

Crafted for Precision &
Productivity



SIDDHI TOOLING SYSTEMS



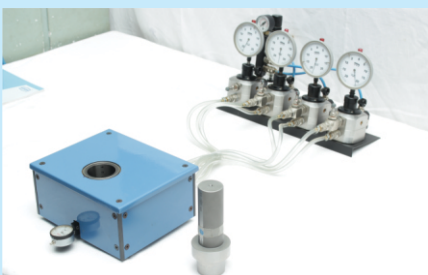
State of Art Manufacturing Set Up



Machine Shop



Quality

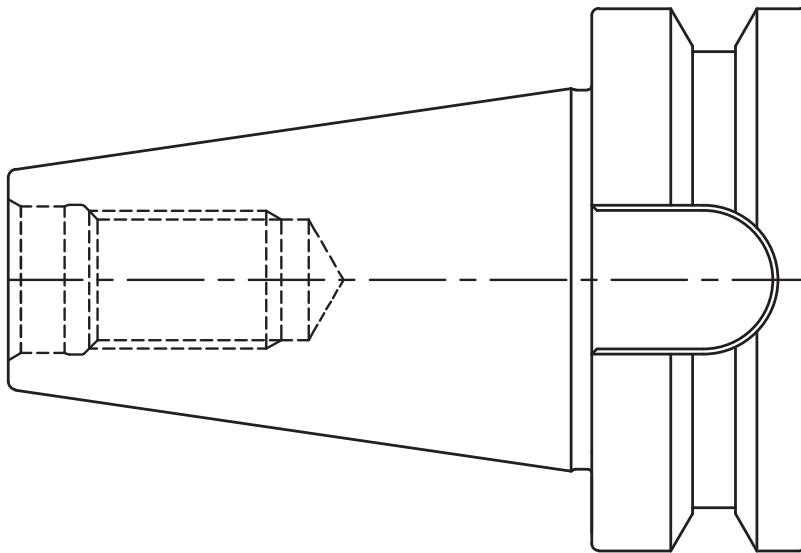


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● BELIEVES THE INFORMATION GIVEN IN THE CATLOUGE IS TURE AND CORRECT EVEN THEN WE HAVE NO RESPONSIBILITY FOR ANY ERROR OF ANY TYPE.OUR PRODUCTS ARE UNDER DEVELOPMENT FOR IMPROVEMENTS AND WE KEEP THE RIGHT TO CHANGE THE CATLOUGE MATTER WITHOUT KEEPING YOU INFORMED PLEASE. ●

Precision Tool Holder BT (MAS 403) DIN ISO 7388-2



● INDEX ●

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TECHNICAL SPECIFICATION

At **SIDDHI**, We manufacture Tool holders as per (MAS BT 403, SK DIN 69871, ISO DIN 2080, HSK DIN 69893.)

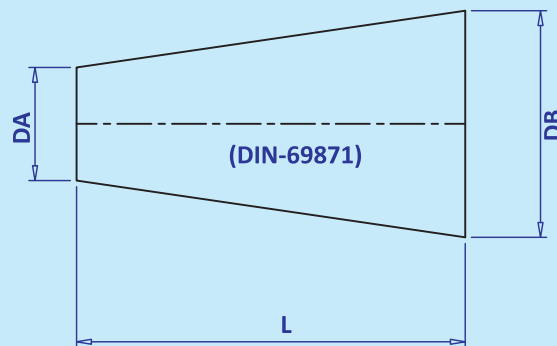
We maintain **Cone** Tolerance as per class **AT 3**.

Collet Chuck Run out Accuracy is maintained as per **DIN 6499** norm.

We maintain run out accuracy as per **DIN 6358** for **Shell End Mill Tool holders**.

Bore Tolerance for **End Mill holder** is maintained as **H5** and run out accuracy is maintained within as per norm **DIN 6359-1**.

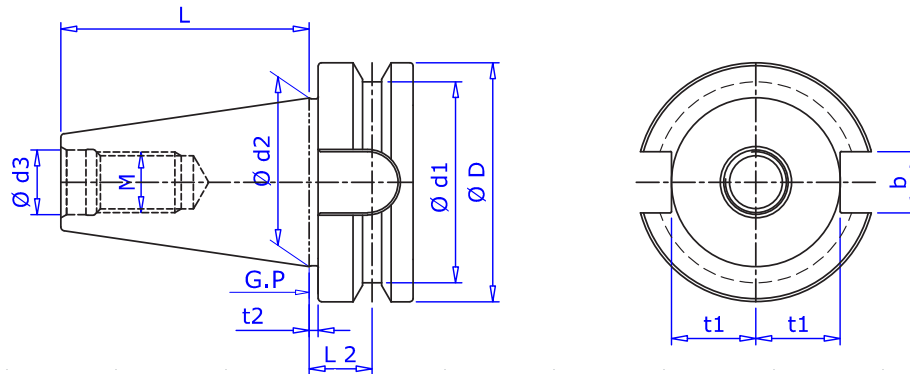
All our holders have run out accuracy and tolerance well below the specified range of **DIN** norms.



