

ISO 9001-2015 KVQA



SUBHADRAA

Engineering & Technologies Pvt. Ltd.

“Precision Products with High Performance.”

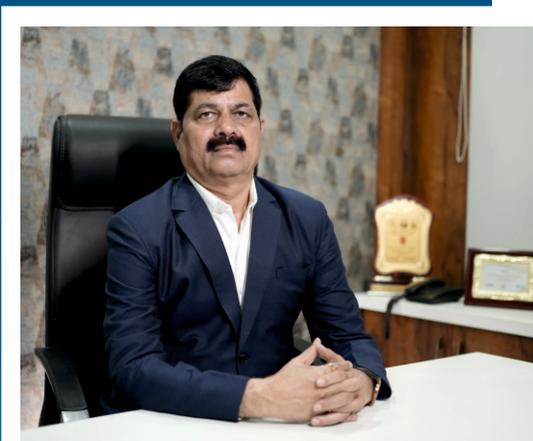




About Us

Subhadraa Engineering & Technologies Pvt. Ltd. is a precision engineering company established in 2003. From its inception, the company has focused on delivering high-quality, precision-engineered products for industrial applications. Today, Subhadraa Engineering operates independently, serving customers with reliability, technical expertise, and consistent performance. We specialize in the manufacturing of precision components using advanced CNC and VMC machines. Our product portfolio includes ER Locknuts, tool holders, and other precision-machined parts that are widely used in CNC and VMC machining operations across multiple industries. With modern manufacturing facilities, skilled professionals, and strict quality control systems, we ensure that every product meets exact specifications and industry standards.

Our manufacturing processes follow ISO-compliant practices, ensuring accuracy, durability, and high performance. Subhadraa Engineering & Technologies Pvt. Ltd. is committed to customer satisfaction, timely delivery, and continuous improvement. By combining advanced technology with engineering excellence, we strive to build long-term partnerships and deliver products that our customers can trust.



OUR SERVICES

ER Locknuts Manufacturing

We manufacture high-precision ER Locknuts for CNC and VMC machines. Our locknuts ensure strong clamping force, high accuracy, and long service life, making them ideal for demanding machining applications.

CNC Machined Components

We offer custom CNC machined components manufactured with tight tolerances and excellent surface finish. Our components are widely used in industrial machinery and machine tool applications.

VMC Machined Components

Using advanced VMC machines, we produce high-performance precision parts that meet exact customer specifications and industry standards.

Tool Holders & Machine Tool Accessories

We manufacture and supply tool holders and related machine tool accessories designed for accuracy, durability, and reliable machining performance.

Precision Engineering Solutions

We provide end-to-end precision engineering solutions, from concept and design support to final production, ensuring consistent quality and on-time delivery.

Custom Manufacturing (As per Drawing / Sample)

We specialize in custom manufacturing as per customer drawings, samples, or technical requirements, maintaining strict quality control at every stage.

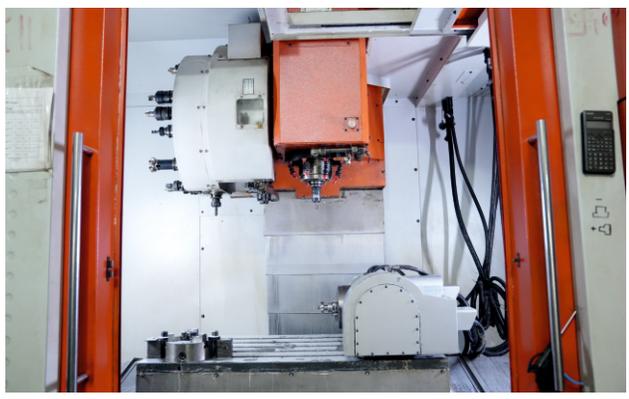




CNC OD Cylindrical Grinding-OKAMOTA



CNC ID Cylindrical Grinding-OKAMOTA



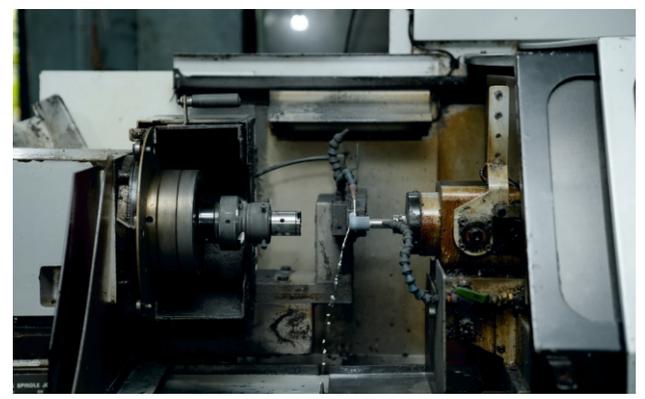
Vertical Milling Machine



Vertical Milling Machine



Vertical Milling Machine



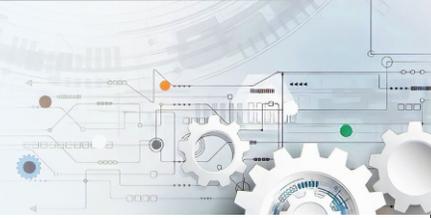
ID Grinding



OD/ID Grinding

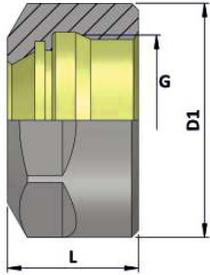


CNC Turning - LMW



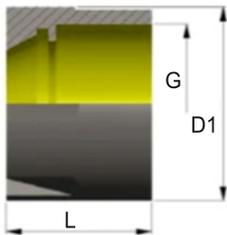
ER Series Nuts for Collet Chucks (DIN 6499)

HEX NUT ER



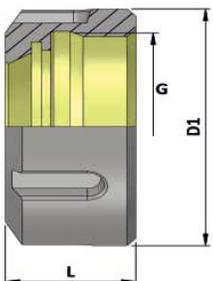
Sr. No.	Product Name	D1	L	G	Weight/kgs	Spanner
1	ER11 HEX	19	11.5	M14x0.75	0.015	Spanner ER11 HEX
2	ER16 HEX	28	18	M22x1.5	0.034	Spanner ER16 HEX
3	ER20 HEX	34	19.5	M25x1.5	0.04	Spanner ER20 HEX

MINI NUTS ER



Sr. No.	Product Name	D1	L	G	Weight/kgs	Spanner
1	ER11M	16	11.5	M13x0.75	0.015	Spanner ER11 Mini
2	ER16M	28	18	M19x1	0.034	Spanner ER16 Mini
3	ER20M	34	19.5	M24x1	0.04	Spanner ER20 Mini
4	ER25M	35	20.5	M30x1	0.05	Spanner ER25Mini

UM ER SLOTTED NUT



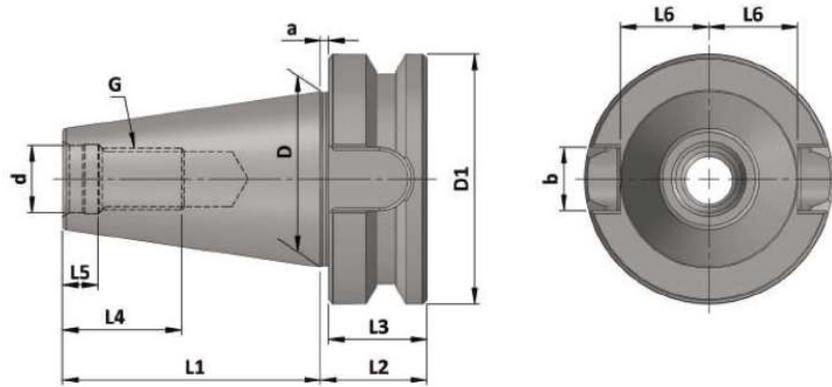
Sr. No.	Product Name	D1	L	G	Weight/kgs	Spanner
1	ER16UM	32	18	M22x1.5	0.036	Spanner ER16
2	ER20UM	35	19.5	M25x1.5	0.062	Spanner ER20
3	ER25UM	42	20.5	M32x1.5	0.096	Spanner ER25
4	ER32UM	50	23	M40x1.5	0.151	Spanner ER32
5	ER40UM	63	26	M50x1.5	0.266	Spanner ER40
6	ER50UM	78	35.5	M64x2	0.575	Spanner Er50

Product Description



BT (MAS 403) DIN ISO 7388 – 2

BT (Mas 403) From A



Taper	d	d2	D	D1	a	b	e1	G	L1	L2	L3	L4	L5	L6
30	12.5	-	31.75	46	2	16.1	-	M12	48.4	22	20	24	7.0	16.3
40	17	M4	44.45	63	2	16.1	27	M16	65.4	27	25	32	9.0	22.6
50	25	M6	69.85	100	3	25.7	42	M24	101.8	38	35	47	13.0	35.4

TAPER SHANK BT30

(MAS 403, JIS B 6339)

Maximum run out of the internal taper with respect to the external taper 0.005 mm

Balanced to G6.3@15000 rpm, G2.5 @ 20000rpm available on request



Sr. No.	Part Number	Suitable Collet	Lmm	L1mm	L2mm	Diameter mm	D1mm	D2mm	Nut
1	BT30-ER11-70	ER11	70	48.4	20	19	46	31.75	HEX TYPE (A)
2	BT30-ER11-100	ER11	100	48.4	20	19	46	31.75	HEX TYPE (A)
3	BT30-ER16-70	ER16	70	48.4	20	28	46	31.75	HEX TYPE (A)
4	BT30-ER16-100	ER16	100	48.4	20	28	46	31.75	HEX TYPE (A)
5	BT30-ER20-70	ER20	70	48.4	20	34	46	31.75	HEX TYPE (A)
6	BT30-ER20-100	ER20	100	48.4	20	34	46	31.75	HEX TYPE (A)
7	BT30-ER25-70	ER25	70	48.4	20	42	46	31.75	ROUND TYPE (UM)
8	BT30-ER25-100	ER25	100	48.4	20	42	46	31.75	ROUND TYPE (UM)
9	BT30-ER32-70	ER32	70	48.4	20	50	46	31.75	ROUND TYPE (UM)
10	BT30-ER32-100	ER32	100	48.4	20	50	46	31.75	ROUND TYPE (UM)
11	BT30-ER40-80	ER40	80	48.4	20	63	46	31.75	ROUND TYPE (UM)
12	BT30-ER40-100	ER40	100	48.4	20	63	46	31.75	ROUND TYPE (UM)



