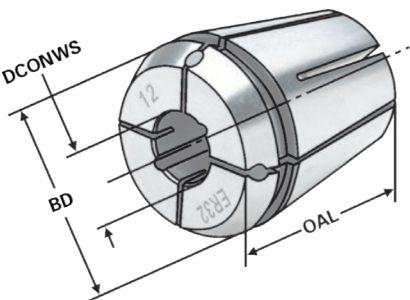


Collets with cooling channels along the boring

ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools in
collet chucks DIN 6499.



ISO 15488

ER

≤15µm

21 bar

Ch. 11

Order no.	Size	DCONWS	BD	OAL
C30ECC-03	430E ER 25	3	26	34
C30ECC-04	430E ER 25	4	26	34
C30ECC-05	430E ER 25	5	26	34
C30ECC-06	430E ER 25	6	26	34
C30ECC-07	430E ER 25	7	26	34
C30ECC-08	430E ER 25	8	26	34
C30ECC-09	430E ER 25	9	26	34
C30ECC-10	430E ER 25	10	26	34
C30ECC-11	430E ER 25	11	26	34
C30ECC-12	430E ER 25	12	26	34
C30ECC-13	430E ER 25	13	26	34
C30ECC-14	430E ER 25	14	26	34



Note:

Only nominal size DCONWS can be clamped, with cooling channels along the boring. Applicable up to 21 bar. In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.

9.90

9.90

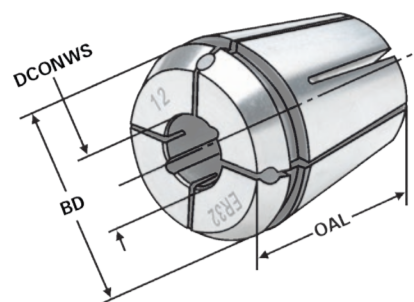
10.10

Collets with cooling channels along the boring

ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools in
collet chucks DIN 6499.



ISO
15488

ER



≤15µm



21 bar

i
Ch. 11

Order no.	Size	DCONWS	BD	OAL
C70ECC-03	470E ER 32	3	33	40
C70ECC-04	470E ER 32	4	33	40
C70ECC-05	470E ER 32	5	33	40
C70ECC-06	470E ER 32	6	33	40
C70ECC-07	470E ER 32	7	33	40
C70ECC-08	470E ER 32	8	33	40
C70ECC-09	470E ER 32	9	33	40
C70ECC-10	470E ER 32	10	33	40
C70ECC-11	470E ER 32	11	33	40
C70ECC-12	470E ER 32	12	33	40
C70ECC-13	470E ER 32	13	33	40
C70ECC-14	470E ER 32	14	33	40
C70ECC-15	470E ER 32	15	33	40
C70ECC-16	470E ER 32	16	33	40
C70ECC-17	470E ER 32	17	33	40
C70ECC-18	470E ER 32	18	33	40
C70ECC-19	470E ER 32	19	33	40
C70ECC-20	470E ER 32	20	33	40

9

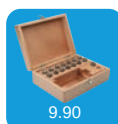


Note:

Only nominal size DCONWS can be clamped, with cooling channels along the boring. Applicable up to 21 bar. In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.



9.90



9.90



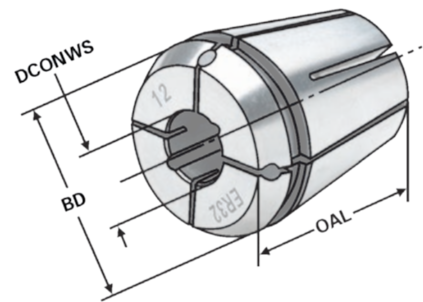
10.10

Collets with cooling channels along the boring

ISO 15488 B (DIN 6499 B) | ER system



Application:
For mounting straight-shank tools in
collet chucks DIN 6499.



ISO 15488

ER

≤15µm

21 bar

Ch. 11

Order no.	Size	DCONWS	BD	OAL
C72ECC-04	472E ER 40	4	41	46
C72ECC-05	472E ER 40	5	41	46
C72ECC-06	472E ER 40	6	41	46
C72ECC-07	472E ER 40	7	41	46
C72ECC-08	472E ER 40	8	41	46
C72ECC-09	472E ER 40	9	41	46
C72ECC-10	472E ER 40	10	41	46
C72ECC-11	472E ER 40	11	41	46
C72ECC-12	472E ER 40	12	41	46
C72ECC-13	472E ER 40	13	41	46
C72ECC-14	472E ER 40	14	41	46
C72ECC-15	472E ER 40	15	41	46
C72ECC-16	472E ER 40	16	41	46
C72ECC-17	472E ER 40	17	41	46
C72ECC-18	472E ER 40	18	41	46
C72ECC-19	472E ER 40	19	41	46
C72ECC-20	472E ER 40	20	41	46
C72ECC-21	472E ER 40	21	41	46
C72ECC-22	472E ER 40	22	41	46
C72ECC-23	472E ER 40	23	41	46
C72ECC-24	472E ER 40	24	41	46
C72ECC-25	472E ER 40	25	41	46
C72ECC-26	472E ER 40	26	41	46



Note: *Only nominal size DCONWS can be clamped, with cooling channels along the boring. Applicable up to 21 bar. In order to achieve an optimum sealing the tool must be clamped on the complete length of the ground drill of the collet.*

9.90

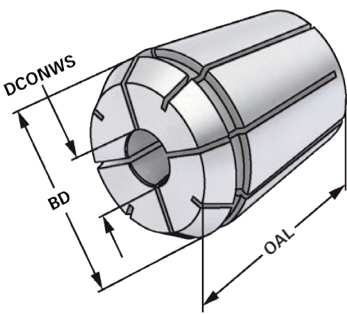
9.90

10.10

Tap collets - ISO 15488 B (DIN 6499 B) | ER system



Application:
For machines with rigid tapping.
For safe clamping of taps.



ISO 15488

ER

$\leq 15\mu\text{m}$

Ch. 11

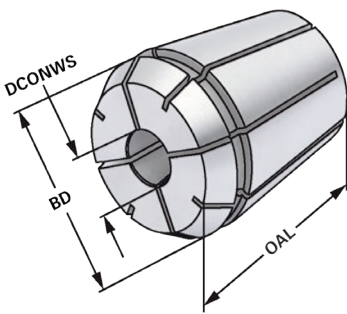
Order no.	Size	DCONWS	DRVS	BD	OAL
C26G-3527	426E ER 16	3,5	2,7	16,8	27,5
C26G-43	426E ER 16	4	3	16,8	27,5
C26G-4534	426E ER 16	4,5	3,4	16,8	27,5
C26G-649	426E ER 16	6	4,9	16,8	27,5
C26G-755	426E ER 16	7	5,5	16,8	27,5
C26G-862	426E ER 16	8	6,2	16,8	27,5



Tap collets - ISO 15488 B (DIN 6499 B) | ER system



Application:
For machines with rigid tapping.
For safe clamping of taps.



ISO
15488

ER

$\leq 15\mu\text{m}$

Ch. 11

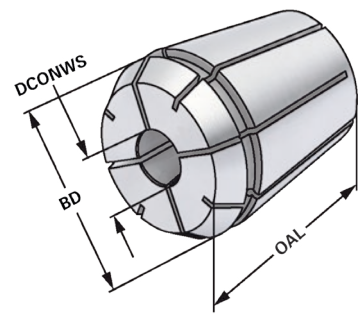
Order no.	Size	DCONWS	DRVS	BD	OAL
C28G-3527	428E ER 20	3,5	2,7	20,8	31,5
C28G-43	428E ER 20	4	3	20,8	31,5
C28G-4534	428E ER 20	4,5	3,4	20,8	31,5
C28G-649	428E ER 20	6	4,9	20,8	31,5
C28G-755	428E ER 20	7	5,5	20,8	31,5
C28G-862	428E ER 20	8	6,2	20,8	31,5
C28G-97	428E ER 20	9	7	20,8	31,5
C28G-108	428E ER 20	10	8	20,8	31,5



Tap collets - ISO 15488 B (DIN 6499 B) | ER system



Application:
For machines with rigid tapping.
For safe clamping of taps.



ISO 15488

ER

 $\leq 15\mu\text{m}$



 Ch. 11

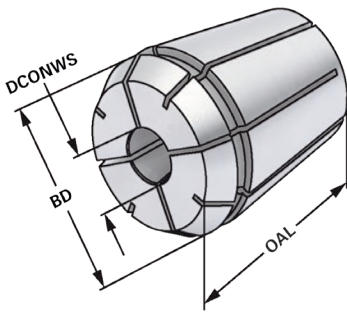
Order no.	Size	DCONWS	DRVS	BD	OAL
C30G-3527	430E ER 25	3,5	2,7	26	34
C30G-43	430E ER 25	4	3	26	34
C30G-4534	430E ER 25	4,5	3,4	26	34
C30G-649	430E ER 25	6	4,9	26	34
C30G-755	430E ER 25	7	5,5	26	34
C30G-862	430E ER 25	8	6,2	26	34
C30G-97	430E ER 25	9	7	26	34
C30G-108	430E ER 25	10	8	26	34
C30G-119	430E ER 25	11	9	26	34
C30G-129	430E ER 25	12	9	26	34



Tap collets - ISO 15488 B (DIN 6499 B) | ER system



Application:
For machines with rigid tapping.
For safe clamping of taps.



ISO
15488

ER

≤15µm

Ch. 11

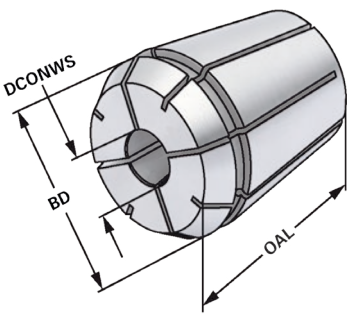
Order no.	Size	DCONWS	DRVS	BD	OAL
C70G-4534	470E ER 32	4,5	3,4	33	40
C70G-649	470E ER 32	6	4,9	33	40
C70G-755	470E ER 32	7	5,5	33	40
C70G-862	470E ER 32	8	6,2	33	40
C70G-97	470E ER 32	9	7	33	40
C70G-108	470E ER 32	10	8	33	40
C70G-119	470E ER 32	11	9	33	40
C70G-129	470E ER 32	12	9	33	40
C70G-1411	470E ER 32	14	11	33	40
C70G-1612	470E ER 32	16	12	33	40



Tap collets - ISO 15488 B (DIN 6499 B) | ER system



Application:
For machines with rigid tapping.
For safe clamping of taps.



ISO 15488

ER

≤15µm

Ch. 11

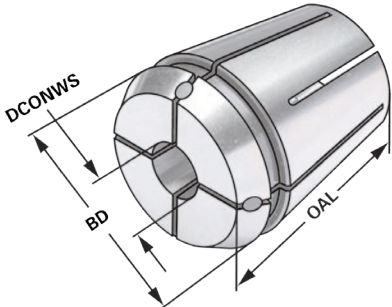
Order no.	Size	DCONWS	DRVS	BD	OAL
C72G-649	472E ER 40	6	4,9	40,8	46
C72G-755	472E ER 40	7	5,5	40,8	46
C72G-862	472E ER 40	8	6,2	40,8	46
C72G-97	472E ER 40	9	7	40,8	46
C72G-108	472E ER 40	10	8	40,8	46
C72G-119	472E ER 40	11	9	40,8	46
C72G-129	472E ER 40	12	9	40,8	46
C72G-1411	472E ER 40	14	11	40,8	46
C72G-1612	472E ER 40	16	12	40,8	46
C72G-18145	472E ER 40	18	14,5	40,8	46
C72G-2016	472E ER 40	20	16	40,8	46



Tap collets with seals | ER system



Application:
For machines with rigid tapping.
For safe clamping of taps.



ISO 15488

ER

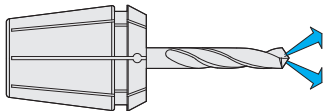
≤15µm

21 bar

i

Ch. 11

Order no.	Size	DCONWS	DRVS	BD	OAL
C26GA-3527	426E ER 16	3,5	2,7	16,8	27,5
C26GA-43	426E ER 16	4	3	16,8	27,5
C26GA-4534	426E ER 16	4,5	3,4	16,8	27,5
C26GA-649	426E ER 16	6	4,9	16,8	27,5
C26GA-755	426E ER 16	7	5,5	16,8	27,5
C26GA-862	426E ER 16	8	6,2	16,8	27,5



9.92

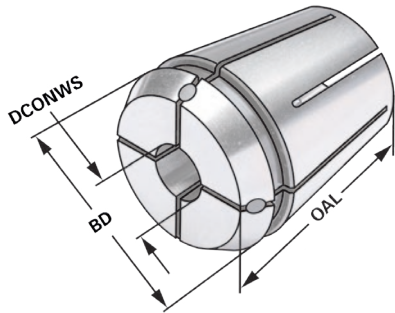
9.92

10.10

Tap collets with seals | ER system



Application:
For machines with rigid tapping.
For safe clamping of taps.



ISO 15488

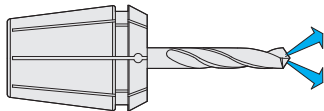
ER

$\leq 15\mu\text{m}$

21 bar

Ch. 11

Order no.	Size	DCONWS	DRVS	BD	OAL
C28GA-3527	428E ER 20	3,5	2,7	20,8	31,5
C28GA-43	428E ER 20	4	3	20,8	31,5
C28GA-4534	428E ER 20	4,5	3,4	20,8	31,5
C28GA-649	428E ER 20	6	4,9	20,8	31,5
C28GA-755	428E ER 20	7	5,5	20,8	31,5
C28GA-862	428E ER 20	8	6,2	20,8	31,5
C28GA-97	428E ER 20	9	7	20,8	31,5
C28GA-108	428E ER 20	10	8	20,8	31,5



9.92

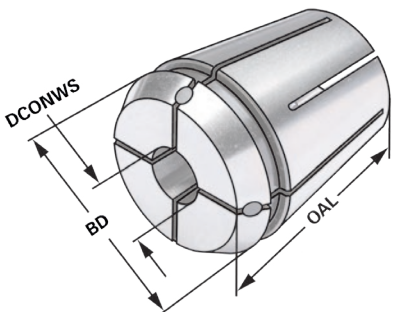
9.92

10.10

Tap collets with seals | ER system



Application:
For machines with rigid tapping.
For safe clamping of taps.



ISO 15488

ER

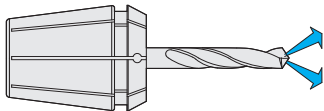
≤15µm

21 bar

i

Ch. 11

Order no.	Size	DCON-WS	DRVS	BD	OAL
C30GA-3527	430E ER 25	3,5	2,7	25,8	34
C30GA-43	430E ER 25	4	3	25,8	34
C30GA-4534	430E ER 25	4,5	3,4	25,8	34
C30GA-649	430E ER 25	6	4,9	25,8	34
C30GA-755	430E ER 25	7	5,5	25,8	34
C30GA-862	430E ER 25	8	6,2	25,8	34
C30GA-97	430E ER 25	9	7	25,8	34
C30GA-108	430E ER 25	10	8	25,8	34
C30GA-119	430E ER 25	11	9	25,8	34
C30GA-129	430E ER 25	12	9	25,8	34



9.92

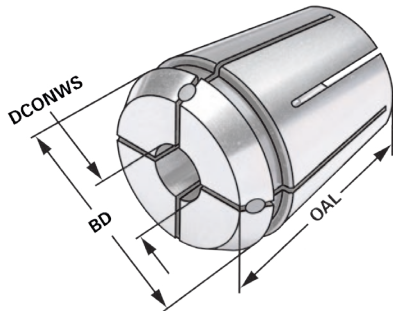
9.92

10.10

Tap collets with seals | ER system



Application:
For machines with rigid tapping.
For safe clamping of taps.



ISO
15488

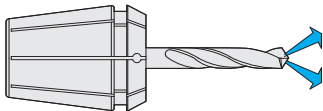
ER

$\leq 15\mu\text{m}$

21 bar

Ch. 11

Order no.	Size	DCONWS	DRVS	BD	OAL
C70GA-4534	470E ER 32	4,5	3,4	32,8	40
C70GA-649	470E ER 32	6	4,9	32,8	40
C70GA-755	470E ER 32	7	5,5	32,8	40
C70GA-862	470E ER 32	8	6,2	32,8	40
C70GA-97	470E ER 32	9	7	32,8	40
C70GA-108	470E ER 32	10	8	32,8	40
C70GA-119	470E ER 32	11	9	32,8	40
C70GA-129	470E ER 32	12	9	32,8	40
C70GA-1411	470E ER 32	14	11	32,8	40
C70GA-1612	470E ER 32	16	12	32,8	40



9.92

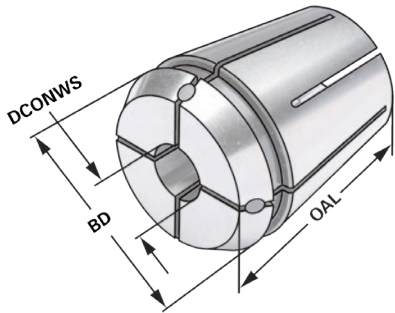
9.92

10.10

Tap collets with seals | ER system



Application:
For machines with rigid tapping.
For safe clamping of taps.



ISO 15488

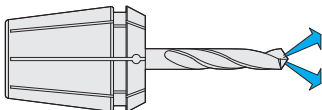
ER

$\leq 15\mu\text{m}$

21 bar

Ch. 11

Order no.	Size	DCONWS	DRVS	BD	OAL
C72GA-649	472E ER 40	6	4,9	40,8	46
C72GA-755	472E ER 40	7	5,5	40,8	46
C72GA-862	472E ER 40	8	6,2	40,8	46
C72GA-97	472E ER 40	9	7	40,8	46
C72GA-108	472E ER 40	10	8	40,8	46
C72GA-119	472E ER 40	11	9	40,8	46
C72GA-129	472E ER 40	12	9	40,8	46
C72GA-1411	472E ER 40	14	11	40,8	46
C72GA-1612	472E ER 40	16	12	40,8	46
C72GA-18145	472E ER 40	18	14,5	40,8	46
C72GA-2016	472E ER 40	20	16	40,8	46



9.92

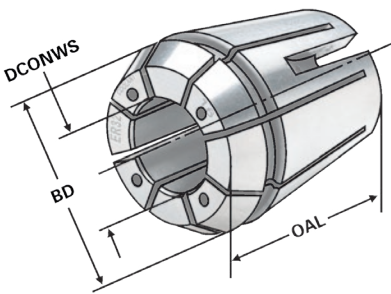
9.92

10.10

Tap collets with cooling channels | ER system



Application:
For machines with rigid tapping.
For safe clamping of taps.



ISO 15488

ER

$\leq 15\mu\text{m}$

120 bar

Ch. 11

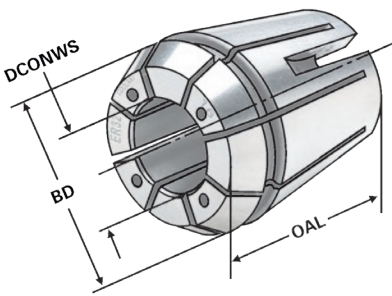
Order no.	Size	DCONWS	DRVS	BD	OAL
C26GC-3527	426E ER 16	3,5	2,7	16,8	27,5
C26GC-43	426E ER 16	4	3	16,8	27,5
C26GC-4534	426E ER 16	4,5	3,4	16,8	27,5
C26GC-649	426E ER 16	6	4,9	16,8	27,5
C26GC-755	426E ER 16	7	5,5	16,8	27,5
C26GC-862	426E ER 16	8	6,2	16,8	27,5



Tap collets with cooling channels | ER system



Application:
For machines with rigid tapping.
For safe clamping of taps.



ISO 15488

ER

≤15µm

120 bar

Ch. 11

Order no.	Size	DCONWS	DRVS	BD	OAL
C28GC-3527	428E ER 20	3,5	2,7	20,8	31,5
C28GC-43	428E ER 20	4	3	20,8	31,5
C28GC-4534	428E ER 20	4,5	3,4	20,8	31,5
C28GC-649	428E ER 20	6	4,9	20,8	31,5
C28GC-755	428E ER 20	7	5,5	20,8	31,5
C28GC-862	428E ER 20	8	6,2	20,8	31,5
C28GC-97	428E ER 20	9	7	20,8	31,5
C28GC-108	428E ER 20	10	8	20,8	31,5



9.93

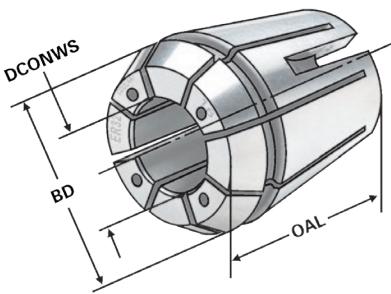
9.93

10.10

Tap collets with cooling channels | ER system



Application:
For machines with rigid tapping.
For safe clamping of taps.



ISO 15488

ER

$\leq 15\mu\text{m}$

120 bar

Ch. 11

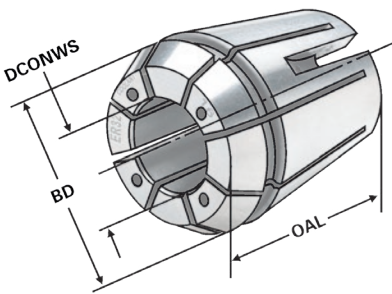
Order no.	Size	DCONWS	DRVS	BD	OAL
C30GC-3527	430E ER 25	3,5	2,7	25,8	34
C30GC-43	430E ER 25	4	3	25,8	34
C30GC-4534	430E ER 25	4,5	3,4	25,8	34
C30GC-649	430E ER 25	6	4,9	25,8	34
C30GC-755	430E ER 25	7	5,5	25,8	34
C30GC-862	430E ER 25	8	6,2	25,8	34
C30GC-97	430E ER 25	9	7	25,8	34
C30GC-108	430E ER 25	10	8	25,8	34
C30GC-119	430E ER 25	11	9	25,8	34
C30GC-129	430E ER 25	12	9	25,8	34



Tap collets with cooling channels | ER system



Application:
For machines with rigid tapping.
For safe clamping of taps.



ISO 15488

ER

≤15µm

120 bar

i

Ch. 11

Order no.	Size	DCONWS	DRVS	BD	OAL
C70GC-4534	470E ER 32	4,5	3,4	32,8	40
C70GC-649	470E ER 32	6	4,9	32,8	40
C70GC-755	470E ER 32	7	5,5	32,8	40
C70GC-862	470E ER 32	8	6,2	32,8	40
C70GC-97	470E ER 32	9	7	32,8	40
C70GC-108	470E ER 32	10	8	32,8	40
C70GC-119	470E ER 32	11	9	32,8	40
C70GC-129	470E ER 32	12	9	32,8	40
C70GC-1411	470E ER 32	14	11	32,8	40
C70GC-1612	470E ER 32	16	12	32,8	40



9.93

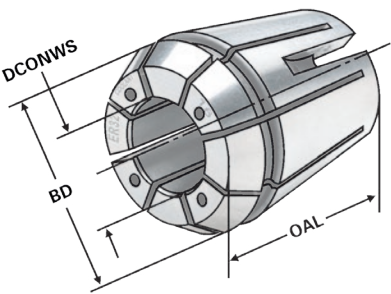
9.93

10.10

Tap collets with cooling channels | ER system



Application:
For machines with rigid tapping.
For safe clamping of taps.



ISO
15488

ER

$\leq 15\mu\text{m}$

120 bar

i
Ch. 11

Order no.	Size	DCONWS	DRVS	BD	OAL
C72GC-649	472E ER 40	6	4,9	40,8	46
C72GC-755	472E ER 40	7	5,5	40,8	46
C72GC-862	472E ER 40	8	6,2	40,8	46
C72GC-97	472E ER 40	9	7	40,8	46
C72GC-108	472E ER 40	10	8	40,8	46
C72GC-119	472E ER 40	11	9	40,8	46
C72GC-129	472E ER 40	12	9	40,8	46
C72GC-1411	472E ER 40	14	11	40,8	46
C72GC-1612	472E ER 40	16	12	40,8	46
C72GC-18145	472E ER 40	18	14,5	40,8	46
C72GC-2016	472E ER 40	20	16	40,8	46



9.93

9.93

10.10

COLLET SETS

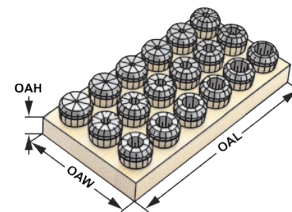


Collet sets in wooden sockets $\leq 0,015$



ISO
10897

OZ



i
Ch. 11

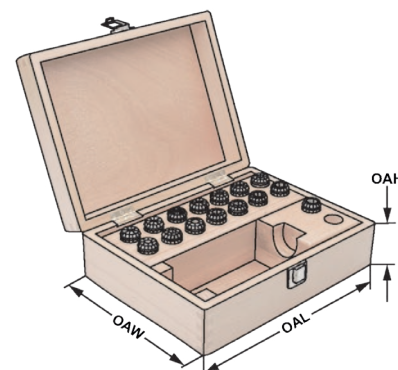
Order no.	Size	OAL	OAW	OAH
WS-C15E-S	415E (OZ 16; 15 tlg.) 2-3-4-5-6-7-8-9-10-11-12-13-14-15-16	150	195	25
WS-C62E-S	462E (OZ 25; 15 tlg.) 4-5-6-7-8-9-10-11-12-14-16-18-20-22-25	290	240	30
WS-C67E-S	467E (OZ 32; 16 tlg.) 5-6-7-8-10-12-14-16-18-20-22-24-25-28-30-32	290	240	30

Collet sets in wooden boxes $\leq 0,015$



ISO
10897

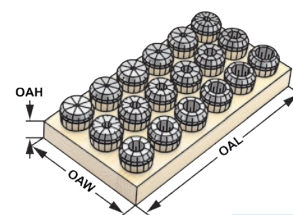
OZ



i
Ch. 11

Order no.	Size	OAL	OAW	OAH
WB-C15-S	415E (OZ 16; 15 St.) 2-3-4-5-6-7-8-9-10-11-12-13-14-15-16	360	235	70
WB-C62-S	462E (OZ 25; 15 St.) 4-5-6-7-8-9-10-11-12-14-16-18-20-22-25	360	235	70
WB-C67-S	467E (OZ 32; 16 St.) 5-6-7-8-10-12-14-16-18-20-22-24-25-28-30-32	360	235	70

Precision collet sets in wooden sockets $\leq 0,005$ UP



ISO
10897

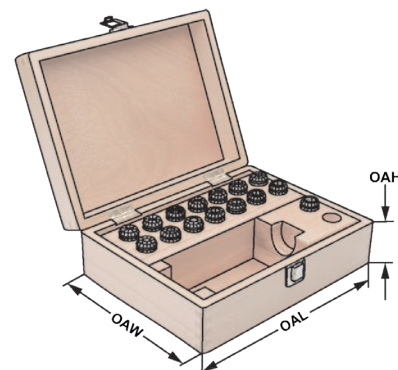
OZ

$\leq 5\mu\text{m}$

i
Ch. 11

Order no.	Size	OAL	OAW	OAH
WS-C15EP-S	415E (OZ 16; 15 tlg.) 2-3-4-5-6-7-8-9-10-11-12-13-14-15-16	150	195	25
WS-C62EP-S	462E (OZ 25; 15 tlg.) 4-5-6-7-8-9-10-11-12-14-16-18-20-22-25	290	240	30
WS-C67EP-S	467E (OZ 32; 16 tlg.) 5-6-7-8-10-12-14-16-18-20-22-24-25-28-30-32	290	240	30

Precision collet sets in wooden boxes $\leq 0,005$ UP



ISO
10897

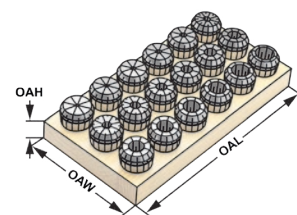
OZ

$\leq 5\mu\text{m}$

i
Ch. 11

Order no.	Size	OAL	OAW	OAH
WB-C15EP-S	415E (OZ 16; 15 St.) 2-3-4-5-6-7-8-9-10-11-12-13-14-15-16	360	235	70
WB-C62EP-S	462E (OZ 25; 15 St.) 4-5-6-7-8-9-10-11-12-14-16-18-20-22-25	360	235	70
WB-C67EP-S	467E (OZ 32; 16 St.) 5-6-7-8-10-12-14-16-18-20-22-24-25-28-30-32	360	235	70

Collet sets in wooden sockets $\leq 0,015$



ISO
15488

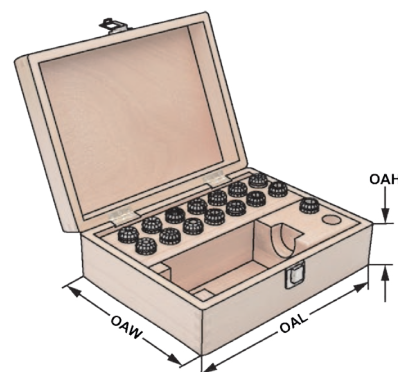
ER



i
Ch. 11

Order no.	Size	OAL	OAW	OAH
WS-C008E-S	4008E (ER 11; 13 tlg.) 1-1,5-2-2,5-3-3,5-4-4,5-5-5,5-6-6,5-7	125	45	20
WS-C26E-S	426E (ER 16; 10 tlg.) 1-2-3-4-5-6-7-8-9-10	130	50	25
WS-C28E-S	428E (ER 20; 12 tlg.) 2-3-4-5-6-7-8-9-10-11-12-13	165	110	25
WS-C30E-S	430E (ER 25; 15 tlg.) 2-3-4-5-6-7-8-9-10-11-12-13-14-15-16	150	195	25
WS-C70E-S	470E (ER 32; 18 tlg.) 3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20	190	150	30
WS-C72E-S	472E (ER 40; 23 tlg.) 4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26	290	195	25

Collet sets in wooden boxes $\leq 0,015$



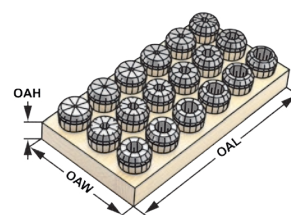
ISO
15488

ER



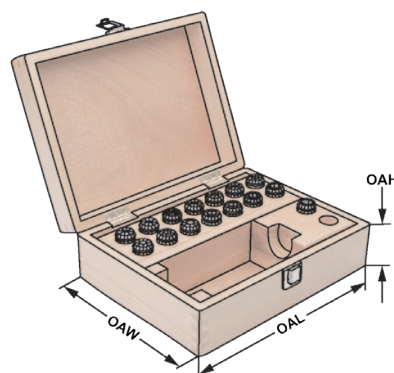
Order no.	Size	OAL	OAW	OAH
WB-C008-S	4008E (ER 11; 13 tlg.) 1-1,5-2-2,5-3-3,5-4-4,5-5-5,5-6-6,5-7	360	235	70
WB-C26-S	426E (ER 16; 10 St.) 1-2-3-4-5-6-7-8-9-10	360	235	70
WB-C28-S	428E (ER 20; 12 tlg.) 2-3-4-5-6-7-8-9-10-11-12-13	360	235	70
WB-C30-S	430E (ER 25; 15 St.) 2-3-4-5-6-7-8-9-10-11-12-13-14-15-16	360	235	70
WB-C70-S	470E (ER 32; 15 St.) 3-4-5-6-7-8-9-10-11-12-14-15-16-18-20	360	235	70
WB-C72-S	472E (ER 40; 16 St.) 4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-26	360	235	70

Precision collet sets in wooden sockets $\leq 0,005$ UP



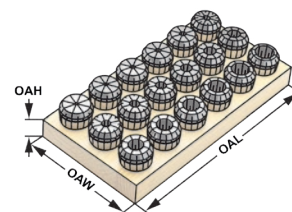
Order no.	Size	OAL	OAW	OAH
WS-C004EP-S	4004E (ER 8; 9 tlg.) 1-1,5-2-2,5-3-3,5-4-4,5-5	95	85	20
WS-C008EP-S	4008E (ER 11; 13 tlg.) 1-1,5-2-2,5-3-3,5-4-4,5-5-5,5-6-6,5-7	95	85	20
WS-C26EP-S	426E (ER 16; 10 tlg.) 1-2-3-4-5-6-7-8-9-10	130	50	25
WS-C28EP-S	428E (ER 20; 12 tlg.) 2-3-4-5-6-7-8-9-10-11-12-13	165	110	25
WS-C30EP-S	430E (ER 25; 15 tlg.) 2-3-4-5-6-7-8-9-10-11-12-13-14-15-16	150	195	25
WS-C70EP-S	470E (ER 32; 18 tlg.) 3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20	190	150	30
WS-C72EP-S	472E (ER 40; 23 tlg.) 4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26	290	195	25

Precision collet sets in wooden boxes $\leq 0,005$ UP



Order no.	Size	OAL	OAW	OAH
WB-C008EP-S	4008E (ER 11; 13 tlg.) 1-1,5-2-2,5-3-3,5-4-4,5-5-5,5-6-6,5-7	360	235	70
WB-C26EP-S	426E (ER 16; 10 St.) 1-2-3-4-5-6-7-8-9-10	360	235	70
WB-C28EP-S	428E (ER 20; 12 tlg.) 2-3-4-5-6-7-8-9-10-11-12-13	360	235	70
WB-C30EP-S	430E (ER 25; 15 St.) 2-3-4-5-6-7-8-9-10-11-12-13-14-15-16	360	235	70
WB-C70EP-S	470E (ER 32; 15 St.) 3-4-5-6-7-8-9-10-11-12-14-15-16-18-20	360	235	70
WB-C72EP-S	472E (ER 40; 16 St.) 4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-26	360	235	70

Precision collet sets in wooden sockets | < 3 µm



ISO
15488

ER

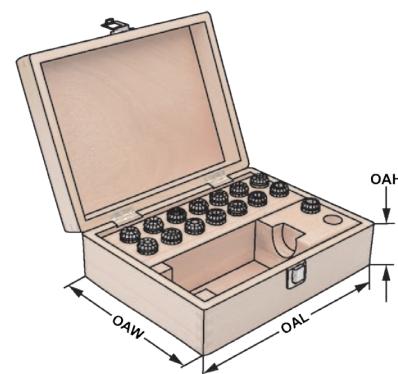


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Order no.	Size	OAL	OAW	OAH
WS-C26EPP-S	426E (ER 16; 9 tlg.) 2-3-4-5-6-7-8-9-10	130	50	25
WS-C28EPP-S	428E (ER 20; 12 tlg.) 2-3-4-5-6-7-8-9-10-11-12-13	165	110	25
WS-C30EPP-S	430E (ER 25; 15 tlg.) 2-3-4-5-6-7-8-9-10-11-12-13-14-15-16	150	195	25
WS-C70EPP-S	470E (ER 32; 15 tlg.) 3-4-5-6-7- 8- 9-10-11-12-14-15-16-18-20	190	150	30

Collet sets in wooden boxes

9



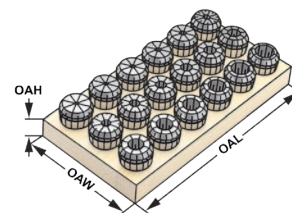
ISO
15488

ER



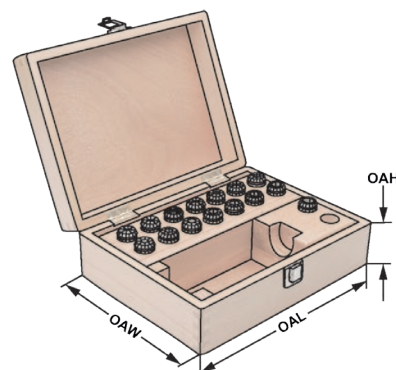
Order no.	Size	OAL	OAW	OAH
WB-C70EPP-S	470E (ER 32; 15 St.) 3-4-5-6-7- 8- 9-10-11-12-14-15-16-18-20	360	235	70

Precision collets ISO 15488 B (DIN 6499 B) ER-system - stainless steel



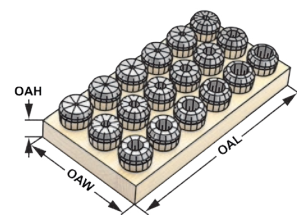
Order no.	Size		OAL	OAW	OAH
WS-C008ESP-S	4008E (ER 11; 5 St.)	3-4-5-6-7	130	50	25
WS-C26ESP-S	426E (ER 16; 8 St.)	3-4-5-6-7-8-9-10	165	110	25
WS-C28ESP-S	428E (ER 20; 11 St.)	3-4-5-6-7-8-9-10-11-12-13	150	195	25
WS-C30ESP-S	430E (ER 25; 14 St.)	3-4-5-6-7-8-9-10-11-12-13-14-15-16	190	150	30
WS-C70ESP-S	470E (ER 32; 18 St.)	3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20	290	195	25

Collet sets in wooden boxes



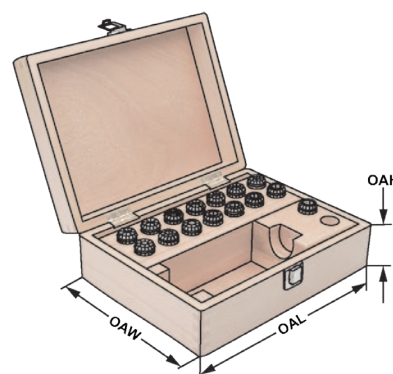
Order no.	Size		OAL	OAW	OAH
WB-C008ESP-S	4008E (ER 11; 5 St.)	3-4-5-6-7	360	235	70
WB-C26ESP-S	426E (ER 16; 8 St.)	3-4-5-6-7-8-9-10	360	235	70
WB-C28ESP-S	428E (ER 20; 11 St.)	3-4-5-6-7-8-9-10-11-12-13	360	235	70
WB-C30ESP-S	430E (ER 25; 14 St.)	3-4-5-6-7-8-9-10-11-12-13-14-15-16	360	235	70
WB-C70ESP-S	470E (ER 32; 18 St.)	3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20	360	235	70

Collets with seal for IC - ISO 15488 B (DIN 6499 B) ER-system



Order no.	Size	OAL	OAW	OAH
WS-C26EA-S	426E (ER 16; 8 St.) 3-4-5-6-7-8-9-10	130	50	25
WS-C28EA-S	428E (ER 20; 11 St.) 3-4-5-6-7-8-9-10-11-12-13	165	110	25
WS-C30EA-S	430E (ER 25; 14 St.) 3-4-5-6-7-8-9-10-11-12-13-14-15-16	150	195	25
WS-C70EA-S	470E (ER 32; 15 St.) 3-4-5-6-7-8-9-10-11-12-14-15-16-18-20	190	150	30
WS-C72EA-S	472E (ER 40; 16 St.) 4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-26	290	195	25

Collet sets in wooden boxes



Order no.	Size	OAL	OAW	OAH
WB-C26EA-S	426E (ER 16; 8 St.) 3-4-5-6-7-8-9-10	360	235	70
WB-C28EA-S	428E (ER 20; 11 St.) 3-4-5-6-7-8-9-10-11-12-13	360	235	70
WB-C30EA-S	430E (ER 25; 14 St.) 3-4-5-6-7-8-9-10-11-12-13-14-15-16	360	235	70
WB-C70EA-S	470E (ER 32; 15 St.) 3-4-5-6-7-8-9-10-11-12-14-15-16-18-20	360	235	70
WB-C72EA-S	472E (ER 40; 16 St.) 4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-26	360	235	70

Collets with seals for high pressure cooling up to 120 bar



ER

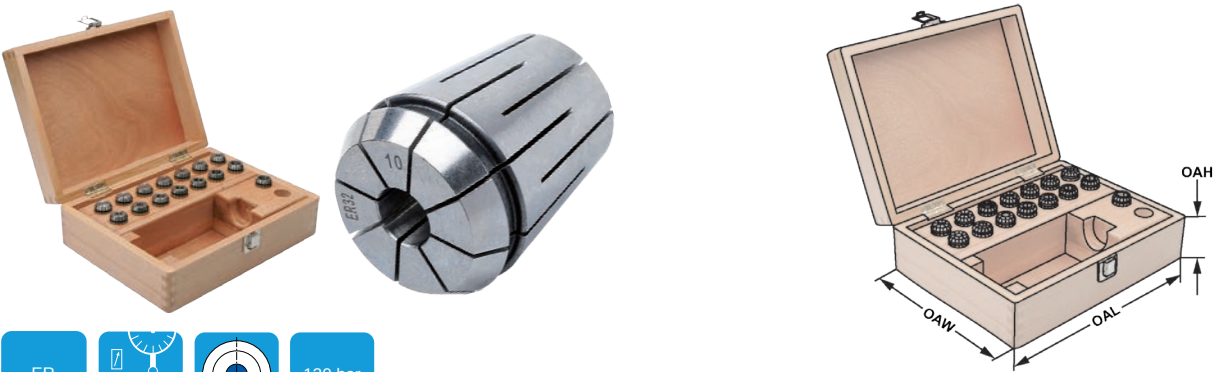
≤15µm

120 bar

Ch. 11

Order no.	Size	OAL	OAW	OAH
WS-C26EH-S	426E (ER 16; 8 St.) 3-4-5-6-7-8-9-10	130	50	25
WS-C28EH-S	428E (ER 20; 11 St.) 3-4-5-6-7-8-9-10-11-12-13	165	110	25
WS-C30EH-S	430E (ER 25; 14 St.) 3-4-5-6-7-8-9-10-11-12-13-14-15-16	150	195	25
WS-C70EH-S	470E (ER 32; 15 St.) 3-4-5-6-7-8-9-10-11-12-14-15-16-18-20	190	150	30
WS-C72EH-S	472E (ER 40; 16 St.) 4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-26	290	195	25