SIDDHI TOOL HOLDERS TECHNICAL INFORMATION

ISO	L	DA-DB	AT-3
30	42	12.250	+0.002
40	59	17.208	+0.003
50	92	26.833	+0.004

BT MAS 403 FORM A Technical Information

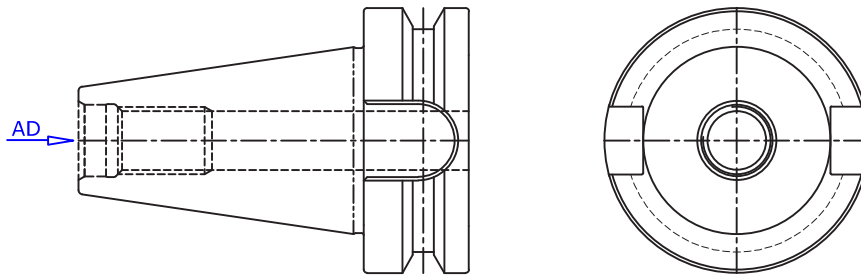


TOOL SHANK	D	d1	d2	L	d3	M	t1	b	t2	L2
BT 30	46	38	31.75	48.4	12.5	M12	16.3	16.1	2	13.60
BT 40	63	53	44.45	65.4	17	M16	22.6	16.1	2	16.60
BT 50	100	85	69.85	101.8	25	M24	35.4	25.7	3	23.20

WITH COOLANT THROUGH CENTER

Old Name : BT (MAS 403) FROM AD

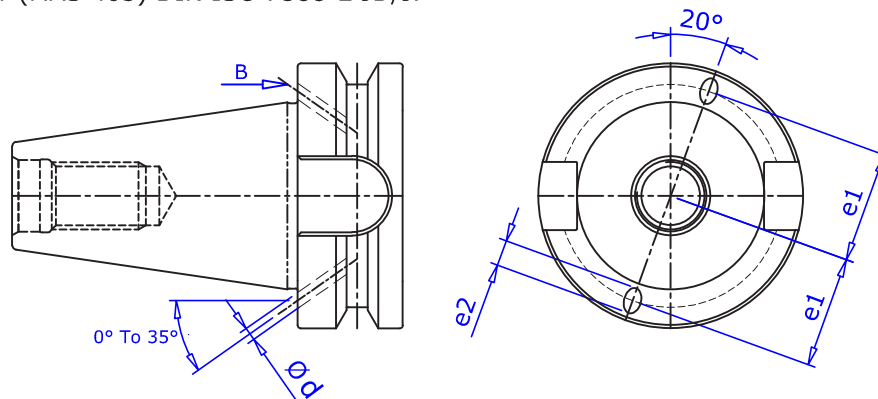
New Name : BT (MAS 403) DIN ISO 7388-2 JD



WITH COOLANT THROUGH FLANGE

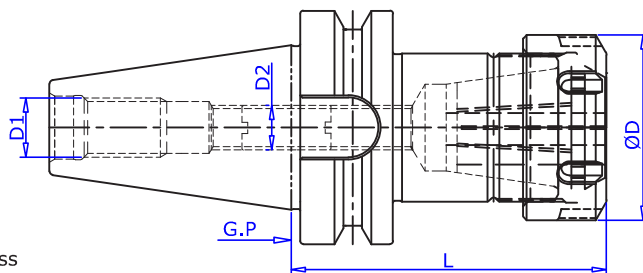
Old Name : BT (MAS 403) FROM AD+B

New Name : BT (MAS 403) DIN ISO 7388-2 JD/JF



TOOL SHANK	Ød	e 1	e 2
BT 40	4	27	5
BT 50	6	42	7

COLLET CHUCKS ER TYPE DIN 6499 FOR PARALLEL SHANK TOOLS (AD /JD)