SHANK TAPER BT40

(MAS 403, JIS B 6339)

Maximum run out of the internal taper with respect to the external taper 0.005 mm

Balanced to G6.3@15000 rpm, G2.5 @ 20000rpm available on request



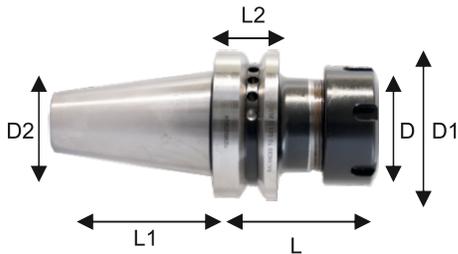
Sr. No.	Part Number	Suitable Collet	Lmm	L1mm	L2mm	Diameter mm	D1mm	D2mm	Nut
1	BT40-ER11-70	ER11	70	65.4	25	19	83	44.45	HEX TYPE (A)
2	BT40-ER11-M-100	ER11	100	65.4	25	19	83	44.45	HEX TYPE (A)
3	BT40-ER11-100	ER11	100	65.4	25	19	83	44.45	HEX TYPE (A)
4	BT40-ER16-70	ER16	70	65.4	25	28	83	44.45	HEX TYPE (A)
5	BT40-ER16-M-100	ER16	100	65.4	25	27	83	44.45	MINI TYPE (M)
6	BT40-ER16-100	ER16	100	65.4	25	28	83	44.45	HEX TYPE (A)
7	BT40-ER16-150	ER16	150	65.4	25	28	83	44.45	HEX TYPE (A)
8	BT40-ER20-70	ER20	70	65.4	25	34	83	44.45	HEX TYPE (A)
9	BT40-ER20-100	ER20	100	65.4	25	34	83	44.45	HEX TYPE (A)
10	BT40-ER20-150	ER20	150	65.4	25	34	83	44.45	HEX TYPE (A)
11	BT40-ER25-70	ER25	70	65.4	25	42	83	44.45	ROUND TYPE (UM)
12	BT40-ER25-100	ER25	100	65.4	25	42	63	44.45	ROUND TYPE(UM)
13	BT40-ER25-150	ER25	150	65.4	25	42	63	44.45	ROUND TYPE(UM)
14	BT40-ER32-70	ER32	70	65.4	25	42	63	44.45	ROUND TYPE(UM)
15	BT40-ER32-120	ER32	120	65.4	25	42	63	44.45	ROUND TYPE(UM)
16	BT40-ER32-150	ER32	150	65.4	25	42	63	44.45	ROUND TYPE(UM)
17	BT40-ER40-80	ER40	80	65.4	25	50	63	44.45	ROUND TYPE(UM)
18	BT40-ER40-100	ER40	100	65.4	25	50	63	44.45	ROUND TYPE(UM)
19	BT40-ER40-150	ER40	150	65.4	25	50	63	44.45	ROUND TYPE(UM)

SHANK TAPER BT50

(MAS 403, JIS B 6339)

Maximum run out of the internal taper with respect to the external taper 0.005 mm

Balanced to G6.3@15000 rpm, G2.5 @ 20000rpm available on request



Sr. No.	Part Number	Suitable Collet	Lmm	L1mm	L2mm	Diameter mm	D1mm	D2mm	Nut
1	BT50-ER16-80	ER16	80	101.8	35	28	100	69.85	HEX. TYPE(A)
2	BT50-ER16-100	ER16	100	101.8	35	28	100	69.85	HEX. TYPE(A)
3	BT50-ER16-150	ER16	150	101.8	35	28	100	69.85	HEX. TYPE(A)
4	BT50-ER20-70	ER20	70	101.8	35	34	100	69.85	HEX. TYPE(A)
5	BT50-ER20-100	ER20	100	101.8	35	34	100	69.85	HEX. TYPE(A)
6	BT50-ER20-150	ER20	150	101.8	35	34	100	69.85	HEX. TYPE(A)
7	BT50-ER25-70	ER25	70	101.8	35	42	100	69.85	ROUND TYPE(UM)
8	BT50-ER25-100	ER25	100	101.8	35	42	100	69.85	ROUND TYPE(UM)
9	BT50-ER25-150	ER25	150	101.8	35	42	100	69.85	ROUND TYPE(UM)
10	BT50-ER32-70	ER32	70	101.8	35	50	100	69.85	ROUND TYPE(UM)
11	BT50-ER32-100	ER32	100	101.8	35	50	100	69.85	ROUND TYPE(UM)
12	BT50-ER32-150	ER32	150	101.8	35	50	100	69.85	ROUND TYPE(UM)
13	BT50-ER40-80	ER40	80	101.8	35	63	100	69.85	ROUND TYPE(UM)
14	BT50-ER40-100	ER40	100	101.8	35	63	100	69.85	ROUND TYPE(UM)
15	BT50-ER40-150	ER40	150	101.8	35	63	100	69.85	ROUND TYPE (UM)



BT MORSE TAPER HOLDER – BT 30

(MAS 403, JIS B 6339)

Maximum run out of the internal taper with respect to the external taper 0.005 mm

Balanced to G6.3@15000 rpm, G2.5 @ 20000rpm available on request



Sr. No.	Part Number	Morse	Suitable drill	D	L
1	BT30-MT01-50	1	SMALL DRILL UPTO 14.0MM	25	50
2	BT30-MT02-60	2	14.25MM TO 23.0MM	32	60
3	BT30-MT03-75	3	23.5MM TO 31.5MM	40	75

BT MORSE TAPER HOLDER – BT 40

(MAS 403, JIS B 6339)

Maximum run out of the internal taper with respect to the external taper 0.005 mm

Balanced to G6.3@15000 rpm, G2.5 @ 20000rpm available on request



Sr. No.	Part Number	Morse	Suitable drill	D2	L
1	BT40-MT01-45	1	SMALL DRILL UPTO 14.0MM	25	45
2	BT40-MT01-50	1	SMALL DRILL UPTO 14.0MM	25	50
3	BT40-MT02-50	2	14.25MM TO 23.0MM	32	50
4	BT40-MT02-60	2	14.25MM TO 23.0MM	32	60
5	BT40-MT03-70	3	23.5MM TO 31.5MM	40	70
6	BT40-MT03-75	3	23.5MM TO 31.5MM	40	75
7	BT40-MT04-75	4	32.0MM TO 49.5MM	48	75
8	BT40-MT04-100	4	32.0MM TO 49.5MM	48	100

BT MORSE TAPER HOLDER – BT 50

(MAS 403, JIS B 6339)

Maximum run out of the internal taper with respect to the external taper 0.005 mm

Balanced to G6.3@15000 rpm, G2.5 @ 20000rpm available on request



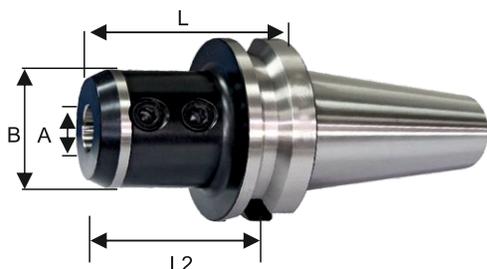
Sr. No.	Part Number	Morse	Suitable drill	D	L
1	BT50-MT01-50	1	SMALL DRILL UPTO 14.0MM	25	50
2	BT50-MT02-60	2	14.25MM TO 23.0MM	32	60
3	BT50-MT03-75	3	23.5MM TO 31.5MM	40	75
4	BT50-MT04-95	4	32.0MM TO 49.5MM	48	95
5	BT50-MT05-105	5	50.0MM TO 65.0MM	70	105

BT30 SIDELock ADAPTOR HOLDER

(MAS 403, JIS B 6339)

Maximum run out of the ID with respect to the external taper 0.005 mm

Balanced to G6.3@15000 rpm, G2.5 @ 20000rpm available on request



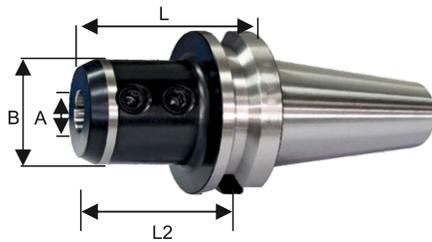
Sr. No.	Part Number	A H6	L	B	L1	L2	D1	D2	M
1	BT30-SLA06-50	06	75	25	50	40	M12	M12	M10
2	BT30-SLA08-60	08	75	28	60	40	M12	M12	M10
3	BT30-SLA10-60	10	75	35	60	45	M12	M12	M10
4	BT30-SLA12-60	12	75	42	60	50	M12	M12	M10
5	BT30-SLA14-63	14	75	42	63	50	M12	M12	M10
6	BT30-SLA16-60	16	75	48	60	53	M12	M12	M10
7	BT30-SLA18-63	18	75	48	63	53	M12	M12	M10
8	BT30-SLA20-80	20	75	52	80	55	M12	M12	M10

BT40 SIDELOCK ADAPTOR HOLDER

(MAS 403, JIS B 6339)