Collet sets in wooden boxes



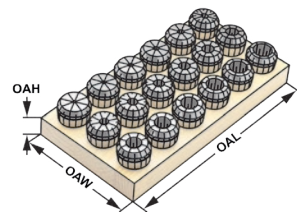
ER

≤15µm

120 bar

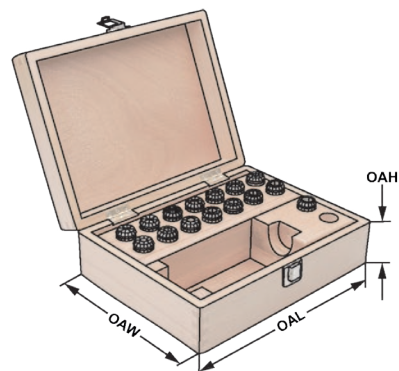
Order no.	Size	OAL	OAW	OAH
WB-C26EH-S	426E (ER 16; 8 St.) 3-4-5-6-7-8-9-10	360	235	70
WB-C28EH-S	428E (ER 20; 11 St.) 3-4-5-6-7-8-9-10-11-12-13	360	235	70
WB-C30EH-S	430E (ER 25; 14 St.) 3-4-5-6-7-8-9-10-11-12-13-14-15-16	360	235	70
WB-C70EH-S	470E (ER 32; 15 St.) 3-4-5-6-7-8-9-10-11-12-14-15-16-18-20	360	235	70
WB-C72EH-S	472E (ER 40; 16 St.) 4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-26	360	235	70

Precision collets steel sealed for high pressure cooling up to 120 bar | radial run-out < 3 µm



Order no.	Size	OAL	OAW	OAH
WS-C26EHP-S	426E (ER 16; 8 St.) 3-4-5-6-7-8-9-10	130	50	25
WS-C28EHP-S	428E (ER 20; 11 St.) 3-4-5-6-7-8-9-10-11-12-13	165	110	25
WS-C30EHP-S	430E (ER 25; 14 St.) 3-4-5-6-7-8-9-10-11-12-13-14-15-16	150	195	25
WS-C70EHP-S	470E (ER 32; 15 tlg.) 3-4-5-6-7- 8- 9-10-11-12-14-15-16-18-20	190	150	30

Collet sets in wooden boxes



Order no.	Size	OAL	OAW	OAH
WB-C70EHP-S	470E (ER 32; 15 St.) 3-4-5-6-7- 8- 9-10-11-12-14-15-16-18-20	360	235	70

Collets with seals and cooling channels

ISO 15488 B (DIN 6499 B) ER-system



ISO 15488

ER

$\leq 15\mu\text{m}$

21 bar

Ch. 11

Order no.	Size	OAL	OAW	OAH
WS-C26EC-S	426E (ER 16; 5 St.) 3-4-5-6-7	130	50	25
WS-C28EC-S	428E (ER 20; 6 St.) 4-5-6-7-8-9	165	110	25
WS-C30EC-S	430E (ER 25; 12 St.) 3-4-5-6-7-8-9-10-11-12-13-14	150	195	25
WS-C70EC-S	470E (ER 32; 15 St.) 3-4-5-6-7-8-9-10-11-12-14-15-16-18-20	190	150	30
WS-C72EC-S	472E (ER 40; 16 St.) 4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-26	290	195	25

Collet sets in wooden boxes



ISO 15488

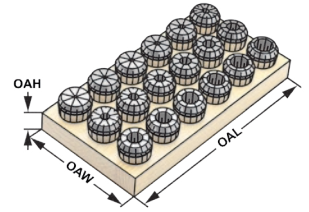
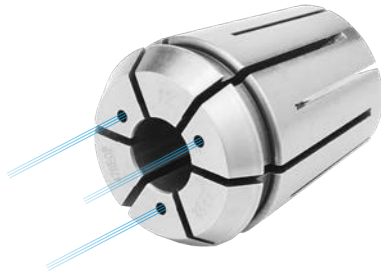
ER

$\leq 15\mu\text{m}$

21 bar

Order no.	Size	OAL	OAW	OAH
WB-C26EC-S	426E (ER 16; 5 St.) 3-4-5-6-7	360	235	70
WB-C28EC-S	428E (ER 20; 6 St.) 4-5-6-7-8-9	360	235	70
WB-C30EC-S	430E (ER 25; 12 St.) 3-4-5-6-7-8-9-10-11-12-13-14	360	235	70
WB-C70EC-S	470E (ER 32; 15 St.) 3-4-5-6-7-8-9-10-11-12-14-15-16-18-20	360	235	70
WB-C72EC-S	472E (ER 40; 16 St.) 4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-26	360	235	70

Precision collet sets in wooden sockets | < 3 µm



ISO
15488

ER



≤3µm

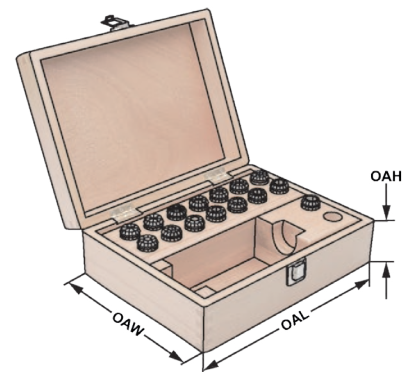
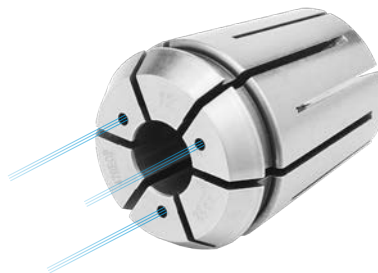


120 bar

i
Ch. 11

Order no.	Size	OAL	OAW	OAH
WS-C26ECP-S	426E (ER 16; 5 St.) 3-4-5-6-7	130	50	25
WS-C28ECP-S	428E (ER 20; 7 St.) 3-4-5-6-7-8-9	165	110	25
WS-C30ECP-S	430E (ER 25; 12 St.) 3-4-5-6-7-8-9-10-11-12-13-14	150	195	25
WS-C70ECP-S	470E (ER 32; 15 tlg.) 3-4-5-6-7- 8- 9-10-11-12-14-15-16-18-20	190	150	30

Collet sets in wooden boxes



ISO
15488

ER



≤3µm

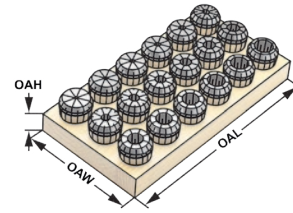


120 bar

Order no.	Size	OAL	OAW	OAH
WB-C70ECP-S	470E (ER 32; 15 St.) 3-4-5-6-7- 8- 9-10-11-12-14-15-16-18-20	360	235	70

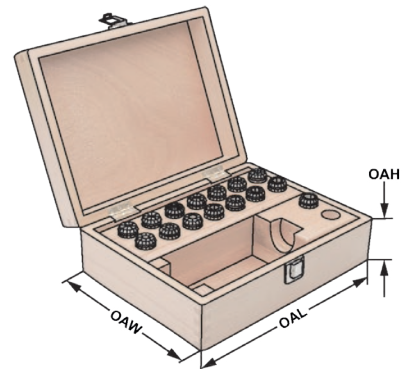
Collets with cooling channels along the boring

ISO 15488 B (DIN 6499 B) ER-system



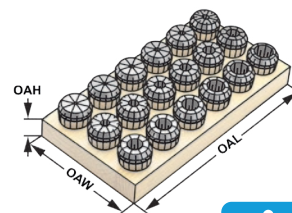
Order no.	Size	OAL	OAW	OAH
WS-C26ECC-S	426E (ER 16; 5 St.) 3-4-5-6-7	130	50	25
WS-C28ECC-S	428E (ER 20; 6 St.) 4-5-6-7-8-9	165	110	25
WS-C30ECC-S	430E (ER 25; 12 St.) 3-4-5-6-7-8-9-10-11-12-13-14	150	195	25
WS-C70ECC-S	470E (ER 32; 15 St.) 3-4-5-6-7-8-9-10-11-12-14-15-16-18-20	190	150	30
WS-C72ECC-S	472E (ER 40; 16 St.) 4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-26	290	195	25

Collet sets in wooden boxes



Order no.	Size	OAL	OAW	OAH
WB-C26ECC-S	426E (ER 16; 5 St.) 3-4-5-6-7	360	235	70
WB-C28ECC-S	428E (ER 20; 6 St.) 4-5-6-7-8-9	360	235	70
WB-C30ECC-S	430E (ER 25; 12 St.) 3-4-5-6-7-8-9-10-11-12-13-14	360	235	70
WB-C70ECC-S	470E (ER 32; 15 St.) 3-4-5-6-7-8-9-10-11-12-14-15-16-18-20	360	235	70
WB-C72ECC-S	472E (ER 40; 16 St.) 4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-26	360	235	70

Tap collets



ISO
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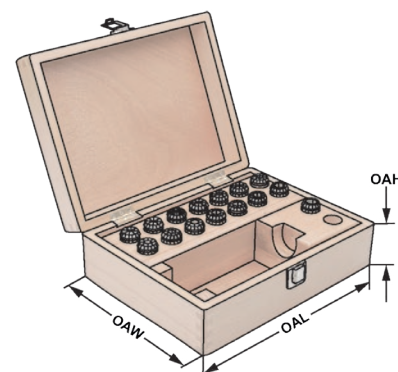
ER



i
Ch. 11

Order no.	Size		OAL	OAW	OAH
WS-C26G-S	426E (ER 16; 6 St.)	3,5×2,7 - 4×3 - 4,5×3,4 - 6×4,9 - 7×5,5 - 8×6,2	130	50	25
WS-C28G-S	428E (ER 20; 8 St.)	3,5×2,7 - 4×3 - 4,5×3,4 - 6×4,9 - 7×5,5 - 8×6,2 - 9×7-10×8	165	110	25
WS-C30G-S	430E (ER 25; 10 St.)	3,5×2,7 - 4×3 - 4,5×3,4 - 6×4,9 - 7×5,5 - 8×6,2 - 9×7 - 10×8 - 11×9 - 12×9	150	195	25
WS-C70G-S	470E (ER 32; 10 St.)	4,5×3,4 - 6×4,9 - 7×5,5 - 8×6,2 - 9×7 - 10×8 - 11×9 - 12×9 - 14×11 - 16×12	190	150	30
WS-C72G-S	472E (ER 40; 11 St.)	6×4,9 - 7×5,5 - 8×6,2 - 9×7 - 10×8 - 11×9 - 12×9 - 14×11 - 16×12 - 18×14,5 - 20×16	290	195	25

Collet sets in wooden boxes



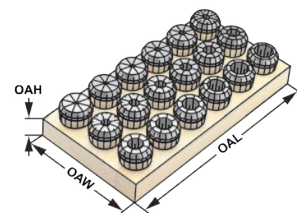
ISO
15488

ER



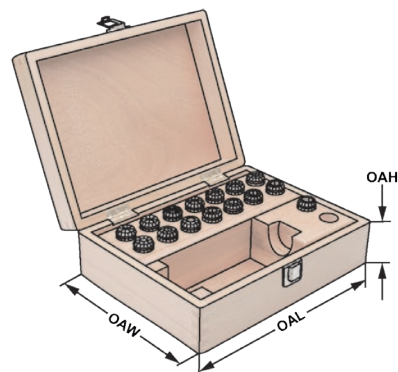
Order no.	Size		OAL	OAW	OAH
WB-C26G-S	426E (ER 16; 6 St.)	3,5×2,7 - 4×3 - 4,5×3,4 - 6×4,9 - 7×5,5 - 8×6,2	360	235	70
WB-C28G-S	428E (ER 20; 8 St.)	3,5×2,7 - 4×3 - 4,5×3,4 - 6×4,9 - 7×5,5 - 8×6,2 - 9×7-10×8	360	235	70
WB-C30G-S	430E (ER 25; 10 St.)	3,5×2,7 - 4×3 - 4,5×3,4 - 6×4,9 - 7×5,5 - 8×6,2 - 9×7 - 10×8 - 11×9 - 12×9	360	235	70
WB-C70G-S	470E (ER 32; 10 St.)	4,5×3,4 - 6×4,9 - 7×5,5 - 8×6,2 - 9×7 - 10×8 - 11×9 - 12×9 - 14×11 - 16×12	360	235	70
WB-C72G-S	472E (ER 40; 11 St.)	6×4,9 - 7×5,5 - 8×6,2 - 9×7 - 10×8 - 11×9 - 12×9 - 14×11 - 16×12 - 18×14,5 - 20×16	360	235	70

Tap collets with seals



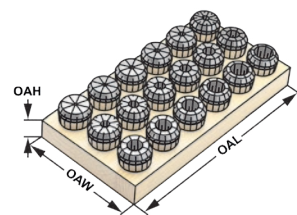
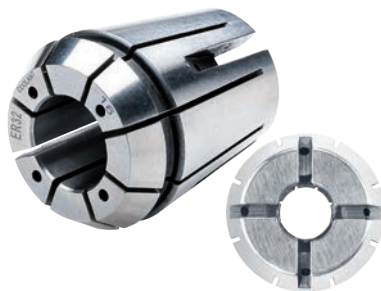
Order no.	Size		OAL	OAW	OAH
WS-C26GA	426E (ER 16 6 St.)	3,5×2,7 - 4×3 - 4,5×3,4 - 6×4,9 - 7×5,5 - 8×6,2	130	50	25
WS-C28GA	428E (ER 20 8 St.)	3,5×2,7 - 4×3 - 4,5×3,4 - 6×4,9 - 7×5,5 - 8×6,2 - 9×7 - 10×8	165	110	25
WS-C30GA	430E (ER 25 10 St.)	3,5×2,7 - 4×3 - 4,5×3,4 - 6×4,9 - 7×5,5 - 8×6,2 - 9×7 - 10×8 - 11×9 - 12×9	150	195	25
WS-C70GA	470E (ER 32 10 St.)	4,5×3,4 - 6×4,9 - 7×5,5 - 8×6,2 - 9×7 - 10×8 - 11×9 - 12×9 - 14×11 - 16×12	190	150	30
WS-C72GA	472E (ER 40 11 St.)	6×4,9 - 7×5,5 - 8×6,2 - 9×7 - 10×8 - 11×9 - 12×9 - 14×11 - 16×12 - 18×14,5 - 20×16	290	195	25

Collet sets in wooden boxes



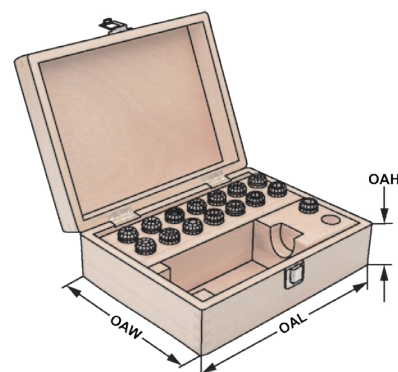
Order no.	Size		OAL	OAW	OAH
WB-C26GA-S	426E (ER 16; 6 St.)	3,5×2,7 - 4×3 - 4,5×3,4 - 6×4,9 - 7×5,5 - 8×6,2	360	235	70
WB-C28GA-S	428E (ER 20; 8 St.)	3,5×2,7 - 4×3 - 4,5×3,4 - 6×4,9 - 7×5,5 - 8×6,2 - 9×7 - 10×8	360	235	70
WB-C30GA-S	430E (ER 25; 10 St.)	3,5×2,7 - 4×3 - 4,5×3,4 - 6×4,9 - 7×5,5 - 8×6,2 - 9×7 - 10×8 - 11×9 - 12×9	360	235	70
WB-C70GA-S	470E (ER 32; 10 St.)	4,5×3,4 - 6×4,9 - 7×5,5 - 8×6,2 - 9×7 - 10×8 - 11×9 - 12×9 - 14×11 - 16×12	360	235	70
WB-C72GA-S	472E (ER 40; 11 St.)	6×4,9 - 7×5,5 - 8×6,2 - 9×7 - 10×8 - 11×9 - 12×9 - 14×11 - 16×12 - 18×14,5 - 20×16	360	235	70

Tap collets with seals and cooling channels



Order no.	Size		OAL	OAW	OAH
WS-C26GC-S	426E (ER 16; 6 St.)	3,5×2,7 - 4×3 - 4,5×3,4 - 6×4,9 - 7×5,5 - 8×6,2	130	50	25
WS-C28GC-S	428E (ER 20; 8 St.)	3,5×2,7 - 4×3 - 4,5×3,4 - 6×4,9 - 7×5,5 - 8×6,2 - 9×7 - 10×8	165	110	25
WS-C30GC-S	430E (ER 25; 10 St.)	3,5×2,7 - 4×3 - 4,5×3,4 - 6×4,9 - 7×5,5 - 8×6,2 - 9×7 - 10×8 - 11×9 - 12×9	150	195	25
WS-C70GC-S	470E (ER 32; 10 St.)	4,5×3,4 - 6×4,9 - 7×5,5 - 8×6,2 - 9×7 - 10×8 - 11×9 - 12×9 - 14×11 - 16×12	190	150	30
WS-C72GC-S	472E (ER 40; 11 St.)	6×4,9 - 7×5,5 - 8×6,2 - 9×7 - 10×8 - 11×9 - 12×9 - 14×11 - 16×12 - 18×14,5 - 20×16	290	195	25

Collet sets in wooden boxes



Order no.	Size		OAL	OAW	OAH
WB-C26GC-S	426E (ER 16; 6 St.)	3,5×2,7 - 4×3 - 4,5×3,4 - 6×4,9 - 7×5,5 - 8×6,2	360	235	70
WB-C28GC-S	428E (ER 20; 8 St.)	3,5×2,7 - 4×3 - 4,5×3,4 - 6×4,9 - 7×5,5 - 8×6,2 - 9×7- 10×8	360	235	70
WB-C30GC-S	430E (ER 25; 10 St.)	3,5×2,7 - 4×3 - 4,5×3,4 - 6×4,9 - 7×5,5 - 8×6,2 - 9×7 - 10×8 - 11×9 - 12×9	360	235	70
WB-C70GC-S	470E (ER 32; 10 St.)	4,5×3,4 - 6×4,9 - 7×5,5 - 8×6,2 - 9×7 - 10×8 - 11×9 - 12×9 - 14×11 - 16×12	360	235	70
WB-C72GC-S	472E (ER 40; 11 St.)	6×4,9 - 7×5,5 - 8×6,2 - 9×7 - 10×8 - 11×9 - 12×9 - 14×11 - 16×12 - 18×14,5 - 20×16	360	235	70

Reduction sleeves for high performance milling chucks system HKS



Order no.	Size	sealed
RS-HKS-20	Ø 20 (5 St.) 6 - 8 - 10 - 12 - 16	x
RS-HKS-25	Ø 25 (6 St.) 6 - 8 - 10 - 12 - 16 - 20	x
RS-HKS-32	Ø 32 (7 St.) 6 - 8 - 10 - 12 - 16 - 20 - 25	x

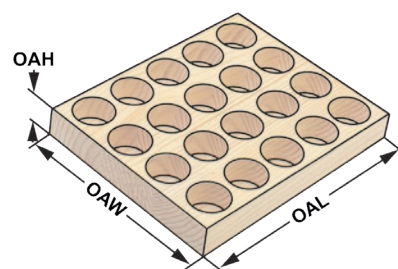


Order no.	Size	sealed
RS-HKS-RD20	Ø 20 (5 St.) 6 - 8 - 10 - 12 - 16	√
RS-HKS-RD25	Ø 25 (6 St.) 6 - 8 - 10 - 12 - 16 - 20	√
RS-HKS-RD32	Ø 32 (7 St.) 6 - 8 - 10 - 12 - 16 - 20 - 25	√

Wooden sockets, empty



Verwendung:
Zur Aufbewahrung von Spannzangen.
Application:
For the storage of collets.
Application:
Pour la conservation de pinces.



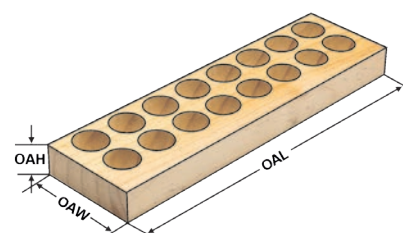
Order no.	Size		Holes	OAL	OAW	OAH
WS-07	Gr. 7	ER 11	13	125	45	20
WS-10	Gr. 10	ER 16	10	130	50	25
WS-13	Gr. 13	ER 20	12	165	110	25
WS-16	Gr. 16	ER 25 / OZ 16	20	190	155	30
WS-20 / 25	Gr. 20/25	ER 32 / OZ 25	20	190	155	30
WS-26 / 32	Gr. 26/32	ER 40 / OZ 32	30	290	240	30

Wooden sockets, empty - system KPS

9



Verwendung:
Zur Aufbewahrung von Spannzangen.
Application:
For the storage of collets.
Application:
Pour la conservation de pinces.

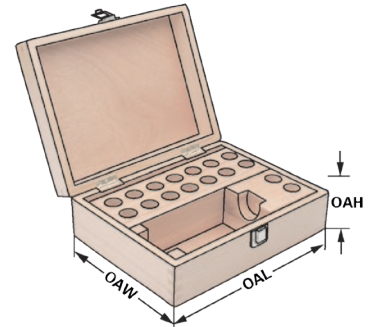


Order no.	Size		Holes	OAL	OAW	OAH
WS-PCS-10	Gr. 10	KPS 10	10	280	35	22
WS-PCS-16	Gr. 16	KPS 16	16	280	75	25

Wooden boxes, empty



Application:
For the storage of collet chuck, wrench
and collets.



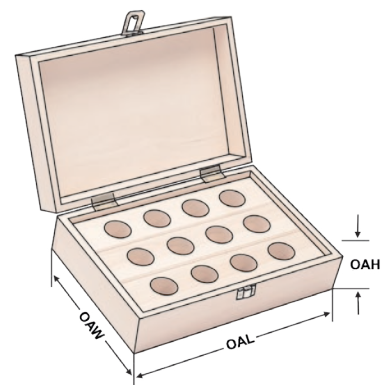
Order no.	Size		Holes	OAL	OAW	OAH
WB-07	Gr. 7	ER 11	16	360	235	70
WB-10	Gr. 10	ER 16	16	360	235	70
WB-13	Gr. 13	ER 20	16	360	235	70
WB-16	Gr. 16	ER 25 / OZ 16	16	360	235	70
WB-20-25	Gr. 20/25	ER 32 / OZ 25	16	360	235	70
WB-26-32	Gr. 26/32	ER 40 / OZ 32	16	360	235	70
WB-H20	Gr. 20 mm	20 mm	16	360	235	70
WB-H25	Gr. 25 mm	25 mm	12	360	235	70
WB-H32	Gr. 32 mm	32 mm	12	360	235	70



Verwendung:
Zur Aufbewahrung von Gewindeschneid-
futter Schnellwechsel-Einsätzen.

Application:
*For the storage of tapping quick change
adaptors.*

Application:
Pour la conservation adaptateurs à chan-
gement rapide.

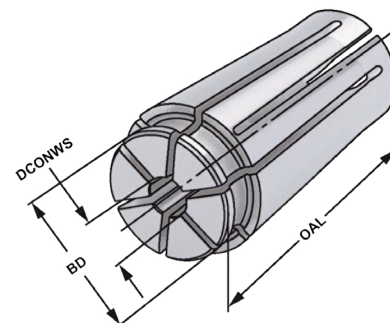


Order no.	Size	Holes	OAL	OAW	OAH
S-701-G01	Gr. 1	12	360	235	70
S-701-G02	Gr. 2	12	360	235	70
S-701-G03	Gr. 3	10	360	235	70

Precision collets | KPS-system



Application:
For mounting straight-shank tools in collet chucks KPS-system. To use for high speed cutting and high precision milling.



Order no.	Size	DCONWS	BD	OAL
PCS-10EK-010	KPS 10	1	15,5	30,5
PCS-10EK-015	KPS 10	1,5	15,5	30,5
PCS-10EK-020	KPS 10	2	15,5	30,5
PCS-10EK-025	KPS 10	2,5	15,5	30,5
PCS-10EK-030	KPS 10	3	15,5	30,5
PCS-10EK-035	KPS 10	3,5	15,5	30,5
PCS-10EK-040	KPS 10	4	15,5	30,5
PCS-10EK-045	KPS 10	4,5	15,5	30,5
PCS-10EK-050	KPS 10	5	15,5	30,5
PCS-10EK-055	KPS 10	5,5	15,5	30,5
PCS-10EK-060	KPS 10	6	15,5	30,5
PCS-10EK-065	KPS 10	6,5	15,5	30,5
PCS-10EK-070	KPS 10	7	15,5	30,5
PCS-10EK-075	KPS 10	7,5	15,5	30,5
PCS-10EK-080	KPS 10	8	15,5	30,5
PCS-10EK-085	KPS 10	8,5	15,5	30,5
PCS-10EK-090	KPS 10	9	15,5	30,5
PCS-10EK-095	KPS 10	9,5	15,5	30,5
PCS-10EK-100	KPS 10	10	15,5	30,5

9

KPS collet sets in wooden sockets



Order no.	Size
WS-10EK-S	490 EK (KPS 10 9 St.) 2-3-4-5-6-7-8-9-10

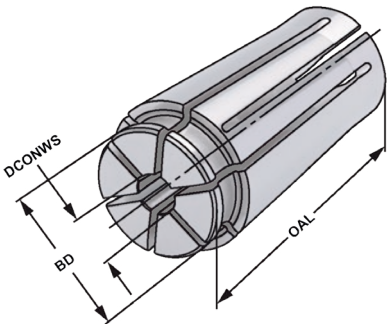


Note: Only nominal size DCONWS can be clamped.

Precision collets | KPS-system



Application:
For mounting straight-shank tools in collet chucks KPS-system. To use for high speed cutting and high precision milling.



Order no.	Size	DCONWS	BD	OAL
PCS-16EK-040	KPS 16	4	24,6	45
PCS-16EK-045	KPS 16	4,5	24,6	45
PCS-16EK-050	KPS 16	5	24,6	45
PCS-16EK-055	KPS 16	5,5	24,6	45
PCS-16EK-060	KPS 16	6	24,6	45
PCS-16EK-065	KPS 16	6,5	24,6	45
PCS-16EK-070	KPS 16	7	24,6	45
PCS-16EK-075	KPS 16	7,5	24,6	45
PCS-16EK-080	KPS 16	8	24,6	45
PCS-16EK-085	KPS 16	8,5	24,6	45
PCS-16EK-090	KPS 16	9	24,6	45
PCS-16EK-095	KPS 16	9,5	24,6	45
PCS-16EK-100	KPS 16	10	24,6	45
PCS-16EK-105	KPS 16	10,5	24,6	45
PCS-16EK-110	KPS 16	11	24,6	45
PCS-16EK-115	KPS 16	11,5	24,6	45
PCS-16EK-120	KPS 16	12	24,6	45
PCS-16EK-125	KPS 16	12,5	24,6	45
PCS-16EK-130	KPS 16	13	24,6	45
PCS-16EK-135	KPS 16	13,5	24,6	45
PCS-16EK-140	KPS 16	14	24,6	45
PCS-16EK-145	KPS 16	14,5	24,6	45
PCS-16EK-150	KPS 16	15	24,6	45
PCS-16EK-155	KPS 16	15,5	24,6	45
PCS-16EK-160	KPS 16	16	24,6	45



KPS collet sets in wooden sockets

Order no.	Size
WS-16EK-S	496 EK (KPS 16 13 St.) 4-5-6-7-8-9-10-11-12-13-14-15-16

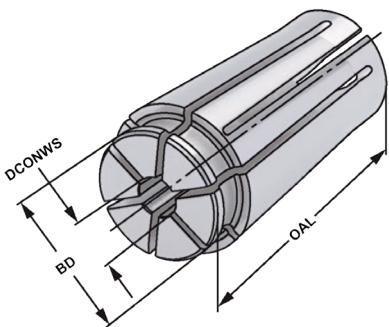


Note: Only nominal size DCONWS can be clamped.

Precision collets sealed | KPS-system up to 100 bar



Application:
For mounting straight-shank tools in collet chucks KPS-system. To use for high speed cutting and high precision milling.



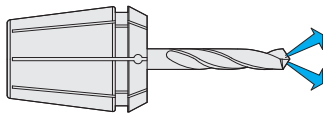
KPS

≤5μm

100 bar

Ch. 11

Order no.	Size	DCONWS	BD	OAL
PCS-10HP-030	KPS 10	3	15,5	30,5
PCS-10HP-040	KPS 10	4	15,5	30,5
PCS-10HP-050	KPS 10	5	15,5	30,5
PCS-10HP-060	KPS 10	6	15,5	30,5
PCS-10HP-070	KPS 10	7	15,5	30,5
PCS-10HP-080	KPS 10	8	15,5	30,5
PCS-10HP-090	KPS 10	9	15,5	30,5
PCS-10HP-100	KPS 10	10	15,5	30,5



KPS collet sets sealed in wooden sockets

Order no.	Size
WS-10HP-S	490 EK (KPS 10 8 St.) 3-4-5-6-7-8-9-10

10.05

10.05

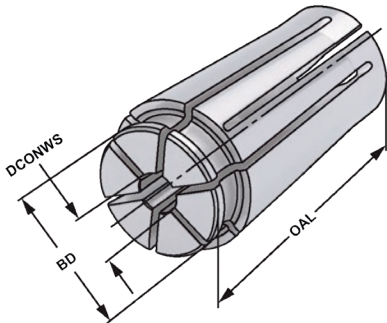
10.06

Note: Only nominal size DCONWS can be clamped.

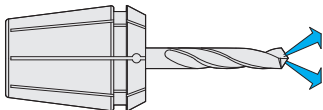
Precision collets sealed | KPS-system up to 100 bar



Application:
For mounting straight-shank tools in collet chucks KPS-system. To use for high speed cutting and high precision milling.



Order no.	Size	DCONWS	BD	OAL
PCS-16HP-040	KPS 16	4	24,6	45
PCS-16HP-050	KPS 16	5	24,6	45
PCS-16HP-060	KPS 16	6	24,6	45
PCS-16HP-070	KPS 16	7	24,6	45
PCS-16HP-080	KPS 16	8	24,6	45
PCS-16HP-090	KPS 16	9	24,6	45
PCS-16HP-100	KPS 16	10	24,6	45
PCS-16HP-110	KPS 16	11	24,6	45
PCS-16HP-120	KPS 16	12	24,6	45
PCS-16HP-130	KPS 16	13	24,6	45
PCS-16HP-140	KPS 16	14	24,6	45
PCS-16HP-150	KPS 16	15	24,6	45
PCS-16HP-160	KPS 16	16	24,6	45



KPS collet sets sealed in wooden sockets

Order no.	Size
WS-16HP-S	496 EK (KPS 16 13 St.) 4-5-6-7-8-9-10-11-12-13-14-15-16



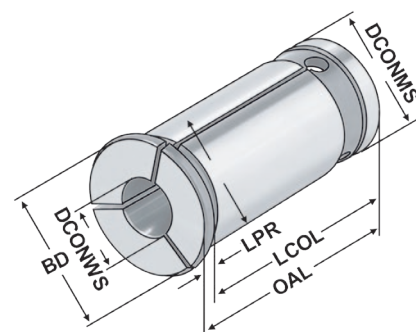
Note: Only nominal size DCONWS can be clamped.

Reduction sleeves for high performance milling chucks system HKS

with peripheral cooling, collar slotted, not coolant proof

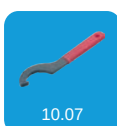


Application:
For mounting straight-shank tools.



Note: The chucking diameter is configured for a tool tolerance of h_6 .

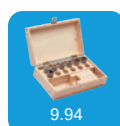
Order no.	DCONMS	DCONWS	OAL	BD	LPR	LCOL
PCS-H20-030	20	3	53	25	3	50
PCS-H20-040	20	4	53	25	3	50
PCS-H20-050	20	5	53	25	3	50
PCS-H20-060	20	6	53	25	3	50
PCS-H20-080	20	8	53	25	3	50
PCS-H20-100	20	10	53	25	3	50
PCS-H20-120	20	12	53	25	3	50
PCS-H20-140	20	14	53	25	3	50
PCS-H20-160	20	16	53	25	3	50
PCS-H25-060	25	6	60	31	3	57
PCS-H25-080	25	8	60	31	3	57
PCS-H25-100	25	10	60	31	3	57
PCS-H25-120	25	12	60	31	3	57
PCS-H25-140	25	14	60	31	3	57
PCS-H25-160	25	16	60	31	3	57
PCS-H25-180	25	18	60	31	3	57
PCS-H25-200	25	20	60	31	3	57
PCS-H32-060	32	6	73	37	4	69
PCS-H32-080	32	8	73	37	4	69
PCS-H32-100	32	10	73	37	4	69
PCS-H32-120	32	12	73	37	4	69
PCS-H32-140	32	14	73	37	4	69
PCS-H32-160	32	16	73	37	4	69
PCS-H32-180	32	18	73	37	4	69
PCS-H32-200	32	20	73	37	4	69
PCS-H32-250	32	25	73	37	4	69



10.07



9.103



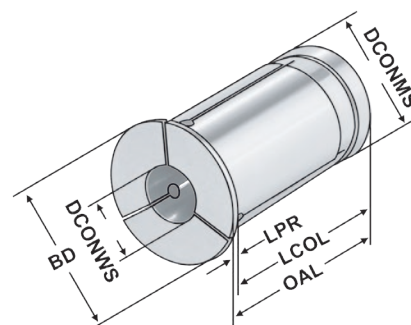
9.94

Reduction sleeves for high performance milling chucks system HKS

for internal coolant supply, closed collar, coolant proof up to max. 80 bar



Application:
For mounting straight-shank tools with internal coolant.



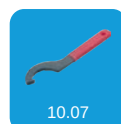
Order no.	DCONMS	DCONWS	OAL	BD	LPR	LCOL
PCS-H20-030-IC	20	3	52,5	28	3,5	49
PCS-H20-040-IC	20	4	52,5	28	3,5	49
PCS-H20-050-IC	20	5	52,5	28	3,5	49
PCS-H20-060-IC	20	6	52,5	28	3,5	49
PCS-H20-080-IC	20	8	52,5	28	3,5	49
PCS-H20-100-IC	20	10	52,5	28	3,5	49
PCS-H20-120-IC	20	12	52,5	28	3,5	49
PCS-H20-140-IC	20	14	52,5	28	3,5	49
PCS-H20-160-IC	20	16	52,5	28	3,5	49
PCS-H25-030-IC	25	3	56,5	34	2	54,5
PCS-H25-040-IC	25	4	56,5	34	2	54,5
PCS-H25-050-IC	25	5	56,5	34	2	54,5
PCS-H25-060-IC	25	6	56,5	34	2	54,5
PCS-H25-080-IC	25	8	56,5	34	2	54,5
PCS-H25-100-IC	25	10	56,5	34	2	54,5
PCS-H25-120-IC	25	12	56,5	34	2	54,5
PCS-H25-140-IC	25	14	56,5	34	2	54,5
PCS-H25-160-IC	25	16	56,5	34	2	54,5
PCS-H25-180-IC	25	18	56,5	34	2	54,5
PCS-H25-200-IC	25	20	56,5	34	2	54,5
PCS-H32-030-IC	32	3	62,5	42	5	57,5
PCS-H32-040-IC	32	4	62,5	42	5	57,5
PCS-H32-050-IC	32	5	62,5	42	5	57,5
PCS-H32-060-IC	32	6	62,5	42	5	57,5
PCS-H32-080-IC	32	8	62,5	42	5	57,5
PCS-H32-100-IC	32	10	62,5	42	5	57,5
PCS-H32-120-IC	32	12	62,5	42	5	57,5
PCS-H32-140-IC	32	14	62,5	42	5	57,5
PCS-H32-160-IC	32	16	62,5	42	5	57,5
PCS-H32-180-IC	32	18	62,5	42	5	57,5
PCS-H32-200-IC	32	20	62,5	42	5	57,5
PCS-H32-250-IC	32	25	62,5	42	5	57,5

Note: The chucking diameter is configured for a tool tolerance of h_6 .

HKS Milling chuck in wooden box with reduction bushes, not coolant proof



Order no.	Size	Reduction sleeves	sealed
SK40-03-64-20-S	SK 40 - 20 - 90	(HKS20 ; 5 St.) 6-8-10-12-16	x
SK40-03-64-25-S	SK 40 - 25 - 105	(HKS25 ; 6 St.) 6-8-10-12-16-20	x
SK40-03-64-32-S	SK 40 - 32 - 105	(HKS32 ; 7 St.) 6-8-10-12-16-20-25	x
SK50-03-64-20-SC	SK 50 - 20 - 90	(HKS20 ; 5 St.) 6-8-10-12-16	x
SK50-03-64-25-SC	SK 50 - 25 - 90	(HKS25 ; 6 St.) 6-8-10-12-16-20	x
SK50-03-64-32-SC	SK 50 - 32 - 90	(HKS32 ; 7 St.) 6-8-10-12-16-20-25	x
SK40-06-64-20-S	BT 40 - 20 - 90	(HKS20 ; 5 St.) 6-8-10-12-16	x
SK40-06-64-25-S	BT 40 - 25 - 90	(HKS25 ; 6 St.) 6-8-10-12-16-20	x
SK40-06-64-32-S	BT 40 - 32 - 90	(HKS32 ; 7 St.) 6-8-10-12-16-20-25	x
BT50-06-64-20-SR	BT 50 - 20 - 95	(HKS20 ; 5 St.) 6-8-10-12-16	x
BT50-06-64-25-SR	BT 50 - 25 - 95	(HKS25 ; 6 St.) 6-8-10-12-16-20	x
BT50-06-64-32-SR	BT 50 - 32 - 90	(HKS32 ; 7 St.) 6-8-10-12-16-20-25	x
HSK-A63-64-20-S	HSK 63 - 20 - 95	(HKS20 ; 5 St.) 6-8-10-12-16	x
HSK-A63-64-25-S	HSK 63 - 25 - 100	(HKS25 ; 6 St.) 6-8-10-12-16-20	x
HSK-A63-64-32-S	HSK 63 - 32 - 110	(HKS32 ; 7 St.) 6-8-10-12-16-20-25	x
HSK-A100-64-20-S	HSK 100 - 20 - 105	(HKS20 ; 5 St.) 6-8-10-12-16	x
HSK-A100-64-25-S	HSK 100 - 25 - 105	(HKS25 ; 6 St.) 6-8-10-12-16-20	x
HSK-A100-64-32-S	HSK 100 - 32 - 105	(HKS32 ; 7 St.) 6-8-10-12-16-20-25	x



HKS Milling chuck in wooden box with reduction bushes, coolant proof



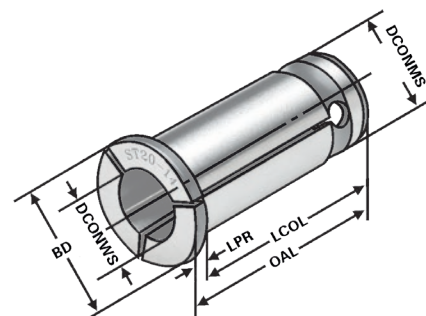
Order no.	Size	Reduction sleeves	sealed
SK40-03-64-20-IC-S	SK 40 - 20 - 90	(HKS20 RD; 5 St.) 6-8-10-12-16	√
SK40-03-64-25-IC-S	SK 40 - 25 - 105	(HKS25 RD; 6 St.) 6-8-10-12-16-20	√
SK40-03-64-32-IC-S	SK 40 - 32 - 105	(HKS32 RD; 7 St.) 6-8-10-12-16-20-25	√
SK50-03-64-20	SK 50 - 20 - 90	(HKS20 RD; 5 St.) 6-8-10-12-16	√
SK50-03-64-25	SK 50 - 25 - 90	(HKS25 RD; 6 St.) 6-8-10-12-16-20	√
SK50-03-64-32	SK 50 - 32 - 90	(HKS32 RD; 7 St.) 6-8-10-12-16-20-25	√
SK40-06-64-20-IC-S	BT 40 - 20 - 90	(HKS20 RD; 5 St.) 6-8-10-12-16	√
SK40-06-64-25-IC-S	BT 40 - 25 - 90	(HKS25 RD; 6 St.) 6-8-10-12-16-20	√
SK40-06-64-32-IC-S	BT 40 - 32 - 90	(HKS32 RD; 7 St.) 6-8-10-12-16-20-25	√
BT50-06-64-20-SRD	BT 50 - 20 - 95	(HKS20 RD; 5 St.) 6-8-10-12-16	√
BT50-06-64-25-SRD	BT 50 - 25 - 95	(HKS25 RD; 6 St.) 6-8-10-12-16-20	√
BT50-06-64-32-SRD	BT 50 - 32 - 90	(HKS32 RD; 7 St.) 6-8-10-12-16-20-25	√
HSK-A63-64-20-IC-S	HSK 63 - 20 - 95	(HKS20 RD; 5 St.) 6-8-10-12-16	√
HSK-A63-64-25-IC-S	HSK 63 - 25 - 100	(HKS25 RD; 6 St.) 6-8-10-12-16-20	√
HSK-A63-64-32-IC-S	HSK 63 - 32 - 110	(HKS32 RD; 7 St.) 6-8-10-12-16-20-25	√
HSK-A100-64-20-IC-S	HSK 100 - 20 - 105	(HKS20 RD; 5 St.) 6-8-10-12-16	√
HSK-A100-64-25-IC-S	HSK 100 - 25 - 105	(HKS25 RD; 6 St.) 6-8-10-12-16-20	√
HSK-A100-64-32-IC-S	HSK 100 - 32 - 105	(HKS32 RD; 7 St.) 6-8-10-12-16-20-25	√



Reduction sleeves for hydraulic expansion chucks with peripheral cooling, collar slotted, not coolant proof



Application:
For mounting straight-shank tools.