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL taper 0.005mm

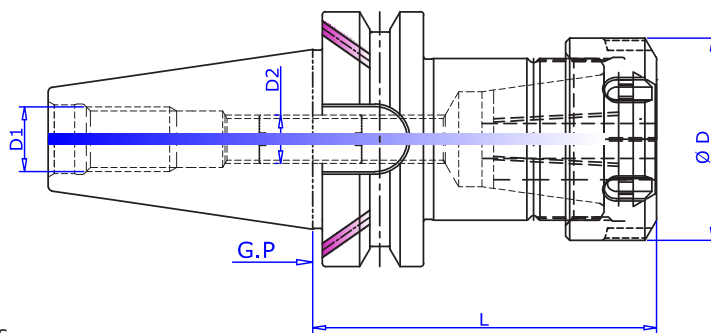
Balancing GRADE: G6.3 /15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Suitable for Collet	Collet Clamping Capacity	L	D1	D2	Nut		Spanner Designation
						ØD	Designation	
BT 30 ER 16 060 G.P	ER 16	0.5 - 10	60	M 12	M10 x 1P	28	UM/ER 16	GS 25
BT 30 ER 16 100 G.P	ER 16	0.5 - 10	100	M 12	M10 x 1P	28	UM/ER 16	GS 25
BT 30 ER 16 160G.P	ER 16	0.5 - 10	160	M 12	M10 x 1P	28	UM/ER 16	GS 25
BT 30 ER 20 060 G.P	ER 20	1.0 - 13	60	M 12	M10 x 1P	34	UM/ER 20	E 20
BT 30 ER 20 100 G.P	ER 20	1.0 - 13	100	M 12	M10 x 1P	34	UM/ER 20	E 20
BT 30 ER 20 160 G.P	ER 20	1.0 - 13	160	M 12	M10 x 1P	34	UM/ER 20	E 20
BT 30 ER 25 060 G.P	ER 25	1.0 - 16	60	M 12	M18 x 1P	42	UM/ER 25	E 25
BT 30 ER 25 100 G.P	ER 25	1.0 - 16	100	M 12	M18 x 1P	42	UM/ER 25	E 25
BT 30 ER 25 160 G.P	ER 25	1.0 - 16	160	M 12	M18 x 1P	42	UM/ER 25	E 25
BT 30 ER 32 060 G.P	ER 32	2.0 - 20	60	M 12	M22 x 1.5P	50	UM/ER 32	E 32
BT 30 ER 32 100 G.P	ER 32	2.0 - 20	100	M 12	M22 x 1.5P	50	UM/ER 32	E 32
BT 30 ER 32 160 G.P	ER 32	2.0 - 20	160	M 12	M22 x 1.5P	50	UM/ER 32	E 32
BT 30 ER 40 080 G.P	ER 40	3.0 - 26	80	M 12	M30 x 1.5P	63	UM/ER 40	E 40
BT 30 ER 40 100 G.P	ER 40	3.0 - 26	100	M 12	M30 x 1.5P	63	UM/ER 40	E 40
BT 40 ER 16 070 G.P	ER 16	0.5 - 10	70	M 16	M10 x 1P	28	UM/ER 16	GS 25
BT 40 ER 16 100 G.P	ER 16	0.5 - 10	100	M 16	M10 x 1P	28	UM/ER 16	GS 25
BT 40 ER 16 160 G.P	ER 16	0.5 - 10	160	M 16	M10 x 1P	28	UM/ER 16	GS 25
BT 40 ER 20 070 G.P	ER 20	1.0 - 13	70	M 16	M10 x 1P	34	UM/ER 20	E 20
BT 40 ER 20 100 G.P	ER 20	1.0 - 13	100	M 16	M10 x 1P	34	UM/ER 20	E 20
BT 40 ER 20 160 G.P	ER 20	1.0 - 13	160	M 16	M10 x 1P	34	UM/ER 20	E 20
BT 40 ER 25 070 G.P	ER 25	1.0 - 16	70	M 16	M18 x 1P	42	UM/ER 25	E 25