Maximum run out of the ID with respect to the external taper 0.005 mm

Balanced to G6.3@15000 rpm, G2.5 @ 20000rpm available on request



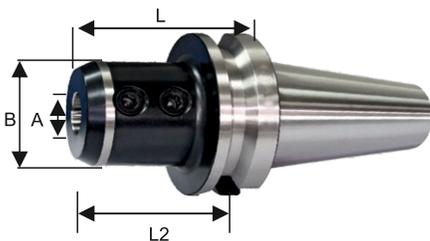
Sr. No.	Part Number	A H6	L	B	L1	L2	D1	D2	M
1	BT40-SLA06-50	06	50	25	50	40	M16	M12	M10
2	BT40-SLA06-100	06	100	25	100	40	M16	M12	M10
3	BT40-SLA06-150	06	150	25	160	40	M16	M12	M10
4	BT40-SLA08-50	08	50	28	50	40	M16	M12	M10
5	BT40-SLA08-100	08	100	28	100	40	M16	M12	M10
6	BT40-SLA08-150	08	150	28	160	40	M16	M12	M10
7	BT40-SLA10-63	10	63	35	63	45	M16	M12	M10
8	BT40-SLA10-100	10	100	35	100	45	M16	M12	M10
9	BT40-SLA10-150	10	150	35	160	45	M16	M12	M10
10	BT40-SLA12-63	12	63	42	63	50	M16	M12	M10
11	BT40-SLA12-100	12	100	42	100	50	M16	M12	M10
12	BT40-SLA12-150	12	150	42	160	50	M16	M12	M10
13	BT40-SLA14-63	14	63	44	63	50	M16	M12	M10
14	BT40-SLA14-100	14	100	44	100	50	M16	M12	M10
15	BT40-SLA14-150	14	150	44	160	50	M16	M12	M10
16	BT40-SLA16-63	16	63	48	63	53	M16	M12	M10
17	BT40-SLA16-100	16	100	48	100	53	M16	M12	M10
18	BT40-SLA16-150	16	150	48	160	53	M16	M12	M10
19	BT40-SLA18-63	18	63	50	63	53	M16	M12	M10
20	BT40-SLA18-100	18	100	50	100	53	M16	M12	M10
21	BT40-SLA18-150	18	150	50	160	53	M16	M12	M10
22	BT40-SLA20-63	20	63	52	63	55	M16	M12	M10
23	BT40-SLA20-100	20	100	52	100	55	M16	M12	M10
24	BT40-SLA20-150	20	150	52	160	55	M16	M12	M10
25	BT40-SLA25-90	25	90	65	90	60	M16	M12	M10
26	BT40-SLA25-150	25	150	65	160	60	M16	M12	M10
27	BT40-SLA32-110	32	110	72	110	65	M16	M12	M10
28	BT40-SLA40-105	40	105	80	105	75	M16	M12	M10
29	BT40-SLA40-150	40	150	80	160	75	M16	M12	M10

BT 50 SIDELOCK ADAPTOR HOLDER

(MAS 403, JIS B 6339)

Maximum run out of the ID with respect to the external taper 0.005 mm

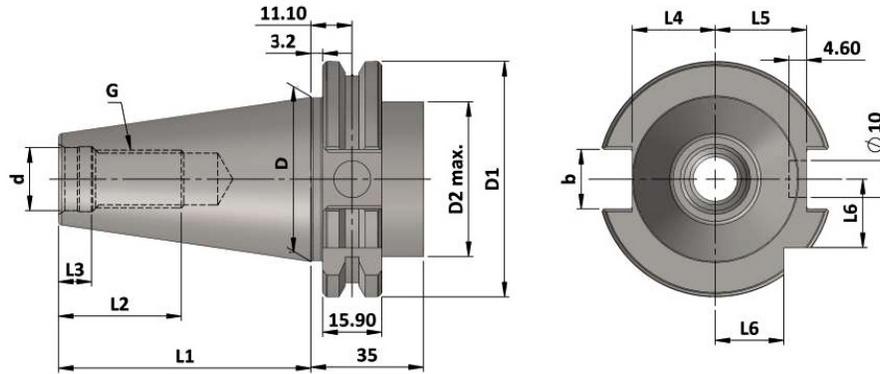
Balanced to G6.3@15000 rpm, G2.5 @ 20000rpm available on request



Sr. No.	Part Number	A H6	L	B	L1	L2	D1	D2	M
1	BT50-SLA10-80	10	80	35	80	136	M24	M12	M10
2	BT50-SLA10-100	10	100	35	100	136	M24	M12	M10
3	BT50-SLA10-150	10	150	35	160	136	M24	M12	M10
4	BT50-SLA12-80	12	80	42	80	136	M24	M12	M10
5	BT50-SLA12-100	12	100	42	100	136	M24	M12	M10
6	BT50-SLA12-150	12	150	42	160	136	M24	M12	M10
7	BT50-SLA14-80	14	80	42	80	136	M24	M12	M10
8	BT50-SLA14-100	14	100	42	100	136	M24	M12	M10
9	BT50-SLA14-150	14	150	42	160	136	M24	M12	M10
10	BT50-SLA16-80	16	80	48	80	136	M24	M12	M10
11	BT50-SLA16-100	16	100	48	100	136	M24	M12	M10
12	BT50-SLA16-150	16	150	48	160	136	M24	M12	M10
13	BT50-SLA18-60	18	80	48	80	136	M24	M12	M10
14	BT50-SLA18-100	18	100	48	100	136	M24	M12	M10
15	BT50-SLA18-150	18	150	48	160	136	M24	M12	M10
16	BT50-SLA20-80	20	80	52	80	136	M24	M12	M10
17	BT50-SLA20-100	20	100	52	100	136	M24	M12	M10
18	BT50-SLA20-150	20	150	52	160	136	M24	M12	M10
19	BT50-SLA25-105	25	105	65	105	60	M24	M12	M10
20	BT50-SLA25-150	25	150	65	160	60	M24	M12	M10
21	BT50-SLA32-105	32	105	65	105	65	M24	M12	M10
22	BT50-SLA32-150	32	150	72	160	65	M24	M12	M10
23	BT50-SLA40-120	40	120	72	120	75	M24	M12	M10
24	BT50-SLA40-150	40	150	90	160	75	M24	M12	M10



SK (DIN69871) (DIN ISO 7388-1)



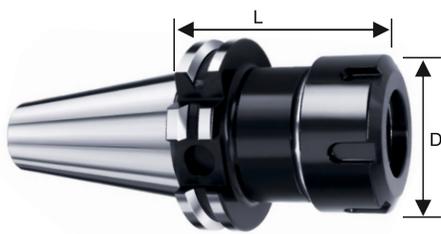
SK	d	d1	D	D1	D2	e	b	G	L1	L2	L3	L4	L5	L6
30	13	4	31.75	50.00	45	21	16.1	M12	47.80	24	5.5	16.4	19.0	15.00
40	17	4	44.45	63.55	50	27	16.1	M16	68.40	32	8.2	22.80	25.0	18.50
50	25	6	69.85	97.50	80	42	25.7	M24	101.75	47	11.5	35.5	37.7	30.00

SK40 ER COLLET CHUCK

(DIN 69871)

Maximum run out of the internal taper with respect to the external taper 0.005 mm

Balanced to G6.3@15000 rpm, G2.5 @ 20000rpm available on request



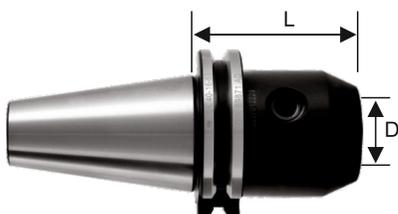
Sr. No.	Part Number	Suitable For Collet	D	L	NUT Designation
1	SK40-ER16-70	ER16	28	70	HEX TYPE(A)
2	SK40-ER16-100	ER16	28	100	HEX TYPE(A)
3	SK40-ER20-70	ER20	34	70	HEX TYPE(A)
4	SK40-ER20-100	ER20	34	100	HEX TYPE(A)
5	SK40-ER25-70	ER25	42	70	ROUND NUT(UM)
6	SK40-ER25-100	ER25	42	100	ROUND NUT(UM)
7	SK40-ER32-70	ER32	50	70	ROUND NUT(UM)
8	SK40-ER32-100	ER32	50	100	ROUND NUT(UM)
9	SK40-ER40-70	ER40	63	70	ROUND NUT(UM)
10	SK40-ER40-100	ER40	63	100	ROUND NUT(UM)

SK40 SIDE LOCK HOLDER

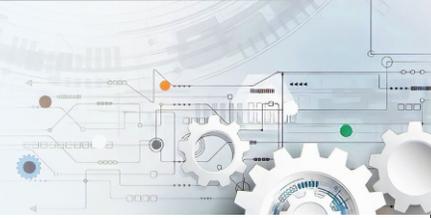
(DIN 69871)

Maximum run out of the ID with respect to the external taper 0.005 mm

Balanced to G6.3@15000 rpm, G2.5 @ 20000rpm available on request



Sr. No.	Part Number	D	L	D1
1	SK40-SLA16-100	16	100	48
2	SK40-SLA20-100	20	100	52
3	SK40-SLA25-100	25	100	65
4	SK40-SLA32-100	32	100	72
5	SK40-SLA40-100	40	100	80



SK50 ER COLLET CHUCK

(DIN 69871)

Maximum run out of the internal taper with respect to the external taper 0.005 mm

Balanced to G6.3@15000 rpm, G2.5 @ 20000rpm available on request



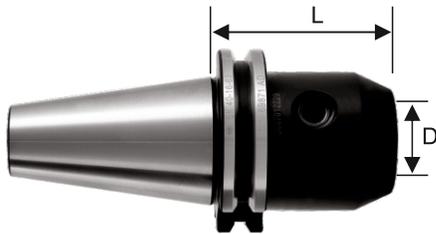
Sr. No.	Part Number	Suitable For Collet	D	L	NUT Designation
1	SK50-ER16-70	ER16	28	70	HEX TYPE(A)
2	SK50-ER16-100	ER16	28	100	HEX TYPE(A)
3	SK50-ER20-70	ER20	34	70	HEX TYPE(A)
4	SK50-ER20-100	ER20	34	100	HEX TYPE(A)
5	SK50-ER25-70	ER25	42	70	ROUND NUT(UM)
6	SK50-ER25-100	ER25	42	100	ROUND NUT(UM)
7	SK50-ER32-70	ER32	50	70	ROUND NUT(UM)
8	SK50-ER32-100	ER32	50	100	ROUND NUT(UM)
9	SK50-ER40-70	ER40	63	70	ROUND NUT(UM)
10	SK50-ER40-100	ER40	63	100	ROUND NUT(UM)

SK50 SIDE LOCK HOLDER

(DIN 69871)