Hydro



Hinweis:
Note:
Observation:

Der Spanndurchmesser ist für eine Werkzeugtoleranz h₆ ausgelegt.
The chucking diameter is configured for a tool tolerance of h₆.
Le diamètre de serrage est conçu pour une tolérance d'outil h₆.

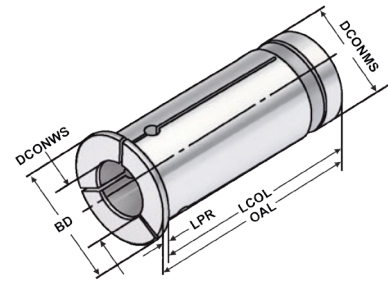


Order no.	DCONMS	DCONWS	OAL	BD	LPR	LCOL
H12-030	12	3	44,5	19	2	42,5
H12-040	12	4	44,5	19	2	42,5
H12-050	12	5	44,5	19	2	42,5
H12-060	12	6	44,5	19	2	42,5
H12-080	12	8	44,5	19	2	42,5
H20-030	20	3	53	25	3	50
H20-040	20	4	53	25	3	50
H20-050	20	5	53	25	3	50
H20-060	20	6	53	25	3	50
H20-080	20	8	53	25	3	50
H20-100	20	10	53	25	3	50
H20-120	20	12	53	25	3	50
H20-140	20	14	53	25	3	50
H20-160	20	16	53	25	3	50
H25-030	25	3	60	31	3	57
H25-040	25	4	60	31	3	57
H25-050	25	5	60	31	3	57
H25-060	25	6	60	31	3	57
H25-080	25	8	60	31	3	57
H25-100	25	10	60	31	3	57
H25-120	25	12	60	31	3	57
H25-140	25	14	60	31	3	57
H25-160	25	16	60	31	3	57
H25-180	25	18	60	31	3	57
H25-200	25	20	60	31	3	57
H32-060	32	6	64,6	37,5	5	59,6
H32-080	32	8	64,6	37,5	5	59,6
H32-100	32	10	64,6	37,5	5	59,6
H32-120	32	12	64,6	37,5	5	59,6
H32-140	32	14	64,6	37,5	5	59,6
H32-160	32	16	64,6	37,5	5	59,6
H32-180	32	18	64,6	37,5	5	59,6
H32-200	32	20	64,6	37,5	5	59,6
H32-250	32	25	64,6	37,5	5	59,6

Reduction sleeves for hydraulic expansion chucks for internal coolant supply, closed collar, coolant proof up to max. 80 bar



Application:
For mounting straight-shank tools with internal coolant.



Note:

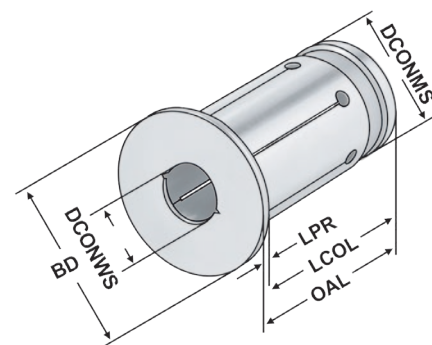
The chucking diameter is configured for a tool tolerance of h_6 .

Order no.	DCONMS	DCONWS	OAL	BD	LPR	LCOL
H12-030-IC	12	3	40	16	2	38
H12-040-IC	12	4	40	16	2	38
H12-050-IC	12	5	40	16	2	38
H12-060-IC	12	6	40	16	2	38
H12-080-IC	12	8	40	16	2	38
H20-030-IC	20	3	52,9	25	3,5	49,4
H20-040-IC	20	4	52,9	25	3,5	49,4
H20-050-IC	20	5	52,9	25	3,5	49,4
H20-060-IC	20	6	52,9	25	3,5	49,4
H20-080-IC	20	8	52,9	25	3,5	49,4
H20-100-IC	20	10	52,9	25	3,5	49,4
H20-120-IC	20	12	52,9	25	3,5	49,4
H20-140-IC	20	14	52,9	25	3,5	49,4
H20-160-IC	20	16	52,9	25	3,5	49,4
H25-030-IC	25	3	52,5	30,5	2	50,5
H25-040-IC	25	4	52,5	30,5	2	50,5
H25-050-IC	25	5	52,5	30,5	2	50,5
H25-060-IC	25	6	52,5	30,5	2	50,5
H25-080-IC	25	8	52,5	30,5	2	50,5
H25-100-IC	25	10	52,5	30,5	2	50,5
H25-120-IC	25	12	52,5	30,5	2	50,5
H25-140-IC	25	14	52,5	30,5	2	50,5
H25-160-IC	25	16	52,5	30,5	2	50,5
H25-180-IC	25	18	52,5	30,5	2	50,5
H25-200-IC	25	20	52,5	30,5	2	50,5
H32-030-IC	32	3	66	37,5	5	61
H32-040-IC	32	4	66	37,5	5	61
H32-050-IC	32	5	66	37,5	5	61
H32-060-IC	32	6	66	37,5	5	61
H32-080-IC	32	8	66	37,5	5	61
H32-100-IC	32	10	66	37,5	5	61
H32-120-IC	32	12	66	37,5	5	61
H32-140-IC	32	14	66	37,5	5	61
H32-160-IC	32	16	66	37,5	5	61
H32-180-IC	32	18	66	37,5	5	61
H32-200-IC	32	20	66	37,5	5	61
H32-250-IC	32	25	66	37,5	5	61

Reduction sleeves for hydraulic expansion chucks with cooling channels along the boring



Application:
For mounting straight-shank tools.

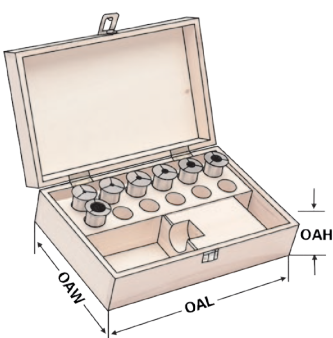


Order no.	DCONMS	DCONWS	OAL	BD	LPR	LCOL
H20-030-CC	20	3	52,5	28	3,5	49
H20-040-CC	20	4	52,5	28	3,5	49
H20-050-CC	20	5	52,5	28	3,5	49
H20-060-CC	20	6	52,5	28	3,5	49
H20-080-CC	20	8	52,5	28	3,5	49
H20-100-CC	20	10	52,5	28	3,5	49
H20-120-CC	20	12	52,5	28	3,5	49
H20-140-CC	20	14	52,5	28	3,5	49
H20-160-CC	20	16	52,5	28	3,5	49
H25-030-CC	25	3	56,5	34	2	54,5
H25-040-CC	25	4	56,5	34	2	54,5
H25-050-CC	25	5	56,5	34	2	54,5
H25-060-CC	25	6	56,5	34	2	54,5
H25-080-CC	25	8	56,5	34	2	54,5
H25-100-CC	25	10	56,5	34	2	54,5
H25-120-CC	25	12	56,5	34	2	54,5
H25-140-CC	25	14	56,5	34	2	54,5
H25-160-CC	25	16	56,5	34	2	54,5
H25-180-CC	25	18	56,5	34	2	54,5
H25-200-CC	25	20	56,5	34	2	54,5
H32-040-CC	32	4	62,5	42	5	57,5
H32-050-CC	32	5	62,5	42	5	57,5
H32-060-CC	32	6	62,5	42	5	57,5
H32-080-CC	32	8	62,5	42	5	57,5
H32-100-CC	32	10	62,5	42	5	57,5
H32-120-CC	32	12	62,5	42	5	57,5
H32-140-CC	32	14	62,5	42	5	57,5
H32-160-CC	32	16	62,5	42	5	57,5
H32-180-CC	32	18	62,5	42	5	57,5
H32-200-CC	32	20	62,5	42	5	57,5
H32-250-CC	32	25	62,5	42	5	57,5

Note:

The chucking diameter is configured for a tool tolerance of h_6 .

Reduction sleeves for hydraulic expansion chucks,
collet sets in wooden boxes



Reduction sleeves, not coolant proof, for hydraulic chucks in wooden case

Order no.	Size	OAL	OAW	OAH
RS-R20	Ø 20 (5 St.) 6 - 8 - 10 - 12 - 16	360	235	70
RS-R25	Ø 25 (6 St.) 6 - 8 - 10 - 12 - 16 - 20	360	235	70
RS-R32	Ø 32 (7 St.) 6 - 8 - 10 - 12 - 16 - 20 - 25	360	235	70



Reduction sleeves, coolant proof, for hydraulic chucks in wooden case

Order no.	Size	OAL	OAW	OAH
RS-RD20	Ø 20 (5 St.) 6 - 8 - 10 - 12 - 16	360	235	70
RS-RD25	Ø 25 (6 St.) 6 - 8 - 10 - 12 - 16 - 20	360	235	70
RS-RD32	Ø 32 (7 St.) 6 - 8 - 10 - 12 - 16 - 20 - 25	360	235	70



Reduction sleeves, coolant proof with cooling channels, for hydraulic chucks in wooden case

Order no.	Size	OAL	OAW	OAH
RS-RDC20	Ø 20 (5 St.) 6 - 8 - 10 - 12 - 16	360	235	70
RS-RDC25	Ø 25 (6 St.) 6 - 8 - 10 - 12 - 16 - 20	360	235	70
RS-RDC32	Ø 32 (7 St.) 6 - 8 - 10 - 12 - 16 - 20 - 25	360	235	70

Hydraulic expansion chucks in wooden box DIN ISO 7388-1 (formerly DIN 69871)



Order no.	Size	Reduction sleeves	Sealed	Cooling channels
SK30-02-H20-S	SK 30 - 20 - 90	6 - 8 - 10 - 12 - 16	x	x
SK40-03-H20-S	SK 40 - 20 - 82	6 - 8 - 10 - 12 - 16	x	x
SK40-03-H25-S	SK 40 - 25 - 117	6 - 8 - 10 - 12 - 16 - 20	x	x
SK40-03-H32-S	SK 40 - 32 - 117	6 - 8 - 10 - 12 - 16 - 20 - 25	x	x
SK50-03-H20-R-S	SK 50 - 20 - 82	6 - 8 - 10 - 12 - 16	x	x
SK50-03-H25-R-S	SK 50 - 25 - 87	6 - 8 - 10 - 12 - 16 - 20	x	x
SK50-03-H32-R-S	SK 50 - 32 - 91	6 - 8 - 10 - 12 - 16 - 20 - 25	x	x

Order no.	Size	Reduction sleeves	Sealed	Cooling channels
SK30-02-H20-IC-S	SK 30 - 20 - 90	6 - 8 - 10 - 12 - 16	√	x
SK40-03-H20-IC-S	SK 40 - 20 - 82	6 - 8 - 10 - 12 - 16	√	x
SK40-03-H25-IC-S	SK 40 - 25 - 117	6 - 8 - 10 - 12 - 16 - 20	√	x
SK40-03-H32-IC-S	SK 40 - 32 - 117	6 - 8 - 10 - 12 - 16 - 20 - 25	√	x
SK50-03-H20-RD-S	SK 50 - 20 - 82	6 - 8 - 10 - 12 - 16	√	x
SK50-03-H25-RD-S	SK 50 - 25 - 87	6 - 8 - 10 - 12 - 16 - 20	√	x
SK50-03-H32-RD-S	SK 50 - 32 - 91	6 - 8 - 10 - 12 - 16 - 20 - 25	√	x

Order no.	Size	Reduction sleeves	Sealed	Cooling channels
SK30-02-H20-CC-S	SK 30 - 20 - 90	6 - 8 - 10 - 12 - 16	√	√
SK40-03-H20-CC-S	SK 40 - 20 - 82	6 - 8 - 10 - 12 - 16	√	√
SK40-03-H25-CC-S	SK 40 - 25 - 117	6 - 8 - 10 - 12 - 16 - 20	√	√
SK40-03-H32-CC-S	SK 40 - 32 - 117	6 - 8 - 10 - 12 - 16 - 20 - 25	√	√
SK50-03-H20-RDC-S	SK 50 - 20 - 82	6 - 8 - 10 - 12 - 16	√	√
SK50-03-H25-RDC-S	SK 50 - 25 - 87	6 - 8 - 10 - 12 - 16 - 20	√	√
SK50-03-H32-RDC-S	SK 50 - 32 - 91	6 - 8 - 10 - 12 - 16 - 20 - 25	√	√

Hydraulic expansion chucks in wooden box

DIN ISO 7388-2 (formerly JIS B 6339 MAS-BT)



Order no.	Size	Reduction sleeves	Sealed	Cooling channels
BT30-05-H20-S	BT 30 - 20 - 90	6 - 8 - 10 - 12 - 16	x	x
BT40-06-H20-S	BT 40 - 20 - 90	6 - 8 - 10 - 12 - 16	x	x
BT40-06-H25-S	BT 40 - 25 - 90	6 - 8 - 10 - 12 - 16 - 20	x	x
BT40-06-H32-S	BT 40 - 32 - 110	6 - 8 - 10 - 12 - 16 - 20 - 25	x	x
BT50-06-H20-R-S	BT 50 - 20 - 110	6 - 8 - 10 - 12 - 16	x	x
BT50-06-H25-R-S	BT 50 - 25 - 110	6 - 8 - 10 - 12 - 16 - 20	x	x
BT50-06-H32-R-S	BT 50 - 32 - 110	6 - 8 - 10 - 12 - 16 - 20 - 25	x	x

Order no.	Size	Reduction sleeves	Sealed	Cooling channels
BT30-05-H20-IC-S	BT 30 - 20 - 90	6 - 8 - 10 - 12 - 16	√	x
BT40-06-H20-IC-S	BT 40 - 20 - 90	6 - 8 - 10 - 12 - 16	√	x
BT40-06-H25-IC-S	BT 40 - 25 - 90	6 - 8 - 10 - 12 - 16 - 20	√	x
BT40-06-H32-IC-S	BT 40 - 32 - 110	6 - 8 - 10 - 12 - 16 - 20 - 25	√	x
BT50-06-H20-RD-S	BT 50 - 20 - 110	6 - 8 - 10 - 12 - 16	√	x
BT50-06-H25-RD-S	BT 50 - 25 - 110	6 - 8 - 10 - 12 - 16 - 20	√	x
BT50-06-H32-RD-S	BT 50 - 32 - 110	6 - 8 - 10 - 12 - 16 - 20 - 25	√	x

Order no.	Size	Reduction sleeves	Sealed	Cooling channels
BT30-05-H20-CC-S	BT 30 - 20 - 90	6 - 8 - 10 - 12 - 16	√	√
BT40-06-H20-CC-S	BT 40 - 20 - 90	6 - 8 - 10 - 12 - 16	√	√
BT40-06-H25-CC-S	BT 40 - 25 - 90	6 - 8 - 10 - 12 - 16 - 20	√	√
BT40-06-H32-CC-S	BT 40 - 32 - 110	6 - 8 - 10 - 12 - 16 - 20 - 25	√	√
BT50-06-H20-RDC-S	BT 50 - 20 - 110	6 - 8 - 10 - 12 - 16	√	√
BT50-06-H25-RDC-S	BT 50 - 25 - 110	6 - 8 - 10 - 12 - 16 - 20	√	√
BT50-06-H32-RDC-S	BT 50 - 32 - 110	6 - 8 - 10 - 12 - 16 - 20 - 25	√	√

Hydraulic expansion chucks in wooden box

DIN 69893 / ISO 12164 (HSK-A)



Order no.	Size	Reduction sleeves	Sealed	Cooling channels
HSK-A63-H20-S	HSK 63 - 20 - 100	6 - 8 - 10 - 12 - 16	x	x
HSK-A63-H25-S	HSK 63 - 25 - 120	6 - 8 - 10 - 12 - 16 - 20	x	x
HSK-A63-H32-S	HSK 63 - 32 - 125	6 - 8 - 10 - 12 - 16 - 20 - 25	x	x
HSK-A100-H20-S	HSK 100 - 20 - 105	6 - 8 - 10 - 12 - 16	x	x
HSK-A100-H25-S	HSK 100 - 25 - 115	6 - 8 - 10 - 12 - 16 - 20	x	x
HSK-A100-H32-S	HSK 100 - 20 - 120	6 - 8 - 10 - 12 - 16 - 20 - 25	x	x

Order no.	Size	Reduction sleeves	Sealed	Cooling channels
HSK-A63-H20-IC-S	HSK 63 - 20 - 100	6 - 8 - 10 - 12 - 16	√	x
HSK-A63-H25-IC-S	HSK 63 - 25 - 120	6 - 8 - 10 - 12 - 16 - 20	√	x
HSK-A63-H32-IC-S	HSK 63 - 32 - 125	6 - 8 - 10 - 12 - 16 - 20 - 25	√	x
HSK-A100-H20-IC-S	HSK 100 - 20 - 105	6 - 8 - 10 - 12 - 16	√	x
HSK-A100-H25-IC-S	HSK 100 - 25 - 115	6 - 8 - 10 - 12 - 16 - 20	√	x
HSK-A100-H32-IC-S	HSK 100 - 20 - 120	6 - 8 - 10 - 12 - 16 - 20 - 25	√	x

Order no.	Size	Reduction sleeves	Sealed	Cooling channels
HSK-A63-H20-CC-S	HSK 63-20-100	6-8-10-12-16	√	√
HSK-A63-H25-CC-S	HSK 63-25-120	6-8-10-12-16-20	√	√
HSK-A63-H32-CC-S	HSK 63-32-125	6-8-10-12-16-20-25	√	√
HSK-A100-H20-CC-S	HSK 100-20-105	6-8-10-12-16	√	√
HSK-A100-H25-CC-S	HSK 100-25-115	6-8-10-12-16-20	√	√
HSK-A100-H32-CC-S	HSK 100-20-120	6-8-10-12-16-20-25	√	√

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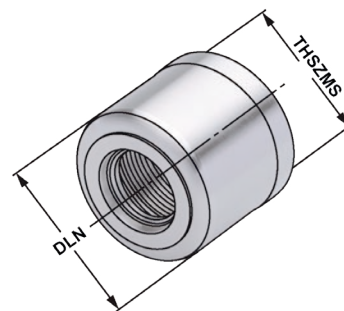
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10.103	10.104		
			

Clamping nuts | KPS-system



Application:
For collets KPS-system.



Order no.	Version	DCONWS	DLN	HLN	TQX	THSZMS
AC-PCS-10EK-181	490EK KPS 10	1 - 10	27,15	24	40	M21,5×1,0
AC-PCS-16EK-181	496EK KPS 16	4 - 16	40	31	70	M32,0×1,5

Collet extractor | KPS-system



Application:
For the assembly and disassembly
of collets KPS-system.

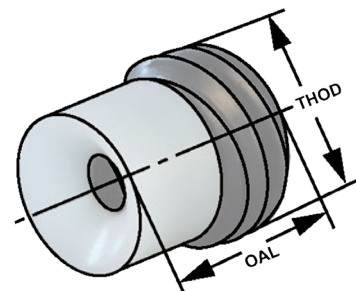
Order no.	Size
AC-PCS-10EK-183	490EK KPS 10
AC-PCS-16EK-183	496EK KPS 16

10

Setting screw for for internal cooling KPS-system



Application:
For sealing tools with internal cooling.

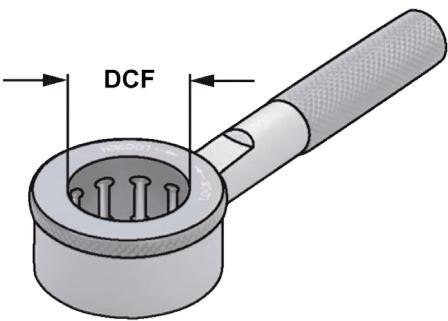


Order no.	Size	OAL	THOD
AC-PCS-10EK-184	490EK KPS 10	12,5	M12 x 1,75
AC-PCS-16EK-184	496EK KPS 16	16,3	M18 x 1,50

Wrenches for clamping nuts | KPS-system



Application:
For clamping nuts KPS-system.

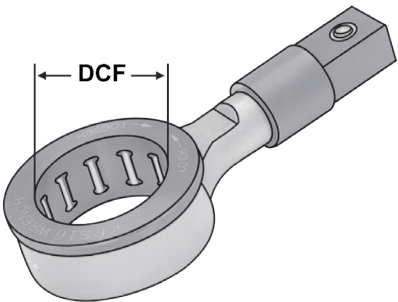


Order no.	Size	DCF
AC-PCS-10EK-182	490EK KPS 10	28
AC-PCS-16EK-182	496EK KPS 16	40

Roller Bearing plug-in head for KPS-system

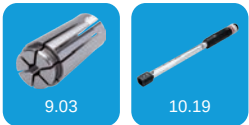


Application:
For the transfer of a defined torque.



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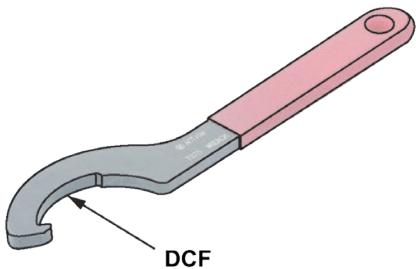
Order no.	Size	DCF
K8-03-10	490EK KPS 10	28
K8-03-16	496EK KPS 16	40



Wrenches forHigh Performance Milling Chuck | HKS-system



Application:
For clamping the HKS collet chucks.



Order no.	Size	D
K-PCS-H20	HKS 20	50
K-PCS-H25/32	HKS 25 + HKS 32	60

Extractor for reduction sleeves High Performance Milling Chuck | HKS-system



Application:
For extracting the reduction sleeves.

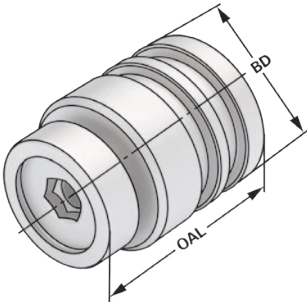
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Order no.	Size
O-PCS-H	HKS 20 HKS 25 HKS 32

Setting screw for High Performance Milling Chuck | HKS-system

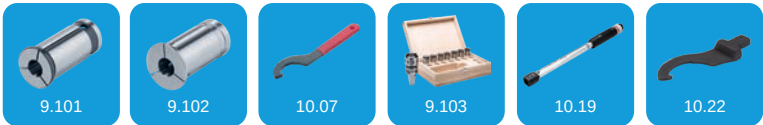


Application:
For setting the tool in the HKS collet chucks.



Order no.	Size	OAL	BD
AC-PCS-H20-184*	HKS 20	30	19
AC-PCS-H25-184*	HKS 25	30	24
AC-PCS-H32-184*	HKS 32	38	31

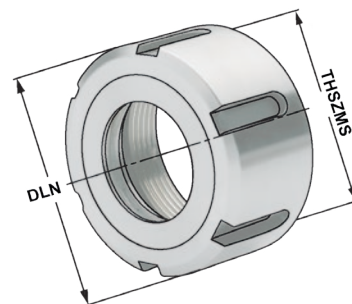
* Not applicable with reductions



Clamping nuts ISO 10897 (DIN 6388 D) OZ-system, ball-bearing version



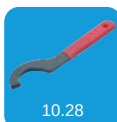
Application:
All collets with outside form ISO 10897
(DIN 6388 D) can be clamped.



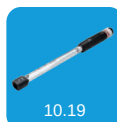
ISO
10897

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Order no.	Version	NORM	DCONWS	DLN	HLN	TQX	THSZMS
AC-12-01-16	415E OZ 16	ISO 10897	2 – 16	43	24	85	M33×1,5
AC-12-01-25	462E OZ 25	ISO 10897	2 – 25	60	30	140	M48×2
AC-12-01-32	467E OZ 32	ISO 10897	3 – 32	72	34	170	M60×2,5



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Tool parameters according to ISO 13399

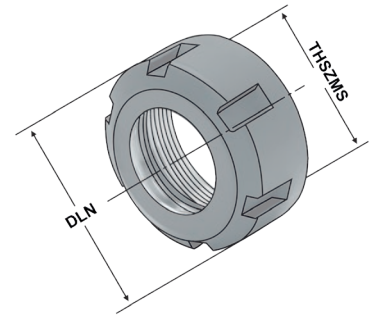
This catalogue has been prepared in accordance with ISO 13399 „Cutting tool data representation and exchange“ to enable easy handling of tool and product data, even for customers who are not yet familiar with KEMMLER products.

ISO 13399	English
BD	Body diameter
DCONWS	Clamping Ø, nominal, workpc. side
DLN	Diameter lock nut
HLN	Lock nut height
LB	Body length
LF	Functional length
LPR	Protruding length
OAL	Overall length
THID	Thread designation inside
THSZMS	Connection thread nominal size
TQX	Torque maximum

Clamping nuts ISO 15488 (DIN 6499) ER-system, standard type with eccentric ring, balanced



Application:
All collets with outside form ISO 15488
(DIN 6499) can be clamped.



ISO
15488

i
Ch. 11

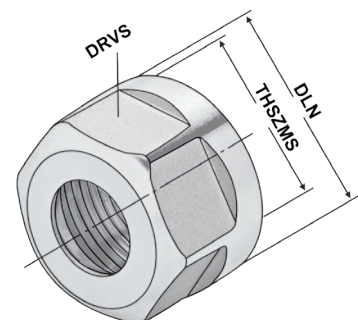
Order no.	Version	NORM	DCONWS	DLN	HLN	TQX	THSZMS
AC-10-02-10	426E ER 16	ISO 15488	1 – 10	32	17,5	50	M22×1,5
AC-10-02-13	428E ER 20	ISO 15488	2 – 13	35	19,0	75	M25×1,5
AC-10-02-16	430E ER 25	ISO 15488	2 – 16	42	20,0	85	M32×1,5
AC-10-02-20	470E ER 32	ISO 15488	2 – 20	50	22,5	105	M40×1,5
AC-10-02-26	472E ER 40	ISO 15488	3 – 26	63	25,5	150	M50×1,5



Clamping nuts ISO 15488 (DIN 6499) ER-system, Hexagonal clamping nut



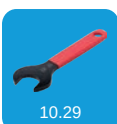
Application:
All collets with outside form ISO 15488
(DIN 6499) can be clamped.



ISO
15488

10

Order no.	Version	NORM	DCONWS	DRVS	DLN	HLN	TQX	THSZMS
AC-10-02-07-6	4008E ER 11	ISO 15488	1 – 7	17	19	11,3	30	M14×0,75
AC-10-02-10-6	426E ER 16	ISO 15488	1 – 10	25	28	18,5	40	M22×1,5
AC-10-02-13-6	428E ER 20	ISO 15488	2 – 13	30	34	20,0	60	M25×1,5
AC-10-02-16-6	430E ER 25	ISO 15488	2 – 16	38	42	23,0	60	M32×1,5

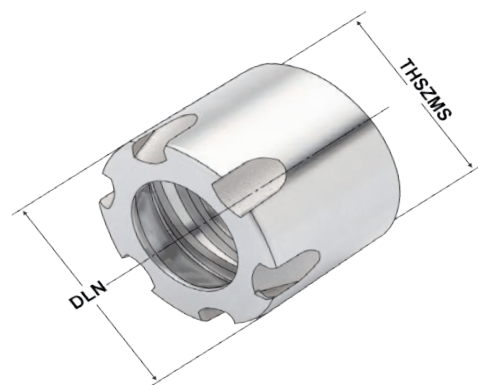


Clamping nuts ISO 15488 (DIN 6499) ER-system

- Mini, standard type with eccentric ring, balanced



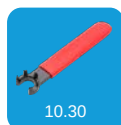
Application:
All collets with outside form ISO 15488
(DIN 6499) can be clamped.



ISO
15488

i
Ch. 11

Order no.	Version	NORM	DCONWS	DLN	HLN	TQX	THSZMS
AC-10-02-05-3	4004E ER 8	ISO 15488	1 – 5	12	10,8	4	M10×0,75
AC-10-02-07-3	4008E ER 11	ISO 15488	1 – 7	16	11,3	20	M13×0,75
AC-10-02-10-3	426E ER 16	ISO 15488	1 – 10	22	18,0	30	M19×1
AC-10-02-13-3	428E ER 20	ISO 15488	2 – 13	28	19,0	40	M24 x 1
AC-10-02-16-3	430E ER 25	ISO 15488	2 – 16	35	20,0	60	M30 x 1

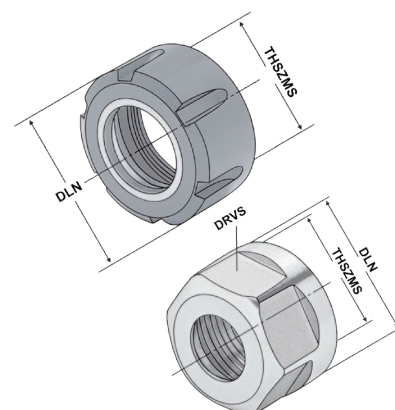


10.30

Clamping nuts ISO 15488 (DIN 6499) ER-system, sleeve-bearing version



Application:
All collets with outside form ISO 15488
(DIN 6499) can be clamped.



10

ISO
15488

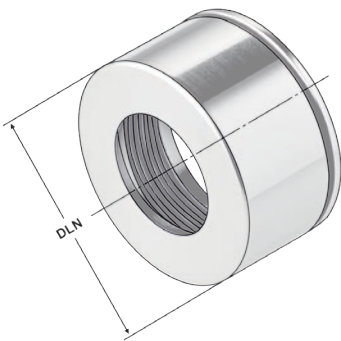
Order no.	Version	NORM	DCONWS	DRVS	DLN	HLN	TQX	THSZMS
AC-12-02-10*	426E ER 16	ISO 15488	1 – 10	25	28	20,3	40	M22×1,5
AC-12-02-13	428E ER 20	ISO 15488	2 – 13		35	21,8	75	M25×1,5
AC-12-02-16	430E ER 25	ISO 15488	2 – 16		42	22,4	85	M32×1,5
AC-12-02-20	470E ER 32	ISO 15488	2 – 20		50	25,0	105	M40×1,5
AC-12-02-26	472E ER 40	ISO 15488	3 – 26		63	28,3	150	M50×1,5

* Hexagonal clamping nut

Clamping nuts ER32 | 2-20 | balanced ISO 15488 for precision collet chuck ER



Application:
All collets with outside form ISO 15488
(DIN 6499) can be clamped.



ISO
15488

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Ch. 11

Order no.	Version	NORM	DCONWS	DLN	HLN	TQX	THSZMS
AC-P2-20	470 E ER 32	~ ISO 15488	2 - 20	28	27	170	M40×1,5

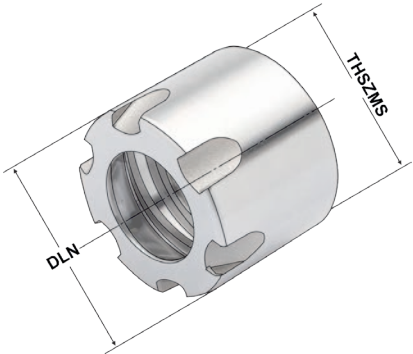


Clamping nuts ISO 15488 (DIN 6499) ER-system Mini, for sealing discs

Mini nut

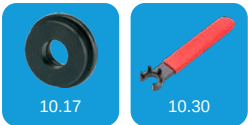


Application:
For sealing tools with internal cooling in collet chucks, ER-system.



Order no.	Version	NORM	DCONWS	DLN	HLN	TQX	THSZMS
AC-13-02-10M	426E ER 16	ISO 15488	1 – 10	22	24,4	30	M19×1

Note: *Sealing discs be ordered separately.*

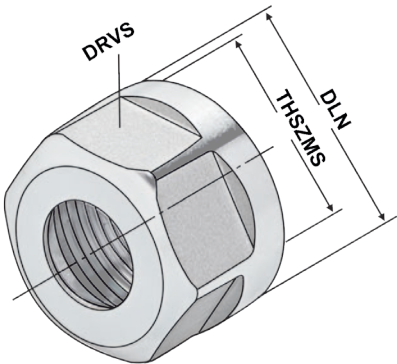


Clamping nuts ISO 15488 (DIN 6499) ER-system

- Hexagonal clamping nut, for sealing discs



Application:
For sealing tools with internal cooling in collet
chucks, ER-system.



ISO
15488

Order no.	Version	NORM	DCONWS	DRVS	DLN	HLN	TQX	THSZMS
AC-13-02-10	426E ER 16	ISO 15488	1 – 10	25	28	25	40	M22×1,5

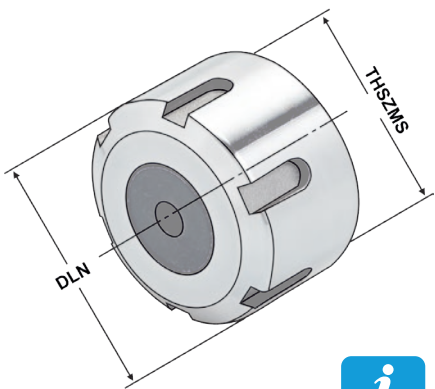
Note: *Sealing discs be ordered separately.*



Clamping nuts ISO 15488 (DIN 6499) ER-system, for sealing discs



Application:
For sealing tools with internal cooling in collet chucks, ER-system.



ISO

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Order no.	Version	NORM	DCONWS	DLN	HLN	TQX	THSZMS
AC-13-02-13	428E ER 20	ISO 15488	2 – 13	35	26,5	75	M25×1,5
AC-13-02-16	430E ER 25	ISO 15488	2 – 16	42	27,5	85	M32×1,5
AC-13-02-20	470E ER 32	ISO 15488	2 – 20	50	30,5	105	M40×1,5
AC-13-02-26	472E ER 40	ISO 15488	3 – 26	63	34,0	150	M50×1,5

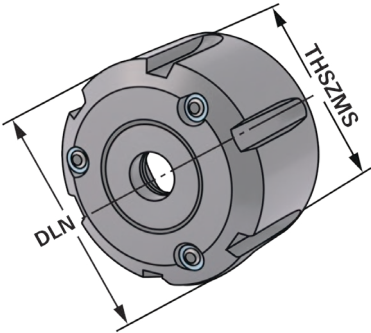
Note: Sealing discs be ordered separately.



Clamping nuts ISO 15488 (DIN 6499) ER-system, with spray nozzles,
for sealing discs



Application:
For sealing tools with internal cooling in collet
chucks, ER-system with spray nozzles.



ISO
15488

Order no.	Version	NORM	DCONWS	DLN	HLN	TQX	THSZMS
AC-14-02-10	426E ER 16	ISO 15488	1 – 10	28	25	40	M22×1,5
AC-14-02-16	430E ER 25	ISO 15488	2 – 16	42	27,5	85	M32×1,5
AC-14-02-20	470E ER 32	ISO 15488	2 – 20	50	30,5	105	M40×1,5
AC-14-02-26	472E ER 40	ISO 15488	3 – 26	63	34,0	150	M50×1,5

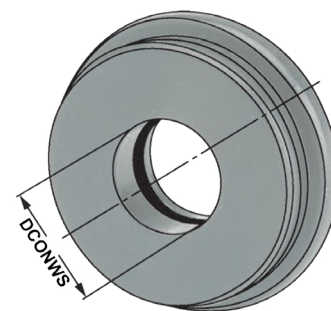
Note: Sealing discs be ordered separately.



Sealing discs for clamping nuts ER-system



Application:
For sealing tools with internal cooling.



ISO
15488

i
Ch. 11

Order no.	Typ	DCONWS
02-10M.xxx	426E ER 16 Mini	1,0 – 6,0 6,5 – 10,0
02-10.xxx	426E ER 16	1,0 – 6,0 6,5 – 10,0
02-13.xxx	428E ER 20	1,0 – 6,0 6,5 – 13,0
02-16.xxx	430E ER 25	1,0 – 6,0 6,5 – 16,0
02-20.xxx	470E ER 32	1,0 – 6,0 6,5 – 20,0
02-26.xxx	472E ER 40	1,0 – 6,0 (ER 40) 6,5 – 26,0 (ER 40)

DCONWS = Ø of the tool
Clamping range 0.5 mm (+0.1/-0.4)

Note: Sealing capacity up to 80 bar

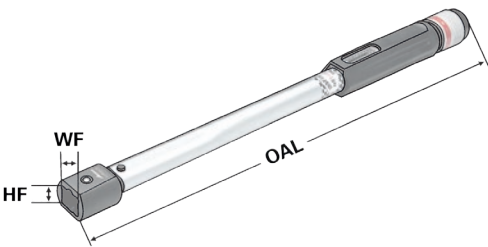
10



Universal Torque Wrenches



Application:
For the transfer of a defined torque.

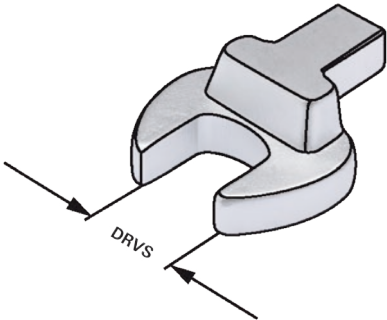


Order no.	Torque	OAL	WF	HF
K8-010	20 – 100 Nm	430	18	14
K8-030	60 – 300 Nm	580	18	14

Open jaw plug-in head for clamping nuts ER-system, with hexagon



Application:
For the transfer of a defined torque.



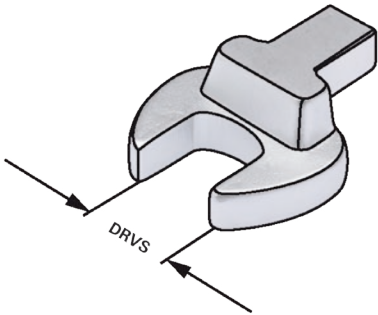
ISO
15488

Order no.	Version	DRVS	WF	HF
K8-02-10	426E ER 16	25	18	14
K8-02-10-2	426E ER 16	27	18	14
K8-02-13-1	428E ER 20	30	18	14

Open jaw plug-in head for Pull studs



Application:
For the transfer of a defined torque.



Order no.	Version	DRVS	WF	HF
K8-20-13	BT 30	13	18	14
K8-20-14	SK 30	14	18	14
K8-20-19	SK / BT 40	19	18	14
K8-20-30	SK / BT 50	30	18	14

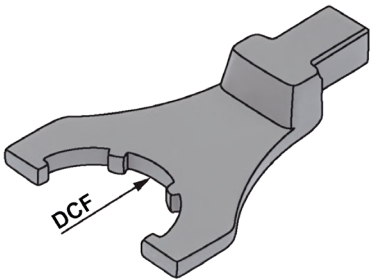


10.19

Plug-in head for clamping nuts ER-system



Application:
For the transfer of a defined torque.



ISO
15488

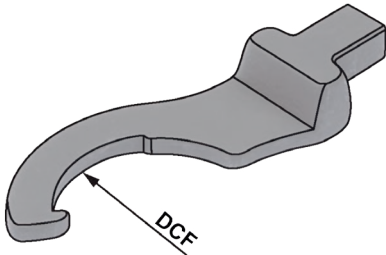
Order no.	Version	DCF	WF	HF
K8-02-10-1	426E ER 16	32	18	14
K8-02-13	428E ER 20	35	18	14
K8-02-16	430E ER 25	42	18	14
K8-02-20	470E ER 32	50	18	14
K8-02-26	472E ER 40	63	18	14



Plug-in head for clamping nuts OZ-system



Application:
For the transfer of a defined torque.



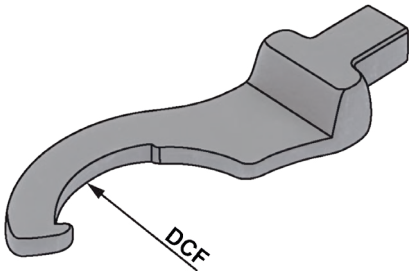
ISO
10897

Order no.	Version	DCF	WF	HF
K8-01-16	415E OZ 16	40	18	14
K8-01-25	462E OZ 25	58	18	14
K8-01-32	467E OZ 32	68	18	14

Plug-in head for system HKS



Application:
For the transfer of a defined torque.



10

HKS

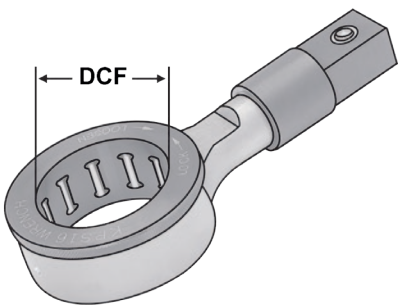
Order no.	Version	DCF	WF	HF
K8-64-20	HKS 20	50	18	14
K8-64-32	HKS 25 + HKS 32	60	18	14



Roller Bearing plug-in head for KPS-system



Application:
For the transfer of a defined torque.