BT 40 ER 25 100 G.P	ER 25	1.0 - 16	100	M 16	M18 x 1P	42	UM/ER 25	E 25
BT 40 ER 25 160 G.P	ER 25	1.0 - 16	160	M 16	M18 x 1P	42	UM/ER 25	E 25
BT 40 ER 32 070 G.P	ER 32	2.0 - 20	70	M 16	M22 x 1.5P	50	UM/ER 32	E 32
BT 40 ER 32 100 G.P	ER 32	2.0 - 20	100	M 16	M22 x 1.5P	50	UM/ER 32	E 32
BT 40 ER 32 160 G.P	ER 32	2.0 - 20	160	M 16	M22 x 1.5P	50	UM/ER 32	E 32
BT 40 ER 40 080 G.P	ER 40	3.0 - 26	70	M 16	M30 x 1.5P	63	UM/ER 40	E 40
BT 40 ER 40 100 G.P	ER 40	3.0 - 26	100	M 16	M30 x 1.5P	63	UM/ER 40	E 40
BT 40 ER 40 160 G.P	ER 40	3.0 - 26	160	M 16	M30 x 1.5P	63	UM/ER 40	E 40
BT 40 ER 50 100 G.P	ER 50	10 - 34	100	M 16	M30 x 1.5P	78	UM/ER 50	E 50
BT 50 ER 16 080 G.P	ER 16	0.5 - 10	80	M 16	M10 x 1P	28	UM/ER 16	GS 25
BT 50 ER 16 100 G.P	ER 16	0.5 - 10	100	M 16	M10 x 1P	28	UM/ER 16	GS 25
BT 50 ER 16 160 G.P	ER 16	0.5 - 10	160	M 16	M10 x 1P	28	UM/ER 16	GS 25
BT 50 ER 20 100 G.P	ER 20	1.0 - 13	100	M 16	M10 x 1P	34	UM/ER 20	E 20
BT 50 ER 20 160 G.P	ER 20	1.0 - 13	160	M 16	M10 x 1P	34	UM/ER 20	E 20
BT 50 ER 25 080 G.P	ER 25	1.0 - 16	80	M 24	M18 x 1P	42	UM/ER 25	E 25
BT 50 ER 25 100 G.P	ER 25	1.0 - 16	100	M 24	M18 x 1P	42	UM/ER 25	E 25
BT 50 ER 25 160 G.P	ER 25	1.0 - 16	160	M 24	M18 x 1P	42	UM/ER 25	E 25
BT 50 ER 32 080 G.P	ER 32	2.0 - 20	80	M 24	M22 x 1.5P	50	UM/ER 32	E 32
BT 50 ER 32 100 G.P	ER 32	2.0 - 20	100	M 24	M22 x 1.5P	50	UM/ER 32	E 32
BT 50 ER 32 160 G.P	ER 32	2.0 - 20	160	M 24	M22 x 1.5P	50	UM/ER 32	E 32
BT 50 ER 40 080 G.P	ER 40	3.0 - 26	80	M 24	M30 x 1.5P	63	UM/ER 40	E 40
BT 50 ER 40 100 G.P	ER 40	3.0 - 26	100	M 24	M30 x 1.5P	63	UM/ER 40	E 40
BT 50 ER 40 160 G.P	ER 40	3.0 - 26	160	M 24	M30 x 1.5P	63	UM/ER 40	E 40
BT 50 ER 50 100 G.P	ER 50	10 - 34	100	M 24	M30 x 1.5P	78	UM/ER 50	E 50
BT 50 ER 50 160 G.P	ER 50	10 - 34	160	M 24	M30 x 1.5P	78	UM/ER 50	E 50