Maximum run out of the ID with respect to the external taper 0.005 mm

Balanced to G6.3@15000 rpm, G2.5 @ 20000rpm available on request



Sr. No.	Part Number	D	L	D1
1	SK50-SLA16-100	16	100	48
2	SK50-SLA16-150	16	150	48
3	SK50-SLA20-100	20	100	52
4	SK50-SLA20-150	20	150	52
5	SK50-SLA25-100	25	100	65
6	SK50-SLA25-150	25	150	65
7	SK50-SLA32-100	32	100	72
8	SK50-SLA32-150	32	150	72
9	SK50-SLA40-100	40	100	80
10	SK50-SLA40-150	40	150	80

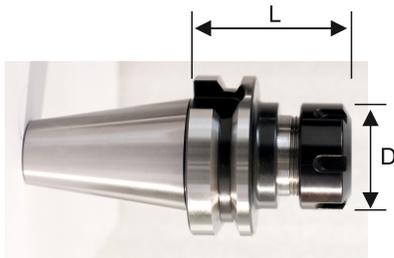


BBT30 ER COLLET CHUCK

(MAS 403, JIS B 6339)

Maximum run out of the internal taper with respect to the external taper 0.005 mm

Balanced to G6.3@15000 rpm, G2.5 @ 20000rpm available on request



Sr. No.	Part Number	Suitable For Collet	D 1	G	L	NUT
1	BBT30-ER16-70	ER16	28	M10X1	70	HEX TYPE(A)
2	BBT30-ER16-100	ER16	28	M10X1	100	HEX TYPE(A)
3	BBT30-ER20-70	ER20	34	M10X1	70	HEX TYPE(A)
4	BBT30-ER20-100	ER20	34	M10X1	100	HEX TYPE(A)
5	BBT30-ER25-70	ER25	42	M18X1	70	ROUND NUT(UM)
6	BBT30-ER25-100	ER25	42	M18X1	100	ROUND NUT (UM)
7	BBT30-ER32-70	ER32	50	M22X1.5	70	ROUND NUT(UM)
8	BBT30-ER32-100	ER32	50	M22X1.5	100	ROUND NUT(UM)
9	BBT30-ER40-70	ER40	63	M30X1.5	70	ROUND NUT (UM)
10	BBT30-ER40-100	ER40	63	M30X1.5	100	ROUND NUT(UM)

BBT40 ER COLLET CHUCK

(MAS 403, JIS B 6339)

Maximum run out of the internal taper with respect to the external taper 0.005 mm

Balanced to G6.3@15000 rpm, G2.5 @ 20000rpm available on request



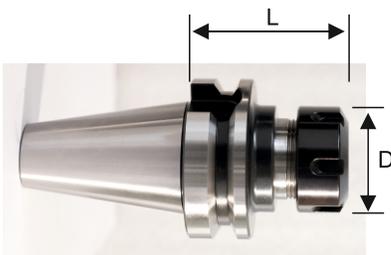
Sr. No.	Part Number	Suitable For Collet	D 1	G	L	NUT
1	BBT40-ER16-70	ER16	28	M10X1	70	HEX TYPE(A)
2	BBT40-ER16-100	ER16	28	M10X1	100	HEX TYPE(A)
3	BBT40-ER20-70	ER20	34	M10X1	70	HEX TYPE(A)
4	BBT40-ER20-100	ER20	34	M10X1	100	HEX TYPE(A)
5	BBT40-ER25-70	ER25	42	M18X1	70	ROUND NUT (UM)
6	BBT40-ER25-100	ER25	42	M18X1	100	ROUND NUT (UM)
7	BBT40-ER32-70	ER32	50	M22X1.5	70	ROUND NUT (UM)
8	BBT40-ER32-100	ER32	50	M22X1.5	100	ROUND NUT(UM)
9	BBT40-ER40-70	ER40	63	M30X1.5	70	ROUND NUT (UM)
10	BBT40-ER40-100	ER40	63	M30X1.5	100	ROUND NUT (UM)

BBT50 ER COLLET CHUCK

(MAS 403, JIS B 6339)

Maximum run out of the internal taper with respect to the external taper 0.005 mm

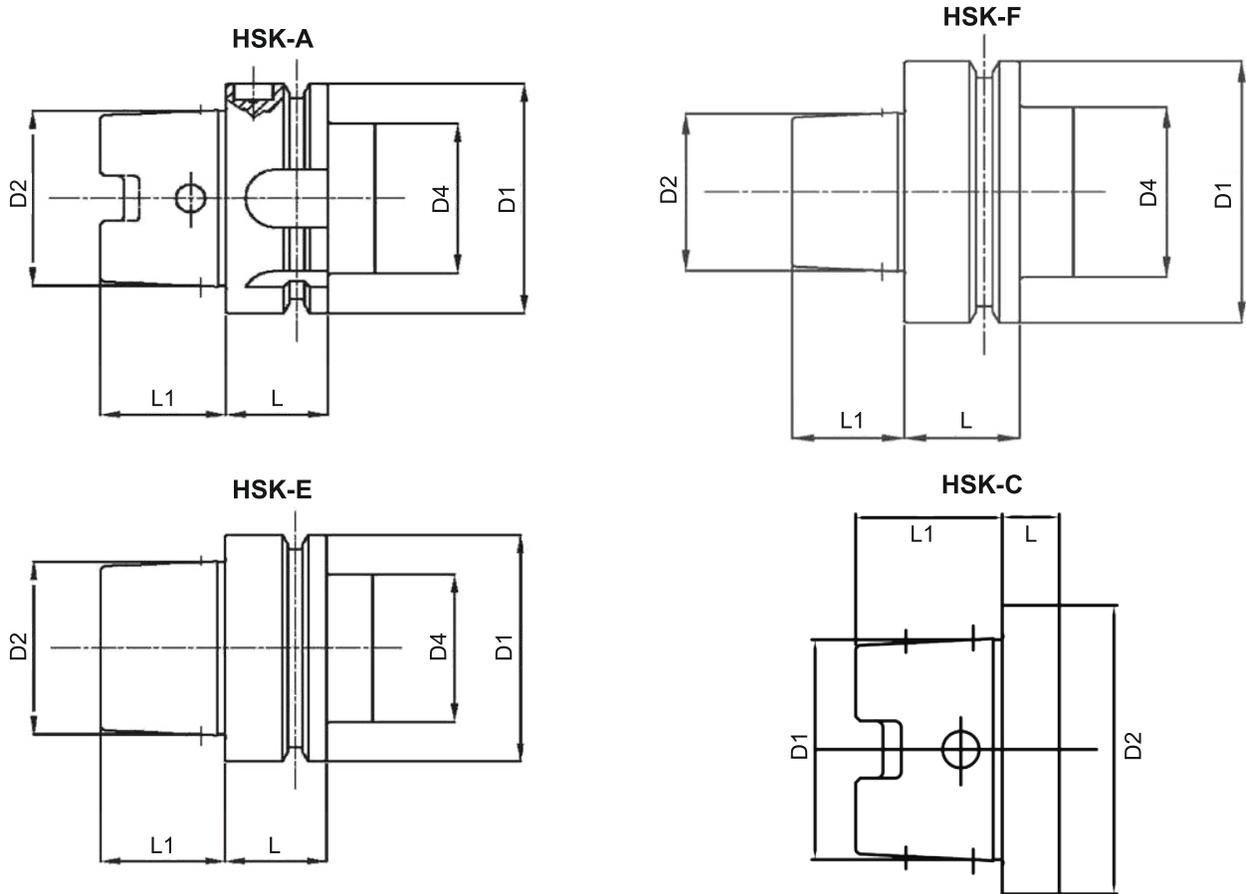
Balanced to G6.3@15000 rpm, G2.5 @ 20000rpm available on request



Sr. No.	Part Number	Suitable For Collet	D 1	G	L	NUT
1	BBT50-ER16-70	ER16	28	M10X1	70	HEX TYPE(A)
2	BBT50-ER16-100	ER16	28	M10X1	100	HEX TYPE(A)
3	BBT50-ER20-70	ER20	34	M10X1	70	HEX TYPE(A)
4	BBT50-ER20-100	ER20	34	M10X1	100	HEX TYPE(A)
5	BBT50-ER25-70	ER25	42	M18X1	70	ROUND NUT (UM)
6	BBT50-ER25-100	ER25	42	M18X1	100	ROUND NUT (UM)
7	BBT50-ER32-70	ER32	50	M22X1.5	70	ROUND NUT (UM)
8	BBT50-ER32-100	ER32	50	M22X1.5	100	ROUND NUT (UM)
9	BBT50-ER40-70	ER40	63	M30X1.5	70	ROUND NUT (UM)
10	BBT50-ER40-100	ER40	63	M30X1.5	100	ROUND NUT (UM)



HSK 25, 32, 40, 50, 63, 80, 100 FORM - A/C/E/F DATA SHEET

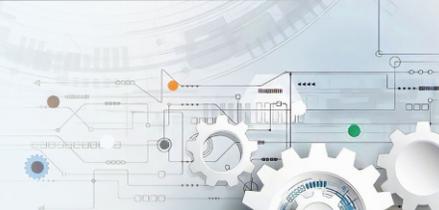


FORM	D1	D2	L	L1	D4
HSK-A	32	24	35	16	26
	40	30	35	20	34
	50	38	42	25	42
	63	48	42	32	53
	80	60	42	40	67
	100	75	42	50	85

FORM	D1	D2	L	L1
HSK-C	19	25	10	13
	24	32	10	16
	30	40	10	20
	38	50	12.5	25
	48	63	12.5	32

FORM	D1	D2	L	L1
HSK-E	25	19	10	13
	32	13	20	16
	40	10	20	20
	50	24	26	25
	63	16	26	32

FORM	D1	D2	L	L1
HSK-F	40	24	20	16
	50	30	26	20
	63	38	26	25

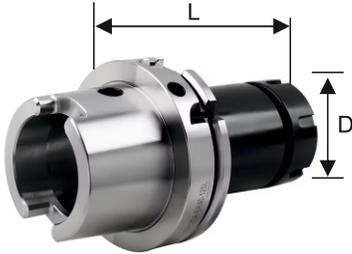


HSK50A ER COLLET CHUCK

(DIN 69893)

Maximum run out of the internal taper with respect to the external taper 0.005 mm