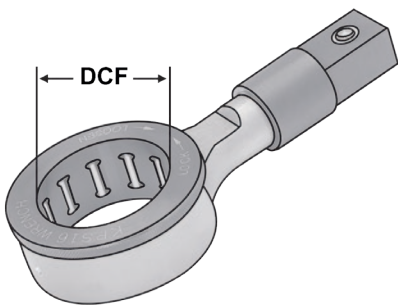
KPS

Order no.	Version	DCF	WF	HF
K8-03-10	490EK KPS 10	28	18	14
K8-03-16	496EK KPS 16	40	18	14

Roller Bearing plug-in head for precision collet chucks ER-system



Application:
For the transfer of a defined torque.



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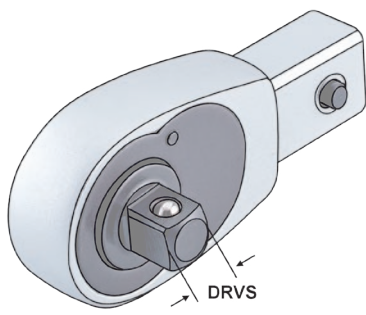
Orderno.	Version	DCF	WF	HF
K8-P2-20	470E ER 32	50	18	14



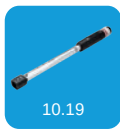
Ratchet head 3/8" for universal torque spanner



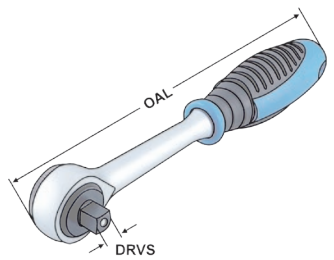
Application:
For the transfer of a defined torque.



Order no.	DRVS	WF	HF
K8-A-38	3/8"	18	14



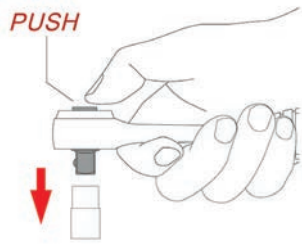
Reversible ratchet, 3/8 inch with ejector



Order no.	DRVS	OAL
K8-KS-38	3/8"	210

10

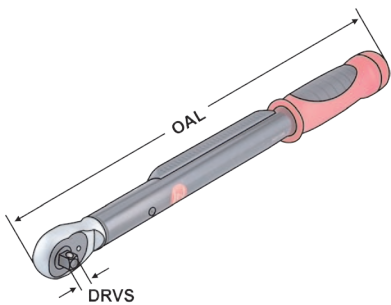
Quick release button design.
Push the button to release socket.



Universal Torque Wrenches



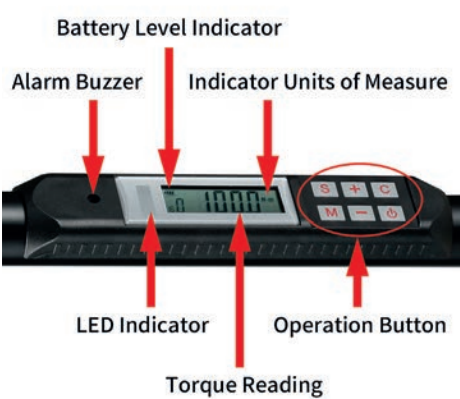
Application:
For the transfer of a defined torque.



Order no.	Torque	DRVS	OAL
K8-2-38-100	3 – 350 Nm	3/8"	440

Application:
 Memory : 100 measured values
 Unit selection : Nm, ft.lb, in.lb, kg-m
 Operating temperature : -10C~55C
 Storage temperature : -40°C~85°C
 USB data output
 Humidity: 0~90%
 Battery : 1.5V AA batteries * 3 (do not use batteries with low self-discharge)
 Mode : Peak, Track

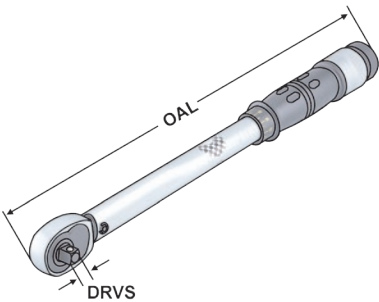
10



Torque wrench mechanical



Application:
For the transfer of a defined torque.



Order no.	Torque	DRVS	OAL
K8-1-38-110	20 - 110 Nm	3/8"	380

Torque wrench set mechanical



Application:
For the transfer of a defined torque.

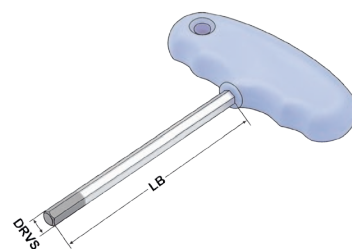
Order no.	Torque	DRVS	OAL
K8-1-SET-1	20 - 110 Nm	3/8"	380

Scope of delivery:
1 pcs - 3/8" torque spanner 20-110 Nm
6 pcs - 3/8" to hexagon: 10, 12, 13, 17, 19, 21 mm
4 pcs - 3/8" to hexagon socket bit: 4 , 5 , 6 , 8 mm

Hexagonal wrench



Application:
For CNC drill chucks and hydraulic chucks.

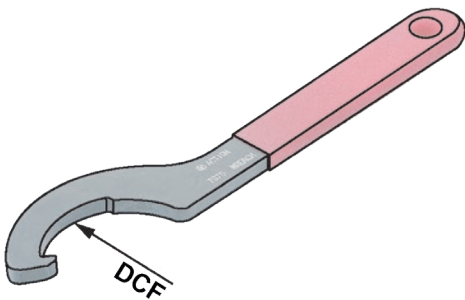


Order no.	Size	DRVS	LB
HW-4-100	4-100	4	100
HW-5-100	5-100	5	100
HW-6-100	6-100	6	100

Wrenches DIN 1810 A for clamping nuts OZ-system



Application:
For clamping nuts OZ-system.

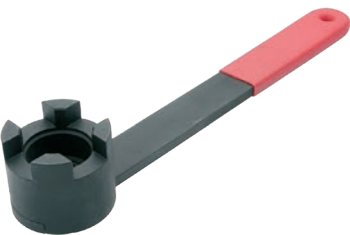


ISO
10897

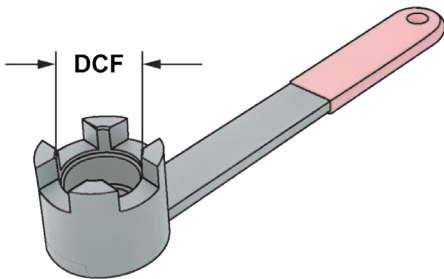
DIN
1810 A

Order no.	Version	DCF
K-01-16	415E OZ 16	40
K-01-25	462E OZ 25	58
K-01-32	467E OZ 32	68

Wrenches DIN 6368 for shell arbors



Application:
For retaining screw DIN 6367.



DIN
6368

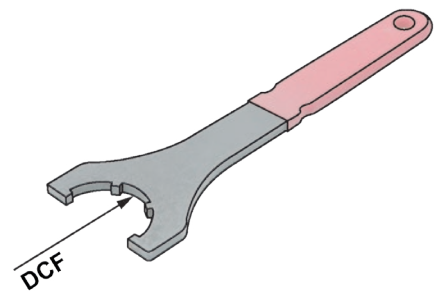
DIN
6367

Order no.	DCF
K-10-16	16 M8
K-10-22	22 M10
K-10-27	27 M12
K-10-32	32 M16
K-10-40	40 M20
K-10-50	50 M24
K-10-60	60 M30

Wrenches for clamping nuts ER-system



Application:
For clamping nuts ER-system.



ISO
15488

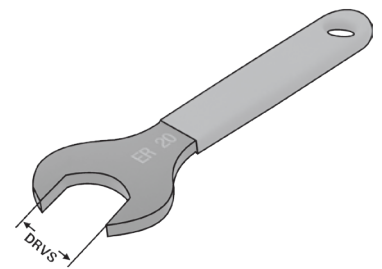
Order no.	Version	DCF
K-02-10-1	426E ER 16	32
K-02-13	428E ER 20	35
K-02-16	430E ER 25	42
K-02-20	470E ER 32	50
K-02-26	472E ER 40	63

Wrenches for clamping nuts ER-system

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Application:
For clamping nuts ER-system.



ISO
15488

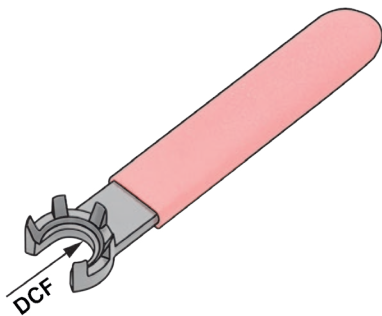
Order no.	Version	DRVS
K-02-07	4008E ER 11	17
K-02-10	426E ER 16	25
K-02-10-2	426E ER 16	27
K-02-13-1	428E ER 20	30
K-02-16-1	430E ER 25	38

For hexagonal clamping nut

Wrenches for clamping nuts ER-system - Mini



Application:
For mini clamping nuts ER-system.



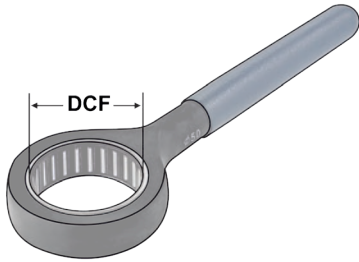
ISO
15488

Order no.	Version	DCF
K-02-05-3	4004E ER 8	12
K-02-07-3	4008E ER 11	16
K-02-10-2	426E ER 16	22
K-02-13-3	428E ER 20	28
K-02-16-3	430E ER 25	37

Wrenches for precision collet chucks



Application:
For clamping nuts ER-system.



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Order no.	Version	DCF
K-02-P2-20	470E ER 32	50

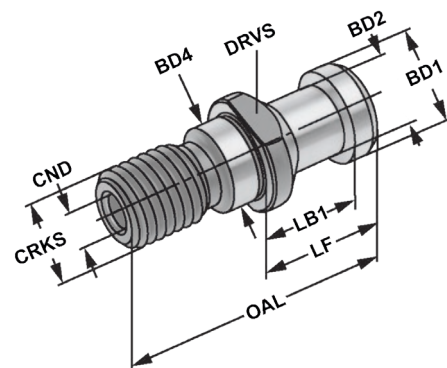
Pull studs ISO 7388-3 | shank form AD | Centric inner cooling supply

- formerly DIN 69872 A



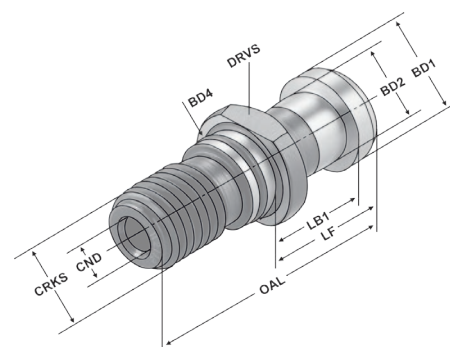
ISO
7388-3

Form
AD



Order no.	CRKS	OAL	LF	LB1	BD1	BD2	BD4	CND	BHTA	DRVS	Typ
RK-302-12	M12	44	24	19	13	9	13	3,0	15°	14	1
RK-402-16	M16	54	26	20	19	14	17	7,0	15°	19	1
RK-502-24	M24	74	34	25	28	21	25	11,5	15°	30	1

Form AD | with drill through | without O-ring | formerly DIN 69872 A



Order no.	CRKS	OAL	LF	LB1	BD1	BD2	BD4	CND	BHTA	DRVS	Typ
RK-402-16-0	M16	54	26	20	19	14	17	7,0	15°	19	1
RK-502-24-0	M24	74	34	25	28	21	25	11,5	15°	30	1

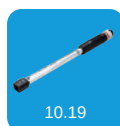
Form AD | with drill through | incl. O-ring | formerly DIN 69872 A

Application:
For tools with taper shanks ISO 7388-1 (formerly DIN 69871)

Typ 1
with chamfer



Typ 2
with radius

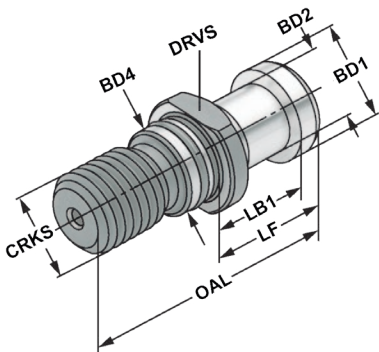


10.19



10.20

Pull studs ISO 7388-3 | shank form AF | Without cooling lubricant supply
- formerly DIN 69872 B



Order no.	CRKS	OAL	LF	LB1	BD1	BD2	BD4	CND	BHTA	DRVS	Typ
RK-403-16	M16	54	26	20	19	14	17	–	15°	19	1
RK-503-24	M24	74	34	25	28	21	25	–	15°	30	1

Form AF | sealed | incl. O-ring | formerly DIN 69872 B / DIN 69872 Form B

Application:
 For tools with taper shanks ISO 7388-1 (formerly DIN 69871)

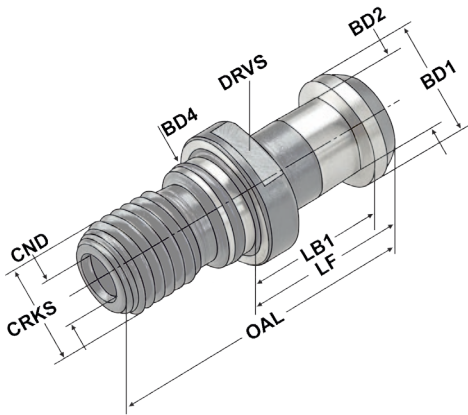
Typ 1
with chamfer



Typ 2
with radius



Pull studs ISO 7388-3 | shank form AD | Centric inner cooling supply
 lengthened by 3 mm



Order no.	CRKS	OAL	LF	LB1	BD1	BD2	BD4	CND	BHTA	DRVS	Typ	Version
RK-402-16-21	M16	54	29	23	19	14	17	7,0	15°	19	2	
RK-402-16-24	M16	54	29	23	19	14	17	4,0	15°	19	2	Okuma

Form AD | with drill through | incl. O-ring

Application:
 For tools with taper shanks ISO 7388-1 (formerly DIN 69871)
 Suitable for „OKUMA“ and „MAKINO“ machine tools

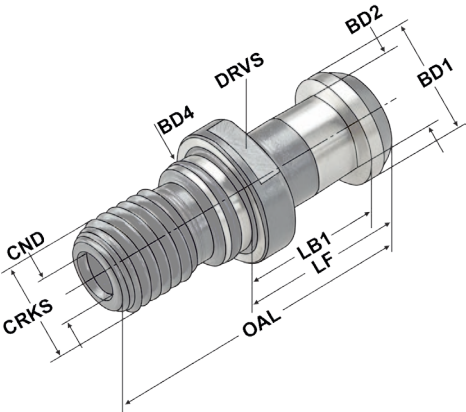
Typ 1
with chamfer



Typ 2
with radius



Pull studs Typ „Mori Seiki“ | shank form AD | Centric inner cooling supply
with O-Ring in the hole



Order no.	CRKS	OAL	LF	LB1	BD1	BD2	BD4	CND	BHTA	DRVS	Typ
RK-402-16-25	M16	54	29	23	19	14	17	7,0	15°	19	1
RK-402-16-26	M16	54	26	20	19	14	17	7,0	15°	19	1

Form AD | with drill through | incl. O-ring | plus O-ring in the bore

Application:
For tools with taper shanks ISO 7388-1 (formerly DIN 69871)
For tools with taper shanks ISO 7388-2 (formerly JIS B 6339 MAS-BT)
Suitable for „Mori Seiki“ machine tools

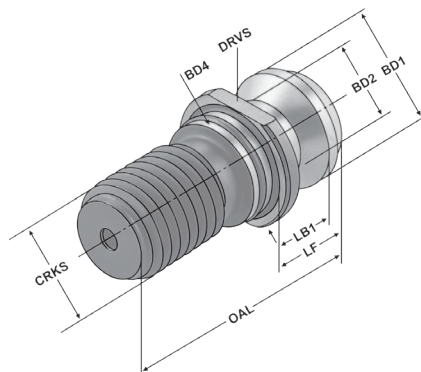
Typ 1
with chamfer



Typ 2
with radius



Pull studs ISO 7388-3 | shank form UF | without cooling lubricant supply |
formerly ISO 7388



Order no.	CRKS	OAL	LF	LB1	BD1	BD2	BD4	CND	BHTA	DRVS	Typ
RK-404-16-30	M16	44,5	16,40	11,15	18,95	12,95	17	—	45°	19	2
RK-504-24-30-0	M24	65,5	25,55	17,95	29,10	19,60	25	—	45°	30	2

Form UF | sealed | incl. O-ring

RK-504-24-30	M24	65,5	25,55	17,95	29,10	19,60	25	—	45°	30	2
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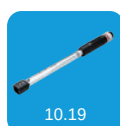
Form UF | sealed | without O-ring

Application:
For tools with taper shanks ISO 7388-1 (formerly DIN 69871)

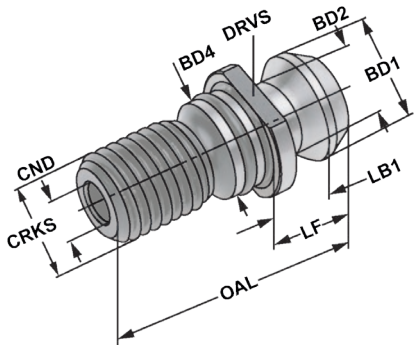
Typ 1
with chamfer



Typ 2
with radius



Pull studs ISO 7388-3 | shank form UD | Centric inner cooling supply
formerly ISO 7388 B



Order no.	CRKS	OAL	LF	LB1	BD1	BD2	BD4	CND	BHTA	DRVS	Typ
RK-404-16	M16	44,5	16,40	11,15	18,95	12,95	17	7,0	45°	19	2
RK-504-24	M24	65,5	25,55	17,95	29,10	19,60	25	11,5	45°	30	2

Form UD | with drill through | without O-ring

RK-404-16-0	M16	44,5	16,40	11,15	18,95	12,95	17	7,0	45°	19	2
RK-504-24-0	M24	65,5	25,55	17,95	29,10	19,60	25	11,5	45°	30	2

Form UD | with drill through | incl. O-ring

Application:
For tools with taper shanks ISO 7388-1 (formerly DIN 69871)

Typ 1
with chamfer

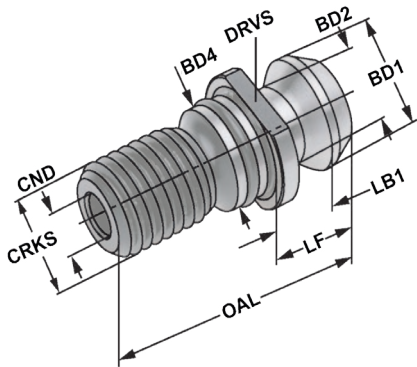


Typ 2
with radius



Pull studs similar to ISO 7388-3 | lengthened by 3 mm

Typ „MAZAK“ shank form UD | Centric inner cooling lubricant supply



Order no.	CRKS	OAL	LF	LB1	BD1	BD2	BD4	CND	BHTA	DRVS	Typ
RK-404-16-20	M16	47,50	19,25	14,15	18,95	12,95	17,00	7,3	45°	19	2

Form UD | with drill through | incl. O-ring

Application:
For tools with taper shanks ISO 7388-2 (formerly JIS B 6339 MAS-BT)
Suitable for „MAZAK“ and „FADAL“ machine tools

Typ 1
with chamfer



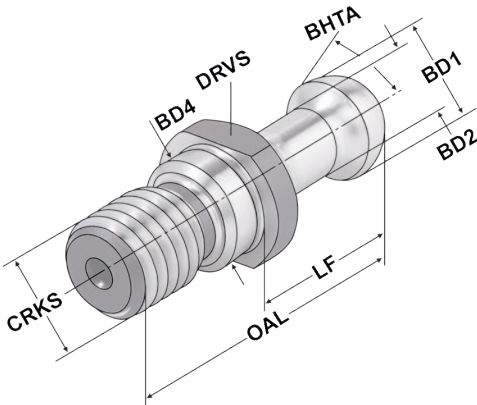
Typ 2
with radius



Special pull studs available within a short period upon request.



Pull studs Biesse and Leuco | without cooling lubricant supply



Order no.	CRKS	OAL	LF	BD1	BD2	BD4	BHTA	DRVS	Typ
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RK-302-12-25	M12	44	24	12	8	13	R3,2	19	1
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sealed | without O-ring

Application:
 For tools with taper shanks ISO 7388-1 (formerly DIN 69871)
 For tools with taper shanks ISO 7388-2 (formerly JIS B 6339 MAS-BT)
 Suitable for „Biesse“ and „Leuco“ machine tools

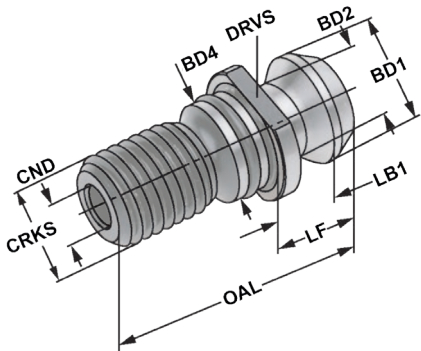
Typ 1
with chamfer



Typ 2
with radius



Pull studs CAT metric | typ „MAZAK“



Order no.	CRKS	OAL	LF	LB1	BD1	BD2	BD4	CND	BHTA	DRV5	Typ
RK-404-16-21	M16	41,26	16,26	11,18	18,80	12,45	17,00	7,0	45°	19	2

Form UD | with drill through | incl. O-ring

RK-504-24-21	M24	65,40	25,40	17,80	28,95	20,80	25,00	11,5	45°	30	2
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Form UD | with drill through | incl. O-ring

Application:
For tools with taper shanks ISO 7388-1 (formerly DIN 69871)
Suitable for „MAZAK“ machine tools

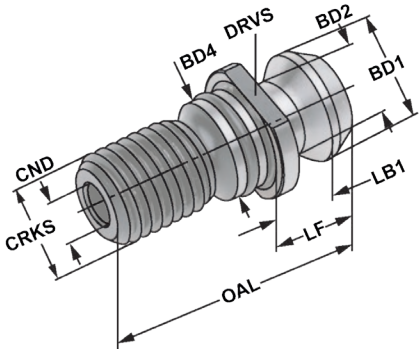
Typ 1
with chamfer



Typ 2
with radius



Pull studs CAT metric for high-pressure cooling



Order no.	CRKS	OAL	LF	LB1	BD1	BD2	BD4	CND	BHTA	DRVS	Typ
RK-404-16-22	M16	41,26	16,26	11,18	18,80	12,45	17,00	7,0	45°	19	2
RK-504-24-22	M24	65,40	25,40	17,80	28,95	20,80	25,00	11,5	45°	30	2

Form UD | with drill through | incl. O-rings in the bore and the collar

Application:
For tools with taper shanks ISO 7388-1 (formerly DIN 69871)

Typ 1
with chamfer

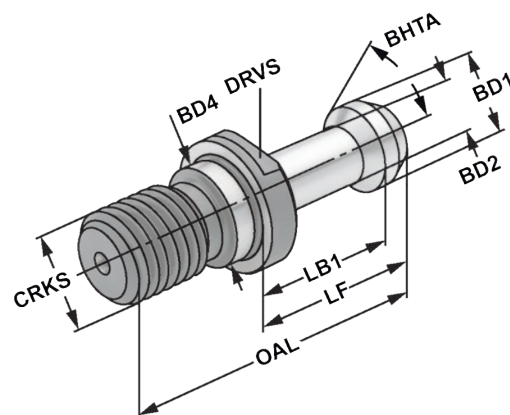


Typ 2
with radius



Pull studs ISO 7388-3 | shank form JF

without cooling lubricant supply | formerly JIS B 6339 (MAS 403 BT)



Order no.	CRKS	BHTA	OAL	LF	LB1	BD1	BD2	BD4	CND	DRVS	Typ
RK-305-45	M12	45°	43	23	18	11	7	12,5	-	13	2
RK-305-60	M12	60°	43	23	18	11	7	12,5	-	13	2
RK-405-45	M16	45°	60	35	28	15	10	17,0	-	19	2
RK-405-60	M16	60°	60	35	28	15	10	17,0	-	19	2
RK-405-90	M16	90°	60	35	28	15	10	17,0	-	19	2
RK-505-45	M24	45°	85	45	35	23	17	25,0	-	30	2
RK-505-60	M24	60°	85	45	35	23	17	25,0	-	30	2
RK-505-90	M24	90°	85	45	35	23	17	25,0	-	30	2

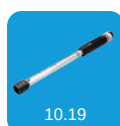
Form JF | sealed | without O-ring

Application:
For tools with taper shanks ISO 7388-2 (formerly JIS B 6339 MAS-BT)

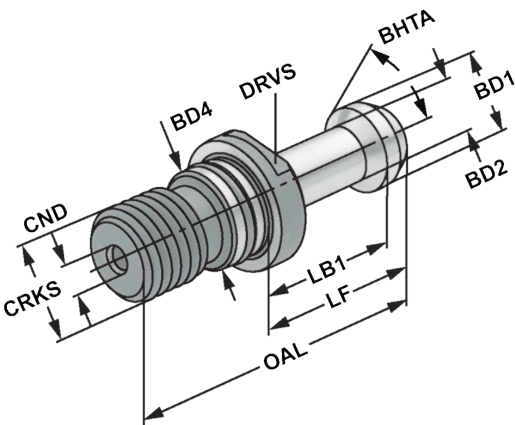
Typ 1
with chamfer



Typ 2
with radius



Pull studs ISO 7388-3 | shank form JD
for centric inner cooling lubricant supply | formerly JIS B 6339



Order no.	CRKS	BHTA	OAL	LF	LB1	BD1	BD2	BD4	CND	DRVS	Typ
RK-306-45	M12	45°	43	23	18	11	7	12,5	2,5	13	2
RK-306-60	M12	60°	43	23	18	11	7	12,5	2,5	13	2
RK-406-45	M16	45°	60	35	28	15	10	17,0	4,0	19	2
RK-406-60	M16	60°	60	35	28	15	10	17,0	4,0	19	2
RK-406-90	M16	90°	60	35	28	15	10	17,0	4,0	19	2
RK-506-45	M24	45°	85	45	35	23	17	25,0	6,0	30	2
RK-506-60	M24	60°	85	45	35	23	17	25,0	6,0	30	2
RK-506-90	M24	90°	85	45	35	23	17	25,0	6,0	30	2

Form JD | with drill through | incl. O-ring

Application:
For tools with taper shanks ISO 7388-2 (formerly JIS B 6339 MAS-BT)

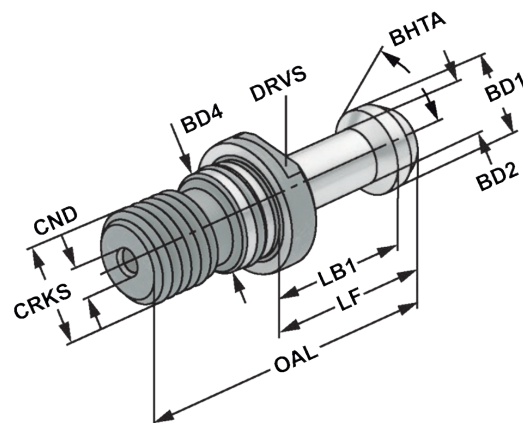
Typ 1
with chamfer



Typ 2
with radius



Pull studs Haas similar to ISO 7388-3 | Typ „Haas“ | shortened by 3 mm



Order no.	CRKS	BHTA	OAL	LF	LB1	BD1	BD2	BD4	CND	DRVS	Typ
RK-405-45-21	M16	45°	57	32	25	15	10	17	4,0	19	2
RK-405-60-21	M16	60°	57	32	25	15	10	17	4,0	19	2
RK-405-90-21	M16	90°	57	32	25	15	10	17	4,0	19	2

Form JD | with drill through | incl. O-ring



Order no.	CRKS	BHTA	OAL	LF	LB1	BD1	BD2	BD4	CND	DRVS	Typ
RK-406-45-21	M16	45°	57	32	25	15	10	17	-	19	2
RK-406-60-21	M16	60°	57	32	25	15	10	17	-	19	2
RK-406-90-21	M16	90°	57	32	25	15	10	17	-	19	2

Form JF | sealed | incl. O-ring

10

Application:
For tools with taper shanks ISO 7388-1 (formerly DIN 69871)
Suitable for „HAAS“, „MICRON“ and „HURCO“ machine tools

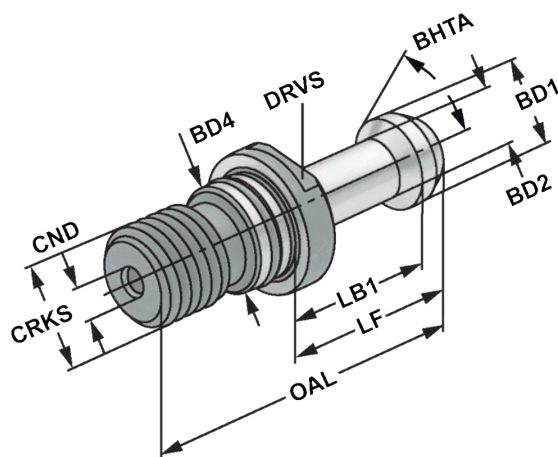
Typ 1
with chamfer



Typ 2
with radius



Pull studs BT/SK30 for Fanuc Robodrill + Brother + dual contact



Order no.	CRKS	BHTA	OAL	LF	LB1	BD1	BD2	BD4	CND	DRVS	Typ	Version
RK-305-12-25	M12	45°	43,6	23,6	18,6	11	8	13	4,0	13	2	Fanuc
RK-305-12-26*	M12	60°	43	23	18	11	7,5	12,5	2,5	13	2	Brother
RK-305-12-27	M12	45°	43	23	18	11	8	12,5	4,0	13	2	Dual contact

Form JD | with drill through | incl. O-ring

*Form JD | with drill through | without O-ring

Application:

For tools with taper shanks ISO 7388-1 (formerly DIN 69871)

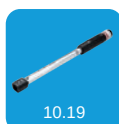
For tools with taper shanks ISO 7388-2 (formerly JIS B 6339 MAS-BT)

Suitable for „Fanuc Robodrill“, „Brother“ and „DUAL Contact spindle“ machine tools

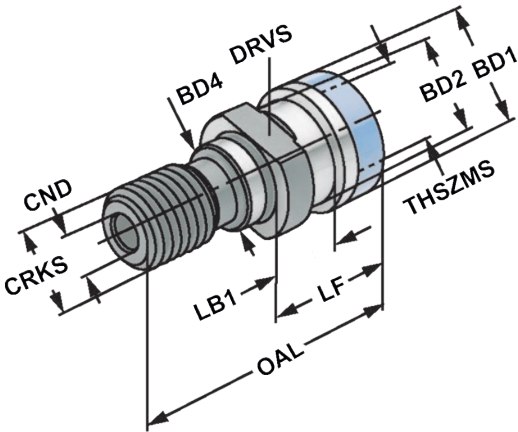
Typ 1
with chamfer



Typ 2
with radius



Pull studs DIN 2080 with Ott-groove



Order no.	CRKS	OAL	LF	LB1	BD1	BD2	BD4	CND	THSZMS	BHTA	DRVS	Typ
RK-401-16	M16	53,0	25,1	13,6	25,00	21,1	17	7,0	M16	15°	19	-
RK-501-24	M24	65,1	25,1	13,3	39,60	32,0	25	7,0	M24	15°	30	-

With internal thread and drill through | For tools according to ISO 7388-1 for conversion to DIN 2080

Note: With protection ring

Typ 1
with chamfer

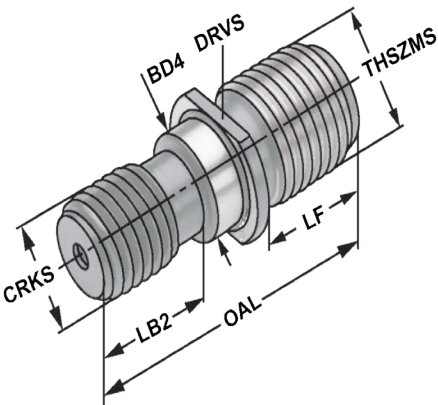


Typ 2
with radius



Pull studs for tool holders according to ISO 7388-1

DECKEL Asymmetrical thread S 20 x 2



Order no.	CRKS	OAL	LF	LB2	THSZMS	BD4	DRVS	Typ
RK-401-16-S	M16	54	23	22	S 20×2	17,0	19	-

Typ 1
with chamfer



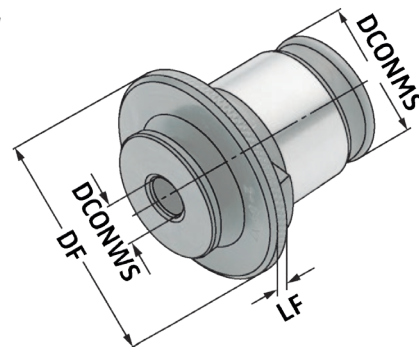
Typ 2
with radius



Quick change adaptors without safety clutch, size 1



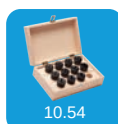
Application:
For mounting taps. For right-hand and left-hand threads. Standard type without safety clutch.



Order no.	SZID	DCONMS	DCONWS	DRVS	DIN371	DIN 374 / 376	DF	LF
QC-01-2821	1	19	2,8	2,1	M2-M2,6	-	30	4
QC-01-3527	1	19	3,5	2,7	M3	-	30	4
QC-01-43	1	19	4,0	3,0	M3,5	-	30	4
QC-01-4534	1	19	4,5	3,4	M4	-	30	4
QC-01-649	1	19	6,0	4,9	M4,5-M6	M8	30	4
QC-01-755	1	19	7,0	5,5	M7	M10	30	4
QC-01-862	1	19	8,0	6,2	M8	M11	30	4
QC-01-97	1	19	9,0	7,0	M9	M12	30	4
QC-01-108	1	19	10,0	8,0	M10	-	30	4
QC-01-119	1	19	11,0	9,0	-	M14	30	4



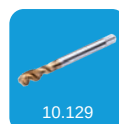
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10.54



10.55

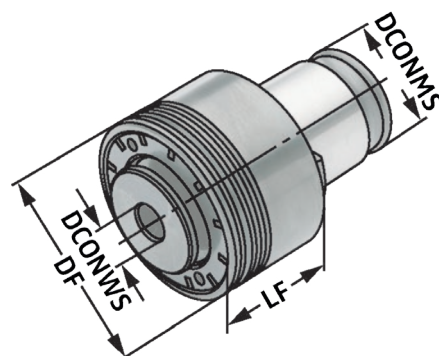


10.129

Quick change adaptors with safety clutch, size 1



Application:
For mounting taps. For right-hand and left-hand threads. Type with adjustable safety clutch, which prevents the breaking of taps.

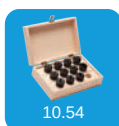


Order no.	SZID	DCONMS	DCONWS	DRVS	DIN371	DIN 374 / 376	DF	LF
QC-11-228	1	19	2,8	2,1	M2	-	32	25
QC-11-2528	1	19	2,8	2,1	M2,5	-	32	25
QC-11-335	1	19	3,5	2,7	M3	-	32	25
QC-11-354	1	19	4,0	3,0	M3,5	-	32	25
QC-11-445	1	19	4,5	3,4	M4	-	32	25
QC-11-5649	1	19	6,0	4,9	M5	-	32	25
QC-11-6649	1	19	6,0	4,9	M6	-	32	25
QC-11-107	1	19	7,0	5,5	M7	-	32	25
QC-11-88	1	19	8,0	6,2	M8	-	32	25
QC-11-129	1	19	9,0	7,0	-	M12	32	25
QC-11-1010	1	19	10,0	8,0	M10	-	32	25
QC-11-14119	1	19	11,0	9,0	-	M14	32	25

Note: Quick change adaptors with safety clutch are supplied with a predefined torque, corresponding to the sizes of the threads.



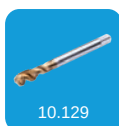
10.53



10.54



10.55

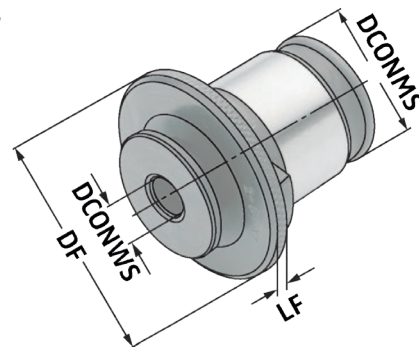


10.129

Quick change adaptors without safety clutch, size 2



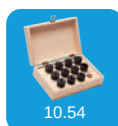
Application:
For mounting taps. For right-hand and left-hand threads. Standard type without safety clutch.



Order no.	SZID	DCONMS	DCONWS	DRVS	DIN371	DIN 374 / 376	DF	LF
QC-02-649	2	31	6	4,9	M4,5-M6	-	48	5
QC-02-755	2	31	7	5,5	M7	-	48	5
QC-02-862	2	31	8	6,2	M8	-	48	5
QC-02-97	2	31	9	7,0	M9	-	48	5
QC-02-108	2	31	10	8,0	M10	-	48	5
QC-02-119	2	31	11	9,0	-	M14	48	5
QC-02-129	2	31	12	9,0	-	M16	48	5
QC-02-1411	2	31	14	11,0	-	M18	48	5
QC-02-1612	2	31	16	12,0	-	M20	48	5
QC-02-18145	2	31	18	14,5	-	M22-M24	48	5



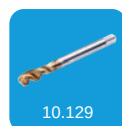
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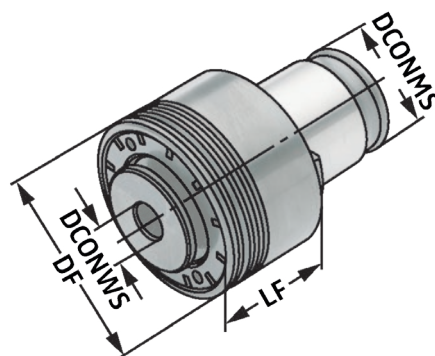


10.129

Quick change adaptors with safety clutch, size 2



Application:
For mounting taps. For right-hand and left-hand threads. Type with adjustable safety clutch, which prevents the breaking of taps.

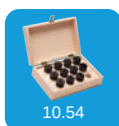


Order no.	SZID	DCONMS	DCONWS	DRVS	DIN371	DIN 374 / 376	DF	LF
QC-12-5649	2	31	6	4,9	M5	-	50	31
QC-12-6649	2	31	6	4,9	M6	-	50	31
QC-12-88	2	31	8	6,2	M8	-	50	31
QC-12-107	2	31	7	5,5	-	M10	50	31
QC-12-129	2	31	9	7,0	-	M12	50	31
QC-12-1010	2	31	10	8,0	M10	-	50	31
QC-12-1411	2	31	11	9,0	-	M14	50	31
QC-12-1612	2	31	12	9,0	-	M16	50	31
QC-12-181411	2	31	14	11,0	-	M18	50	31
QC-12-2016	2	31	16	12,0	-	M20	50	31
QC-12-2218145	2	31	18	14,5	-	M22	50	31

Note: Quick change adaptors with safety clutch are supplied with a predefined torque, corresponding to the sizes of the threads.



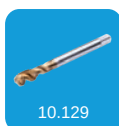
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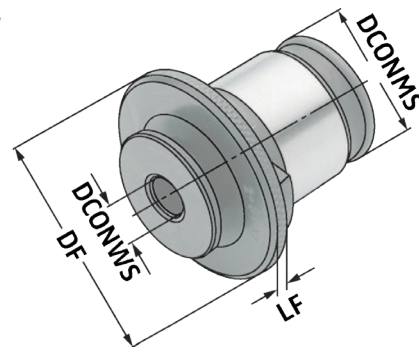


10.129

Quick change adaptors without safety clutch, size 3



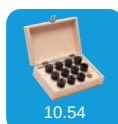
Application:
For mounting taps. For right-hand and left-hand threads. Standard type without safety clutch.



Order no.	SZID	DCONMS	DCONWS	DRVS	DIN371	DIN 374 / 376	DF	LF
QC-03-119	3	48	11	9,0	-	M14	70	6
QC-03-129	3	48	12	9,0	-	M16	70	6
QC-03-1411	3	48	14	11,0	-	M18	70	6
QC-03-1612	3	48	16	12,0	-	M20	70	6
QC-03-18145	3	48	18	14,5	-	M22-M24	70	6
QC-03-2016	3	48	20	16,0	-	M27	70	6
QC-03-2218	3	48	22	18,0	-	M30	70	6
QC-03-2520	3	48	25	20,0	-	M33	70	6
QC-03-2822	3	48	28	22,0	-	M36	70	6



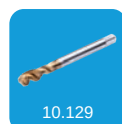
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10.55

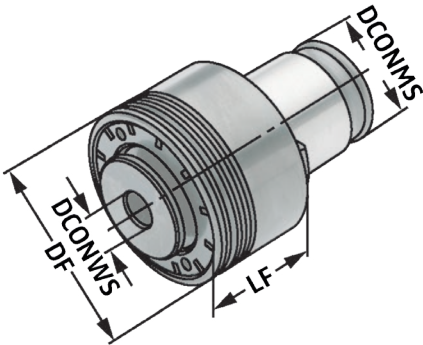


10.129

Quick change adaptors with safety clutch, size 3



Application:
For mounting taps. For right-hand and left-hand threads. Type with adjustable safety clutch, which prevents the breaking of taps.