Ordering Example :- BT40 ER40 070 G.P -2 Nos

COLLET CHUCKS ER TYPE DIN 6499 FOR PARALLEL SHANK TOOLS (AD+B / JD/JF)



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL taper 0.005mm

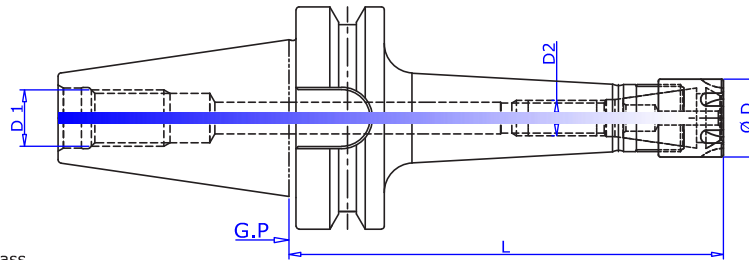
Balancing GRADE:- G6.3 / 15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Suitable for Collet	Collet Clamping Capacity	L	D1	D2	Nut		Spanner Designation
						Ø D	Designation	
BT 40 ER 16 070 AD+B	ER 16	0.5 - 10	70	M 16	M10 x 1P	28	UM/ER 16	GS 25
BT 40 ER 16 100 AD+B	ER 16	0.5 - 10	100	M 16	M10 x 1P	28	UM/ER 16	GS 25
BT 40 ER 16 160 AD+B	ER 16	0.5 - 10	160	M 16	M10 x 1P	28	UM/ER 16	GS 25
BT 40 ER 20 070 AD+B	ER 20	1.0 - 13	70	M 16	M10 x 1P	34	UM/ER 20	E 20
BT 40 ER 20 100 AD+B	ER 20	1.0 - 13	100	M 16	M10 x 1P	34	UM/ER 20	E 20
BT 40 ER 20 160 AD+B	ER 20	1.0 - 13	160	M 16	M10 x 1P	34	UM/ER 20	E 20
BT 40 ER 25 070 AD+B	ER 25	1.0 - 16	70	M 16	M18 x 1P	42	UM/ER 25	E 25
BT 40 ER 25 100 AD+B	ER 25	1.0 - 16	100	M 16	M18 x 1P	42	UM/ER 25	E 25
BT 40 ER 25 160 AD+B	ER 25	1.0 - 16	160	M 16	M18 x 1P	42	UM/ER 25	E 25
BT 40 ER 32 070 AD+B	ER 32	2.0 - 20	70	M 16	M22 x 1.5P	50	UM/ER 32	E 32
BT 40 ER 32 100 AD+B	ER 32	2.0 - 20	100	M 16	M22 x 1.5P	50	UM/ER 32	E 32
BT 40 ER 32 160 AD+B	ER 32	2.0 - 20	160	M 16	M22 x 1.5P	50	UM/ER 32	E 32
BT 40 ER 40 070 AD+B	ER 40	3.0 - 26	70	M 16	M30 x 1.5P	63	UM/ER 40	E 40
BT 40 ER 40 100 AD+B	ER 40	3.0 - 26	100	M 16	M30 x 1.5P	63	UM/ER 40	E 40
BT 40 ER 40 160 AD+B	ER 40	3.0 - 26	160	M 16	M30 x 1.5P	63	UM/ER 40	E 40
BT 40 ER 50 100 AD+B	ER 50	10 - 34	100	M 16	M30 x 1.5P	78	UM/ER 50	E 50
BT 50 ER 16 080 AD+B	ER 16	0.5 - 10	80	M 16	M10 x 1P	28	UM/ER 16	GS 25
BT 50 ER 16 100 AD+B	ER 16	0.5 - 10	100	M 16	M10 x 1P	28	UM/ER 16	GS 25
BT 50 ER 16 160 AD+B	ER 16	0.5 - 10	160	M 16	M10 x 1P	28	UM/ER 16	GS 25
BT 50 ER 20 100 AD+B	ER 20	1.0 - 13	100	M 16	M10 x 1P	34	UM/ER 20	E 20
BT 50 ER 20 160 AD+B	ER 20	1.0 - 13	160	M 16	M10 x 1P	34	UM/ER 20	E 20
BT 50 ER 25 080 AD+B	ER 25	1.0 - 16	80	M 24	M18 x 1P	42	UM/ER 25	E 25
BT 50 ER 25 100 AD+B	ER 25	1.0 - 16	100	M 24	M18 x 1P	42	UM/ER 25	E 25
BT 50 ER 25 160 AD+B	ER 25	1.0 - 16	160	M 24	M18 x 1P	42	UM/ER 25	E 25
BT 50 ER 32 080 AD+B	ER 32	2.0 - 20	80	M 24	M22 x 1.5P	50	UM/ER 32	E 32
BT 50 ER 32 100 AD+B	ER 32	2.0 - 20	100	M 24	M22 x 1.5P	50	UM/ER 32	E 32
BT 50 ER 32 160 AD+B	ER 32	2.0 - 20	160	M 24	M22 x 1.5P	50	UM/ER 32	E 32
BT 50 ER 40 080 AD+B	ER 40	3.0 - 26	80	M 24	M30 x 1.5P	63	UM/ER 40	E 40
BT 50 ER 40 100 AD+B	ER 40	3.0 - 26	100	M 24	M30 x 1.5P	63	UM/ER 40	E 40
BT 50 ER 40 160 AD+B	ER 40	3.0 - 26	160	M 24	M30 x 1.5P	63	UM/ER 40	E 40
BT 50 ER 50 100 AD+B	ER 50	10 - 34	100	M 24	M30 x 1.5P	78	UM/ER 50	E 50
BT 50 ER 50 160 AD+B	ER 50	10 - 34	160	M 24	M30 x 1.5P	78	UM/ER 50	E 50