Balanced to G6.3@15000 rpm, G2.5 @ 20000rpm available on request



Sr. No.	Part Number	Suitable For Collet	D	L	NUT Designation
1	HSK50A-ER16-60	ER16	28	60	HEX TYPE(A)
2	HSK50A-ER16-100	ER16	34	70	HEX TYPE(A)
3	HSK50A-ER20-100	ER20	34	100	HEX TYPE(A)
4	HSK50A-ER25-70	ER25	42	70	ROUND NUT(UM)
5	HSK50A-ER25 100	ER25	42	100	ROUND NUT(UM)
6	HSK50A-ER32-80	ER32	50	80	ROUND NUT(UM)
7	HSK50A-ER32-100	ER32	50	100	ROUND NUT(UM)
8	HSK50A-ER40-80	ER40	63	80	ROUND NUT(UM)

HSK63A ER COLLET CHUCK

(DIN 69893)

Maximum run out of the internal taper with respect to the external taper 0.005 mm

Balanced to G6.3@15000 rpm, G2.5 @ 20000rpm available on request



Sr. No.	Part Number	Suitable For Collet	D	L	NUT Designation
1	HSK63-A-ER11A-75	ER11	19	75	HEX TYPE(A)
2	HSK63-A-ER11A-100	ER11	19	100	HEX TYPE(A)
3	HSK63-A-ER11M-100	ER11	16	100	MINI TYPE(M)
4	HSK63-A-ER16A-100	ER16	28	100	HEX TYPE(A)
5	HSK63-A-ER16A-130	ER16	28	130	HEX TYPE(A)
6	HSK63-A-ER16A-150	ER16	28	150	HEX TYPE(A)
7	HSK63-A-ER20A-100	ER20	34	100	HEX TYPE(A)
8	HSK63-A-ER25-80	ER25	42	80	ROUND NUT (UM)
9	HSK63-A-ER25-100	ER25	42	100	ROUND NUT (UM)
10	HSK63-A-ER32-80	ER32	50	80	ROUND NUT (UM)
11	HSK63-A-ER40-80	ER40	63	80	ROUND NUT (UM)

HSK100A ER COLLET CHUCK

Maximum run out of the internal taper with respect to the external taper 0.005 mm

Balanced to G6.3@15000 rpm, G2.5 @ 20000rpm available on request



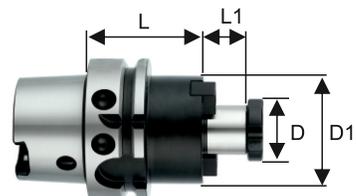
Sr. No.	Part Number	Suitable For Collet	D	L	NUT Designation
1	HSK100A-ER25-100	ER25	42	100	ROUND NUT (UM)
2	HSK100A-ER32-100	ER32	50	100	ROUND NUT(UM)
3	HSK100A-ER40-100	ER40	63	100	ROUND NUT (UM)

HSK50A FACEMILL HOLDER

(DIN 69893)

Maximum run out of the OD with respect to the external taper 0.005 mm

Balanced to G6.3@15000 rpm, G2.5 @ 20000rpm available on request



Sr. No.	Part Number	D	D1	L	L1
1	HSK50A-FMH16-50	16	38	50	17
2	HSK50A-FMH22-50	22	48	50	19
3	HSK50A-FMH27-50	27	60	50	21
4	HSK50A-FMH32-50	32	70	50	24
5	HSK50A-FMH40-50	40	80	50	27

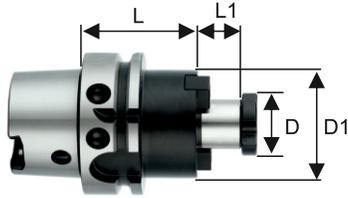


HSK63A FACEMILL HOLDER

(DIN 69893)

Maximum run out of the OD with respect to the external taper 0.005 mm

Balanced to G6.3@15000 rpm, G2.5 @ 20000rpm available on request



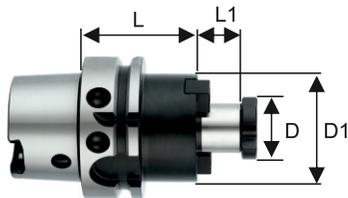
Sr. No.	Part Number	D	D1	L	L1
1	HSK63A-FMH16-100	16	38	100	17
2	HSK63A-FMH22-100	22	48	100	19
3	HSK63A-FMH27-100	27	60	100	21
4	HSK63A-FMH32-100	32	70	100	24
5	HSK63A-FMH40-100	40	80	100	27

HSK100A FACEMILL HOLDER

(DIN 69893)

Maximum run out of the OD with respect to the external taper 0.005 mm

Balanced to G6.3@15000 rpm, G2.5 @ 20000rpm available on request



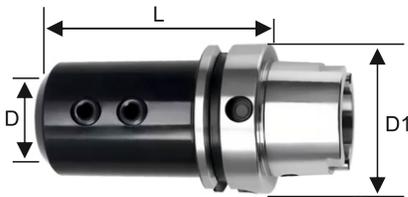
Sr. No.	Part Number	D	D1	L	L1
1	HSK100-FMH16-60	16	38	60	17
2	HSK100A-FMH22-60	22	48	60	19
3	HSK100A-FMH27-60	27	60	60	21
4	HSK100A-FMH32-60	32	70	60	24
5	HSK100A-FMH40-60	40	80	60	27

HSK50A SIDE LOCK HOLDER

(DIN 69893)

Maximum run out of the ID with respect to the external taper 0.005 mm

Balanced to G6.3@15000 rpm, G2.5 @ 20000rpm available on request



Sr. No.	Part Number	D	D1	L	M
1	HSK50A-SLA16-100	16	100	48	M14
2	HSK50A-SLA20-100	20	100	52	M16
3	HSK50A-SLA25-100	25	100	65	M18
4	HSK50A-SLA32-100	32	100	72	M18
5	HSK50A-SLA40-100	40	100	80	M20

HSK63A SIDE LOCK HOLDER

(DIN 69893)

Maximum run out of the ID with respect to the external taper 0.005 mm

Balanced to G6.3@15000 rpm, G2.5 @ 20000rpm available on request



Sr. No.	Part Number	D	D1	L	M
1	HSK63A-SLA16-100	16	100	48	M14
2	HSK63A-SLA20-100	20	100	52	M16
3	HSK63A-SLA25-100	25	100	65	M18
4	HSK63A-SLA32-100	32	100	72	M18
5	HSK63A-SLA40-100	40	100	80	M20

HSK100A SIDE LOCK HOLDER

(DIN 69893)

Maximum run out of the ID with respect to the external taper 0.005 mm

Balanced to G6.3@15000 rpm, G2.5 @ 20000rpm available on request



Sr. No.	Part Number	D	D1	L	M
1	HSK100A-SLA16-100	16	100	48	M14
2	HSK100A-SLA20-100	20	100	52	M16
3	HSK100A-SLA25-100	25	100	65	M18
4	HSK100A-SLA32-100	32	100	72	M18
5	HSK100A-SLA40-100	40	100	80	M20



MT ER COLLET CHUCK

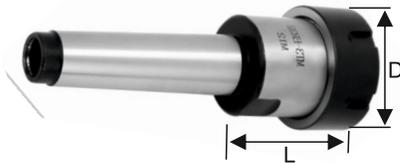
Maximum run out of the internal taper with respect to the external taper 0.005 mm



Sr. No.	Part Number	D	L	D2	Collet Clamping Capacity	Suitable For Collet	Spanner Designation
1	MT2-ER16-40	28	40	M6	0.5-10	ER16	ER16
2	MT2-ER20-45	34	45	M8	1.0-13	ER20	ER20
3	MT2-ER25-47	42	47	M10	1.0-16	ER25	ER25
4	MT3-ER16-40	28	40	M6	1.0-10	ER16	ER16
5	MT3-ER32-70	50	70	M12	2.0-20	ER32	ER32
6	MT3-ER40-80	63	80	M16	3.0-26	ER40	ER40

MT2 ER COLLET CHUCK

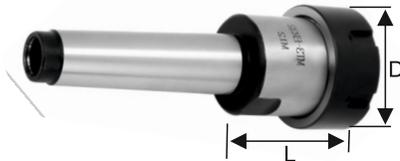
Maximum run out of the internal taper with respect to the external taper 0.005 mm



Sr. No.	Part Number	Suitable For Collet	D1	L	D2
1	MT2-ER16-45	ER16	28	45	M6
2	MT2-ER20-45	ER20	34	45	M8
3	MT2-ER25-45	ER25	42	45	M12
4	MT2-ER32-45	ER32	50	45	M12
5	MT2-ER40-45	ER40	63	45	M16

MT3 ER COLLET CHUCK

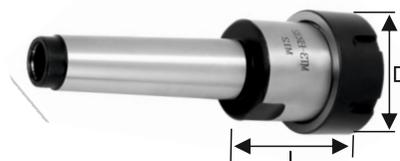
Maximum run out of the internal taper with respect to the external taper 0.005 mm



Sr. No.	Part Number	Suitable For Collet	D1	L	D2
1	MT3-ER16-45	ER16	28	45	M6
2	MT3-ER20-45	ER20	34	45	M8
3	MT3-ER25-45	ER25	42	45	M12
4	MT3-ER32-45	ER32	50	45	M12
5	MT3-ER40-45	ER40	63	45	M16

MT4 ER COLLET CHUCK

Maximum run out of the internal taper with respect to the external taper 0.005 mm



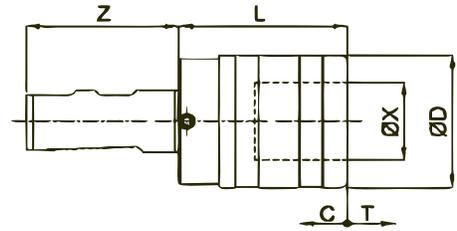
Sr. No.	Part Number	Suitable For Collet	D1	L	D2
1	MT4-ER16-45	Er16	28	45	M6
2	MT4-ER20-45	ER20	34	45	M8
3	MT4-ER25-45	ER25	42	45	M12
4	MT4-ER32-45	ER32	50	45	M12
5	MT4-ER40-45	Er40	63	45	M16