Order no.	SZID	DCONMS	DCONWS	DRVS	DIN371	DIN 374 / 376	DF	LF
QC-13-14119	3	48	11	9,0	-	M14	72	41
QC-13-16129	3	48	12	9,0	-	M16	72	41
QC-13-181411	3	48	14	11,0	-	M18	72	41
QC-13-201612	3	48	16	12,0	-	M20	72	41
QC-13-2218145	3	48	18	14,5	-	M22	72	41
QC-13-2418145	3	48	18	14,5	-	M24	72	41
QC-13-272016	3	48	20	16,0	-	M27	72	41
QC-13-302218	3	48	22	18,0	-	M30	72	41
QC-13-332520	3	48	25	20,0	-	M33	72	41
QC-13-362822	3	48	28	22,0	-	M36	72	41

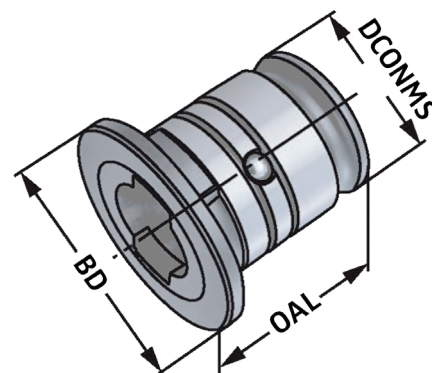
Note: Quick change adaptors with safety clutch are supplied with a predefined torque, corresponding to the sizes of the threads.



Reducing adaptors for quick change adaptors



Application:
Reducing adaptor for reducing size 3 to 2 and 2 to 1. In this way the clamping ranges can be extended to smaller sizes.

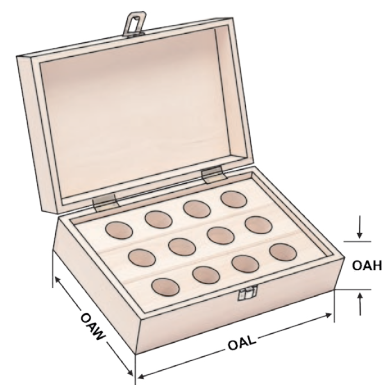


Order no.	Workholder	Adaptor	BD	DCONMS	OAL
QC-00-0201	2	1	48	31	40,4
QC-00-0302	3	2	59	48	62,6

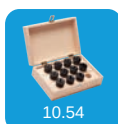
Wooden boxes, empty



Application:
For the storage of tapping quick change adaptors.



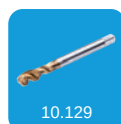
Order no.	Size	Bohrungen Holes Trous	OAL	OAW	OAH
701-G01	Gr. 1	12	360	235	70
701-G02	Gr. 2	12	360	235	70
701-G03	Gr. 3	10	360	235	70



10.54



10.55



10.129

Quick change adaptors for tapping chucks in wooden box



Application:
For mounting taps. For right-hand and left-hand threads. Type with adjustable safety clutch, which prevents the breaking of taps.

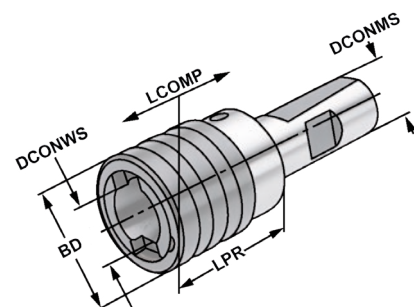


Order no.	Size	OAL	OAW	OAH
S-701-16-01-S	9 inserts - Gr. 1 Without clutch 3,5x2,7 - 4x3 - 4,5x3,4 - 6x4,9 - 7x5,5 - 8x6,2 - 9x7 - 10x8 - 11x9	360	235	70
S-701-16-02-S	10 inserts - Gr. 2 Without clutch 6x4,9 - 7x5,5 - 8x6,2 - 9x7 - 10x8 - 11x9 - 12x9 - 14x11 - 16x12 - 18x14,5	360	235	70
S-701-16-03-S	9 inserts - Gr. 3 Without clutch 11x9 - 12x9 - 14x11 - 16x12 - 18x14,5 - 20x16 - 22x18 - 25x20 - 28x22	360	235	70
S-701-16-11-S	10 inserts - Gr. 1 - M3/M14 With clutch M3 - M3,5 - M4 - M5 - M6 - M8 - M10 - M10 - M12 - M14	360	235	70
S-701-16-12-S	11 inserts - Gr. 2 - M5/M22 With clutch M5 - M6 - M8 - M10 - M10 - M12 - M14 - M16 - M18 - M20 - M22	360	235	70
S-701-16-13-S	10 inserts - Gr. 3 - M14/M36 With clutch M14 - M16 - M18 - M20 - M22 - M24 - M27 - M30 - M33 - M36	360	235	70

Quick change tapping chucks with length compensation on compression and expansion for tool shanks DIN 1835 B+E



Application:
For the chucking of Quick change taps for
threading taps.



Order no.	DCONMS	Capacity	SZID	LPR	BD	DCONWS	LCOMP
QC-16-2012	20	M3 – M14	1	43	36	19	7
QC-16-2020	20	M5 – M22	2	73	53	31	12
QC-16-2512	25	M3 – M14	1	43	36	19	7
QC-16-2520	25	M5 – M22	2	73	53	31	12
QC-16-3220	32	M5 – M22	2	73	53	31	12

Note: On machining centres without synchronised spindles.

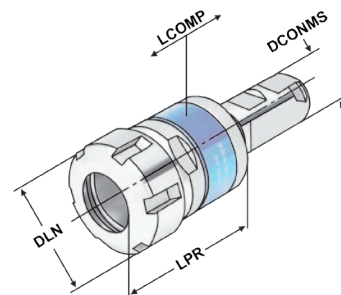
Version: With flat according to DIN 1835 form B (Weldon) and inclined flat according to DIN 1835 form E (Whistle Notch).



Tapping chucks for synchronisation with tool shanks DIN 1835 B+E for collets ISO 15488 (DIN 6499) ER-system



Application:
For machining centres with synchronous spindle.



Order no.	DCONMS	DCONWS Capacity	Typ	LPR	DLN	LCOMP	DRVS
TC-16-2016	20	M3 – M10	426E ER 16 Mini	58	22	0,5	-
TC-16-2025	20	M3 – M20	430E ER 25	63	42	0,5	28
TC-16-2516	25	M3 – M10	426E ER 16 Mini	58	22	0,5	-
TC-16-2525	25	M3 – M20	430E ER 25	63	42	0,5	28
TC-16-2532	25	M4 – M27	470E ER 32	69	50	0,5	42
TC-16-2540	25	M4 – M33	472E ER 40	109	63	0,5	55
TC-16-3232	32	M4 – M27	470E ER 32	69	50	0,5	42
TC-16-3240	32	M4 – M33	472E ER 40	109	63	0,5	55

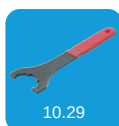
Note:

- Synchro tapping chucks compensate synchronisation errors
- Minimal length compensation on compression and expansion balances very small pitch differences between synchro spindle and tap, which can cause high frictional forces on the thread flanks.
- A possible increase of axial force during the tapping process is reduced to a minimum.

Delivery:

With balanced clamping nut

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Quick-change tapping chucks DIN 69871 A with length compensation in a wooden box incl. tapping collets with clutch

Order no.	Size	Size	Piece
SK40-02-16-12-SC	SK 40 - M3 / M14	Gr. 1	8
SK40-02-16-20-SC	SK 40 - M5 / M22	Gr. 2	10
SK50-02-16-12-SC	SK 50 - M3 / M14	Gr. 1	8
SK50-02-16-20-SC	SK 50 - M5 / M22	Gr. 2	10



Quick-change tapping chucks DIN 69871 A with length compensation in a wooden box incl. tapping collets without clutch

Order no.	Size	Size	Piece
SK40-02-16-12-S	SK 40 - M3 / M14	Gr. 1	7
SK40-02-16-20-S	SK 40 - M5 / M22	Gr. 2	9
SK50-02-16-12-S	SK 50 - M3 / M14	Gr. 1	7
SK50-02-16-20-S	SK 50 - M5 / M22	Gr. 2	9

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Tapping collets with clutch

Size	Size
Gr. 1 M3 - 3,5 DIN 371	Gr. 2 M5 - 6 × 4,9 DIN 371
Gr. 1 M4 - 4,5 DIN 371	Gr. 2 M6 - 6 × 4,9 DIN 371
Gr. 1 M5 - 6 × 4,9 DIN 371	Gr. 2 M8 - 8 × 6,2 DIN 371
Gr. 1 M6 - 6 × 4,9 DIN 371	Gr. 2 M10 - 10 × 8 DIN 371
Gr. 1 M8 - 8 × 6,2 DIN 371	Gr. 2 M12 - 9 × 7 DIN 376
Gr. 1 M10 - 10 × 8 DIN 371	Gr. 2 M14 - 11 × 9 DIN 376
Gr. 1 M12 - 9 × 7 DIN 376	Gr. 2 M16 - 12 × 9 DIN 376
Gr. 1 M14 - 11 × 9 DIN 376	Gr. 2 M18 - 14 × 11 DIN 376
	Gr. 2 M20 - 16 × 12 DIN 376
	Gr. 2 M22 - 18 × 14,5 DIN 376



Tapping collets with clutch

Size	Size
Gr. 1 3,5 × 2,7	Gr. 2 6 × 4,9
Gr. 1 4,5 × 3,4	Gr. 2 8 × 6,2
Gr. 1 6 × 4,9	Gr. 2 9 × 7
Gr. 1 8 × 6,2	Gr. 2 10 × 8
Gr. 1 9 × 7	Gr. 2 11 × 9
Gr. 1 10 × 8	Gr. 2 12 × 9
Gr. 1 11 × 9	Gr. 2 14 × 11
	Gr. 2 16 × 12
	Gr. 2 18 × 14,5



**Quick-change tapping chucks MAS/BT (JIS B 6339)
with length compensation in a wooden box incl. tap-
ping collets with clutch**

Order no.	Size	Size	Piece
BT40-05-16-12-SC	BT 40 - M3 / M14	Gr. 1	8
BT40-05-16-20-SC	BT 40 - M5 / M22	Gr. 2	10
BT50-05-16-12-SC	BT 50 - M3 / M14	Gr. 1	8
BT50-05-16-20-SC	BT 50 - M5 / M22	Gr. 2	10



**Quick-change tapping chucks MAS/BT (JIS B 6339)
with length compensation in a wooden box incl. tap-
ping collets without clutch**

Order no.	Size	Size	Piece
BT40-05-16-12-S	BT 40 - M3 / M14	Gr. 1	7
BT40-05-16-20-S	BT 40 - M5 / M22	Gr. 2	9
BT50-05-16-12-S	BT 50 - M3 / M14	Gr. 1	7
BT50-05-16-20-S	BT 50 - M5 / M22	Gr. 2	9

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Tapping collets with clutch

Abmessung Size	Abmessung Size
Gr. 1 M3 - 3,5 × 2,7	Gr. 2 M5 - 6 × 4,9 DIN 371
Gr. 1 M4 - 4,5 × 3,4	Gr. 2 M6 - 6 × 4,9 DIN 371
Gr. 1 M5 - 6 × 4,9 DIN 371	Gr. 2 M8 - 8 × 6,2 DIN 371
Gr. 1 M6 - 6 × 4,9 DIN 371	Gr. 2 M10 - 10 × 8 DIN 371
Gr. 1 M8 - 8 × 6,2 DIN 371	Gr. 2 M12 - 9 × 7 DIN 376
Gr. 1 M10 - 10 × 8 DIN 371	Gr. 2 M14 - 11 × 9 DIN 376
Gr. 1 M12 - 9 × 7 DIN 376	Gr. 2 M16 - 12 × 9 DIN 376
Gr. 1 M14 - 11 × 9 DIN 376	Gr. 2 M18 - 14 × 11 DIN 376
	Gr. 2 M20 - 16 × 12 DIN 376
	Gr. 2 M22 - 18 × 14,5 DIN 376



Tapping collets without clutch

Abmessung Size	Abmessung Size
Gr. 1 3,5 × 2,7	Gr. 2 6 × 4,9
Gr. 1 4,5 × 3,4	Gr. 2 8 × 6,2
Gr. 1 6 × 4,9	Gr. 2 9 × 7
Gr. 1 8 × 6,2	Gr. 2 10 × 8
Gr. 1 9 × 7	Gr. 2 11 × 9
Gr. 1 10 × 8	Gr. 2 12 × 9
Gr. 1 11 × 9	Gr. 2 14 × 11
	Gr. 2 16 × 12
	Gr. 2 18 × 14,5



Quick-change tapping chucks ISO 12164 HSK-A (DIN 69893)
with length compensation in a wooden box
incl. tapping collets with clutch

Order no.	Size	Size	Piece
HSK-A63-16-12-SC	HSK 63 - M3 / M14	Gr. 1	8
HSK-A63-16-20-SC	HSK 63 - M5 / M22	Gr. 2	10
HSK-A100-16-12-SC	HSK 100 - M3 / M14	Gr. 1	8
HSK-A100-16-20-SC	HSK 100 - M5 / M22	Gr. 2	10



Quick-change tapping chucks ISO 12164 HSK-A (DIN 69893)
with length compensation in a wooden box
incl. tapping collets without clutch

Order no.	Size	Size	Piece
HSK-A63-16-12-S	HSK 63 - M3 / M14	Gr. 1	7
HSK-A63-16-20-S	HSK 63 - M5 / M22	Gr. 2	9
HSK-A100-16-12-S	HSK 100 - M3 / M14	Gr. 1	7
HSK-A100-16-20-S	HSK 100 - M5 / M22	Gr. 2	9

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Tapping collets with clutch

Size	Size
Gr. 1 M3 - 3,5 DIN 371 × 2,7	Gr. 2 M5 - 6 × 4,9 DIN 371
Gr. 1 M4 - 4,5 DIN 371 × 3,4	Gr. 2 M6 - 6 × 4,9 DIN 371
Gr. 1 M5 - 6 × 4,9 DIN 371	Gr. 2 M8 - 8 × 6,2 DIN 371
Gr. 1 M6 - 6 × 4,9 DIN 371	Gr. 2 M10 - 10 × 8 DIN 371
Gr. 1 M8 - 8 × 6,2 DIN 371	Gr. 2 M12 - 9 × 7 DIN 376
Gr. 1 M10 - 10 × 8 DIN 371	Gr. 2 M14 - 11 × 9 DIN 376
Gr. 1 M12 - 9 × 7 DIN 376	Gr. 2 M16 - 12 × 9 DIN 376
Gr. 1 M14 - 11 × 9 DIN 376	Gr. 2 M18 - 14 × 11 DIN 376
	Gr. 2 M20 - 16 × 12 DIN 376
	Gr. 2 M22 - 18 × 14,5 DIN 376



Tapping collets without clutch

Size	Size
Gr. 1 3,5 × 2,7	Gr. 2 6 × 4,9
Gr. 1 4,5 × 3,4	Gr. 2 8 × 6,2
Gr. 1 6 × 4,9	Gr. 2 9 × 7
Gr. 1 8 × 6,2	Gr. 2 10 × 8
Gr. 1 9 × 7	Gr. 2 11 × 9
Gr. 1 10 × 8	Gr. 2 12 × 9
Gr. 1 11 × 9	Gr. 2 14 × 11
	Gr. 2 16 × 12
	Gr. 2 18 × 14,5



Quick-change tapping chucks DIN ISO 10889-1 (DIN 69880)
with length compensation in a wooden box
incl. tapping collets with clutch

Order no.	Size	Size	Piece
VDI-30-16-12-SC	VDI 30 - M3 / M14	Gr. 1	8
VDI-30-16-20-SC	VDI 30 - M5 / M22	Gr. 2	10
VDI-40-16-12-SC	VDI 40 - M3 / M14	Gr. 1	8
VDI-40-16-20-SC	VDI 40 - M5 / M22	Gr. 2	10



Quick-change tapping chucks DIN ISO 10889-1 (DIN 69880)
with length compensation in a wooden box
incl. tapping collets without clutch

Order no.	Size	Size	Piece
VDI-30-16-12-S	VDI 30 - M3 / M14	Gr. 1	7
VDI-30-16-20-S	VDI 30 - M5 / M22	Gr. 2	9
VDI-40-16-12-S	VDI 40 - M3 / M14	Gr. 1	7
VDI-40-16-20-S	VDI 40 - M5 / M22	Gr. 2	9

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Tapping collets with clutch

Size	Size
Gr. 1 M3 - 3,5 × 2,7	Gr. 2 M5 - 6 × 4,9 DIN 371
Gr. 1 M4 - 4,5 × 3,4	Gr. 2 M6 - 6 × 4,9 DIN 371
Gr. 1 M5 - 6 × 4,9 DIN 371	Gr. 2 M8 - 8 × 6,2 DIN 371
Gr. 1 M6 - 6 × 4,9 DIN 371	Gr. 2 M10 - 10 × 8 DIN 371
Gr. 1 M8 - 8 × 6,2 DIN 371	Gr. 2 M12 - 9 × 7 DIN 376
Gr. 1 M10 - 10 × 8 DIN 371	Gr. 2 M14 - 11 × 9 DIN 376
Gr. 1 M12 - 9 × 7 DIN 376	Gr. 2 M16 - 12 × 9 DIN 376
Gr. 1 M14 - 11 × 9 DIN 376	Gr. 2 M18 - 14 × 11 DIN 376
	Gr. 2 M20 - 16 × 12 DIN 376
	Gr. 2 M22 - 18 × 14,5



Tapping collets without clutch

Size	Size
Gr. 1 3,5 × 2,7	Gr. 2 6 × 4,9
Gr. 1 4,5 × 3,4	Gr. 2 8 × 6,2
Gr. 1 6 × 4,9	Gr. 2 9 × 7
Gr. 1 8 × 6,2	Gr. 2 10 × 8
Gr. 1 9 × 7	Gr. 2 11 × 9
Gr. 1 10 × 8	Gr. 2 12 × 9
Gr. 1 11 × 9	Gr. 2 14 × 11
	Gr. 2 16 × 12
	Gr. 2 18 × 14,5



Quick-change tapping chucks DIN 228-1B with length compensation in a wooden box incl. tapping collets with clutch

Order no.	Size	Size	Piece
MK-07-16-212-SC	MK 2 - M3 / M14	Gr. 1	8
MK-07-16-312-SC	MK 3 - M3 / M14	Gr. 1	8
MK-07-16-320-SC	MK 3 - M5 / M22	Gr. 2	10
MK-07-16-412-SC	MK 4 - M3 / M14	Gr. 1	8
MK-07-16-420-SC	MK 4 - M5 / M22	Gr. 2	10



Quick-change tapping chucks DIN 228-1B with length compensation in a wooden box incl. tapping collets without clutch

Order no.	Size	Size	Piece
MK-07-16-212-S	MK 2 - M3 / M14	Gr. 1	7
MK-07-16-312-S	MK 3 - M3 / M14	Gr. 1	7
MK-07-16-320-S	MK 3 - M5 / M22	Gr. 2	9
MK-07-16-412-S	MK 4 - M3 / M14	Gr. 1	7
MK-07-16-420-S	MK 4 - M5 / M22	Gr. 2	9

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Tapping collets with clutch

Size	Size
Gr. 1 M3 - 3,5 DIN 371 × 2,7	Gr. 2 M5 - 6 × 4,9 DIN 371
Gr. 1 M4 - 4,5 DIN 371 × 3,4	Gr. 2 M6 - 6 × 4,9 DIN 371
Gr. 1 M5 - 6 × 4,9 DIN 371	Gr. 2 M8 - 8 × 6,2 DIN 371
Gr. 1 M6 - 6 × 4,9 DIN 371	Gr. 2 M10 - 10 × 8 DIN 371
Gr. 1 M8 - 8 × 6,2 DIN 371	Gr. 2 M12 - 9 × 7 DIN 376
Gr. 1 M10 - 10 × 8 DIN 371	Gr. 2 M14 - 11 × 9 DIN 376
Gr. 1 M12 - 9 × 7 DIN 376	Gr. 2 M16 - 12 × 9 DIN 376
Gr. 1 M14 - 11 × 9 DIN 376	Gr. 2 M18 - 14 × 11 DIN 376
	Gr. 2 M20 - 16 × 12 DIN 376
	Gr. 2 M22 - 18 × 14,5 DIN 376



Tapping collets without clutch

Size	Size
Gr. 1 3,5 × 2,7	Gr. 2 6 × 4,9
Gr. 1 4,5 × 3,4	Gr. 2 8 × 6,2
Gr. 1 6 × 4,9	Gr. 2 9 × 7
Gr. 1 8 × 6,2	Gr. 2 10 × 8
Gr. 1 9 × 7	Gr. 2 11 × 9
Gr. 1 10 × 8	Gr. 2 12 × 9
Gr. 1 11 × 9	Gr. 2 14 × 11
	Gr. 2 16 × 12
	Gr. 2 18 × 14,5



Quick-change tapping chucks straight shank DIN 1835 B+E
with length compensation in a wooden box incl. tapping
collets with clutch

Order no.	Size	Size	Piece
QC-16-2012-SC	20 - M3 / M14	Gr. 1	8
QC-16-2020-SC	20 - M5 / M22	Gr. 2	10
QC-16-2512-SC	25 - M3 / M14	Gr. 1	8
QC-16-2520-SC	25 - M5 / M22	Gr. 2	10
QC-16-3220-SC	32 - M5 / M22	Gr. 2	10



Quick-change tapping chucks straight shank DIN 1835 B+E
with length compensation in a wooden box incl. tapping
collets without clutch

Order no.	Size	Size	Piece
QC-16-2012-S	20 - M3 / M14	Gr. 1	7
QC-16-2020-S	20 - M5 / M22	Gr. 2	9
QC-16-2512-S	25 - M3 / M14	Gr. 1	7
QC-16-2520-S	25 - M5 / M22	Gr. 2	9
QC-16-3220-S	32 - M5 / M22	Gr. 2	9

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Tapping collets with clutch



Tapping collets without clutch

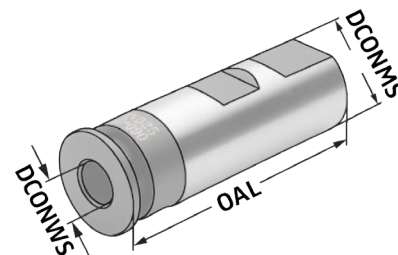
Size	Size
Gr. 1 M3 - 3,5 × 2,7	Gr. 2 M5 - 6 × 4,9 DIN 371
Gr. 1 M4 - 4,5 × 3,4	Gr. 2 M6 - 6 × 4,9 DIN 371
Gr. 1 M5 - 6 × 4,9 DIN 371	Gr. 2 M8 - 8 × 6,2 DIN 371
Gr. 1 M6 - 6 × 4,9 DIN 371	Gr. 2 M10 - 10 × 8 DIN 371
Gr. 1 M8 - 8 × 6,2 DIN 371	Gr. 2 M12 - 9 × 7 DIN 376
Gr. 1 M10 - 10 × 8 DIN 371	Gr. 2 M14 - 11 × 9 DIN 376
Gr. 1 M12 - 9 × 7 DIN 376	Gr. 2 M16 - 12 × 9 DIN 376
Gr. 1 M14 - 11 × 9 DIN 376	Gr. 2 M18 - 14 × 11 DIN 376
	Gr. 2 M20 - 16 × 12 DIN 376
	Gr. 2 M22 - 18 × 14,5 DIN 376

Size	Size
Gr. 1 3,5 × 2,7	Gr. 2 6 × 4,9
Gr. 1 4,5 × 3,4	Gr. 2 8 × 6,2
Gr. 1 6 × 4,9	Gr. 2 9 × 7
Gr. 1 8 × 6,2	Gr. 2 10 × 8
Gr. 1 9 × 7	Gr. 2 11 × 9
Gr. 1 10 × 8	Gr. 2 12 × 9
Gr. 1 11 × 9	Gr. 2 14 × 11
	Gr. 2 16 × 12
	Gr. 2 18 × 14,5

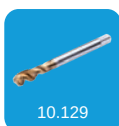
Clamping sleeves for taps in end mill holders DIN 1835 B with quick change adaptor



Application:
For machines with rigid tapping.
For safe clamping of taps in end mill holders
according to DIN 1835 B



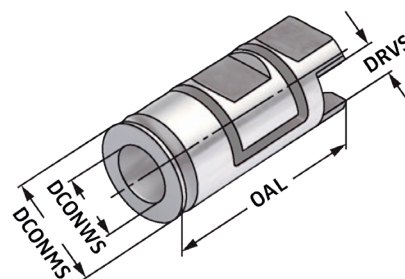
Order no.	DCONMS	DCONWS	DRVS Square	OAL
QC-16-3527	16	3,5	2,7	56,0
QC-16-4030	16	4,0	3,0	56,0
QC-16-4534	16	4,5	3,4	56,0
QC-16-649	16	6,0	4,9	56,0
QC-20-4534	20	4,5	3,4	58,0
QC-20-649	20	6,0	4,9	58,0
QC-20-755	20	7,0	5,5	58,0
QC-20-862	20	8,0	6,2	58,0
QC-20-97	20	9,0	7,0	58,0
QC-20-108	20	10,0	8,0	58,0
QC-25-4534	25	4,5	3,4	66,0
QC-25-649	25	6,0	4,9	66,0
QC-25-755	25	7,0	5,5	66,0
QC-25-862	25	8,0	6,2	66,0
QC-25-97	25	9,0	7,0	66,0
QC-25-108	25	10,0	8,0	66,0
QC-25-119	25	11,0	9,0	66,0
QC-25-129	25	12,0	9,0	66,0
QC-32-649	32	6,0	4,9	70,0
QC-32-755	32	7,0	5,5	70,0
QC-32-862	32	8,0	6,2	70,0
QC-32-97	32	9,0	7,0	70,0
QC-32-108	32	10,0	8,0	70,0
QC-32-119	32	11,0	9,0	70,0
QC-32-129	32	12,0	9,0	70,0
QC-32-1411	32	14,0	11,0	70,0
QC-32-1612	32	16,0	12,0	70,0
QC-32-18145	32	18,0	14,5	70,0



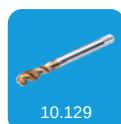
Clamping sleeves for taps in end mill holders DIN 1835 B



Application:
For machines with rigid tapping.
For safe clamping of taps in end mill holders
according to DIN 1835 B.



Order no.	DCONMS	DCONWS	DRVS Square	OAL
QC-04-0825	8	2,5	2,1	36
QC-04-0828	8	2,8	2,1	36
QC-04-1035	10	3,5	2,7	40
QC-04-1040	10	4,0	3,0	40
QC-04-1045	10	4,5	3,4	40
QC-04-1260	12	6,0	4,9	45
QC-04-1470	14	7,0	5,5	45
QC-04-1480	14	8,0	6,2	48
QC-04-1690	16	9,0	7,0	48
QC-04-1610	16	10,0	8,0	48
QC-04-1811	18	11,0	9,0	50
QC-04-2012	20	12,0	9,0	50
QC-04-2514	25	14,0	11,0	56
QC-04-2516	25	16,0	12,0	56
QC-04-3216	32	16,0	14,5	60
QC-04-3218	32	18,0	14,5	60
QC-04-3220	32	20,0	16,0	60
QC-04-3222	32	22,0	18,0	60
QC-04-4025	40	25,0	20,0	70
QC-04-4028	40	28,0	22,0	70
QC-04-5022	50	22,0	18,0	81
QC-04-5028	50	28,0	22,0	81
QC-04-5032	50	32,0	24,0	81
QC-04-5036	50	36,0	29,0	81
QC-04-5040	50	40,0	32,0	81

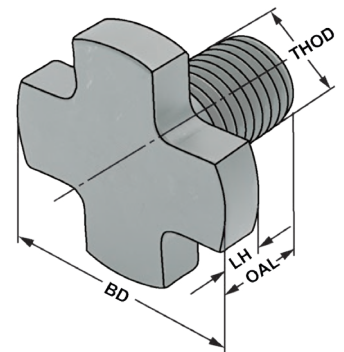


10.129

Retaining screws DIN 6367

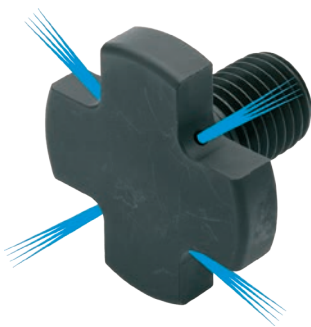


Application:
Retaining screw for mounting of face mills
arbors.

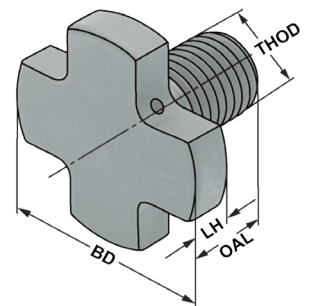


Order no.	Size	THOD	BD	LH	OAL	TQX
AC-02-10-16	16	M8	20	6	22	35
AC-02-10-22	22	M10	28	7	25	75
AC-02-10-27	27	M12	35	8	30	130
AC-02-10-32	32	M16	42	9	35	320
AC-02-10-40	40	M20	52	10	40	620
AC-02-10-50	50	M24	63	12	48	1000
AC-02-10-60	60	M30	75	14	60	2000

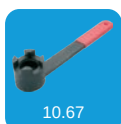
Retaining screws DIN 6367 with drill through for coolant



Application:
Retaining screw for mounting of face mills
arbors.



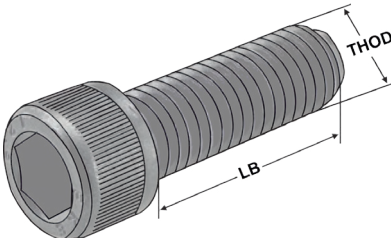
Order no.	Size	THOD	BD	LH	OAL	TQX
AC-02-11-16	16	M8	20	6	22	35
AC-02-11-22	22	M10	28	7	25	75
AC-02-11-27	27	M12	35	8	30	130
AC-02-11-32	32	M16	42	9	35	320
AC-02-11-40	40	M20	52	10	40	620
AC-02-11-50	50	M24	63	12	48	1000
AC-02-11-60	60	M30	75	14	60	2000



Hexagon Socket Head Cap Screws DIN 912



Application:
Retaining screw for mounting of face mills
arbors.

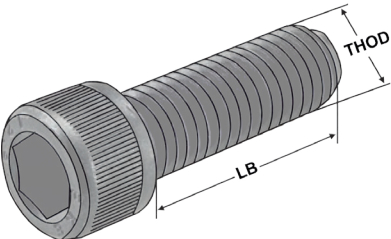


Order no.	Size	THOD	LB	TQX	DRVS
AC-02-10-161	16	M8	25	35	6
AC-02-10-221	22	M10	25	70	8
AC-02-10-271	27	M12	35	120	10
AC-02-10-321	32	M16	35	300	14
AC-02-10-401	40	M20	40	500	17

Hexagon Socket Head Cap Screws with coolant flutes ~DIN 912



Application:
Retaining screw for mounting of face mills
arbors.



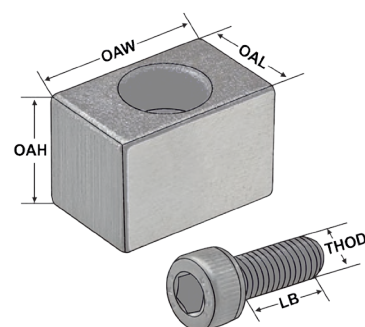
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Order no.	Size	THOD	LB	TQX	DRVS
AC-02-11-16	16	M8	30	35	6
AC-02-11-22	22	M10	35	70	8
AC-02-11-27	27	M12	35	120	10
AC-02-11-19	32	M16	50	300	14

Driving key for shell mill holder



Application:
Drive Keys for shell end mill arbors .

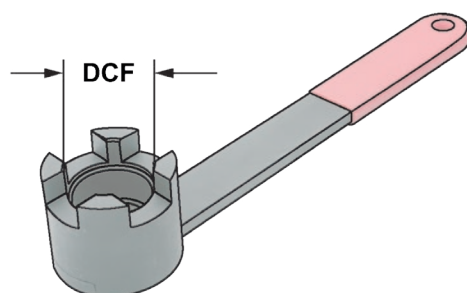
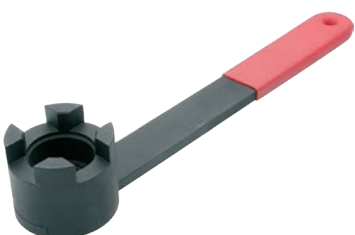


Order no.	Size	OAL	OAW	OAH	THOD	LB	TQX
AC-01-11-16	16	8	10,0	8	M3	12	4,4
AC-01-11-22	22	10	11,0	11	M4	12	4,4
AC-01-11-27	27	12	14,2	12,6	M4	16	4,4
AC-01-11-32	32	14	22,0	14	M5	14	8,7
AC-01-11-40	40	16	22,5	16	M5	14	36
AC-01-11-60	60	25,4	32,7	25,4	M12	25	120

Delivery: Driving key with screw

Wrenches DIN 6368 for shell arbors

Application:
For retaining screw DIN 6367.

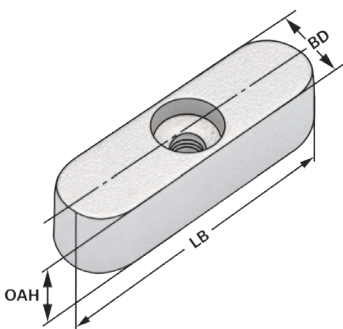


Order no.	DCF
K-10-16	16 M8
K-10-22	22 M10
K-10-27	27 M12
K-10-32	32 M16
K-10-40	40 M20
K-10-50	50 M24
K-10-60	60 M30

Feather keys



Application:
For combi shell mill holders DIN 6358.

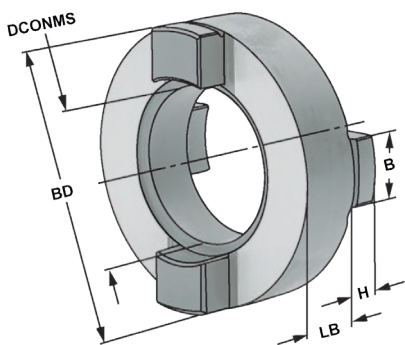


Order no.	OAH	BD	LB
AC-01-10-16K	4	6	20
AC-01-10-22K	6	6	25
AC-01-10-27K	7	7	25
AC-01-10-32K	7	8	28
AC-01-10-40K	8	10	32

Clutch drive rings DIN 6366



Application:
For combi shell mill holders DIN 6358.

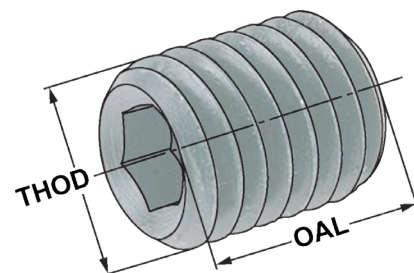


Order no.	DCONMS	BD	LB	B	H
AC-01-10-16	16	32	10	8	5
AC-01-10-22	22	40	12	10	5,6
AC-01-10-27	27	46	12	12	6,3
AC-01-10-32	32	55	14	14	7
AC-01-10-40	40	68	14	16	8

Clamping screws for Weldon chucks DIN 1835 B



Application:
End mill holders DIN 6359 for Weldon
type end mills DIN 1835-B



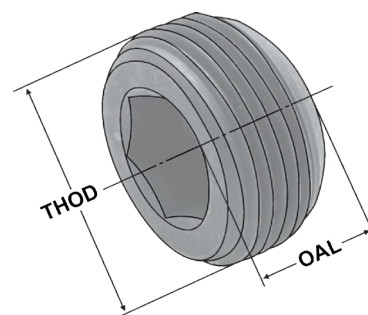
Order no.	THOD	OAL	DRVS	for diameter
AC-01-04-06	M6 x 1	10	3	6
AC-01-04-08	M8 x 1,25	10	4	8
AC-01-04-10	M10 x 1,5	12	5	10
AC-01-04-12	M12 x 1,75	16	6	12+14
AC-01-04-16	M14 x 2	16	6	16+18
AC-01-04-20	M16 x 2	16	8	20
AC-01-04-25	M18x2	20	10	25
AC-01-04-32	M20x2	20	10	32
AC-01-04-40	M20x2	20	10	40

Clamping screws for Weldon chucks DIN 1835 B short version

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Application:
End mill holders DIN 6359 for Weldon type
end mills DIN 1835-B

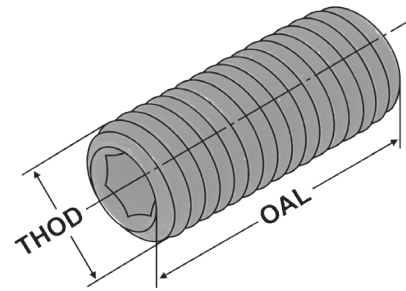


Order no.	THOD	OAL	DRVS	for article number
AC-01-04-16	M14x1	16	6	SK40-03-04-16-0 BT40-06-04-16-0
AC-01-04-201	M16x1	8	8	SK40-03-04-20-0, SK40-03-04-25-0, SK40-03-04-32-0 BT40-06-04-20-0, BT40-06-04-25-0, BT40-06-04-32-0
AC-01-04-202	M16x1	10	8	SK40-03-04-20-0, SK40-03-04-25-0, SK40-03-04-25-0 BT40-06-04-20-0, BT40-06-04-25-0
AC-01-04-203	M16x1	12	8	SK40-03-04-32-0, BT40-06-04-32-0

Adjusting Screws for Weldon chucks whistle notch DIN 1835 E



Application:
For lenght adjustment of cutting tools

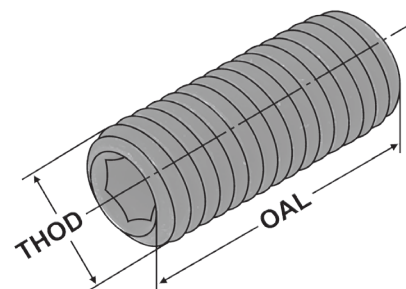


Order no.	THOD	OAL	DRVS	for diameter
AC-02-05-06	M5x0,8	30	2,5	6
AC-02-05-08	M6x1,0	30	3	8
AC-02-05-10	M8x1,25	30	4	10
AC-02-05-12	M10x1,5	30	5	12+14
AC-02-05-16	M12x1,75	30	6	16+18
AC-02-05-20	M16x2,0	30	8	20
AC-02-05-25	M20x2,5	25	10	25+32+40

Adjusting Screws for collet chucks



Application:
For lenght adjustment of cutting tools



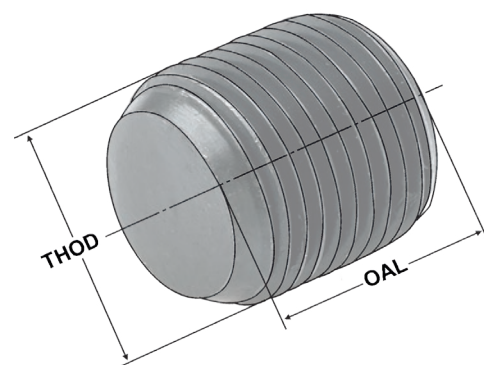
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Order no.	THOD	OAL	DRVS
AC-01-02-03	M8 x 1,25 (ER11 Mini)	13	3
AC-01-02-05	M10 x 1,5 (ER16)	20	5
AC-01-02-10	M12 x 1,75 (ER20)	20	6
AC-01-02-15	M16 x 2,0 (ER25 + ER32 + ER40)	20	8
AC-01-02-716	7/16 x 20UN (ER16 Mini)	13	3
AC-01-02-916	9/16 x 18UN (ER20 Mini)	13	5
AC-01-02-1116	11/16 x 16UN (ER25 Mini)	13	6

Clamping screws for E1 boring holders



Application:
For VDI boring holders E1

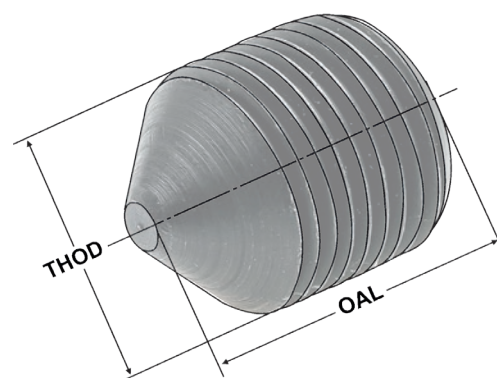


Order no.	THOD	OAL	for article number
AC-02-91-10	M10x1	10	VDI-30-51-16, VDI-30-51-20, SK40-03-51-20, SK50-03-51-20 VDI-40-51-16, VDI-40-51-20, HSK-A63-51-20 VDI-50-51-16, VDI-50-51-20
AC-02-91-12	M12x1	12	VDI-30-51-25, VDI-30-51-32, SK40-03-51-25, SK50-03-51-25 VDI-40-51-25, VDI-40-51-32, SK40-03-51-32, SK50-03-51-32 VDI-50-51-25, VDI-50-51-32, HSK-A63-51-25, HSK-A63-51-32
AC-02-91-16	M16x1	12	VDI-30-51-40, SK50-03-51-40 VDI-40-51-40, HSK-A63-51-40 VDI-50-51-40, VDI-50-51-50