Ordering Example :- BT40 ER40 070 AD+B -2 Nos

COLLET CHUCKS EXTRA LONG WITH M NUTS DIN 6499 ER TYPE (AD/JD)



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL taper 0.005mm

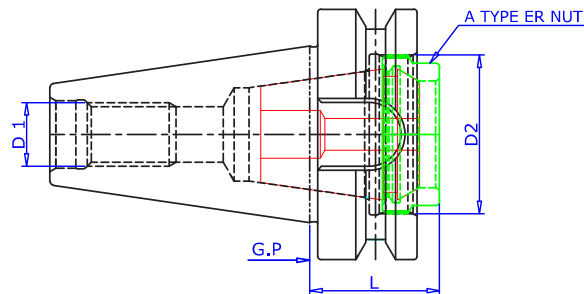
Balancing GRADE:- G6.3 /15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Suitable for Collet	Collet Clamping Capacity	L	D1	D2	Nut		Spanner Designation
						Ø D	Designation	
BT 30 ER 11 M060 G.P	ER 11	0.5 - 7	60	M 16	M6 x 1P	16	ER11 M	E11 M
BT 30 ER 11 M100 G.P	ER 11	0.5 - 7	100	M 16	M6 x 1P	16	ER11 M	E11 M
BT 30 ER 16 M060 G.P	ER 16	0.5 - 10	60	M 16	M10 x 1P	22	ER16 M	E16 M
BT 30 ER 16 M120 G.P	ER 16	0.5 - 10	120	M 16	M10 x 1P	22	ER16 M	E16 M
BT 30 ER 16 M160 G.P	ER 16	0.5 - 10	160	M 16	M10 x 1P	22	ER16 M	E16 M
BT 40 ER 11 M070 G.P	ER 11	0.5 - 7	70	M 16	M6 x 1P	16	ER11 M	E11 M
BT 40 ER 11 M100 G.P	ER 11	0.5 - 7	100	M 16	M6 x 1P	16	ER11 M	E11 M
BT 40 ER 11 M160 G.P	ER 11	0.5 - 7	160	M 16	M6 x 1P	16	ER11 M	E11 M
BT 40 ER 16 M070 G.P	ER 16	0.5 - 10	70	M 16	M10 x 1P	22	ER16 M	E16 M
BT 40 ER 16 M100 G.P	ER 16	0.5 - 10	100	M 16	M10 x 1P	22	ER16 M	E16 M
BT 40 ER 16 M120 G.P	ER 16	0.5 - 10	120	M 16	M10 x 1P	22	ER16 M	E16 M
BT 40 ER 16 M160 G.P	ER 16	0.5 - 10	160	M 16	M10 x 1P	22	ER16 M	E16 M
BT 40 ER 20 M120 G.P	ER 20	1.0 - 13	120	M 16	M10 x 1P	28	ER20 M	E20 M
BT 40 ER 20 M160 G.P	ER 20	1.0 - 13	160	M 16	M10 x 1P	28	ER20 M	E20 M
BT 40 ER 25 M070 G.P	ER 25	1.0 - 16	70	M 16	M18 x 1P	35	ER25 M	E25 M
BT 40 ER 25 M100 G.P	ER 25	1.0 - 16	100	M 16	M18 x 1P	35	ER25 M	E25 M
BT 40 ER 25 M120 G.P	ER 25	1.0 - 16	120	M 16	M18 x 1P	35	ER25 M	E25 M
BT 40 ER 25 M160 G.P	ER 25	1.0 - 16	160	M 16	M18 x 1P	35	ER25 M	E25 M

Ordering Example :- BT40 ER25 M160 - 2 Nos.