TAP CHUCK TENSION AND COMPRESSION

Adaptor Type – on Straight Shank

Weldon DIN / 1835 B+E
DIN 1835 / A

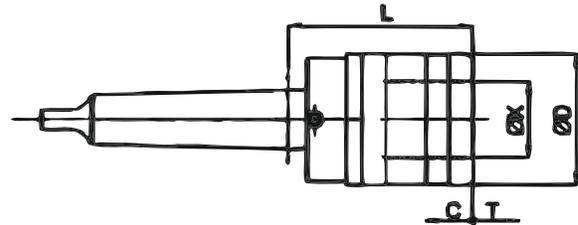


- Quick Change Tapping Chuck Tension & Compression Type

Item Name	Adaptor Type	Copenmrssion		Type Size	ØX	ØD	Z	L
		Minus L1	Plus L1					
DA16SE1-L39	SE1/SES1	7.5	7.5	M3 toM12	19	36	51	39
DA20SE1-L39							53	
DA25SE1-L63	SE2/SES2	12.5	12.5	M8 toM20	31	36	53	63
DA32SE1-L63							60	
DA32SE1-L70	SE3/SES3	20	20	M14 toM33	48	36	53	170
DA40SE1-L124							60	124

Adaptor Type – on Morse Taper Shank

DIN 228E / DIN 238
Type A / Type B

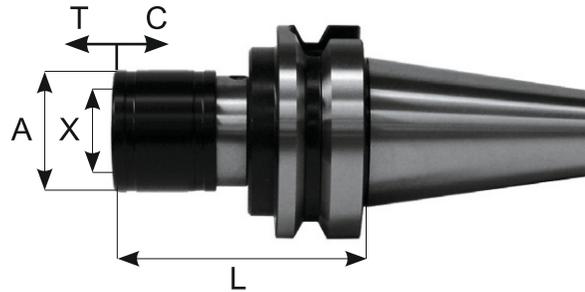


- Quick Change Tapping Chuck Tension & Compression Type

Item Name	Adaptor Type	Copenmrssion		Type Size	ØX	ØD	L
		Minus L1	Plus L1				
MT2SE1-L47	SE1/SES1	7.5	7.5	M3 toM12	19	36	47
MT3SE1-L47							
MT3SE1-L71	SE2/SES2	12.5	12.5	M8 toM20	31	53	71
MT4SE1-L72							72
MT4SE1-L105	SE3/SES3	20	20	M14 toM33	48	78	105
MT5SE1-L106							106



TENSION AND COMPRESSION TAP HOLDERS

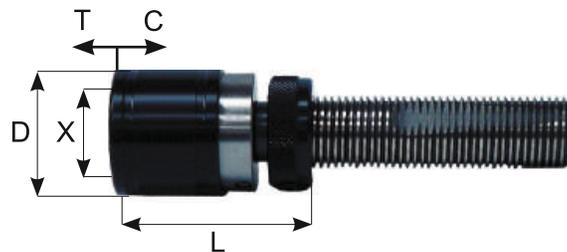


Quick Change Tapping Attachment also available on SK and HSK Series

Sr. No.	Part Number	Suitable For Collet	TAP	X	A	L	T	C
1	BT30-SE0-L72	SE0				72		
2	BT40-SE0-L74	SE1/SES1	M1-M10	13	26	74	6.5	6.5
3	BT50-SE0-L81	SE1/SES1				81		
4	BT30-SE1-L61	SE1/SES1				61		
5	BT40-SE1-L67	SE1/SES1	M3-M12	19	36	67	7.5	7.5
6	BT50-SE1-L77	SE1/SES1				77		
7	BT40-SE2-L94	SE2/SES2	M8-M20	31	53	94	12.5	12.5
8	BT50-SE2-L101	SE2/SES2				101		
9	BT40-SE3-L164	SE3/SES3	M14-M33	48	78	164	20	20
10	BT50-SE3-L141	SE3/SES3				141		
11	BT40-SE4-L164	SE4/SES4	M22-M48	60	96	164	22.5	22.5
12	BT50-SE4-L161	SE4/SES4				161		

TENSION/COMPRESSION QUICK CHANGE TAP HOLDERS

DIN 6327



Sr. No.	Part Number	TAP	X	D	L	T	C
1	TR16-THTC0-L49	M1-M10	13	26	49	6.5	7.5
2	TR20-THTC0-L49				49		
3	TR16-THTC1-L51				51		
4	TR20-THTC1-L51				51		
5	TR28-THTC1-L51	M3-M12	19	36	51	7.5	7.5
6	TR36-THTC1-L53				53		
7	TR20-THTC2-L75				75		
8	TR28-THTC2-L75	M8-M20	31	53	75	12.5	12.5
9	TR36-THTC2-L77				77		
10	TR28-THTC3-L108				108		
11	TR36-THTC3-L110	M14-M33	48	78	110	20	20
12	TR48-THTC3-L114				114		
11	TR36-THTC4-L121	M22-M48	60	96	121	22.5	22.5
14	TR48-THTC4-L125				125		



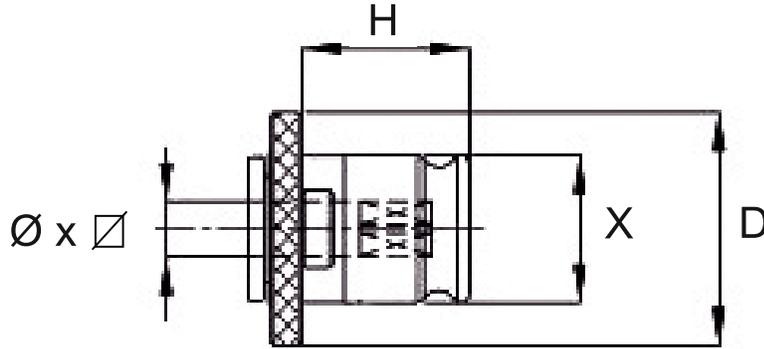
TAP SHANK DIMENSIONS TO DIN

Nm	Ø x ℓ	DIN 352	DIN 353	DIN 371	DIN 374	DIN 376	DIN 2182	DIN 2183
0.1	2.5x2.1	M1		M1		M3.5	1/16"	
0.1		M1.1		M1.1	M3.5			
0.1		M1.2		M1.2				
0.15		M1.4		M1.4				
0.2		M1.6		M1.6				
0.25		M1.8		M1.8				
0.3	2.8x2.1	M2		M2	M4	M4	3/32"	5/32"
0.3		M2.2		M2.2				
0.4		M2.5		M2.5				
0.5	3.5x2.7	M3		M3	M5	M5	1/8"	
0.8	4x3	M3.5		M3.5				
1.6	4.5x3.4	M4		M4	M6	M6	5/32"	1/4"
2.5	6x4.9	M5		M5			7/32"	
5		M6		M6				
10		M8				M8	M8	
18	7x5.5	M10	G 1/8"		M10	M10	1/4"	3/8"
10	8x6.2			M8			5/16"	7/16"
28	9x7	M12			M12	M12	3/8"	1/2"
18	10x8			M10				
45	11x9	M14	G 1/4"		M14	M14		9/16"
50	12x9	M16	G 3/8"		M16	M16		5/8"
80	14x11	M18			M18	M18		11/16"
90	16x12	M20	G 1/2"		M20	M20		13/16"
100	18x14.5	M22	G 5/8"		M22	M22		7/8"
160		M24			M24	M24		15/16"
180		M27	G 3/4"		M27	M27		1"
280	22x18	M30	G 7/8"		M30	M30		1 1/8"
320	25x20	M33	G 1"		M33	M33		1 1/4"
420	28x22	M36	G1 1/8"		M36	M36		1 3/8"
480	32x24	M39	G1 1/4"		M39	M39		1 1/2"
630		M42			M42	M42		1 5/8"
710		M45	G1 3/8"		M45	M45		1 3/4"
900	36x29	M48	G1 1/2"		M48	M48		1 7/8"
				G1 3/4"				
				G2"				
1100	40x32	M52/M56	G2 1/4"		M52	M52/M56		2"
			G2 1/2"					2 1/4"
1400	45x35	M60				M60		
1800	50x39	M64	G2 3/4"			M64		2 1/2"
				G3"				
2000	56x44	M68	G3 1/4"			M68		2 3/4"
								3"
	56x45							



QUICK CHANGE TAP ADAPTOR FOR TAPPING WITHOUT SAFETY CLUTCH

FOR TAPS shank DIN352/371/374/376



Part No	TYPE	TAP	Ø x ∅	X	H	D
SE0-2.5X2.1	0	M1-M1.8	2.5X2.1	13	19.5	22
SE0-2.8X2.1		M2-M2.2-M2.5-M4	2.8X2.1			
SE0-3.5X2.7		M3	3.5X2.7			
SE0-4X3		M3.5	4X3			
SE0-4.5X3.4		M4	4.5X3.4			
SE0-6X4.9		M5-M6-M8	6X4.9			
SE0-7X5.5		M10	7X5.5			
SE0-8X6.2		M8	8X6.2			

SE1-2.5x2.1	1	M1-M1.8	2.5x2.1	19	21.5	30
SE1-2.8x2.1		M2-M2.2-M2.5-M4	2.8x2.1			
SE1-3.5X2.7		M3	3.5X2.7			
SE1-4X3		M3.5	4X3			
SE1-4.5X3.4		M4	4.5X3.4			
SE1-6X4.9		M5-M6-M8	6X4.9			
SE1-7X5.5		M10	7X5.5			
SE1-8X6.2		M8	8X6.2			
SE1-9X7		M12	9X7			
SE1-10X8		M10	10X8			
SE1-11X9		M14	11X9			

Part No	TYPE	TAP	Ø x ∅	X	H	D
SE2-3.5X2.7	2	M3	3.5X2.7	31	35	48
SE2-4X3		M3.5	4X3			
SE2-4.5X3.4		M4	4.5X3.4			
SE2-6X4.9		M5-M6-M8	6X4.9			
SE2-7X5.5		M10	7X5.5			
SE2-8X6.2		M8	8X6.2			
SE2-9X7		M12	9X7			
SE2-10X8		M10	10X8			
SE2-11X9		M14	11X9			
SE2-12X9		M16	12X9			
SE2-14X11		M18	14X11			
SE2-16X12		M20	16X12			
SE2-18X14.5		M22-M24	18X14.5			