Clamping screws for E1 boring holders with point



Application:
For VDI boring holders E1

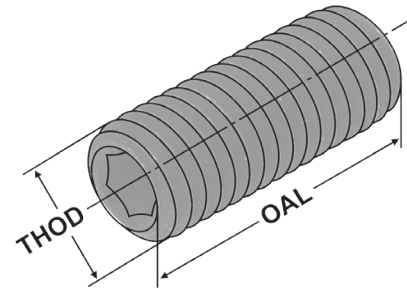


Order no.	THOD	OAL	for article number
AC-02-93-10	M10x1	14	VDI-30-51-16, VDI-30-51-20, SK40-03-51-20, SK50-03-51-20 VDI-40-51-16, VDI-40-51-20, HSK-A63-51-20 VDI-50-51-16, VDI-50-51-20
AC-02-93-12	M12x1	14	VDI-30-51-25, VDI-30-51-32, SK40-03-51-25, SK50-03-51-25 VDI-40-51-25, VDI-40-51-32, SK40-03-51-32, SK50-03-51-32 VDI-50-51-25, VDI-50-51-32, HSK-A63-51-25, HSK-A63-51-32
AC-02-93-16	M16x1	14	VDI-30-51-40, SK50-03-51-40 VDI-40-51-40, HSK-A63-51-40 VDI-50-51-40, VDI-50-51-50

Clamping screws for E2 boring bar holders



Application:
For VDI boring holders E2

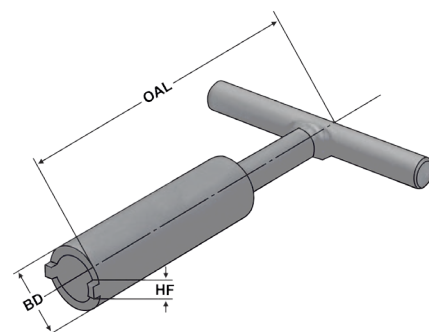


Order no.	THOD	OAL	for article number
AC-02-91-06	M6	20	VDI-30-52-08, VDI-30-52-10
AC-01-91-08-1	M8	16	VDI-30-52-16, VDI-30-52-20, VDI-30-52-25, VDI-30-52-32
AC-01-91-08-2	M8	20	VDI-30-52-12, VDI-40-52-08, VDI-40-52-10, VDI-40-52-12
AC-01-91-10	M10	12	VDI-40-52-40
AC-01-91-10-1	M10	16	VDI-40-52-16, VDI-40-52-20, VDI-40-52-25, VDI-40-52-32
AC-01-91-10-2	M10	20	VDI-50-52-12, VDI-50-52-16
AC-01-91-12	M12	10	VDI-50-52-50
AC-01-91-12-1	M12	16	VDI-50-52-32, VDI-50-52-40
AC-01-91-12-2	M12	20	VDI-50-52-20, VDI-50-52-25

Pipe key / groove-nut key for disassembling Morse taper adaptor for MT with drawbar thread DIN 6364



Application:
for disassembling adaptor sleeves



Order no.	BD	OAL	H	for article number
K-02-08-01	12,5	105	3	SK40-01-08-01, SK40-02-08-01, BT40-05-08-01
K-02-08-011	9,5	110	2	HSK-A63-08-01, HSK-A100-08-01
K-02-08-02	12,5	120	2,5	SK40-01-08-02, SK40-02-08-02, BT40-05-08-02, HSK-A63-08-02, HSK-A100-08-02
K-02-08-03	18,5	135	3	SK40-01-08-03, SK40-02-08-03, BT40-05-08-03, SK50-01-08-01, SK50-01-08-02, SK50-01-08-03, SK50-01-08-04, SK50-01-08-04A, SK50-02-08-01, SK50-02-08-02, SK50-02-08-03, SK50-02-08-04, SK50-02-08-04A, BT50-05-08-01, BT50-05-08-02, BT50-05-08-04, BT50-05-08-04A, HSK-A63-08-03, HSK-A100-08-03, BT50-05-08-03
K-02-08-04	22,5	175	3	SK40-01-08-04, SK40-01-08-04A, SK40-02-08-04, SK40-02-08-04A, BT40-05-08-04, BT40-05-08-04A, HSK-A63-08-04, HSK-A100-08-04
K-02-08-05	26,5	205	3	SK50-01-08-05, SK50-01-08-05A, SK50-02-08-05, SK50-02-08-05A, BT50-05-08-05, BT50-05-08-05A, HSK-A100-08-05

Spare part set for Morse taper adaptor for MT with drawbar thread DIN 6364



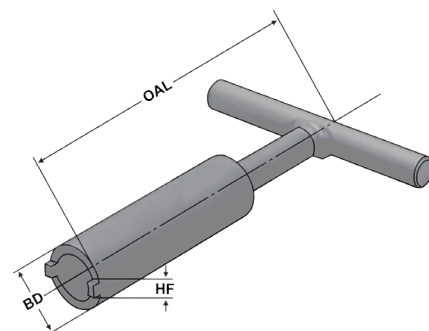
Delivery:
Bolt, Holding ring, Screw on holding ring

Order no.	Bolt	Holding ring	Clamping screw	for
S-SK40-01-08-01	M6x40	M16 x 6,5 x 10	M5x6	SK 40-1-50 DIN 2080
S-SK40-01-08-02	M10x45	M16 x 6,5 x 10	M5x6	SK 40-2-50 DIN 2080
S-SK40-01-08-03	M12x35	M20 x 13 x 10	M5x6	SK 40-3-65 DIN 2080
S-SK40-01-08-04	M16x45	M26 x 16,5 x 13	M5x6	SK 40-4-95 DIN 2080
S-SK40-02-08-01	M6x25	M16 x 6,5 x 10	M5x6	SK 40-1-50 DIN 69871 AD
S-SK40-02-08-02	M10x25	M16 x 11 x 6	M5x6	SK 40-2-50 DIN 69871 AD
S-SK40-02-08-03	M12x35	M20 x 13 x 10	M5x6	SK 40-3-70 DIN 69871 AD
S-SK40-02-08-04	M16x45	M26 x 16,5 x 13	M5x6	SK 40-4-95 DIN 69871 AD
S-BT40-05-08-01	M6x25	M16 x 6,5 x 10	M5x6	BT 40-1-50 MAS-BT
S-BT40-05-08-02	M10x25	M16 x 6,5 x 10	M5x6	BT 40-2-50 MAS-BT
S-BT40-05-08-03	M12x35	M20 x 13 x 10	M5x6	BT 40-3-70 MAS-BT
S-BT40-05-08-04	M16x45	M26 x 16,5 x 13	M5x6	BT 40-4-95 MAS-BT
S-501-08-01	M6x55	M24 x 6,5 x 12	M6x10	SK 50-1-60 DIN 2080
S-501-08-02	M10x70	M24 x 11 x 12	M6x10	SK 50-2-60 DIN 2080
S-501-08-03	M12x35	M24 x 13 x 12	M5x6	SK 50-3-65 DIN 2080
S-501-08-04	M16x35	M24 x 15 x 9,5	M6x10	SK 50-4-65 DIN 2080
S-501-08-05	M20x50	M36 x 21 x 14	M6x10	SK 50-5-120 DIN 2080
S-502-08-01	M6x40	M24 x 6,5 x 12	M6x10	SK 50-1-60 DIN 69871 A
S-502-08-02	M10x45	M24 x 11 x 12	M6x10	SK 50-2-60 DIN 69871 A
S-502-08-03	M12x35	M24 x 13 x 12	M5x6	SK 50-3-65 DIN 69871 A
S-502-08-04	M16x35	M24 x 15 x 9,5	M6x10	SK 50-4-70 DIN 69871 A
S-502-08-05	M20x50	M36 x 21 x 14	M6x10	SK 50-5-100 DIN 69871 A
S-BT50-05-08-01	M6x40	M24 x 6,5 x 12	M6x10	BT 50-1-45 MAS-BT
S-BT50-05-08-02	M10x45	M24 x 11 x 12	M6x10	BT 50-2-60 MAS-BT
S-BT50-05-08-03	M12x35	M24 x 13 x 12	M5x6	BT 50-3-65 MAS-BT
S-BT50-05-08-04	M16x35	M24 x 15 x 9,5	M6x10	BT 50-4-70 MAS-BT
S-BT50-05-08-05	M20x50	M36 x 21 x 14	M6x10	BT 50-5-100 MAS-BT
S-HSK-A100-08-01	M6x25	M10 x 6,2 x 8	M5x6	HSK 100-1-110
S-HSK-A100-08-02	M10x25	M16 x 11 x 6	M5x6	HSK 100-2-120
S-HSK-A100-08-03	M12x25	M20 x 13 x 10	M5x6	HSK 100-3-150
S-HSK-A100-08-04	M16x25	M26 x 16,5 x 13	M5x6	HSK 100-4-170
S-HSK-A100-08-05	M20x51	M36 x 21 x 14	M6x10	HSK 100-5-200
S-HSK-A63-08-01	M6x25	M10 x 6,2 x 8	M5x6	HSK 63-1-100
S-HSK-A63-08-02	M10x28	M16 x 11 x 6	M5x6	HSK 63-2-120
S-HSK-A63-08-03	M12x35	M20 x 13 x 10	M5x6	HSK 63-3-140
S-HSK-A63-08-04	M16x45	M26 x 16,5 x 13	M5x6	HSK 63-4-160

Pipe key / groove-nut key for disassembling adaptor sleeves for ISO-toolholders



Application:
for disassembling adaptor sleeves



Order no.	BD	OAL	HF	for article number
K-02-09-30-1	18,5	111	4	SK40-01-09-30, SK40-02-09-30, BT40-05-09-30
K-02-09-40-1	24	141	2,8	SK40-01-09-40, SK40-02-09-40, BT40-05-09-40
K-02-09-40-2	20	111	2	SK50-01-09-40, SK50-02-09-40, BT50-05-09-40
K-02-09-50-2	35	166	3,5	SK50-01-09-50, SK50-02-09-50, BT50-05-09-50

Spare part set for Adaptor sleeves for ISO-toolholders



Delivery:
Bolt, Holding ring, Screw on holding ring

10

Order no.	Bolt	Holding ring	Clamping screw	for
S-SK40-02-09-30	M12x50	M18 x 12,5 x 10	M5x6	SK40-SK30-50 DIN69871
S-SK40-02-09-40	M16x70	M26 x 16,5 x 13	M5x6	SK40-SK40-100 DIN69871
S-BT40-05-09-30	M12x50	M18 x 12,5 x 10	M5x6	SK40-SK30-50 MAS/BT
S-SK40-05-09-40	M16x70	M26 x 16,5 x 13	M5x6	SK40-SK40-100 DIN69871
S-SK50-02-09-40	M16x70	M24 x 15 x 9,5	M6x10	SK50-SK40-70 DIN69871
S-SK50-02-09-50	M24x80	M39 x 24,5 x 15	M6x10	SK50-SK50-120 DIN69871
S-BT50-05-09-40	M16x70	M24 x 15 x 9,5	M6x10	SK50-SK40-70 MAS/BT
S-BT50-05-09-50	M24x80	M39 x 24,5 x 15	M6x10	SK50-SK50-120 MAS/BT

Spare part set for Adaptor sleeves for PSK-toolholders



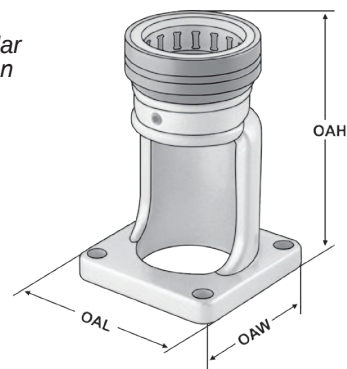
Delivery:
Bolt and Holding ring

Order no.	Bolt	Holding ring	for article number
S-PSK-09-C3	M12x1,5	M18,5 x 1,0 x 10	PSK-toolholders C3
S-PSK-09-C4	M14x1,5	M24 x 1,0 x 10	PSK-toolholders C4
S-PSK-09-C5	M16x1,5	M26 x 1,5 x 10	PSK-toolholders C5
S-PSK-09-C6	M20x2,0	M30 x 1,5 x 10	PSK-toolholders C6

Universal ball bearing tightening fixture



Application:
For easy and reliable clamping of tool arbors at the collar using rollers to mount and remove cutting tools – friction lock is self-clamping and ideal for HSK forms E and F, and also polygon shank arbors.

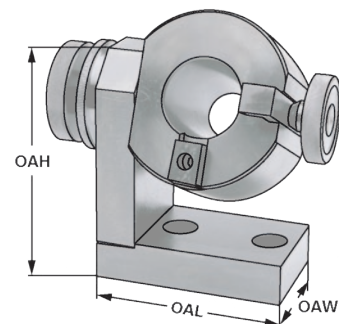


Order no.	Size	OAL	OAW	OAH
UB-1-032	HSK A32 - C32 - E32 - F32 - C3	110	110	165
UB-1-040	HSK A40 - C40 - E40 - F40 - C4	110	110	165
UB-1-050	HSK A50 - C50 - E50 - F50 - SK30 - C5	110	110	165
UB-1-063	HSK A63 - C63 - E63 - F63 - BT40 - C6	110	110	172
UB-1-080	HSK A80 - C80 - E80 - F80 - C8	160	160	215
UB-1-100	HSK A100 - BT50	160	160	219
UB-1-BT30	BT30	110	110	165
UB-1-SK40	SK40	110	110	172
UB-1-SK50	SK50	160	160	219

Universal assembly blocks made of steel, pivoted



Application:
Hinged mounting device for toolholders.
Head turnable for 360°, lockable in different positions.



Order no.	Size	OAL	OAW	OAH
AC-05-30	SK/ISO/BT/CAT 30	111	65	134
AC-05-40	SK/ISO/BT/CAT 40	111	65	132
AC-05-50	SK/ISO/BT/CAT 50	111	65	175
AC-08-32	HSK-A 32	111	65	132
AC-08-40	HSK-A 40	111	65	132
AC-08-50	HSK-A 50	111	65	132
AC-08-63	HSK-A 63	111	65	132
AC-08-80	HSK-A 80	111	65	132
AC-08-100	HSK-A 100	111	65	132
AC-09-16	VDI 16	100	48	97
AC-09-20	VDI 20	100	48	97
AC-09-30	VDI 30	111	65	132
AC-09-40	VDI 40	111	65	132
AC-09-50	VDI 50	111	65	132



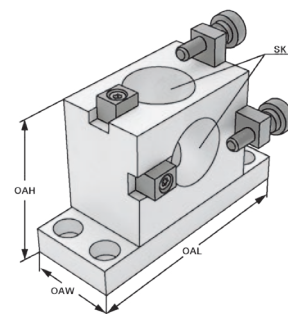
10



Tightening fixtures made of aluminium



Application:
Assembly device for vertical and horizontal
mounting of tools with steep taper shank.



Order no.	Size	OAL	OAW	OAH
AC-00-30	SK/ISO/BT/CAT 30	126	47	75
AC-00-40	SK/ISO/BT/CAT 40	160	60	100
AC-00-50	SK/ISO/BT/CAT 50	180	97	155

Taper wipers



Application:
For cleaning internal tapers on machine spindles,
sleeves and tool arbors.



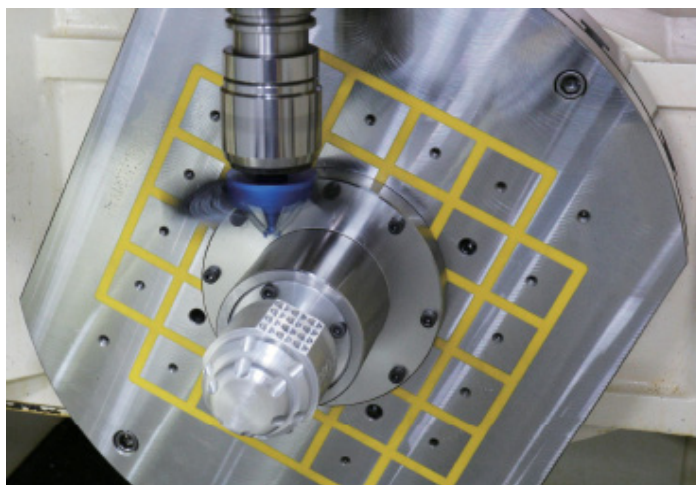
Order no.	Size	
AC-10-01-415	OZ 16	
AC-10-01-462	OZ 25	
AC-10-01-467	OZ 32	
AC-10-02-426	ER 16	
AC-10-02-428	ER 20	
AC-10-02-430	ER 25	
AC-10-02-470	ER 32	
AC-10-02-472	ER 40	
AC-10-01	MK 1	
AC-10-02	MK 2	
AC-10-03	MK 3	
AC-10-04	MK 4	
AC-10-05	MK 5	
AC-10-30	SK/ISO/BT/CAT 30	
AC-10-40	SK/ISO/BT/CAT 40	
AC-10-50	SK/ISO/BT/CAT 50	
AC-10-32-HSK	HSK 32	Form A-C-E
AC-10-40-HSK	HSK 40	Form A-C-E
AC-10-50-HSK	HSK 50	Form A-C-E
AC-10-63-HSK	HSK 63	Form A-C-E
AC-10-80-HSK	HSK 80	Form A-C-E
AC-10-100-HSK	HSK 100	Form A-C-E
AC-10-63-HSK-F	HSK 63	Form F

Version: With parts of leather

Cleaning propeller | Chip Blower



Order no.	OAL	LF	DCONMS	BD	LPR	DFC	RPMX	Feed rate
CP-160	120	53	16	65	80	160	7000 - 12000 1/min.	1000~3000 mm/min
CP-260	170	53	16	65	130	260	5000 - 8000 1/min.	3000~15000mm/min
CP-330	205	53	16	65	165	330	4000 - 7000 1/min.	3000~15000mm/min



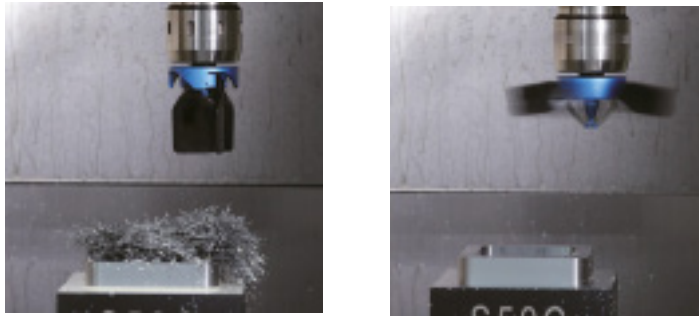
10

Spare cleaning propeller

Order no.	Typ
CP-160-B	160
CP-260-B	170
CP-330-B	330

Delivery: 1 pcs. rotor blade; Supplied with spring and retainer pin

Cleaning propeller | Chip Blower

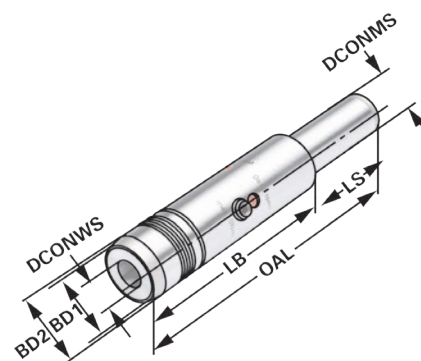


- *Safe and quick removal of chips and coolant*
- *Coolant goes through the center*
- *Robust and long-living*
- *Use with collet chucks and 16mm collets*
- *Usable with automatic tool changer*
- *Opening and closing of the flanks through the spindle speed control*
- *For vertical and horizontal processing centers*
- *Contact free cleaning of the working area of the machine*
- *Reduction of time expanses*

Hydraulic expansion chucks for tool shanks



Application:
For mounting straight-shank tools acc.
DIN 1835 form A+B+E and DIN 6535 form
HA+HB+HE



Order no.	DCONMS	DCONWS	BD1	BD2	OAL	LB	LS	DRVS
ACE-H12-12	12	12	21	25	146	100	46	4
ACE-H20-12	20	12	21	25	150	100	50	4
ACE-H20-16	20	16	25	28	150	100	50	4
ACE-H20-20	20	20	30	32	150	100	50	5
ACE-H32-12	32	12	21	25	200	140	60	4
ACE-H32-16	32	16	25	28	200	140	60	4
ACE-H32-20	32	20	30	32	200	140	60	5

Through hole for internal cooling provided.

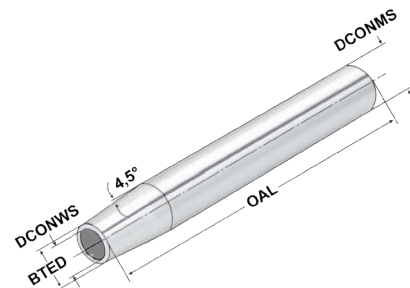
Delivery: Without wrench



Shrink fit extensions 4,5°



Application:
For use in shrink-fit chucks, hydraulic chucks, and ER collet chucks.



Order no.	DCONMS	DCONWS	BTED	OAL	LSCN	LSCX	ADJRG	THID
ACE-70-03*	20	3	10	150	6	-	-	-
ACE-70-04*	20	4	10	150	8	-	-	-
ACE-70-05*	20	5	10	150	10	-	-	-
ACE-70-06	20	6	10	150	22	36	10	M5x0,8
ACE-70-08	20	8	12	150	26	36	10	M6x1
ACE-70-10	20	10	14	150	31	41	10	M8x1
ACE-70-12	20	12	16	150	36	46	10	M10x1
ACE-70-25-08	25	8	12	150	26	36	10	M6x1
ACE-70-25-10	25	10	14	150	31	41	10	M8x1
ACE-70-25-12	25	12	16	150	36	46	10	M10x1
ACE-70-25-14	25	14	18	150	36	46	10	M10x1
ACE-70-25-16	25	16	20	150	39	49	10	M12x1
ACE-70-32-10	32	10	14	150	31	41	10	M8x1
ACE-70-32-12	32	12	16	150	36	46	10	M10x1
ACE-70-32-14	32	14	18	150	36	46	10	M10x1
ACE-70-32-16	32	16	20	150	39	49	10	M12x1
ACE-70-32-18	32	18	22	150	39	49	10	M12x1
ACE-70-32-20	32	20	24	150	41	51	10	M16x1

* without end stop

Through hole for internal cooling provided.

LSCX = Clamping depth, max.

ADJRG = Length adjustment range, max.

For Ø 3, 4 and 5 mm only solid carbide tool shanks must be used!

Note: Toolholders suitable for induction-, contact- and hot air shrink units.
Ø 3, 4, 5 with h_4 -tolerance and Ø 6–Ø 32 with h_6 -tolerance

Reduction sleeves for boring bar holders form E2



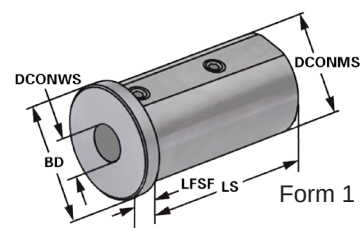
Form 1



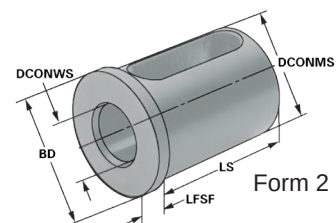
Form 2



Application:
Reduction for mounting tools with straight-shank, such as precision boring bars.



Form 1



Form 2

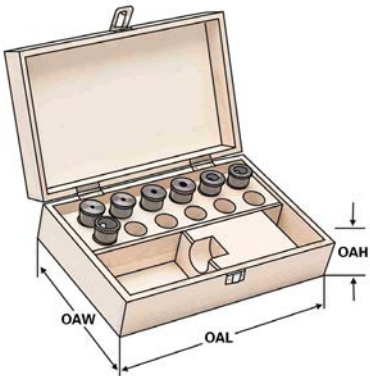
Order no.	Form form forme	DCONMS	DCONWS	LS	LFSF	BD	OAL
RS-25-06	1	25	6	46	5	29	51
RS-25-08	1	25	8	46	5	29	51
RS-25-10	1	25	10	46	5	29	51
RS-25-12	1	25	12	46	5	29	51
RS-25-14	1	25	14	46	5	29	51
RS-25-16	2	25	16	46	5	29	51
RS-25-18	2	25	18	46	5	29	51
RS-25-20	2	25	20	46	5	29	51
RS-32-06	1	32	6	55	5	36	60
RS-32-08	1	32	8	55	5	36	60
RS-32-10	1	32	10	55	5	36	60
RS-32-12	1	32	12	55	5	36	60
RS-32-14	1	32	14	55	5	36	60
RS-32-16	2	32	16	55	5	36	60
RS-32-18	2	32	18	55	5	36	60
RS-32-20	2	32	20	55	5	36	60
RS-32-25	2	32	25	55	5	36	60
RS-40-06	1	40	6	71	5	44	76
RS-40-08	1	40	8	71	5	44	76
RS-40-10	1	40	10	71	5	44	76
RS-40-12	1	40	12	71	5	44	76
RS-40-14	1	40	14	71	5	44	76
RS-40-16	2	40	16	71	5	44	76
RS-40-18	2	40	18	71	5	44	76
RS-40-20	2	40	20	71	5	44	76
RS-40-25	2	40	25	71	5	44	76
RS-40-32	2	40	32	71	5	44	76

Note: Suitable for through-coolant (not slotted)

Reduction sleeves set for boring bar holders form E2



Application:
Reduction for mounting tools with straight-shank, such as precision boring bars.



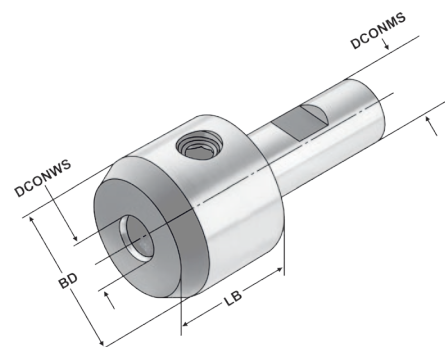
Order no.	Size	OAL	OAW	OAH
RSS-25-S	Ø 25 Set 6 St. 06-08-10-12-16-20	360	235	70
RSS-32-S	Ø 32 Set 7 St. 06-08-10-12-16-20-25	360	235	70
RSS-40-S	Ø 40 Set 8 St. 06-08-10-12-16-20-25-32	360	235	70

Reducing bushes DIN 1835 B for tool shanks

DIN 1835 B+E



Application:
For mounting straight-shank tools according
to DIN 1835 form B+E.



h6



H6

Order no.	DCONMS	DCONWS	BD	LB
ACR-20-06	20	6	25	30
ACR-20-08	20	8	28	30
ACR-20-10	20	10	35	30
ACR-20-12	20	12	42	35
ACR-32-06	32	6	25	30
ACR-32-08	32	8	28	30
ACR-32-10	32	10	35	30
ACR-32-12	32	12	42	35
ACR-32-14	32	14	44	35
ACR-32-16	32	16	48	38
ACR-32-18	32	18	50	38
ACR-32-20	32	20	52	40

Through hole for internal cooling provided.

Delivery: With clamping screw

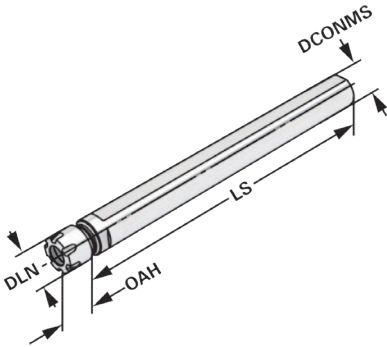


Collet chucks with straight shank with Mini nuts

ISO 15488 (DIN 6499) System ER



Application:
For mounting straight-shank tools in collets.



Order no.	DCONMS	DCONWS	Typ	LS	OAH	DLN	DRVS	CND	THID
ACE-02-07	16	1 – 07	4008E ER 11	150	20	16	13	7	M8 x 1,25
ACE-02-10-1	20	1 – 10	426E ER 16	150	30	22	17	10	7/16" 20 UNF

Through hole for internal cooling provided.

Delivery: With balanced clamping nut

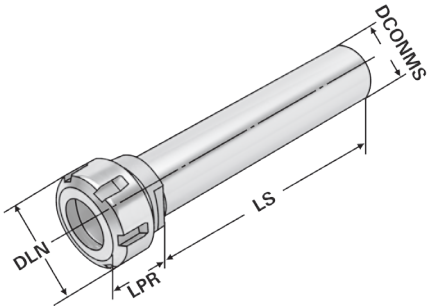


Collet chucks with straight shank for collets

ISO 15488 (DIN 6499) ER-system



Application:
For mounting straight-shank tools in
collets.



Order no.	DCONMS	DCONWS	Typ	LS	LPR	DLN	oAL	DRVS	CND	THID
ACE-02-10	16	1 – 10	426E ER 16	143	30	32	180	19	9	M10 x 1,5
ACE-02-16	20	1 – 16	430E ER 25	140	40	42	190	27	11	M12 x 1,5
ACE-02-20	32	2 – 20	470E ER 32	150	35	50	191	32	19	M20 x 1,5

Through hole for internal cooling provided.

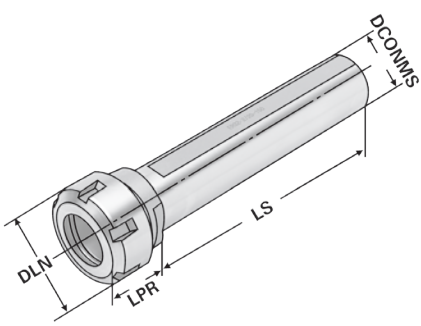
Delivery: With balanced clamping nut



Collet chucks with straight shank with clamping surface
for collets ISO 15488 (DIN 6499) ER-system



Application:
For mounting straight-shank tools in
collets.



Order no.	DCONMS	DCONWS	Typ	LS	LPR	dLN	dRVS	cND	THID
ACE-02-04-10	16	1 – 10	426E ER 16	150	30	32	19	9	M10 x 1,5
ACE-02-04-16	20	1 – 16	430E ER 25	150	40	42	27	11	M12 x 1,5
ACE-02-04-20	32	2 – 20	470E ER 32	150	35	50	32	19	M20 x 1,5
ACE-02-04-20-1	40	2 – 20	470E ER 32	120	35	50	36	19	M20 x 1,5

Through hole for internal cooling provided.

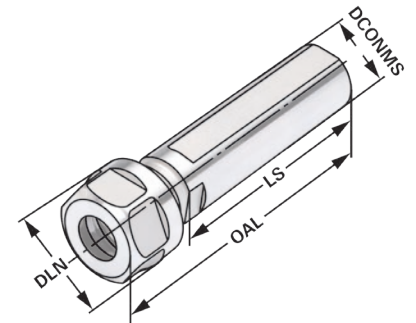
Delivery: With balanced clamping nut

Collet chucks with straight shank for collets

ISO 15488 (DIN 6499) ER-system



Application:
For mounting straight-shank tools in
collets.



Order no.	DCONMS	DCONWS	Typ	DLN	LS	OAL	DRVS	CND	THID
ACE-02-A-07	20	1 – 07	4008E ER 11	19	50	67,6	17	7	-
ACE-02-A-07-1	20	1 – 07	4008E ER 11	19	70	87,1	17	7	-
ACE-02-A-10	20	1 – 10	426E ER 16	28	70	96,0	17	10	7/16" 20 UNF
ACE-02-A-13	25	1 – 13	428E ER 20	34	50	77,5	22	13	9/16" 18 UNF

Hexagonal clamping nut

Through hole for internal cooling provided.

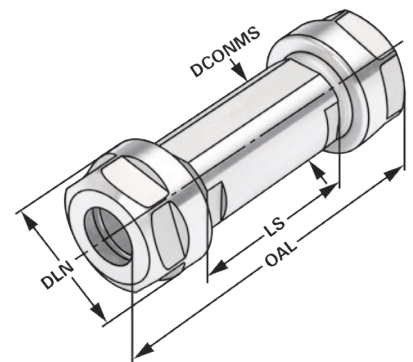
Double collet holder with straight shank for collets

ISO 15488 (DIN 6499) ER-system

10



Application:
For mounting straight-shank tools in
collets.



Order no.	DCONMS	DCONWS	Typ	DLN	LS	OAL	DRVS	CND	THID
ACE-02-B-13	25	1 – 13	428E ER 20	34	50	98,0	22	13	-

Through hole for internal cooling provided.

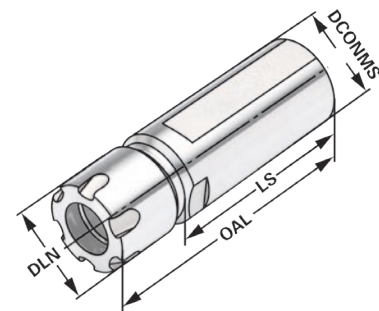
Hexagonal clamping nut

Collet chucks with straight shank with Mini nuts

ISO 15488 (DIN 6499) System ER



Application:
For mounting straight-shank tools in collets.



Order no.	DCONMS	DCONWS	Typ	DLN	LS	oAL	DRVS	cnD	THID
ACE-02-C-10	22	1 – 10	426E ER 16	22	50	76,1	20	10	7/16" 20 UNF

With mini nut

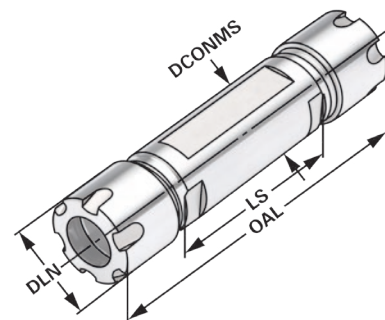
Through hole for internal cooling provided.

Double collet holder with straight shank with Mini nuts

ISO 15488 (DIN 6499) System ER



Application:
For mounting straight-shank tools in collets.



Order no.	DCONMS	DCONWS	Typ	DLN	LS	oAL	DRVS	cnD	THID
ACE-02-D-10	20	1 – 10	426E ER 16	22	70	122,2	17	10	-

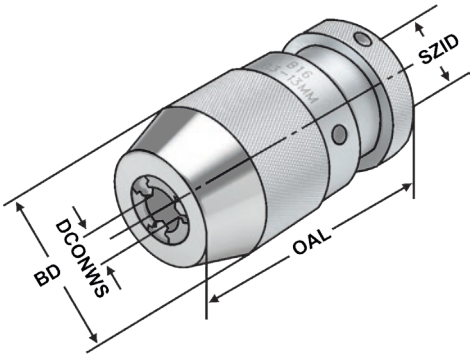
Through hole for internal cooling provided.

With mini nut

Precision rapid clamping drill chucks for drill chuck adaptors DIN 238



Application:
For mounting tools with straight shanks.



Order no.	SZID	DCONWS Capacity	BD	OAL
ACD-04-08-B12	B12	0,3 - 8	37	80
ACD-04-13-B16	B16	0,5 - 13	50	95,5
ACD-04-16-B16	B16	3,0 - 16	50	103,5

Note: Keyless, self-clamping

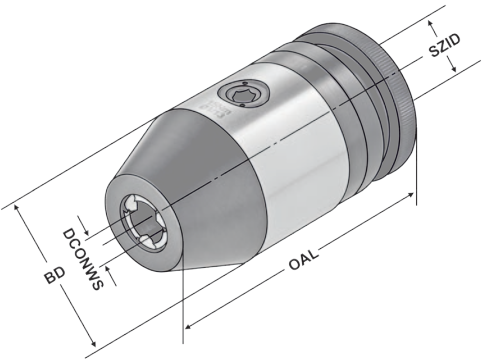
Delivery: Without wrench



CNC-Drill chucks for drill chuck adaptors DIN 238



Application:
For mounting tools with straight shanks.



Order no.	SZID	DCONWS Capacity	BD	OAL	DRVS
ACD-05-08-B12	B12	0,3 – 8	37	84,2	4
ACD-05-13-B16	B16	1,0 – 13	50	106	6
ACD-05-16-B16	B16	2,5 – 16	50	114	6

Note: *High precision and accurate concentricity of ≤ 0.03 mm. No automatic slackening of the clamping force while machining with either clockwise or counter clockwise rotation or on spindle stop. Clamping and releasing effected by means of an Allen wrench.*

Delivery: Without wrench

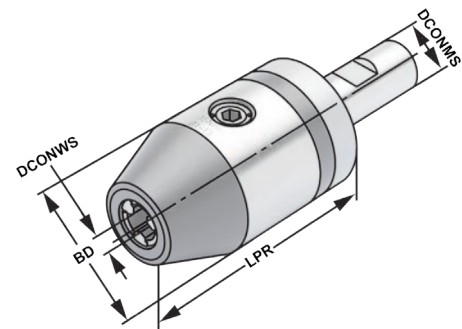
Through hole for internal cooling provided.



CNC-Drill chucks with straight shank DIN 1835 B



Application:
For mounting tools with straight shanks.



Order no.	DCONMS	DCONWS Capacity	LPR	BD	oAL	DRVS
ACD-15-2013	20	1,0 – 13	82,3	50	144	6
ACD-15-2016	20	2,5 – 16	87,5	50	149	6

Note: *High precision and accurate concentricity of ≤ 0.03 mm. No automatic slackening of the clamping force while machining with either clockwise or counter clockwise rotation or on spindle stop. Clamping and releasing effected by means of an Allen wrench.*

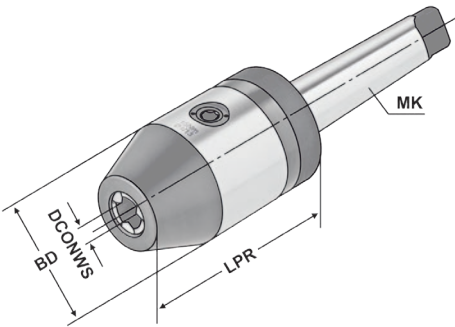
Delivery: Without wrench



CNC-Drill chucks for MT



Application:
For mounting tools with straight shanks.



DIN
228

Form
B

≤30µm

Ch. 11

Order no.	MK MT CM	DCONWS Capacity	LPR	BD	DRVS
MK-07-15-313	3	1,0 – 13	98	50	6
MK-07-15-316	3	2,5 – 16	103	50	6
MK-07-15-413	4	1,0 – 13	100	50	6
MK-07-15-416	4	2,5 – 16	105	50	6

Note: *High precision and accurate concentricity of ≤ 0.03 mm. No automatic slackening of the clamping force while machining with either clockwise or counter clockwise rotation or on spindle stop. Clamping and releasing effected by means of an Allen wrench.*

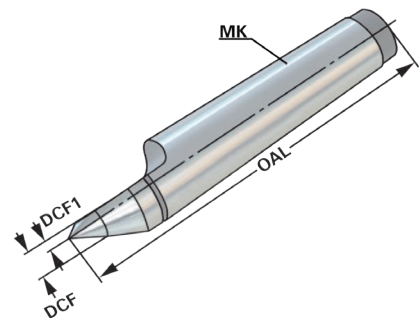
Delivery: Without wrench



Solid half point with carbide insert - DIN 806 HE 60°



Application:
For front surfacing and small diameters.

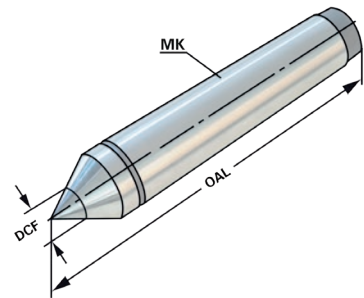


Order no.	MK	DCF1	DCF	oAL
SLC-11-01	1	1,5	5,5	80
SLC-11-02	2	2	6	100
SLC-11-03	3	3	9	125
SLC-11-04	4	5	12,5	160
SLC-11-05	5	7	16	200

Solid lathe centre with carbide insert - DIN 806 E 60°



Application:
For front surfacing and small diameters.

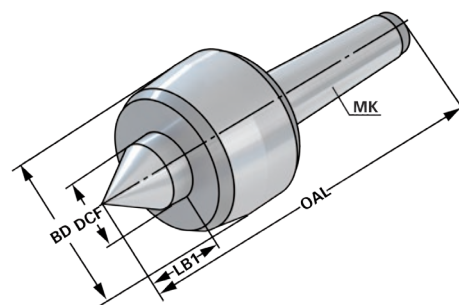


Order no.	MK	DCF	OAL
SLC-12-01	1	8	80
SLC-12-02	2	8	100
SLC-12-03	3	12	125
SLC-12-04	4	15	160
SLC-12-05	5	18	200

Revolving lathe centre 60°



Application:
In the tailstock of the lathe so that no friction occurs between the workpiece and the tip.

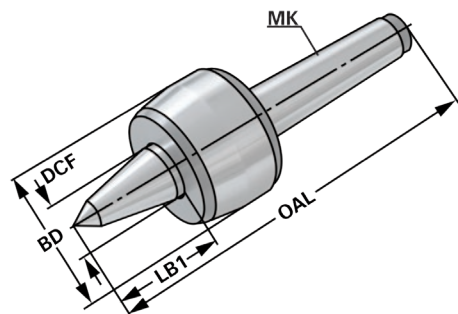


Order no.	MK	OAL	BD	LB1	DCF	Max. Speed	Max. kg Work piece
SLC-14-01	1	114	36	17	15	7000	100
SLC-14-02	2	129	45	24	20	7000	200
SLC-14-03	3	151,5	50	27,5	22	5000	500
SLC-14-04	4	205	70	41	32	3800	800
SLC-14-05	5	258,5	90	51	40	3000	2000

Revolving lathe centre with extended point 60°



Application:
In the tailstock of the lathe so that no friction occurs between the workpiece and the tip.