SHORT G.P ER COLLET CHUCK DIN 6499 TYPE (ER-A)



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL taper 0.005mm

Balancing GRADE:- G6.3 /15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Suitable for Collet	Collet Clamping Capacity	L	D1	D2	Spanner Designation
BT 30 ER 25A 027G.P	ER 25	1.0 - 16	27	M 12	32	ER25A
BT 40 ER 32A 032G.P	ER 32	2.0 - 20	32	M 16	40	ER32A
BT 50 ER 32A 043G.P	ER 32	2.0 - 20	43	M 24	40	ER32A

Ordering Example :- BT40 ER32A 032G.P - 02 Nos.

SIDE LOCK ADAPTOR FOR PARALLEL SHANK TOOLS (AD /JD)

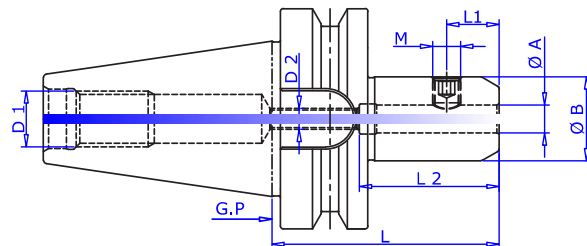


FIG-1

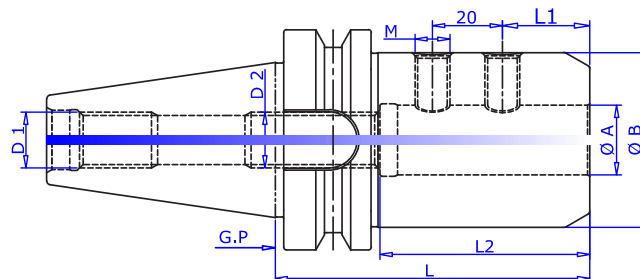


FIG-2

Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL dia 0.005mm

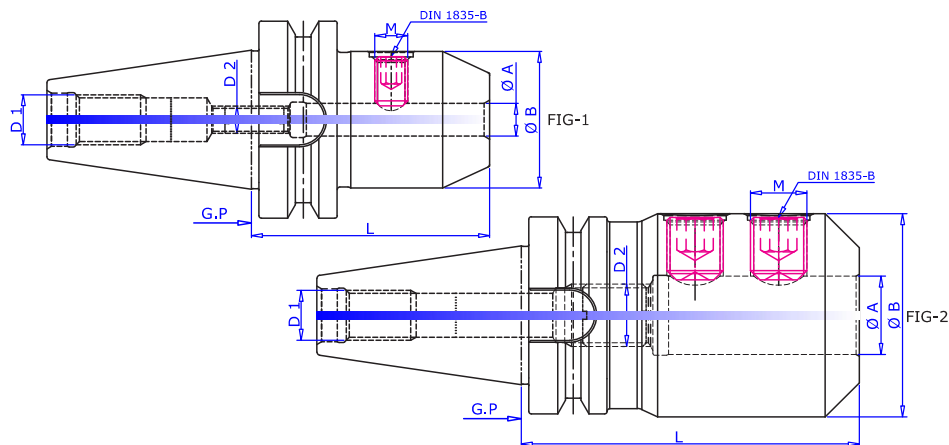
Balancing GRADE:- G6.3 /15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Tool Shank	Ø A H5	L	Ø B	L1	L2	D1	D2	M	FIG
BT 30 SLA 06 065 G.P	BT 30	6	65	20	15	35	M12	M5	M6	1
BT 30 SLA 08 065 G.P	BT 30	8	65	24	15	40	M12	M6	M8	1
BT 30 SLA 10 065 G.P	BT 30	10	65	30	16	44	M12	M8	M10	1
BT 30 SLA 12 065 G.P	BT 30	12	65	35	20	44	M12	M10	M10	1
BT 30 SLA 16 065 G.P	BT 30	16	65	40	23	52	M12	M12	M10	1
BT 30 SLA 20 090 G.P	BT 30	20	90	50	25	70	M12	M12	M10	2
BT 30 SLA 25 090 G.P	BT 30	25	90	50	25	70	M12	M12	M10	2
BT 40 SLA 06 065 G.P	BT 40	6	65	20	15	35	M16	M5	M6	1
BT 40 SLA 08 065 G.P	BT 40	8	65	24	15	40	M16	M6	M8	1
BT 40 SLA 10 065 G.P	BT 40	10	65	30	16	44	M16	M8	M10	1
BT 40 SLA 12 065 G.P	BT 40	12	65	35	20	44	M16	M10	M10	1
BT 40 SLA 16 065 G.P	BT 40	16	65	40	23	52	M16	M12	M10	1
BT 40 SLA 16 090 G.P	BT 40	16	90	40	23	52	M16	M12	M10	1
BT 40 SLA 20 090 G.P	BT 40	20	90	50	25	70	M16	M12	M10	2
BT 40 SLA 25 090 G.P	BT 40	25	90	50	25	70	M16	M12	M10	2
BT 40 SLA 25 160 G.P	BT 40	25	160	50	25	70	M16	M12	M10	2
BT 40 SLA 32 090 G.P	BT 40	32	90	60	30	70	M16	M12	M10	2
BT 40 SLA 32 160 G.P	BT 40	32	160	60	30	70	M16	M12	M10	2
BT 40 SLA 40 090 G.P	BT 40	40	90	60	30	70	M16	M12	M10	2
BT 40 SLA 40 160 G.P	BT 40	40	160	60	30	70	M16	M12	M10	2
BT 50 SLA 06 075 G.P	BT 50	6	75	20	15	35	M24	M5	M6	1
BT 50 SLA 08 075 G.P	BT 50	8	75	24	15	40	M24	M6	M8	1
BT 50 SLA 10 075 G.P	BT 50	10	75	30	16	44	M24	M8	M10	1
BT 50 SLA 12 075 G.P	BT 50	12	75	35	20	44	M24	M10	M10	1
BT 50 SLA 16 075 G.P	BT 50	16	75	40	23	52	M24	M12	M10	1
BT 50 SLA 20 105 G.P	BT 50	20	105	50	25	70	M24	M12	M10	2
BT 50 SLA 25 105 G.P	BT 50	25	105	50	25	70	M24	M12	M10	2
BT 50 SLA 25 150 G.P	BT 50	25	150	50	25	70	M24	M12	M10	2
BT 50 SLA 32 105 G.P	BT 50	32	105	60	30	70	M24	M12	M10	2
BT 50 SLA 32 150 G.P	BT 50	32	150	60	30	70	M24	M12	M10	2
BT 50 SLA 40 105 G.P	BT 50	40	105	60	30	70	M24	M12	M10	2
BT 50 SLA 40 150 G.P	BT 50	40	150	60	30	70	M24	M12	M10	2
BT 50 SLA 50 075 G.P	BT 50	50	75	90	40	70	M24	M12	M12	2
BT 50 SLA 50 105 G.P	BT 50	50	105	90	40	70	M24	M12	M12	2
BT 50 SLA 50 150 G.P	BT 50	50	150	90	40	70	M24	M12	M12	2

Ordering Example :- BT40 SLA25 090 G.P - 2 Nos.

WELDON TYPE END MILL ADAPTOR (WE) (DIN/1835-B) (AD/JD)