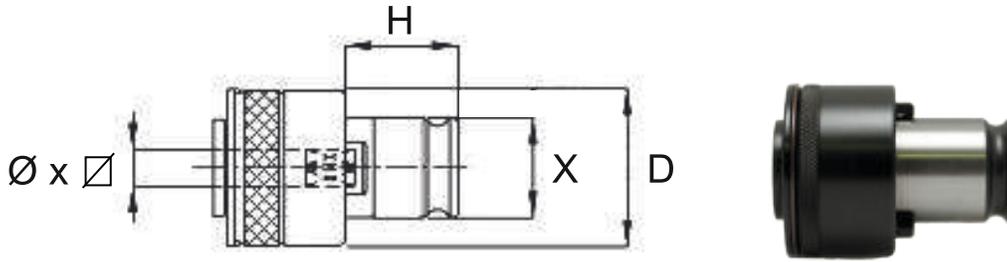
SE3-9X7	3	M12	9X7	48	55.5	40
SE3-10X8		M10	10X8			
SE3-11X9		M14	11X9			
SE3-12X9		M16	12X9			
SE3-14X11		M18	14X11			
SE3-16X12		M20	16X12			
SE3-18X14.5		M22-M24	18X14.5			
SE3-20X16		M27	20X16			
SE3-22X18		M30	22X18			
SE3-25X20		M33	25X20			
SE3-28X22		M36	28X22			

SE4-16X12	4	M20	16X12	60	62.8	90
SE4-18X14.5		M22-M24	18X14.5			
SE4-20X16		M27	20X16			
SE4-22X18		M30	22X18			
SE4-25X20		M33	25X20			
SE4-28X22		M36	28X22			
SE4-32X24		M39-M42	32X24			
SE4-36X29		M45-M48	36X29			



QUICK CHANGE ADAPTORS FOR TAPPING WITH SAFTEY CLUTCH

FOR TAPS shank DIN352/371/374/376



Part No	TYPE	TAP	Ø X ∅	X	H	D
SES0-2.5X2.1	0	M1-M1.8	2.5X2.1	13	19.5	24
SES0-2.8X2.1		M2-M2.2-M2.5-M4	2.8X2.1			
SES0-3.5X2.7		M3	3.5X2.7			
SES0-4X3		M3.5	4X3			
SES0-4.5X3.4		M4	4.5X3.4			
SES0-6X4.9		M5-M6-M8	6X4.9			
SES0-7X5.5		M10	7X5.5			

SES1-2.5x2.1	1	M1-M1.8	2.5x2.1	19	21.5	32.5
SES1-2.8x2.1		M2-M2.2-M2.5-M4	2.8x2.1			
SES1-3.5X2.7		M3	3.5X2.7			
SES1-4X3		M3.5	4X3			
SES1-4.5X3.4		M4	4.5X3.4			
SES1-6X4.9		M5-M6-M8	6X4.9			
SES1-7X5.5		M10	7X5.5			
SES1-8X6.2		M8	8X6.2			
SES1-9X7		M12	9X7			
SES1-10X8		M10	10X8			
SES1-11X9	M14	11X9				

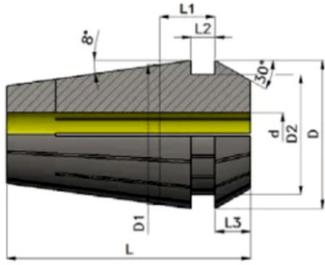
Part No	TYPE	TAP	Ø X ∅	X	H	D
SES2-3.5X2.7	2	M3	3.5X2.7	31	35	50.5
SES2-4X3		M3.5	4X3			
SES2-4.5X3.4		M4	4.5X3.4			
SES2-6X4.9		M5-M6-M8	6X4.9			
SES2-7X5.5		M10	7X5.5			
SES2-8X6.2		M8	8X6.2			
SES2-9X7		M12	9X7			
SES2-10X8		M10	10X8			
SES2-11X9		M14	11X9			
SES2-12X9		M16	12X9			
SES2-14X11		M18	14X11			
SES2-16X12		M20	16X12			
SES2-18X14.5		M22-M24	18X14.5			

SES3-9X7	3	M12	9X7	48	55.5	72
SES3-10X8		M10	10X8			
SES3-11X9		M14	11X9			
SES3-12X9		M16	12X9			
SES3-14X11		M18	14X11			
SES3-16X12		M20	16X12			
SES3-18X14.5		M22-M24	18X14.5			
SES3-20X16		M27	20X16			
SES3-22X18		M30	22X18			
SES3-25X20		M33	25X20			
SES3-28X22		M36	28X22			

SES4-16X12	4	M20	16X12	60	62.8	95
SES4-18X14.5		M22-M24	18X14.5			
SES4-20X16		M27	20X16			
SES4-22X18		M30	22X18			
SES4-25X20		M33	25X20			
SES4-28X22		M36	28X22			
SES4-32X24		M39-M42	32X24			
SES4-36X29		M45-M48	36X29			



COLLET STANDARD MATRIC DIN6499



Sr. No.	Part Number	L	L1	L2	L3	D	D1	D2
1	ER11	18	3.8	2	2.5	11.5	11	9.5
2	ER16	27.5	6.26	2.7	4.01	17	16	13.8
3	ER20	31.5	6.36	2.8	4.8	21	20	17.4
4	ER25	34	6.66	3.1	5	26	25	22
5	ER32	40	7.16	3.6	5.5	33	32	29.2
6	ER40	46	7.66	4.1	7	41	40	36.2
7	ER50	60	12.6	5.5	8.5	52	50	46

COLLET STANDARD MATRIC

Max TIR 0.01mm

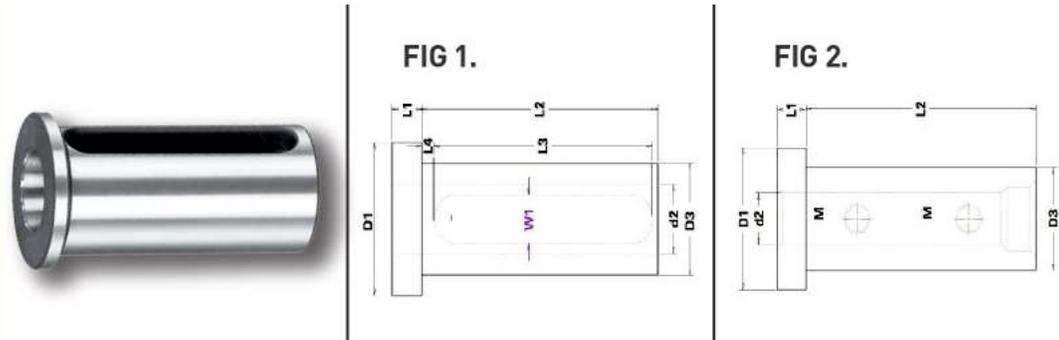


Sr. No.	Collet Capacity Max -Min	ER16	ER20	ER25	ER32	ER40	ER50
1	1.0-0.5	16ER010	20ER010	25ER010	32ER010	40ER010	
2	1.5-1.0	16ER015	20ER015	25ER015	32ER015	40ER015	
3	2.0-1.0	16ER020	20ER020	25ER020	32ER020	40ER020	
4	2.5-1.5	16ER025	20ER025	25ER025	32ER025	40ER025	
5	3.0-2.0	16ER030	20ER030	25ER030	32ER030	40ER030	
6	3.5-2.5	16ER035	20ER035	25ER035	32ER035	40ER035	
7	4.0-3.0	16ER040	20ER040	25ER040	32ER040	40ER040	
8	4.5-3.5	16ER045	20ER045	25ER045	32ER045	40ER045	
9	5.0-4.0	16ER050	20ER050	25ER050	32ER050	40ER050	
10	5.5-4.5	16ER055	20ER055	25ER055	32ER055	40ER055	
11	6.0-5.0	16ER060	20ER060	25ER060	32ER060	40ER060	
12	6.5-5.5	16ER065	20ER065	25ER065	32ER065	40ER065	
13	7.0-6.0	16ER070	20ER070	25ER070	32ER070	40ER070	
14	7.5-6.5	16ER075	20ER075	25ER075	32ER075	40ER075	
15	8.0-7.0	16ER080	20ER080	25ER080	32ER080	40ER080	
16	8.5-7.5	16ER085	20ER085	25ER085	32ER085	40ER085	
17	9.0-8.0	16ER090	20ER090	25ER090	32ER090	40ER090	
18	9.5-8.5	16ER095	20ER095	25ER095	32ER095	40ER095	
19	10.0-9.0	16ER100	20ER100	25ER100	32ER100	40ER100	
20	11.0-10.0		20ER110	25ER110	32ER110	40ER110	50ER120
21	12.0-11.0		20ER120	25ER120	32ER120	40ER120	50ER120
22	13.0-12.0		20ER130	25ER130	32ER130	40ER130	50ER140
23	14.0-13.0			25ER140	32ER140	40ER140	50ER140
24	15.0-14.0			25ER150	32ER150	40ER150	50ER160
25	16.0-15.0			25ER160	32ER160	40ER160	50ER160
26	17.0-16.0				32ER170	40ER170	50ER180
27	18.0-17.0				32ER180	40ER180	50ER180
28	19.0-18.0				32ER190	40ER190	50ER200
29	20.0-19.0				32ER200	40ER200	50ER200
30	21.0-20.0					40ER210	50ER220
31	22.0-21.0					40ER220	50ER220
32	23.0-22.0					40ER230	50ER240
33	24.0-23.0					40ER240	50ER240
34	25.0-24.0					40ER250	50ER260
35	26.0-25.0					40ER260	50ER260
36	27.0-26.0						50ER280
37	28.0-27.0						50ER280
38	29.0-28.0						50ER300
39	30.0-29.0						50ER300
40	31.0-30.0						50ER320
41	32.0-31.0						50ER320
42	33.0-32.0						50ER340
43	34.0-33.0						50ER340



CNC Turret Sleeve

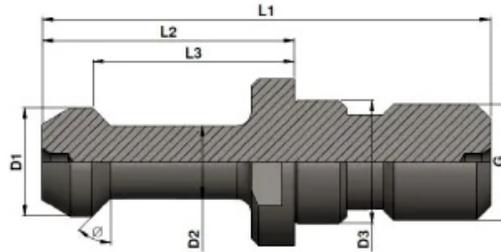
CNC Lathe Busing (Metric Sizes)