Order no.	MK	OAL	BD	LB1	DCF	Max. Speed	Max. kg Work piece
SLC-13-02	2	139	45	34	20	7000	140
SLC-13-03	3	176,5	60	47	25	5000	400
SLC-13-04	4	217	70	53	32	3800	500
SLC-13-05	5	273	90	65	40	3000	1200

Set of parallel supports



Application:

Parallels are widely used as a tool for tensioning and positioning, e.g. during grinding, milling, EDM, gauging and scribing.

Order no.	Version
O-12-150-1	14 x 2 - 150 x 10 x 14 (16,18,20,22,24,26,28,30,32,35,40,45,50)
O-12-150-2	14 x 2 - 150 x 8 x 14 (16,18,20,22,24,26,28,30,32,35,40,45,50)
O-12-200-3	14 x 2 - 200 x 10 x 14 (16,18,20,22,24,26,28,30,32,35,40,45,50)
O-13-100-1	9 x 2 - 100 x 4 x 10 (14,18,22,26,30,34,38,42)

Hardness: *HRC 55 - 62*

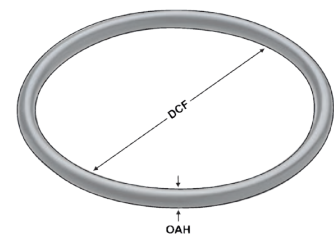
Accuracy: *0,01mm*

Parallelism: *0,005mm*

O-ring for end mill holder with coolant channels



Application:
End mill holders with cooling channels
DIN 6359 for Weldon type end mills DIN 1835-B

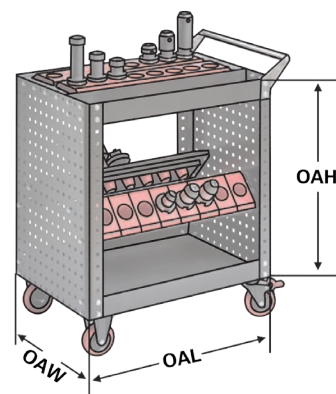


Order no.	DCF	OAH
AC-01-04-06.1	5,8	1,9
AC-01-04-08.1	7,8	1,8
AC-01-04-10R	9,8	2,4
AC-01-04-12.1	11,8	2,4
AC-01-04-14.1	13,8	2,4
AC-01-04-16.1	15,8	2,4
AC-01-04-18.1	17,8	2,4
AC-01-04-20.1	19,8	2,4
AC-01-04-25.1	24,7	3,5
AC-01-04-32.1	31,7	3,5
AC-01-04-40.1	39,7	3,5

Trolley for CNC toolholders incl. tool carrier and inserts System 1



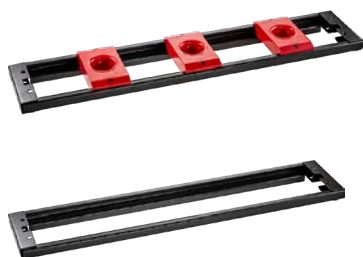
Application:
The optimal storage and save transport of CNC tools.



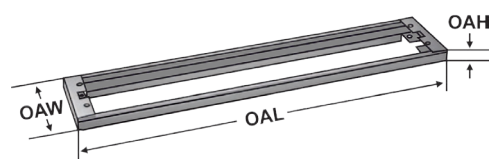
Order no.	Version	Inserts	OAL	OAW	OAH
TC1-01-30	SK 30	36	873	500	810
TC1-01-40	SK 40	32	873	500	810
TC1-01-50	SK 50	24	873	500	810
TC1-02-63	HSK 63	28	873	500	810

CNC-tool carrier as extension (without inserts)

10



Application:
The optimal storage of CNC tools.

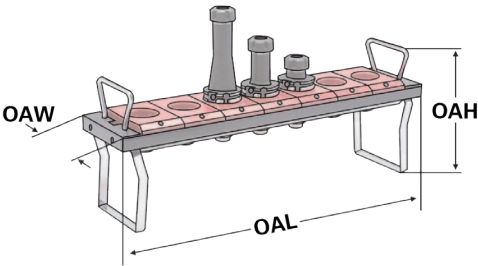


Order no.	Version	OAL	OAW	OAH
TC-Z-01	suitable for 784.*	705	145	25

Stand for CNC toolholders incl. inserts System 1



Application:
The optimal storage of CNC tools.

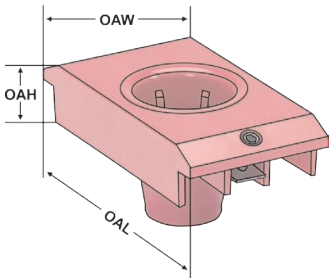


Order no.	Version	Inserts	OAL	OAW	OAH
TC2-01-30	SK 30	8	595	143	175
TC2-01-40	SK 40	7	595	143	175
TC2-01-50	SK 50	5	595	143	175
TC2-02-63	HSK 63	6	595	143	175

CNC-inserts



Application:
The optimal storage of CNC tools.



10

Order no.	Version	OAL	OAW	OAH
TC3-01-30	SK 30	137	74	30
TC3-01-40	SK 40	137	74	30
TC3-01-50	SK 50	137	74	30
TC3-02-63	HSK 63	137	74	30

Torx® clamping screw



Order no.	Size	THOD	HDD	THLGTH
K-101-TX8	TX8			
K-101-TX15	TX15			
K-101-TX20	TX20			

Torx® screwdriver



Order no.	Size
K-02-TX8	TX8
K-02-TX15	TX15
K-02-TX20	TX20

Tool parameters according to ISO 13399

This catalogue has been prepared in accordance with ISO 13399 „Cutting tool data representation and exchange“ to enable easy handling of tool and product data, even for customers who are not yet familiar with KEMMLER products.

Boring bars

ISO 13399	English
DCONMS	Mounting spigot diameter
WF	Functional width
OAL	Overall length
LDRED	Reduced body diameter length
DMIN	Minimum bore diameter
TQX	Torque maximum

HSS-E spiral flute taps for multi-purpose ISO metric fine threads for through holes

ISO 13399	English
TD	Thread diameter range
TP	Thread pitch
OAL	Overall length
THL	Thread cutting part length
DCONMS	Mounting spigot diameter
DRVS	Drive size
PHD	Premachined hole diameter
TCTR	Thread tolerance class
LU	Usable length

10

Pull stud / retention knob

ISO 13399	English
CRKS	Connection retention knob thread size
OAL	Overall length
LF	Functional length
LB	Body length
BD	Body diameter
CND	Coolant entry diameter
BHTA	Body half taper angle
DRVS	Drive size
TQX	Torque maximum

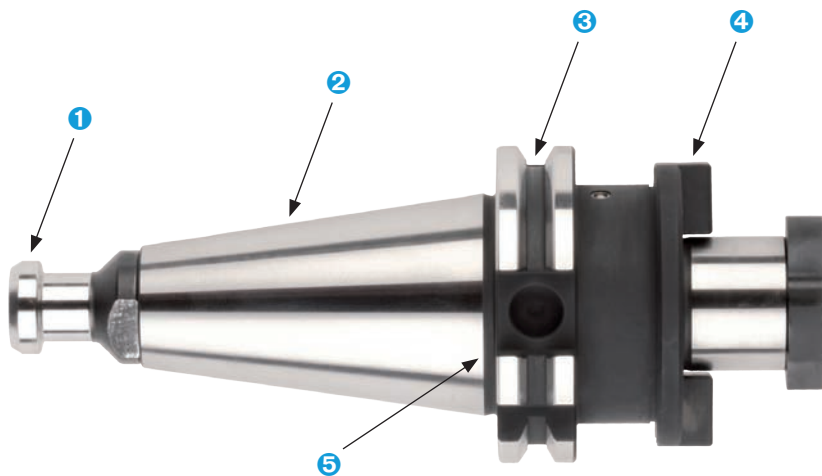


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Steep Taper

Large manual machines and CNC machines use toolholders that have been precisely ground with a male taper that mates with the machine's specific female taper. There is also a way to secure the toolholder in place with a pull stud or a draw bar thread. With CNC machines, the pull stud is more popular because it allows for easier automatic tool changing.

A toolholder consists of five basic components:



- ❶ Pull Stud
- ❷ Tapered Shank
- ❸ Gripper groove: circular groove
- ❹ Adapter
- ❺ Opposed Slot

Tapered shank

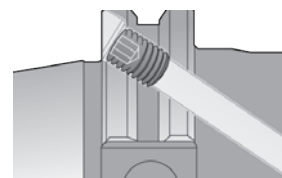
The standard defines six basic taper shank sizes including SK 30, SK 35, SK 40, SK 45, SK 50, and SK 60.

The proper Taper Shank for the Type of Machine

- ISO 60 Very large machines
- ISO 50 Medium size machines
- ISO 40 Small size machines
- ISO 30 Very small machines

Coolant supply form AD/B

Toolholders form AD/B have internal coolant supply. To use form B (coolant supply through the collar) the two headless screws must be removed and a sealed pull stud must be inserted. To use form AD (central coolant supply) the two headless screws must remain at the collar and a pull stud with drill through must be inserted.



Pull studs

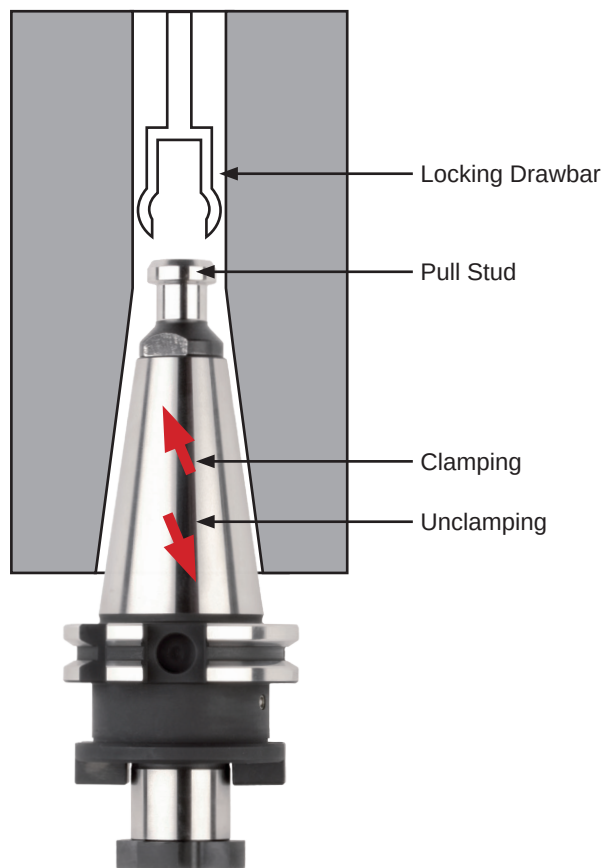
Pull studs are an important link between machine and tool. The tightening bolt allows the clamping gripper of the spindle to pull the tool holder firmly into the spindle and eject it automatically.

Pull studs / Retention knobs come in different designs and sizes. They are not interchangeable. In addition to the pull studs according to DIN ISO 7388-3 (formerly DIN 69872), there are a variety of factory standards specified by the respective machine tool manufacturer.

Application:

- For tools with steep taper shank ISO 7388-1 and ISO 7388-2 [formerly DIN 69871 and JIS B 6339 (MAS-BT)]
- In machining centres (machines with automatic tool changer)
- In NC machines (machines without automatic tool changer)
- For tools with axial coolant supply
- For tools with or without axial coolant supply

Only use the pull studs that are specified by the machine tool manufacturer.



Recommended torque for pull stud tightening:

SK/BT/ISO 30	20 Nm
SK/BT/ISO 40	50 Nm
SK/BT/ISO 50	100 Nm



Normative references:

- DIN ISO 7388 consists of the following parts, under the general title Tool shanks with 7/24 taper for automatic tool changers:
- Part 1: Dimensions and designation of shanks of forms A, AD, AF, U, UD and UF
 - Part 2: Dimensions and designation of shanks of forms J, JD, and JF
 - Part 3: Retention knobs for shanks of forms AC, AD, AF, UC, UD, UF, JD, and JF

DIN ISO 7388-3

Tool shanks with 7/24 taper for automatic tool changers –
Part 3: Retention knobs for shanks of forms AC, AD, AF, UC, UD, UF, JD and JF (ISO 7388-3:2013), English translation of DIN ISO 7388-3:2015-03

DIN ISO 7388-3 is a replacement for DIN 69872:1988-07

HSK (hollow taper shanks)

HSK-toolholders DIN 69893

The hollow taper shank (HSK) has prevailed since its standardization as an interface between machine and tool.

HSK benefits to the user include:

- High static and dynamic rigidity
- High precision axial and radial reproducibility
- High tool change accuracy and repeatability
- High speed machining performance
- Short tool changing times
- Coding and identification
- Coolant feed

Balancing recommendations and r.p.m. limits

Konrad tools HSK-toolholders are generally pre-balanced to G 6.3/15,000 rev./min.

Fine balancing on request is possible.

Because the rotational speed is the largest influencing factor together with the limits regarding the spindle or spindle bearing interface, the following r.p.m. limits for HSK interfaces have been recommended as guidelines within the HSK standards:

HSK-A/C 32 to 30,000 rev./min

HSK-A/C 40 to 30,000 rev./min

HSK-A/C 50 to 30,000 rev./min

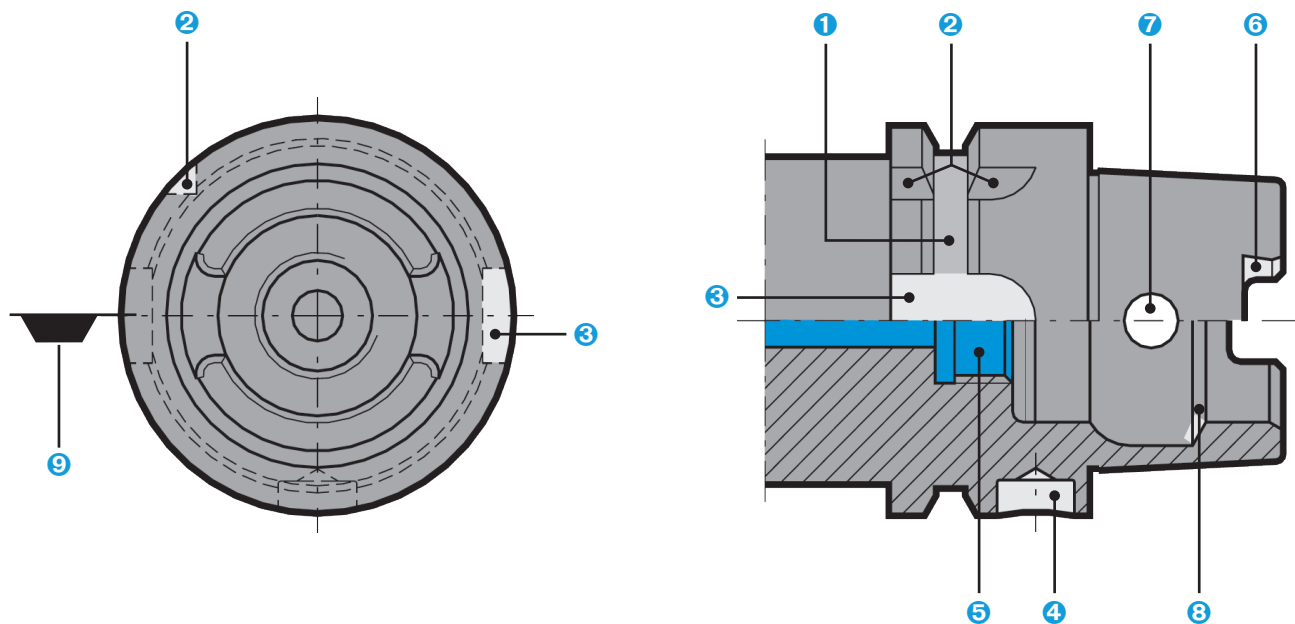
HSK-A/C 63 to 25,000 rev./min

HSK-A/C 80 to 20,000 rev./min

HSK-A/C 100 to 16,000 rev./min

Depending on the tool, it may be necessary to balance both the tool holder and tool when applying the maximum r.p.m. Exact limits can only be determined if machine and spindle manufacturers are taken into consideration and it is possible to define tools and projecting lengths.

HSK (hollow taper shanks)



Term definitions of HSK-A interface for automatic tooling systems

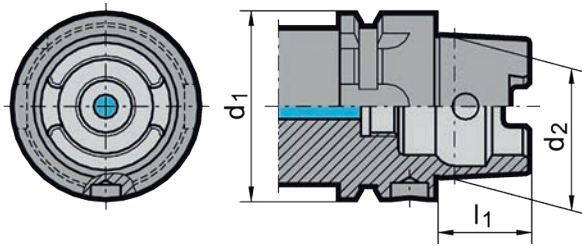
- ❶ Gripper groove: circular groove
- ❷ Index notch: sickle-shaped notch across gripper groove
- ❸ Keyway on collar:
index notch or for attachment in tool magazine or grippers.
With HSK-B/D also provides form closed torque transmission to spindle.
- ❹ Coding/identification:
bore in collar for attachment of identification system (coding chip)
- ❺ Thread for coolant: for attachment of coolant supply set
- ❻ Keyway on taper shank: form closed torque transmission to spindle
- ❼ Radial bore in taper shank: necessary for manual clamping systems
- ❽ Clamping shoulder: circular chamfer for drawing in the tool
- ❾ Position of the tool edge of single-edged tools

Overview HSK (hollow taper shanks)

DIN 69063-1 (ISO 12164-1) Form A

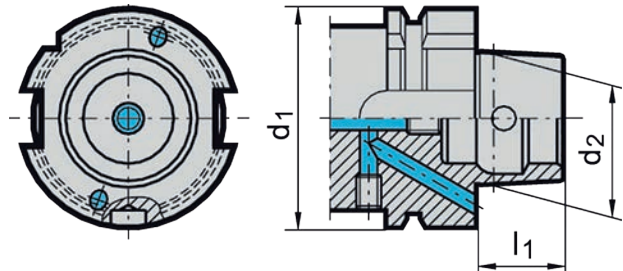
Standard type for machining centres and milling machines.

HSK for automatic tool change with gripper groove and index notch. Manual operation is via access hole in taper. Form B relies on driving dogs on the joint face as shank isn't slotted. Torque is transmitted through highly accurate connection.



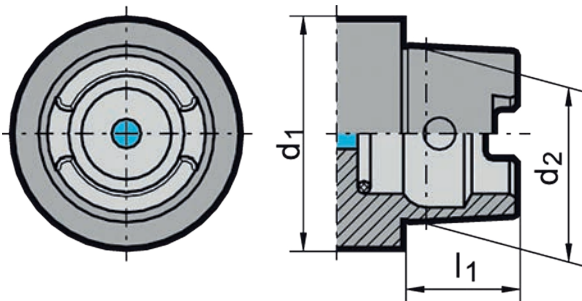
DIN 69063-2 (ISO 12164-1) Form B

For machining centres, milling and turning machines. With enlarged flange size for rigid machining. For automatic tool change. Coolant supply through the flange. Drive keys at the flange. Hole for data carrier DIN STD 69873 at the flange.



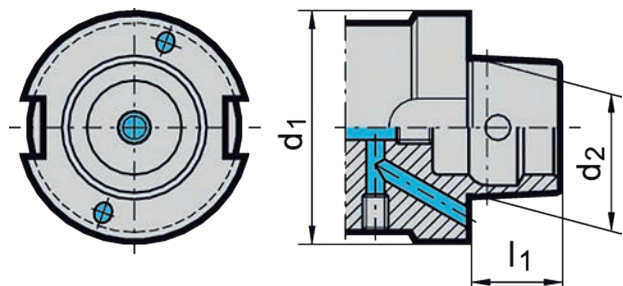
DIN 69063-1 (ISO 12164-1) Form C

For transfer lines, special machines and modular mould systems. Hollow shank taper for manual tool change. Actuation via access hole in the taper. As all Form A holders are equipped with side holes for manual tool changes, they can also be used as Form C holders. The torque is transmitted positively and non-positively.



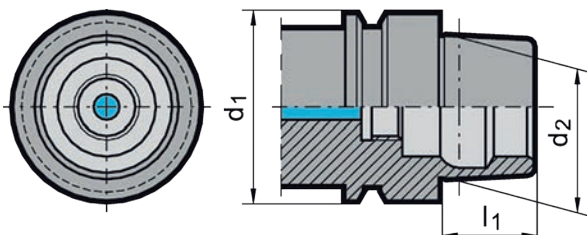
DIN 69063-2 (ISO 12164-2) Form D

For special machines. With enlarged flange size for rigid machining. For manual tool change. Coolant supply through the flange. Drive keys at the flange.



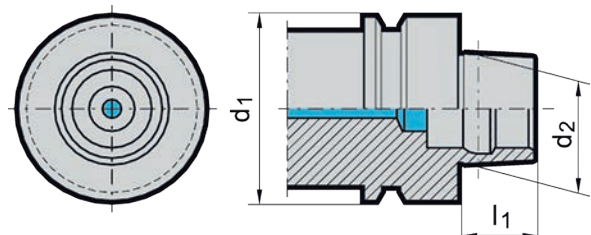
DIN 69063-5 Form E

For high-speed applications. For automatic tool change. HSK for automatic tool change. Torque is transmitted through highly accurate connection. Version with access hole acc. to DIN 69893-1 by arrangement.



DIN 69063-6 Form F

For high-speed applications mainly in woodworking industries. HSK for automatic tool change. Torque is transmitted through highly accurate connection. Version with access hole acc. to DIN 69893-1 by arrangement.



HSK coolant tubes

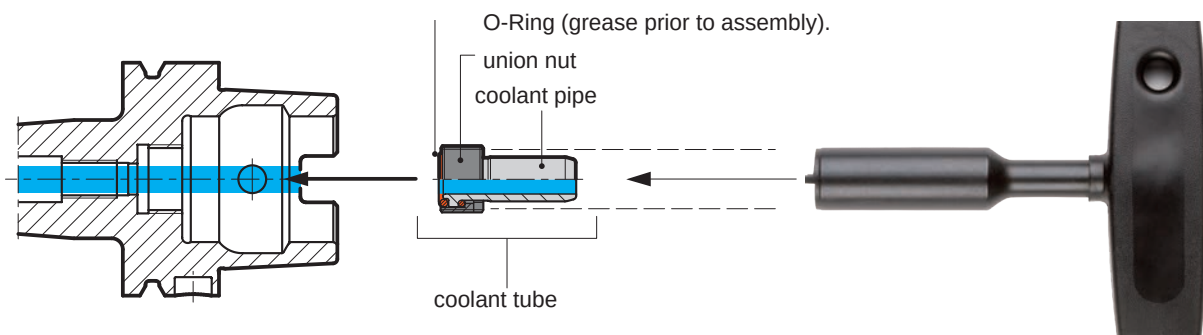
HSK form A, -B or -D holders must be equipped with a coolant tube.

Using holders without a coolant tube could cause unseen machine spindle damage.

DIN 69893 Form C, -E and -F do not require a coolant tube. Through coolant and sealing functions are provided by the locking unit.

The coolant tube is ideally mounted in vertical direction – from the bottom to the top. In this manner the sealing ring is prevented from being compressed during location which would cause the loss of its sealing function.

After mounting, the coolant pipe can be moved only to a minimum degree according to DIN ($\pm 1^\circ$).



Installation

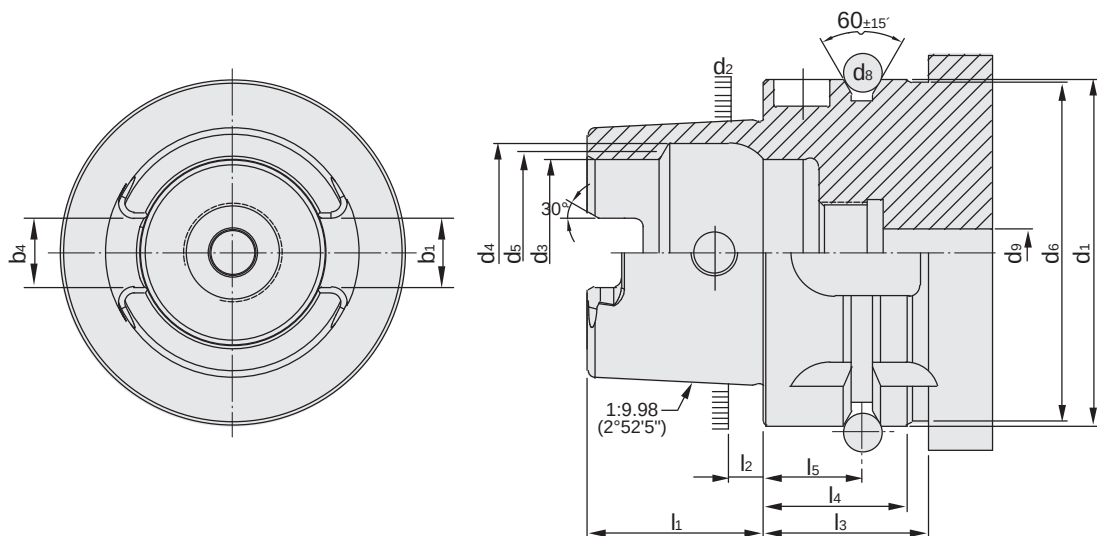
1. The HSK holder must be clean, free of swarf and undamaged.
2. Grease the O-rings prior to assembly.
3. Centrally insert the complete coolant tube (coolant pipe, union nut and 2 O-rings) in the HSK with the assistance of the socket spanner.
4. Screw in the coolant tube and tighten (see table for torque figures)
5. Check coolant pipe for radial mobility.

Torque figures

Cooling lubricant pipe with threaded bushing for hollow taper shafts to ISO 22402-1 (formerly DIN 69895)

Size / Typ	TQX (torque)
HSK 32	7 Nm
HSK 40	11 Nm
HSK 50	15 Nm
HSK 63	20 Nm
HSK 80	25 Nm
HSK 100	30 Nm

Toolholders ISO-12164-3 (HSK-T)



HSK	d_1	d_2	d_3	d_4	d_5	d_6	d_8	d_9	l_1	l_2	l_3	l_4	l_5	b_1	b_2	b_4
	h10		H10	H11		max		max	$\begin{smallmatrix} 0 \\ -0,2 \end{smallmatrix}$		min	$\begin{smallmatrix} 0 \\ -0,1 \end{smallmatrix}$	$\pm 0,1$	$\pm 0,04$	H10	$\begin{smallmatrix} +0,03 \\ 0 \end{smallmatrix}$
32	32	24,007	17	20,5	19	31	4	4,2	16	3,2	23	20	16	7,05	7	9
40	40	30,007	21	25,5	23	39	4	5	20	4	23	20	16	8,05	9	11
50	50	38,009	26	32	29	49	7	6,8	25	5	30	26	18	10,54	12	14
63	63	48,010	34	40	37	62	7	8,4	32	6,3	30	26	18	12,54	16	18
80	80	60,012	42	50	46	79	7	10,2	40	8	30	26	18	16,04	18	20
100	100	75,013	53	63	58	99	7	12	50	10	34	29	20	20,02	20	22

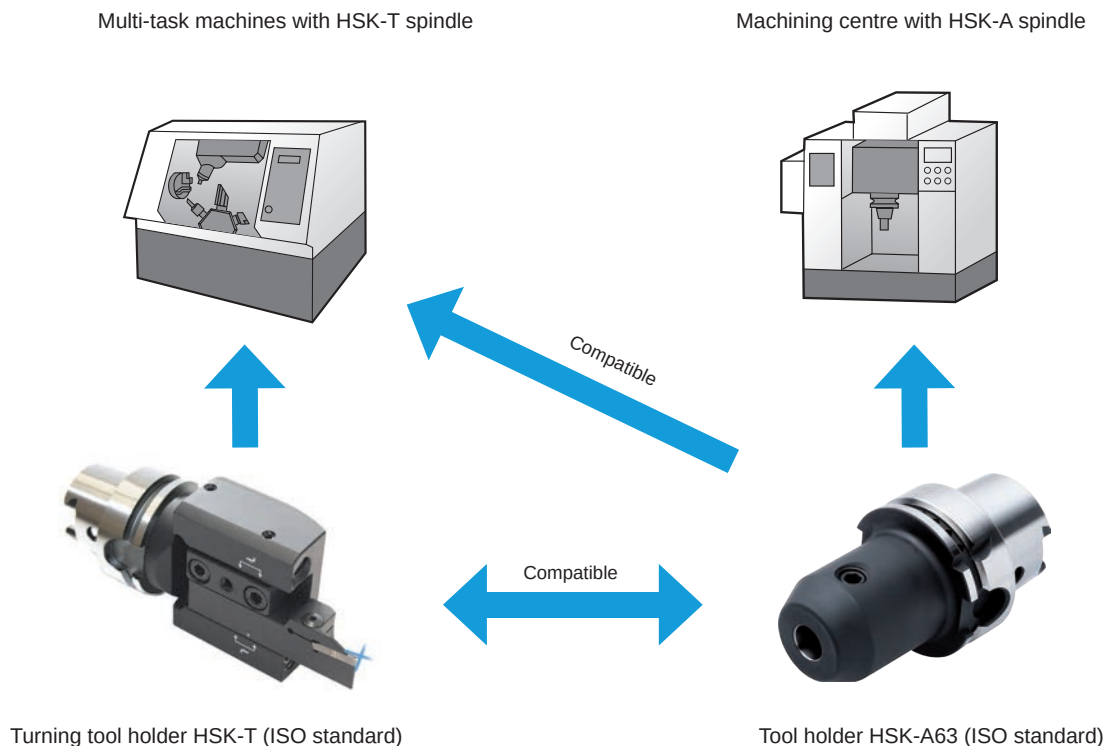
Material: Alloyed case-hardened steel, tensile core strength of min. 1000 N/mm².
Case hardened HRC 60 ± 2 (HV 700 ± 50), hardening depth 0.8 mm ± 0.2 mm,
black-finished and precisely grinded.

Normative references:

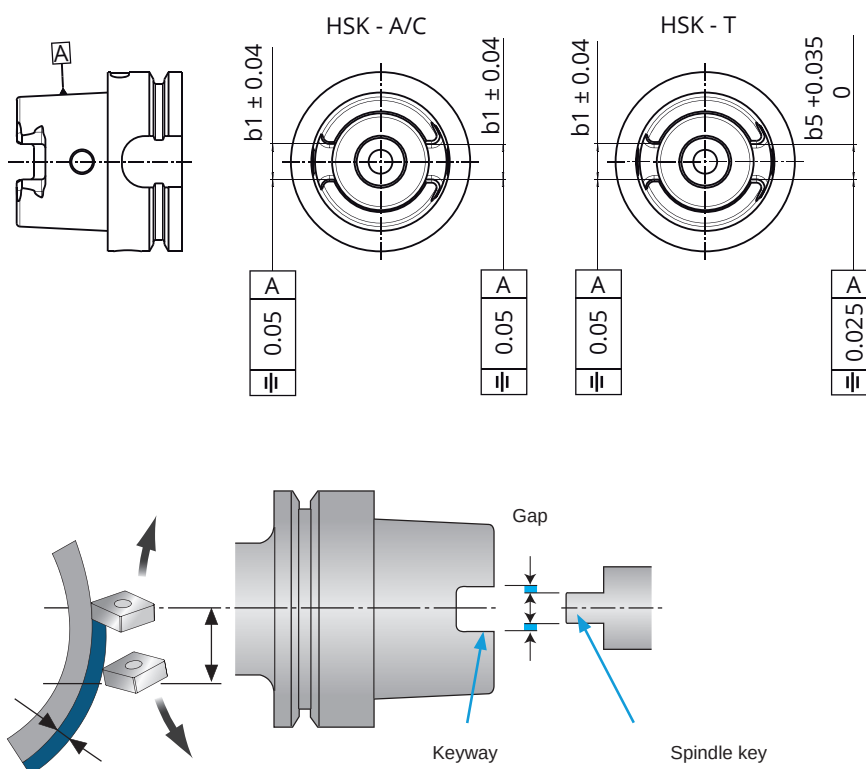
ISO 12164-3:2014-12 [CURRENT]
Hollow taper interface with face contact -
Part 3: Dimensions of shanks for stationary tools

Toolholders ISO-12164-3 (HSK-T)

The HSK-T (T = Turning) standard was specially developed for the use of stationary tools on lathes. Compared to the other HSK variants, the driver play is restricted and the influence on the position of the cutting edge is minimised. In addition, it is possible to accommodate driven tools on the HSK-T space without having to make any modifications to the turret.

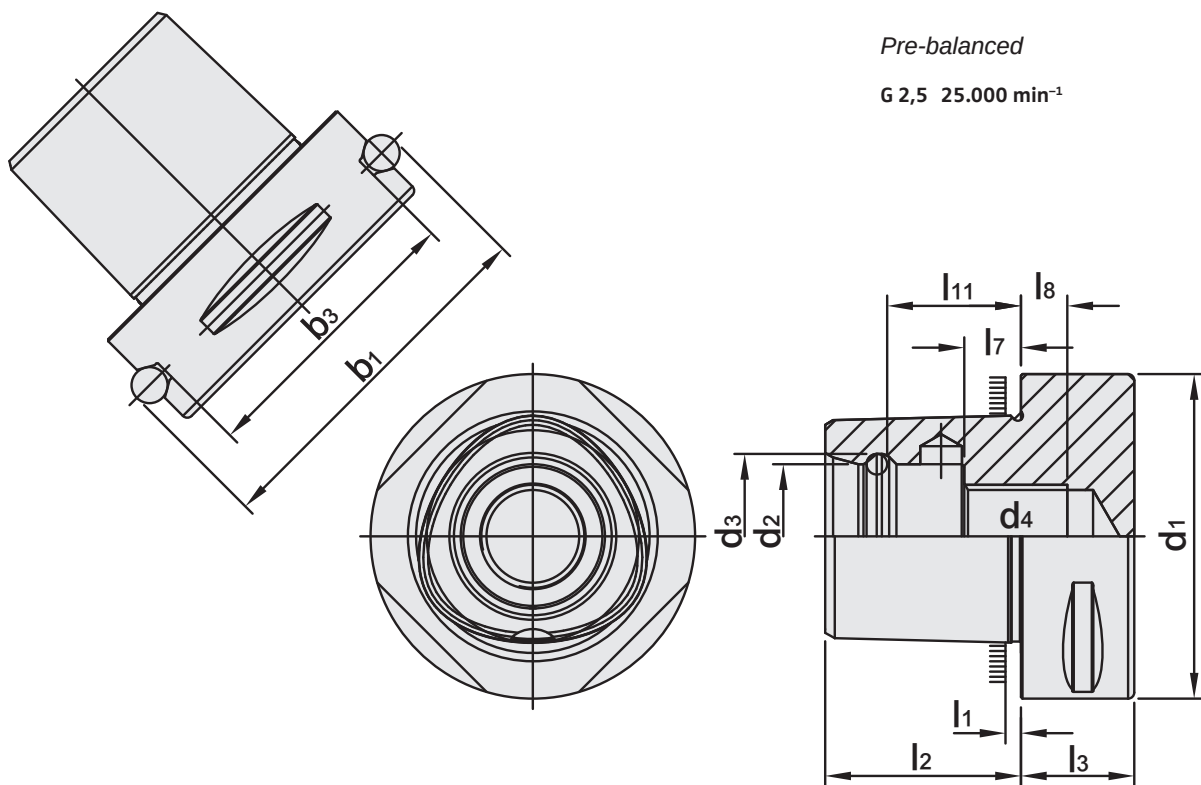


Improved keyway tolerance according to ICTM standard



The gap causes variant cutting diameters. Example at $\varnothing 50$.
 HSK63T=3 μ m - HSK63A=14 μ m

Toolholders with polygonal shank ISO 26623-1



PSK	b ₁ ±0,1	b ₃ ±0,1	d ₁ ±0,1	d ₂ +0,1 -0,05	d ₃ ±0,05	d ₄	l ₁	l ₂ ±0,1	l ₃ min	l ₇ ±0,15	l ₈ min	l ₁₁ ±0,1
32	39,0	27,9	32	15	16,5	M12 x 1,5P	2,5	19	15	6	6	13,5
40	46,0	34,9	40	18	20,0	M14 x 1,5P	2,5	24	20	9	6	17,5
50	59,3	44,0	50	21	24,0	M16 x 1,5P	3	30	20	10	7	22,0
63	70,7	55,4	63	28	32,0	M20 x 2,0P	3	38	22	11	9	26,0
80	86,0	70,7	80	32	38,0	M20 x 2,0P	3	48	30	20	10	34,0
100	110,0	88,3	100	43	50,5	M24 x 2,0P	3	60	32	20	10	42,5

Material: Alloyed case-hardened steel, tensile core strength of min. 950 N/mm².
Case hardened HRC 60 ± 2 (HV 700 ± 50), hardening depth 0.8 mm ± 0.2 mm,
black-finished and precisely grinded.

Normative references:

ISO 26623-1:2020
Polygonal taper interface with flange contact surface
- Part 1: Dimensions and designation of shanks
- Part 2: Dimensions and designation of receivers

Technical Information for Polygon Shank Adapters

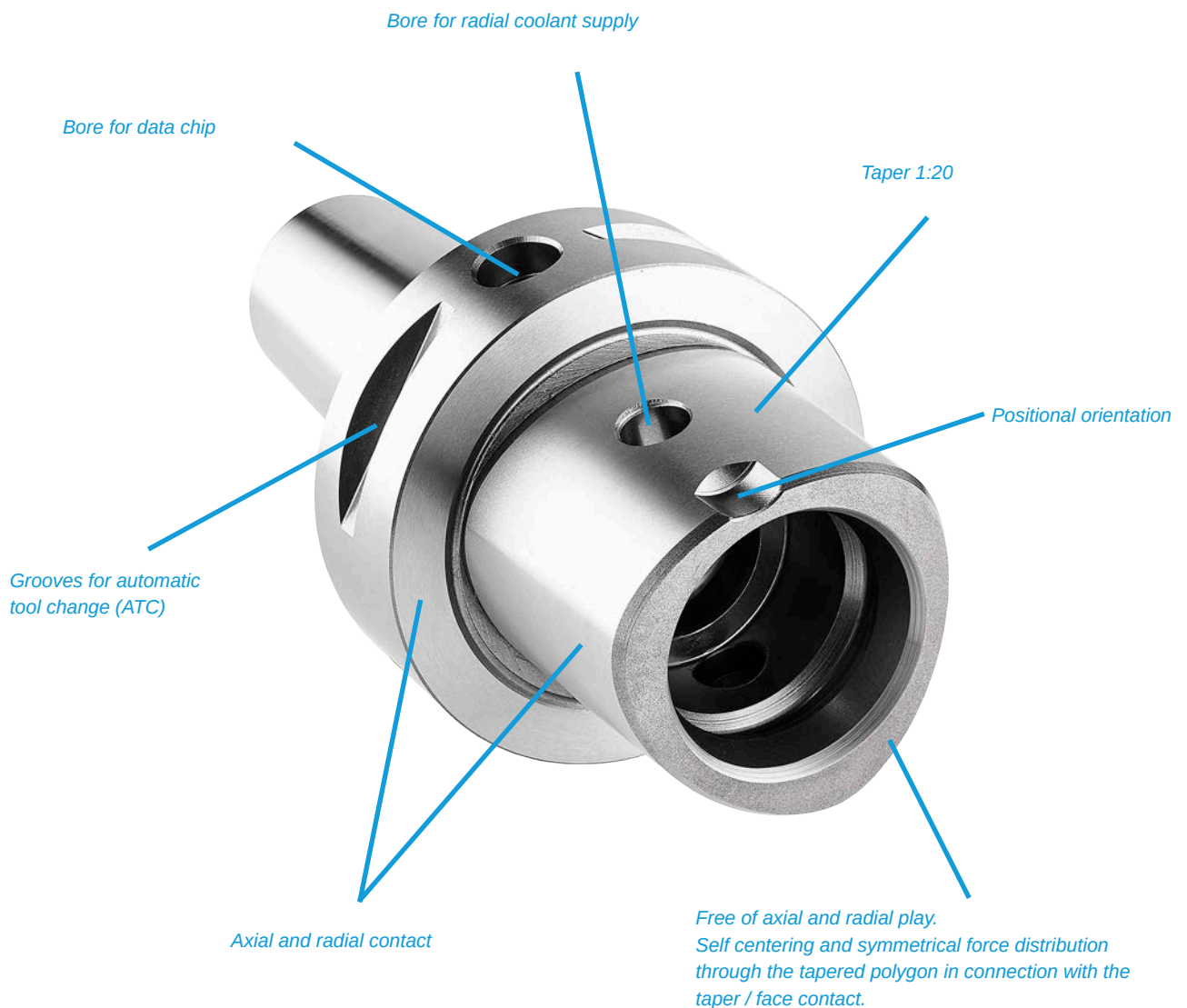
In 1990 (patent application 1988), Sandvik Coromant presented a polygonal hollow shank taper with face contact under the brand name Coromant Capto®, developed for all types of application - turning, milling and drilling.