Sr. No.	Part Name	OD (D3)	OD (D2)	OD (D1)	W1	L1	L2	L3	L4	M THREAD	FIG.
1	TS-16x8	16	8	22	-	5	40	-	-	M4	F2
2	TS-16x10	16	10	22	7	5	40	32	3	-	F1
3	TS-20x8	20	8	26	-	5	50	-	-	M5	F2
4	TS-20x10	20	10	26	-	5	50	-	-	M5	F2
5	TS-20x12	20	12	26	9	5	50	42	3	-	F1
6	TS-25x8	25	8	32	-	5	50	-	-	M6	F2
7	TS-25x10	25	10	32	-	5	50	-	-	M6	F2
8	TS-25x12	25	12	32	-	5	50	-	-	M6	F2
9	TS-25x16	25	16	32	10	5	50	42	3	-	F1
10	TS-32x8	32	8	38	-	5	60	-	-	M6	F2
11	TS-32x10	32	10	38	-	5	60	-	-	M8	F2
12	TS-32x12	32	12	38	-	5	60	-	-	M8	F2
13	TS-32x16	32	16	38	10	5	60	52	3	-	F1
14	TS-32x20	32	20	38	10	5	60	52	3	-	F1
15	TS-32x25	32	25	38	10	5	60	52	3	-	F1
16	TS-40x8	40	8	48	-	5	80	-	-	M6	F2
17	TS-40x10	40	10	48	-	5	80	-	-	M8	F2
18	TS-40x12	40	12	48	-	5	80	-	-	M6	F2
19	TS-40x16	40	16	48	12	5	80	74	2	-	F1
20	TS-40x20	40	20	48	12	5	80	74	2	-	F1
21	TS-40x25	40	25	48	12	5	80	74	2	-	F1
22	TS-40x32	40	32	48	12	5	80	74	2	-	F1

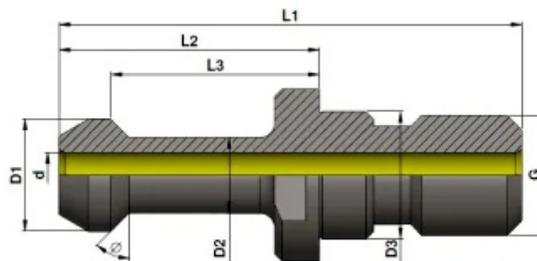


MAS 403 BT (DIN ISO 7388-3)

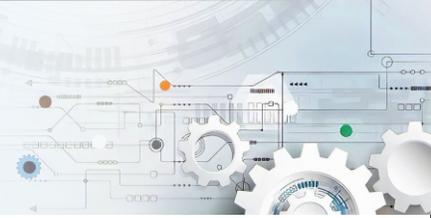


Sr. No.	Part Number	Taper	D1	D2	L1	G	L2	Angle	D3	L3
1	BT 30-30°	30	11	7	43	M12	23	30	12.5	18
2	BT 30-45°	30	11	7	43	M12	23	45	12.5	18
3	BT 40-30°	40	15	10	60	M16	35	30	17	18
4	BT 40-45°	40	15	10	60	M16	35	45	17	28
5	BT 40-90°	40	15	10	60	M16	35	90	17	28
6	BT 40-90° S	40	15	10	50	M16	25	90	17	28
7	BT 50-30°	50	23	17	85	M24	45	30	25	18
8	BT 50-45°	50	23	17	85	M24	45	45	25	35
9	BT 50-90°	50	23	17	85	M24	45	90	25	35
10	BT 50-90° S	50	24	18	85	M24	31	90	23	35

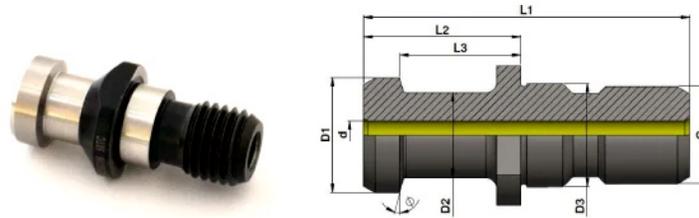
MAS 403 BT WITH TC HOLE (DIN ISO 7388-3)



Sr. No.	Part Number	Taper	D1	D2	L1	G	L2	Angle	D3	d	L3
1	BT 30-45°	30	11	7	43	M12	23	45	12.5	2	18
2	BT 40-30°	40	15	10	60	M16	35	30	17	5	28
3	BT 40-45°	40	15	10	60	M16	35	45	17	4	28
4	BT 40-90°	40	15	10	60	M16	35	90	17	5	28
5	BT 50-30°	50	23	17	85	M24	45	30	25	8.5	35
6	BT 50-45°	50	23	17	85	M24	45	45	25	8.5	35
7	BT 50-90°	50	23	17	85	M24	45	90	25	8.5	35

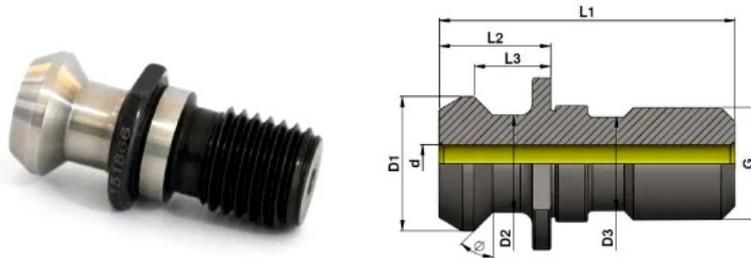


JIS 6339 SIMILAR TO DIN 69872-A TC

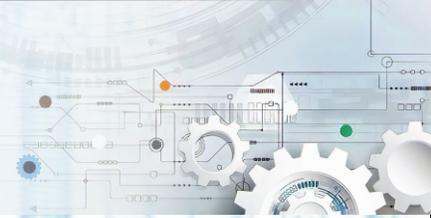


Sr. No.	Part Number	Taper	D1	D2	L1	G	L2	Angle	D3	d	L3
1	BT 40-15°	40	19	14	54	M16	19	15	17	7	23
2	BT 50-15°	50	28	21	74	M24	34	15	25	11.5	25

MAZAK WITH TC



Sr. No.	Part Number	Taper	D1	D2	L1	G	L2	Angle	D3	d	L3
1	BT 40-45°	40	18.79	12.44	44.1	M16	19.1	45	17	7	17
2	BT 50-45°	50	28.95	20.82	65.2	M24	25.2	45	25	10	25



Application

ER Lock Nuts (Standard / Bearing Type ERC Variants)

Machine Compatibility:

- CNC Milling Machines
- VMC/HMC
- High-Speed Machining Centers

Supported Operations:

- Milling
- Drilling
- Reaming
- Finishing

Key Advantages:

- Uniform clamping improves machining accuracy
- Bearing type reduces tightening torque
- Reduces vibration at high RPM
- Improves tool life and surface finish

Recommended Use:

- High-speed & precision machining
- Fine finishing operations

ER Collet Holders (BT30/BT40/BT50)

Machine Compatibility:

- CNC, VMC
- CNC HMC
- Vertical Machining Centers

Supported Operations:

- End Milling
- Drilling
- Slot Milling
- Light to Medium Cutting

Key Advantages:

- One holder supports multiple tool diameters
- Precision ground for low run-out
- High rigidity for stable machining
- Easy tool changes

Recommended Use:

- Job shops & mass production
- General-purpose CNC operations

HSK Tool Holders (HSK 25,30,40,50,63,80,100)

Machine Compatibility:

- High-Speed CNC Machines
- 5-Axis Machining Centers
- Aerospace & Automotive
- CNC Lines

Supported Operations:

- High-speed milling
- Precision finishing
- Contour & profile machining

Key Advantages:

- Dual-contact system ensures extreme rigidity
- No accuracy loss at high RPM
- Excellent balance for high-speed work
- Improves spindle life

Recommended Use:

- Aerospace & automotive components
- High-precision applications

Side Lock Tool Holders

Machine Compatibility:

- CNC Milling Machines
- VMC/HMC

Supported Operations:

- Heavy milling
- Roughing
- Deep cutting operations

Key Advantages:

- Mechanical locking prevents tool pull-out
- Strong grip for aggressive cutting
- Simple and robust design

Recommended Use:

- Rough machining
- Heavy-duty cutting jobs



Morse Taper & Taper Shanks (MT1, MT2, MT3, MT4, MT5)

Machine Compatibility:

- Drilling Machines
- Radial Drilling Machines
- CNC & Conventional Machines

Supported Operations:

- Drilling
- Boring
- Tapping

Key Advantages:

- Self-locking taper design
- Easy installation and removal
- Durable and cost-effective

Recommended Use:

- Industrial drilling applications
- Conventional & CNC shops

CNC Turret Sleeves

Machine Compatibility:

- CNC Turning Centers
- CNC Lathe Machines

Supported Operations:

- Turning
- Boring
- Tool mounting in turret

Key Advantages:

- Accurate tool positioning
- Improves repeatability
- Reduces setup time in production

Recommended Use:

- High-volume turning operations

Quick-Change Tapping Attachments

Machine Compatibility:

- CNC Machines
- Drilling Machines
- Tapping Machines

Supported Operations:

- Internal tapping

Key Advantages:

- Faster tool changes
- Maintains thread depth accuracy
- Reduces tap breakage
- Stop Tap brakage.

Recommended Use:

- Mass production tapping jobs
- Threading operations

Pull Studs (BT30, BT40, Bt50)

Machine Compatibility:

- CNC VMC
- CNC HMC

Supported Operations:

- Automatic tool clamping (ATC systems)

Key Advantages:

- Secure spindle-to-holder connection
- Heat-treated for high tensile strength
- Ensures safety at high RPM

Recommended Use:

- All CNC machines with ATC

APPLICATION INDUSTRIES

- ✓ Automotive
- ✓ Aerospace
- ✓ Tool Rooms
- ✓ General Engineering
- ✓ Precision Manufacturing

We Customize The Products As Per Your Requirement Or Request.



ISO 9001-2015 KVQA

SUBHADRAA

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