Then standardised in 2008 as the ISO/DIS 26623 standard for 'Polygonal taper interfaces with a flange contact surface' [ISO 26623-1:2008]. The standard previously covered flange sizes 32 to 80 (C3 to C8) and was extended in July 2013 to include polygonal shank size 100 (C10) [ISO 26623-1:2014]. In ISO 26623-1:2020-11, fluid transfer units for tool interfaces according to ISO 22402-2:2022-02 were added.

The tapered polygon in conjunction with the tight tolerance provides backlash-free centering also acts as pull back. The PSC cone has very high rigidity and bending strength. The main advantages of this interface are the transmittable torque stability, the resistance against radial forces acting on the tool and the exact center height.

This means high feed rates can be achieved on large material cross sections.

The PSC interface is ideally suited for all machining operations such as drilling, turning and milling.



Effects of imbalance on machine spindles, toolholders and tools

Imbalance

An imbalance produces a centrifugal force during the rotation of the spindle impeding the smooth running of the tool. This imbalance influences the working process and the life span of the spindle bearings.

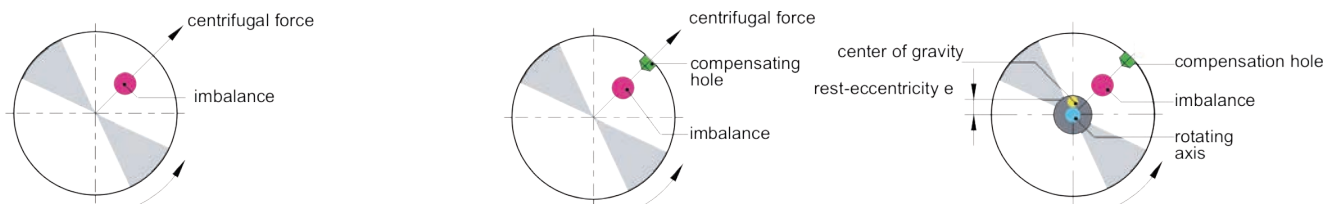
The centrifugal force F increases linear with the imbalance U and squared with the number of revolutions according to the formula below.

Counter balancing

To compensate for unwanted centrifugal forces, the symmetrical distribution of mass must be restored with the aim of eliminating any centrifugal forces influencing the spindle bearing. Tool holders generally have compensation holes or areas which assist in directing the total amount of all centrifugal forces influencing the axis towards zero (see DIN ISO 1940).

Eccentricity of center of gravity

The imbalance of a spindle causes its center of gravity to deviate a certain distance from the rotating axis in direction of the imbalance. This distance is called rest-eccentricity e or eccentricity of center of gravity. The heavier the weight of the balance body mass m , the greater the restimbalance U permissible.



Calculation imbalance

Imbalance is a measure, specifying how much unsymmetrical distributed mass deviates radially from the rotating axis. Imbalance is measured in gmm. The measure of distance e determines the distance of the center of gravity of an element to the rotating axis.

Imbalance is calculated as follows:

$$U = m \times r$$

U = imbalance in gmm

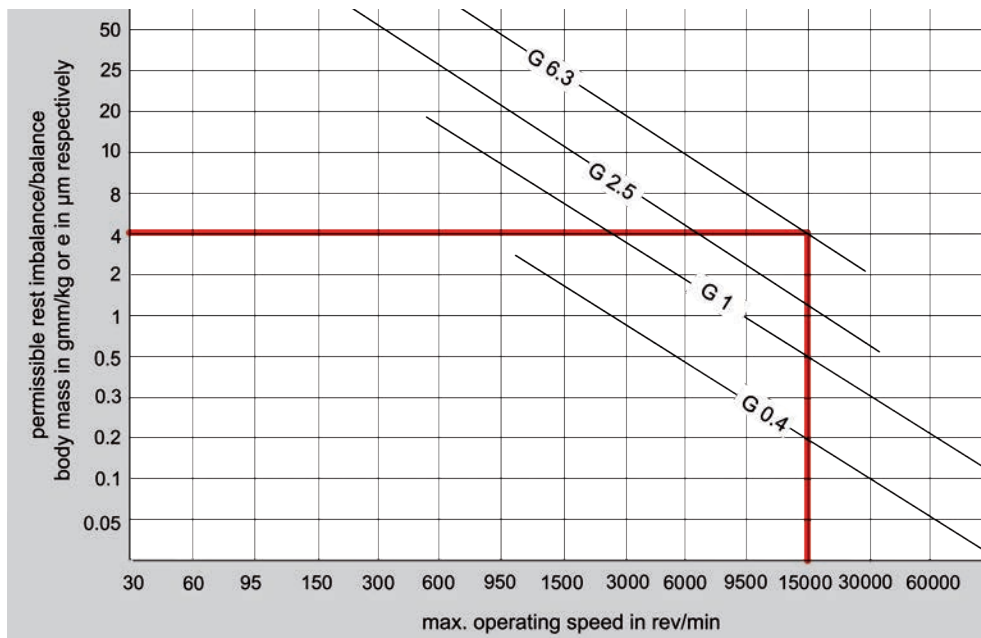
e = eccentricity of center of gravity in μm

m = mass in kg

Balancing limits

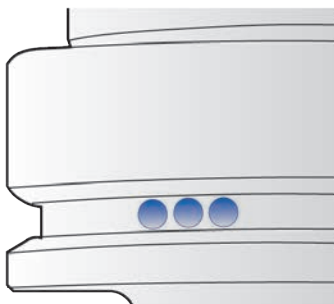
In accordance with DIN ISO 1940 the balance grade is denoted with G as well as the units gmm/kg or μm respectively and is relative to the number of revolutions. At a speed of 15,000 rev./min and a weight of 1 kg, G 6.3 corresponds with a permissible center deviation between rotational axis and center of gravity axis of the spindle of 4 μm . At twice the speed of 30,000 rev./min it would be 2 μm . If the tool holder was only half the weight, i.e. 0.5 kg, the permissible counter balancing tolerance is also halved. Aim of counter balancing is to find a compromise between the technically feasible and the economically efficient. Because the radial interchange accuracy for a brand-new HSK holder can be 2 to 3 μm and for an ISO taper shank holder can be 5 to 10 μm , it means an initial quality limit of G 2.5 or G 6.3 respectively at 10,000 rev./min.

The following diagram shows the quality grades to DIN ISO 1940-1, i.e. the permissible rest imbalance in relation to the balance body mass for different counter balance qualities G relative to the maximum operating speed.

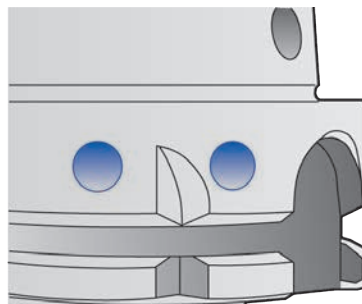


KEMMLER tool holders are balanced to G 6.3/15,000 rev/min.

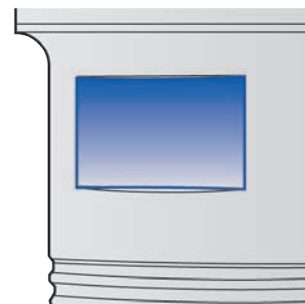
Fine-balanced with
balancing bores in the flange



Pre-balanced with
balancing bores at the collar



Pre-balanced with
balancing flat at the tool body



Hydraulic expansion chucks

Modern machining processes place heavy demands on tool holding. Hydraulic expansion chucks provide excellent clamping characteristics combined with precise concentricity. Furthermore, they enable a simple and fast tool change.

Turning the pressure screw generates sufficient pressure in the pressure chamber resulting in an elastic deformation of the clamping bush, providing powerful tool clamping and precise concentricity. A safe and powerful fit is guaranteed.

If reduction sleeves are applied that are able to hold varying tool diameters, the tool application may be extended without problem. If such sleeves are not applied, it is essential to observe the minimum clamping length!

Advantages

- precise tool clamping with a maximum 3 µm deviation from concentricity
- transmission of high torque through (excellent clamping) optimised bush clamping system
- high speed compatibility (no centrifugal forces from clamping segments)
- precise concentricity, therefore excellent surface qualities and dimensional accuracy of the workpiece
- rapid tool change thanks to simple operation of the clamping screw
- optimal tool life
- hydraulic cushioning has vibration absorbing effect



Chart of technical data

Clamping Ø	Tightening torque	Minimum Clamping depth	Permissible transmissible torque with shaft minimum dimension h6	Tolerance of the shank tools	Max. Speed [min-1]	
[mm]	[Nm]	[mm]	[Nm]		LPR = 125	LPR > 125
6	10	27	12	h6	40.000	20.000
8	10	27	30	h6	40.000	20.000
10	10	31	40	h6	40.000	20.000
12	10	36	70	h6	40.000	20.000
14	10	36	100	h6	40.000	20.000
16	10	39	135	h6	40.000	20.000
18	10	39	180	h6	40.000	20.000
20	10	41	220	h6	40.000	20.000
25	10	47	500	h6	20.000	10.000
32	10	51	700	h6	20.000	10.000

Usable shank types

DIN 6535 DIN 1835-1	Ø 6 - 20 mm	Ø 25 - 32 mm	Using Reduction sleeves
 Form HA	✓	✓	✓
 Form HB/ E	✓	✗	✓
 Form HE/ E	✗	✗	✓
Run out (λ)	≤ 0,003 mm		≤ 0,005 mm

Operating and user instructions for hydraulic expansion chucks

To ensure a flawless function of the hydraulic expansion chucks, please observe the following instructions:

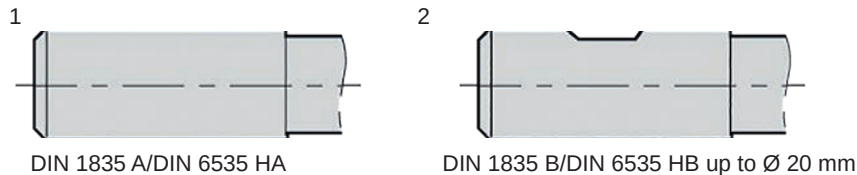
Usage of straight shank tools according to DIN 1835 and DIN 6535 form (HA) and B (HB) up to Ø 20 mm shaft diameter with tolerance h_6 , precision grinded $Ra_{min} = 0.3$.

Shafts according to DIN 6535 form HE (Whistle Notch) can only be clamped by using reduction sleeves. All hydraulic expansion chucks are standard balanced to G 6.3 15,000 rev/min.

Clamping and unclamping the tool

1. Clean the holding fixture bore and the tool shaft of grease and dirt. Insert tools up to the end stop. Observe the minimum clamping depth and the length adjustment range.
2. Clamp the shaft by turning the clamping screw up to the end stop. The tool is clamped. To avoid breaking of the hydraulic sleeve, do not carry out clamping action without a tool.
3. To unclamp the tool, turn the screw approx. 5 to 6 revs. counter clockwise and remove the tool.

Note: Never clamp without a clamped tooling!



Cleaning

Attention should be paid to the cleanliness of the holding fixture bore and the tool shaft.

Temperature

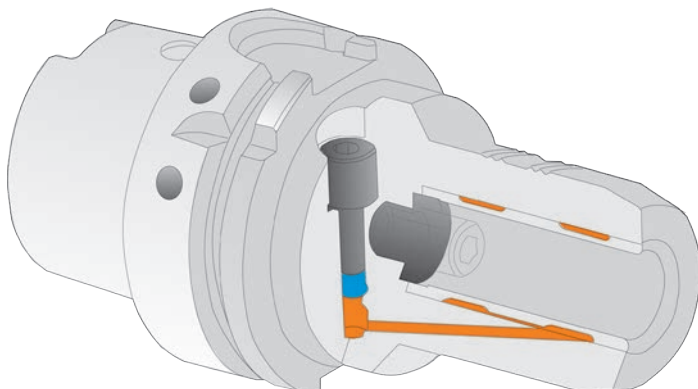
Optimal temperature range between 10–50°. Do not use with temperatures above 80°.

Storage

Store the hydraulic expansion chuck untensioned, cleaned and lightly oiled.

Clamping shafts

Clamp only tool shafts conforming to the requirements of DIN 1835 form A and form B (up to 20 mm).



Torques for clamping end-mills in end mill holders DIN 6359

Highest concentricity by using defined torques with Weldon shafts:



Torques for DIN 1835

Bore	Screw		Torque
Ø 6 mm	M 6	SW 3	10 Nm
Ø 8 mm	M 8	SW 4	10 Nm
Ø 10 mm	M 10	SW 5	16 Nm
Ø 12 mm	M 12	SW 6	28 Nm
Ø 14 mm	M 12	SW 6	28 Nm
Ø 16 mm	M 14	SW 6	42 Nm
Ø 18 mm	M 14	SW 6	42 Nm
Ø 20 mm	M 16	SW 8	50 Nm
Ø 25 mm	M 18×2	SW 10	60 Nm
Ø 32 mm	M 20×2	SW 10	72 Nm
Ø 40 mm	M 20×2	SW 10	72 Nm
Ø 50 mm	M 24×2	SW 12	90 Nm
Ø 63 mm	M 24×2	SW 12	90 Nm

The load limits of the spindle mount must be complied with.

Operating temperature: + 20 °C ... + 50 °C

Max. coolant pressure: 80 bar

Clamp-Ø	max. Speed in m ⁻¹		Max. Tightening torque of the clamping screw	Clamping screw	SW	Shank-Ø in mm
	LPR to 125mm	LPR about 125mm				
Ø 6 mm	50.000	30.000	10 Nm	M 6	SW 3	Ø 6 h6
Ø 8 mm	50.000	30.000	10 Nm	M 8	SW 4	Ø 8 h6
Ø 10 mm	50.000	30.000	16 Nm	M 10	SW 5	Ø 10 h6
Ø 12 mm	50.000	30.000	28 Nm	M 12	SW 6	Ø 12 h6
Ø 14 mm	50.000	30.000	28 Nm	M 12	SW 6	Ø 14 h6
Ø 16 mm	50.000	30.000	42 Nm	M 14	SW 6	Ø 16 h6
Ø 18 mm	50.000	30.000	42 Nm	M 14	SW 6	Ø 18 h6
Ø 20 mm	50.000	30.000	50 Nm	M 16	SW 8	Ø 20 h6
Ø 25 mm	25.000	20.000	60 Nm	M 18×2	SW 10	Ø 25 h6
Ø 32 mm	25.000	20.000	72 Nm	M 20×2	SW 10	Ø 32 h6

Operating and user instructions for CNC-drill chucks

Use clamping and unclamping of tools

To guarantee error-free function of the CNC-drill chuck 08/ 13/ 16, please follow the next instructions.

Attention:

Clamping or releasing only at standstill of machine spindle or outside the machine.

The CNC-drill chuck (pos. 1) is clamped by means of an Allen-T-wrench (pos. 3) on side of the drill chuck actuating a bevel gear. Turn the Allen-T-wrench counter clockwise to open the drill chuck, clockwise to close it.

1st step

Open the jaw of the drill chuck wide enough to insert the cutting tool. (pos. 2)

2nd step

Fit cutting tool (pos. 2) to the stud into the CNC-drill chuck (pos. 1) so that the tool shank is fit closely to the whole length of the clamping jaws. (picture 1)

3rd step

Turn the Allen-T-wrench (pos. 3) clockwise to clamp the cutting tool using a torque of 15 Nm (10 Nm for 0,5-8) to clamp the tool properly. (picture 2)

Note:

Do not use any kind of extensions for clamping. By using a torque higher than mentioned the bevel gear can be damaged. In this case the bevel pinion will be the rated break point to protect the drill chuck against damage.

4th step

Test the concentricity after clamping and make sure that the tool is clamped safely.

Note:

Do not clamp tools with tapered shafts.

5th step

The CNC-drill chuck is ready for work and can be clamped into the machine spindle. (picture 3)

6th step

To release the cutting tool please turn the Allen-T-wrench counter clockwise and remove the cutting tool. (picture 3)

Maintenance and Cleaning

The CNC-drill chucks 08/13/16 are maintenance-free.

The CNC-drill chucks 08/13/16 should be cleaned after use with a clean cloth to prevent corrosion.

Before storing the drill chucks please spray oil on the surface to prevent corrosion.

Repair

In case of a damage of the CNC-drill chuck, please send it back to us. We will principally exchange the complete drill chuck head.

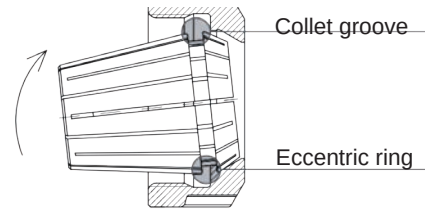
With this procedure you will get the quickest possible replacement and only on this way a proper function and a run-out accuracy of <0.03 mm can be guaranteed.



Mounting instructions for ER-Collets per DIN STD 6499

Assembling instructions:

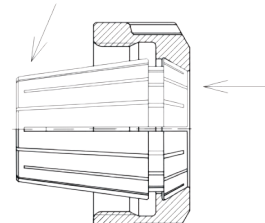
Insert groove of collet into eccentric ring of the clamping nut at the mark on the bottom of the nut. Push collet in the direction of the arrow until it clicks in place. Screw nut with collet onto toolholder. We recommend to tighten the nut with a torque wrench.



Disassembling instructions:

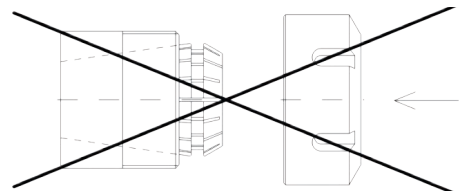
After the nut is unscrewed from the toolholder, press on the face of the collet while simultaneously pushing sideways on the back of the collet until it disengages from the clamping nut.

Improper assembly can permanently destroy the concentricity of the collet and may result in a damaged clamping nut.



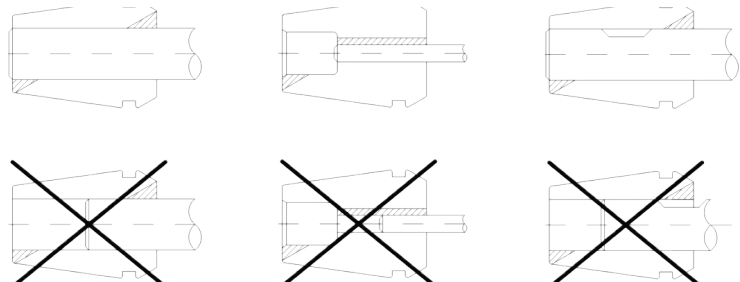
Note:

Only mount nuts with correctly inserted collets! Never place the collet into the holder without first assembling it into the nut.



Never clamp oversize tool shanks!
e.g. never use a Ø 12–11 mm collet to clamp a Ø 12.2 mm shank. Rather use the next bigger collet (here Ø 13–12 mm collet).

Insert tool the full length of the collet for best results if possible. However, never insert tool less than 2/3 of the collet bore length. Improper tool insertion can permanently deform the collet and will result in poor runout.



Maximum torque

ER 16	M22×1,5	50 Nm
ER 20	M25×1,5	75 Nm
ER 25	M32×1,5	85 Nm
ER 32	M40×1,5	105 Nm
ER 40	M50×1,5	150 Nm
ER 11 Mini	M13×0,75	18 Nm
ER 16 Mini	M19×1	28 Nm

Please observe the maximum torque indicated in the chart!

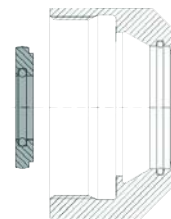
Mounting instruction for sealing discs

Assembly

Insert the small diameter of the disc into the centre of the coolant nut and apply even pressure until the disc is properly seated into the nut. The disc must be flush with the outside of the nut.

Removal

To remove the disc, simply press on the outside of the disc evenly, until it snaps out.

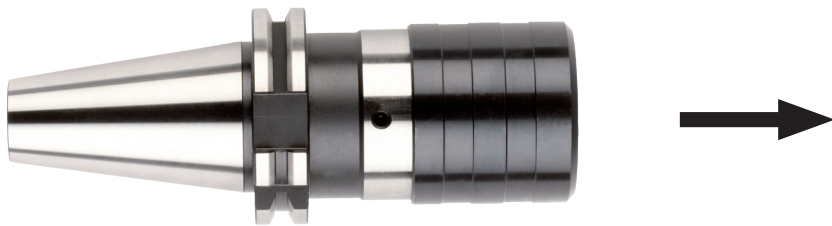


Quick-change tapping chucks

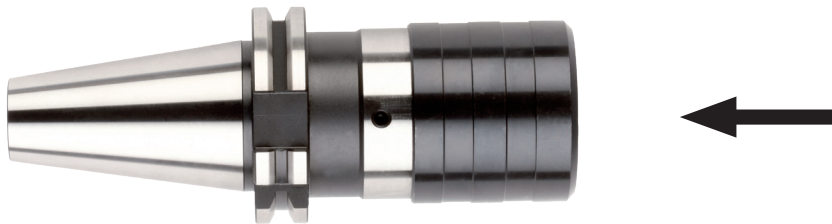
The process of tapping is a complex balance of rotational and axial movements of the tool. It is sometimes necessary to restrict the axial movements of the tool.

If the axial movement is not accurately controlled, the leading or trailing flanks of the tap may be forced to progressively "shave" one flank of the component thread, thus producing a thin and oversize thread in the component.

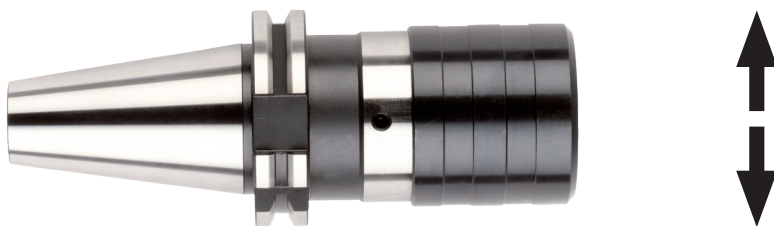
Tension – forward float capability allows the tap to progress into the component without interference from the axial feed of the machine spindle.



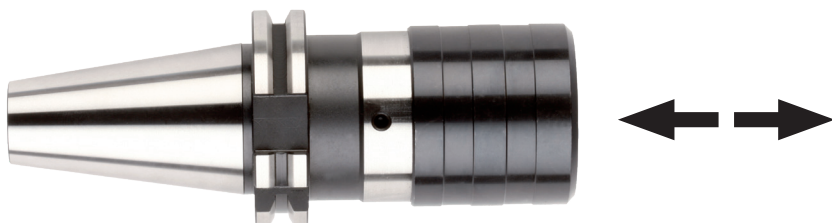
Compression – backward float capability, acts as a cushion and allows the tap to commence cutting at its own axial feed independent of the machine spindle.



Compression/Tension – float is designed to negate any external forces during the machining operation.



Radial float – allows for slight misalignment of the machine spindle axis and hole axis prior to tapping. This is not recommended manufacturing practice and should be avoided.



Instructions for tapping chucks

For a correct use of the tapping chuck, please check, during the first thread, not to exceed the max. axial stroke of the compensation values. This is to avoid damaging the thread or the tapping chuck.

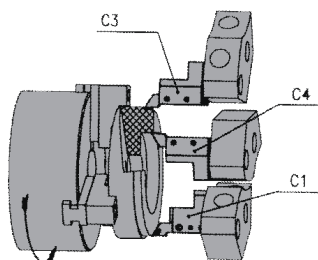


Code	Tap capacity	Adapters	Length adjustment in mm on	
			Compression	Extension
xxx.16.12	M 3–M14	16.11.xx/16.01.xx	7	7
xxx.16.20	M 5–M22	16.12.xx/16.02.xx	12	12
xxx.16.36	M14–M36	16.14.xx/16.03.xx	17.5	17.5

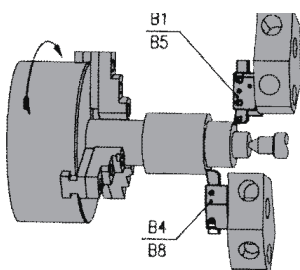
Screw taps-shaft size

Shaft diameter					
Ø×□	DIN 352	DIN 5157	DIN 371	DIN 374	DIN 376
Ø 2.5× 2.1 □	M1		M1	M3	M3.5
Ø 2.5× 2.1 □	M1.1		M1.1	M3.5	
Ø 2.5× 2.1 □	M1.2		M1.2		
Ø 2.5× 2.1 □	M1.4		M1.4		
Ø 2.5× 2.1 □	M1.6		M1.6		
Ø 2.5× 2.1 □	M1.8		M1.8		
Ø 2.8× 2.1 □	M2		M2	M4	M4
Ø 2.8× 2.1 □	M2.2		M2.2		
Ø 2.8× 2.1 □	M2.5		M2.5		
Ø 3.5× 2.7 □	M3		M3	M5	M5
Ø 4 × 3 □	M3.5		M3.5		
Ø 4.5× 3.4 □	M4		M4	M6	M6
Ø 6 × 4.9 □	M5		M5		
Ø 6 × 4.9 □	M6		M6		
Ø 6 × 4.9 □	M8			M8	M8
Ø 7 × 5.5 □	M10	G 1/8"		M10	M10
Ø 8 × 6.2 □			M8		
Ø 9 × 7 □	M12			M12	M12
Ø 10 × 8 □			M10		
Ø 11 × 9 □	M14	G 1/4"		M14	M14
Ø 12 × 9 □	M16	G 3/8"		M16	M16
Ø 14 × 11 □	M18			M18	M18
Ø 16 × 12 □	M20	G 1/2"		M20	M20
Ø 18 × 14.5 □	M22	G 5/8"		M22	M22
Ø 18 × 14.5 □	M24			M24	M24
Ø 20 × 16 □	M27	G 3/4"		M27	M27
Ø 22 × 18 □	M30	G 7/8"		M30	M30
Ø 25 × 20 □	M33	G 1		M33	M33
Ø 28 × 22 □	M36	G 1 1/8"		M36	M36
Ø 32 × 34 □	M39	G 1 1/4"		M39	M39
Ø 32 × 24 □	M42			M42	M42
Ø 36 × 29 □	M45	G 1 3/8"		M45	M45
Ø 36 × 29 □	M48	G 1 1/2"		M48	M48
Ø 36 × 29 □		G 1 3/4"			
Ø 36 × 29 □		G 2"			

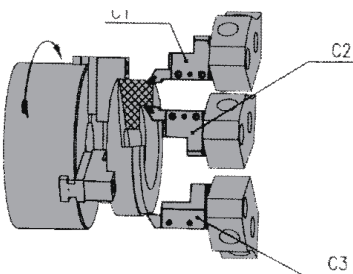
Tool assignment for disc turrets



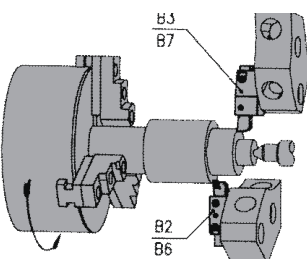
Application of radial tool holders with counter clockwise spindle rotation



Application of radial tool holders with clockwise spindle rotation



Application of axial tool holders with counter clockwise spindle rotation



Application of axial tool holders with clockwise spindle rotation

High precision collet chucks KPS-system

The high precision collet chuck (KPS) is the alternative to hydraulic expansion chucks and shrink chucks.

High flexibility due to interchangeable collets (precision collets System KPS available from Ø 0.5 up to 16 mm).

High clamping forces and concentricity lead to top surfaces and longer tool life.

Plain clamping nut without grooves for high speed machining.

Slim version.

Tool shanks:

Cylindrical DIN 1835-1 form A/DIN 6535 form HA, tolerance h_8 .

Dedicated clamping size on the nominal diameter. Collets available in steps of 0.5 mm.

Run-out:

Maximum runout when measured at a gauge projection of $4 \times d$ in relation to the external taper is 5 μm .

Balancing:

Fine balancing is standard (G 2.5 30,000 min^{-1}).

Note:

KPS-system chucks are delivered as standard without stop end screws. The use of stop end screws is not recommended at high spindle speeds, e.g. over 10,000 rpm.

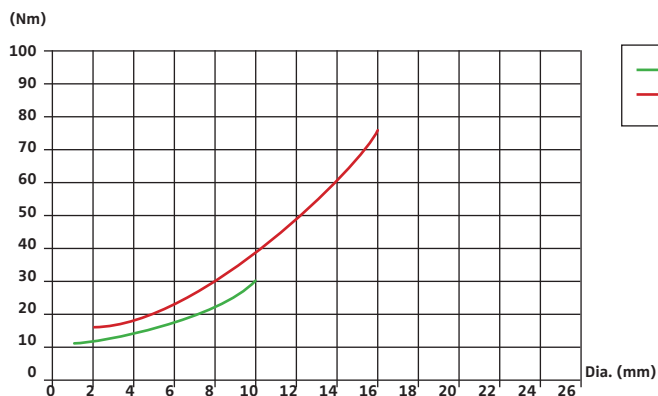


Collet chuck size	Capacity d mm	D	L ₁	M	S	Max. tightening torque	D type clamping system max. Rpm*
D16	1–10	27	19	M20 × 1	24	40 Nm	60,000
D24	2–16	36	22	M28 × 1	32	70 Nm	40,000

*The maximum rpm for holders equipped with this clamping system is often restricted by the holder's back-end taper type and size.

High precision collet chucks KPS-system

Transmittable static torque to the tool shank (Nm)



Assembly advice for KPS-system collets with a collet extractor

1. Remove the nut from the chuck.
2. Insert and squeeze the collet into the collet extractor.*
3. Insert the unit collet + ring into the nut until stop end.
4. Push the back end of the collet to remove the unit collet + nut from the ring.
5. Mount the nut together with the collet on the collet chuck.

Dismantling

To dismantle, push unit collet + nut into the collet extractor in order to squeeze the collet. Remove the nut.

Finally, push the back end of the collet to remove it from the collet extractor.

The collet must always be inserted into the nut, and the nut screwed onto the chuck before introducing the tool into the collet.

Never lock the nut without a tool shank located in the full length of the collet.



KPS-Collet



KPS-Collet extractor



KPS-Collet nut



KPS-Wrench

High-performance milling chucks HKS-system

The high-performance milling chucks are suitable for almost all applications.

Especially in heavy roughing we guarantee unsurpassed high clamping forces and high process reliability.

HKS power chucks lead through the rigidity of the chuck, its concentricity and clamping even at 3 mm from nose lining to excellent surface finish and high tool life.

All HKS chucks grant a maximum deviation of concentricity of 3 µm at 3 x D.

Application:

- heavy roughing
- finish milling
- hard milling
- drilling, reaming
- thread milling

Concentricity:

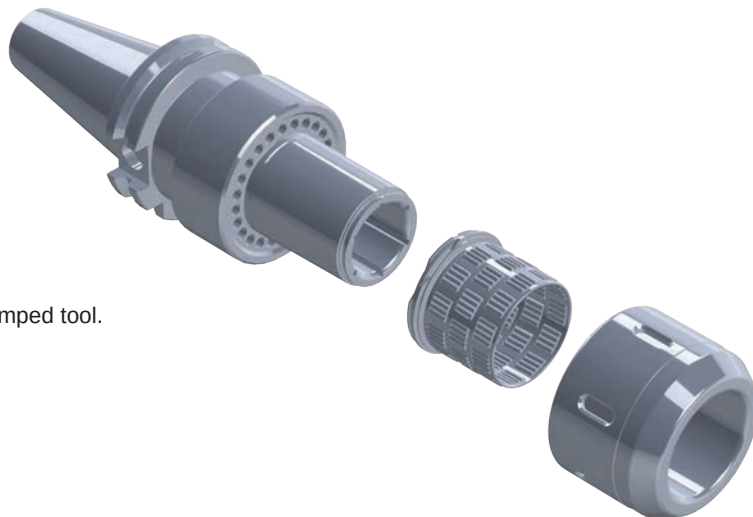
Max. deviation of concentricity 3 µm at 3 x D of the clamped tool.

Balancing:

standard fine-balanced (G 6,3 15.000 min⁻¹).

Clamping shank:

All available tool shanks with or without Weldon shank can be clamped directly or with an adapter sleeve.



Size	20mm	25mm	32mm
Clamping torque	50-70 Nm	80-100 Nm	80-100 Nm
Clamping force	780 Nm	2000 Nm	2000 Nm



Precision collet chuck ER for collets ISO 15488 (DIN 6499) ER-system

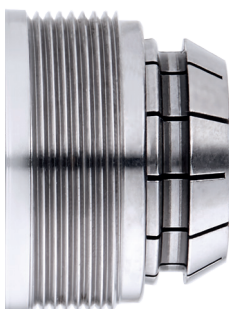


Enforced body:
Ensures ultimate stability and better axial and radial rigidity

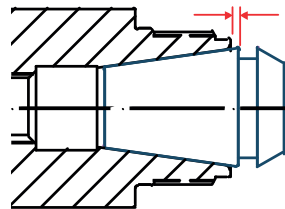
Plain clamping nut without grooves for high speed machining



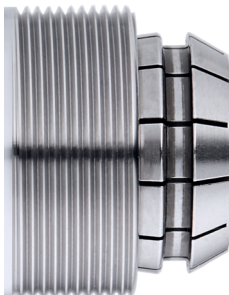
Precision ER



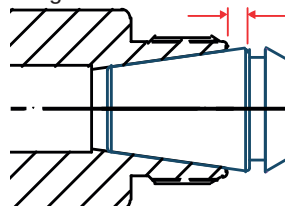
Short



Standard ER



Long



Konrad tools Precision collet chuck:
The deeper seat of the collet in the chuck leads to more precise concentricity and a clear plus in radial stability. Extreme holding forces (increases the holding force by at least 60 % compared to standard ER collet chucks).

Tightening torque of clamping tools

Here you will find an overview of tightening torque / tightening torque of clamping tools.

The tightening torque is the force with which the screw connection is tightened during assembly using a tool. This torque is transferred to the bolt or the corresponding nut using an adjustable torque spanner suitable for this purpose. Refer to the tightening torque table / torque table below for the corresponding values for the various bolt sizes and clamping nuts.

The tightening torque is measured in Newton metres (Nm). 1 Nm corresponds to pulling a lever 1 metre long with a force of 1 Newton = 100 grams.

TIP: A torque spanner should be used to tighten a screw connection to the correct torque. You can also find torque spanners and torque spanner inserts for tightening bolts and clamping nuts in our product range.

Pull studs / Tightening bolt

Recommended tightening torque for mounting the pull studs / tightening bolts:

Tightening bolt (thread)	TQX (torque)
SK / BT / ISO 30 (M12)	20 Nm
SK / BT / ISO 40 (M16)	50 Nm
SK / BT / ISO 50 (M24)	100 Nm

Higher tightening torques can lead to deformation of the steep taper.



Torque for clamping Weldon milling cutters in DIN 6359 milling cutter holders

Hole	Clamping screw	TQX (torque)
Ø 6 mm	M 6 SW 3	10 Nm
Ø 8 mm	M 8 SW 4	10 Nm
Ø 10 mm	M 10 SW 5	16 Nm
Ø 12 mm	M 12 SW 6	28 Nm
Ø 14 mm	M 12 SW 6	28 Nm
Ø 16 mm	M 14 SW 6	42 Nm
Ø 18 mm	M 14 SW 6	42 Nm
Ø 20 mm	M 16 SW 8	50 Nm
Ø 25 mm	M 18 × 2 SW 10	60 Nm
Ø 32 mm	M 20 × 2 SW 10	72 Nm
Ø 40 mm	M 20 × 2 SW 10	72 Nm
Ø 50 mm	M 24 × 2 SW 12	90 Nm
Ø 63 mm	M 24 × 2 SW 12	90 Nm



Collet chuck system KPS

Typ	THSZMS (thread)	TQX (torque)
KPS 10	M21,5 × 1,0	40 Nm
KPS 16	M32,0 × 1,5	70 Nm



ER collet chuck

Chucks for collets ISO 15488 (DIN 6499) ER system

Typ	THSZMS (thread)	TQX (torque)
ER 16	M22 × 1,5	50 Nm
ER 20	M25 × 1,5	75 Nm
ER 25	M32 × 1,5	85 Nm
ER 32	M40 × 1,5	105 Nm
ER 40	M50 × 1,5	150 Nm



Collet chuck ER type „Mini“

Typ	THSZMS (thread)	TQX (torque)
ER 11 Min	M13 × 0,75	18 Nm
ER 16 Mini	M19 × 1	28 Nm



Clamping nuts ISO 15488 (DIN 6499) system ER, hexagon nut

Typ	THSZMS (thread)	DRVS	TQX (torque)
4008E ER 11	M14 × 0,75	17	30 Nm
426E ER 16	M22 × 1,5	25	40 Nm
428E ER 20	M25 × 1,5	30	60 Nm
430E ER 25	M32 × 1,5	38	60 Nm



Precision collet chuck ER for collets ISO 15488 (DIN 6499) System ER

Artikelnummer	Abmessung Typ	THSZMS (thread)	TQX (torque)
110.P2.20	470 E ER 32	M40 × 1,5	170 Nm



Collet chuck for collets DIN 6388 (ISO 10897)

System OZ („Ortlieb collet chuck“)

Typ	THSZMS (thread)	TQX (torque)
415E OZ 16	M33 × 1,5	85 Nm
462E OZ 25	M48 × 2	140 Nm
467E OZ 32	M60 × 2,5	170 Nm



ER-Collets

Typ	THSZMS (thread)	Clamping diameter	TQX (torque)
4004E ER 8	M10 × 0,75	1,0 - 2,5	5 Nm
4004E ER 8	M10 × 0,75	3,0 - 5,0	8 Nm
4008E ER 11	M13 × 0,75	1,0 - 2,5	13 Nm
4008E ER 11	M13 × 0,75	3,0 - 7,0	25 Nm
426E ER 16	M22 × 1,5	1,0 - 4,5	30 Nm
426E ER 16	M22 × 1,5	5,0 - 10,0	50 Nm
428E ER 20	M25 × 1,5	1,0 - 5,5	45 Nm
428E ER 20	M25 × 1,5	6,0 - 13,0	75 Nm
430E ER 25	M32 × 1,5	1,0 - 6,5	55 Nm
430E ER 25	M32 × 1,5	7,0 - 16,0	85 Nm
470E ER 32	M40 × 1,5	2,0 - 6,5	70 Nm
470E ER 32	M40 × 1,5	7,0 - 20,0	105 Nm
472E ER 40	M50 × 1,5	3,0 - 7,5	100 Nm
472E ER 40	M50 × 1,5	8,0 - 26,0	150 Nm



Cutter tightening screws for cutter arbors
Combination arbors and cross groove arbors - DIN 6367

Article number	Dimension / Type	THOD (thread)	TQX (torque)
102.10.16	16	M8	35
102.10.22	22	M10	75
102.10.27	27	M12	130
102.10.32	32	M16	320
102.10.40	40	M20	620
102.10.50	50	M24	1000
102.10.60	60	M30	2000



Socket head cap screws for push-on mandrels DIN 912
Hexagon socket head cap screw

Article number	Dimension / Type	THOD (thread)	TQX (torque)
102.10.161	16	M8	35 Nm
102.10.221	22	M10	70 Nm
102.10.271	27	M12	120 Nm
102.10.321	32	M16	300 Nm
102.10.401	40	M20	500 Nm



Cheese head screw for driver blocks for milling arbour holders DIN 2079

Article number	Dimension / Type	THOD (thread)	TQX (torque)
101.11.16	16	M3	4,4 Nm
101.11.22	22	M4	4,4 Nm
101.11.27	27	M4	4,4 Nm
101.11.32	32	M5	8,7 Nm
101.11.40	40	M5	36 Nm
101.11.60	60	M12	120 Nm



CNC drill chuck

Size	0,5 - 8 mm	1 - 13 mm	2,5 - 16 mm
Tightening torque	10 Nm	15 Nm	15 Nm
Holding torque	30 Nm	40 Nm	40 Nm



Milling chucks

Size	20mm	25mm	32mm
Tightening torque	50-70 Nm	70-90 Nm	80-100 Nm
Clamping force	780 Nm	1150 Nm	2000 Nm



Cooling lubricant pipe with threaded bushing for hollow taper shafts to ISO 22402-1 (formerly DIN 69895)

Size / Typ	TQX (torque)
HSK 32	7 Nm
HSK 40	11 Nm
HSK 50	15 Nm
HSK 63	20 Nm
HSK 80	25 Nm
HSK 100	30 Nm



Fluid transfer units for hollow shank tapers to ISO 26623 to ISO 22402-2

Size / Typ	TQX (torque)
PSK 32	10 Nm
PSK 40	10 Nm
PSK 50	10 Nm
PSK 63	20 Nm
PSK 80	20 Nm
PSK 100	30 Nm

Milling cutter holders for screw-in milling cutters

THOD (thread)	TQX (torque)
M6	10 Nm
M8	25 Nm
M10	40 Nm
M12	50 Nm
M16	60 Nm



Hydraulic expansion chuck

Clamping Ø	Tightening torque	Minimum Clamping depth	Permissible transmissible torque with shaft minimum dimension h6	Tolerance of the shank tools	Max. Speed [min-1]	
[mm]	[Nm]	[mm]	[Nm]		LPR = 125	LPR > 125
6	10	27	12	h6	40.000	20.000
8	10	27	30	h6	40.000	20.000
10	10	31	40	h6	40.000	20.000
12	10	36	70	h6	40.000	20.000
14	10	36	100	h6	40.000	20.000
16	10	39	135	h6	40.000	20.000
18	10	39	180	h6	40.000	20.000
20	10	41	220	h6	40.000	20.000
25	10	47	500	h6	20.000	10.000
32	10	51	700	h6	20.000	10.000