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL dia 0.005mm

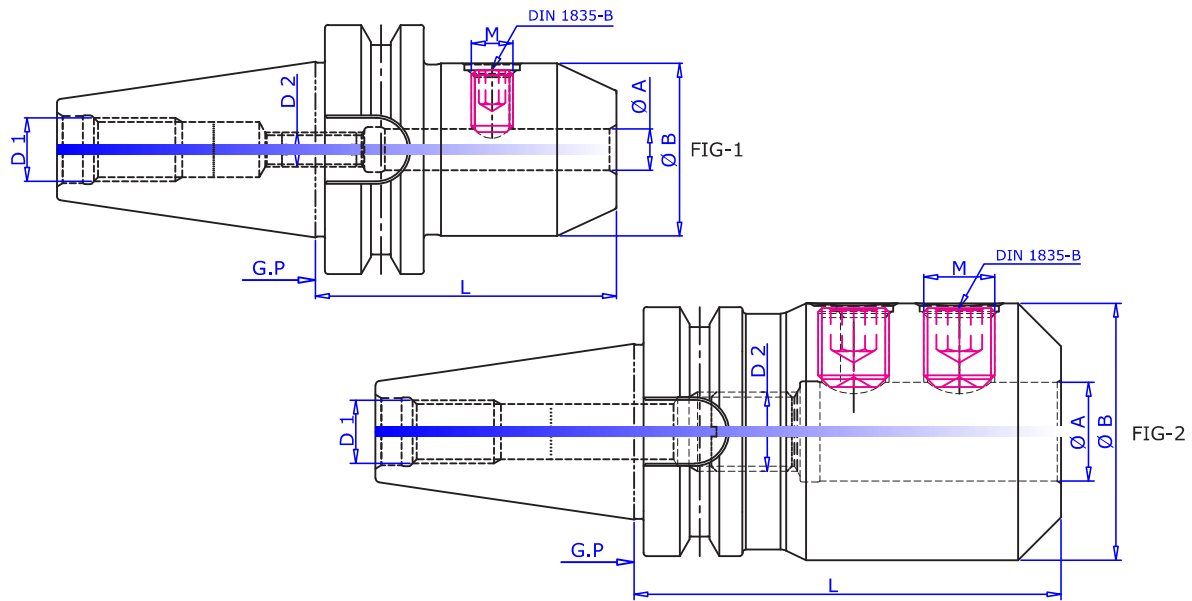
Balancing GRADE:- G6.3 /15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Tool Shank	Ø AH5	L	Ø B	M	D1	D2	FIG
BT 30 WE 06 050 G.P	BT 30	6	50	25	M6	M12	M5	1
BT 30 WE 08 050 G.P	BT 30	8	50	28	M8	M12	M6	1
BT 30 WE 10 050 G.P	BT 30	10	50	35	M10	M12	M8	1
BT 30 WE 12 055 G.P	BT 30	12	55	42	M12	M12	M10	1
BT 30 WE 14 055 G.P	BT 30	14	55	44	M12	M12	M10	1
BT 30 WE 16 063 G.P	BT 30	16	63	48	M14	M12	M12	1
BT 30 WE 18 063 G.P	BT 30	18	63	50	M14	M12	M12	1
BT 30 WE 20 070 G.P	BT 30	20	70	52	M16	M12	M16	1
BT 40 WE 06 050 G.P	BT 40	6	50	25	M6	M16	M5	1
BT 40 WE 06 100 G.P	BT 40	6	100	25	M6	M16	M5	1
BT 40 WE 06 160 G.P	BT 40	6	160	25	M6	M16	M5	1
BT 40 WE 08 050 G.P	BT 40	8	50	28	M8	M16	M6	1
BT 40 WE 08 100 G.P	BT 40	8	100	28	M8	M16	M6	1
BT 40 WE 08 160 G.P	BT 40	8	160	28	M8	M16	M6	1
BT 40 WE 10 063 G.P	BT 40	10	63	35	M10	M16	M8	1
BT 40 WE 10 100 G.P	BT 40	10	100	35	M10	M16	M8	1
BT 40 WE 10 160 G.P	BT 40	10	160	35	M10	M16	M8	1
BT 40 WE 12 063 G.P	BT 40	12	63	42	M12	M16	M10	1
BT 40 WE 12 100 G.P	BT 40	12	100	42	M12	M16	M10	1
BT 40 WE 12 160 G.P	BT 40	12	160	42	M12	M16	M10	1
BT 40 WE 14 063 G.P	BT 40	14	63	44	M12	M16	M10	1
BT 40 WE 14 100 G.P	BT 40	14	100	44	M12	M16	M10	1
BT 40 WE 14 160 G.P	BT 40	14	160	44	M12	M16	M10	1
BT 40 WE 16 063 G.P	BT 40	16	63	48	M14	M16	M12	1
BT 40 WE 16 100 G.P	BT 40	16	100	48	M14	M16	M12	1
BT 40 WE 16 160 G.P	BT 40	16	160	48	M14	M16	M12	1
BT 40 WE 18 063 G.P	BT 40	18	63	50	M14	M16	M12	1
BT 40 WE 18 100 G.P	BT 40	18	100	50	M14	M16	M12	1
BT 40 WE 18 160 G.P	BT 40	18	160	50	M14	M16	M12	1
BT 40 WE 20 063 G.P	BT 40	20	63	52	M16	M16	M16	1
BT 40 WE 20 100 G.P	BT 40	20	100	52	M16	M16	M16	1
BT 40 WE 20 160 G.P	BT 40	20	160	52	M16	M16	M16	1
BT 40 WE 25 090 G.P	BT 40	25	90	65	M18 X 2	M16	M20	2
BT 40 WE 25 160 G.P	BT 40	25	160	65	M18 X 2	M16	M20	2
BT 40 WE 32 100 G.P	BT 40	32	100	72	M20 X 2	M16	M20	2
BT 40 WE 32 160 G.P	BT 40	32	160	72	M20 X 2	M16	M20	2
BT 40 WE 40 105 G.P	BT 40	40	105	80	M20 X 2	M16	M20	2
BT 40 WE 40 160 G.P	BT 40	40	160	80	M20 X 2	M16	M20	2

Ordering Example :- BT40 WN25 090G.P - 2 Nos.

WELDON TYPE END MILL ADAPTOR (WE) (DIN 1835-B) (AD/JD)



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL dia 0.005mm

Balancing GRADE:- G6.3 /15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Tool Shank	Ø A H5	L	Ø B	M	D1	D2	FIG
BT 50 WE 06 063 G.P	BT 50	6	63	25	M6	M24	M5	1
BT 50 WE 06 100 G.P	BT 50	6	100	25	M6	M24	M5	1
BT 50 WE 06 160 G.P	BT 50	6	160	25	M6	M24	M5	1
BT 50 WE 08 063 G.P	BT 50	8	63	28	M8	M24	M6	1
BT 50 WE 08 100 G.P	BT 50	8	100	28	M8	M24	M6	1
BT 50 WE 08 160 G.P	BT 50	8	160	28	M8	M24	M6	1
BT 50 WE 10 080 G.P	BT 50	10	80	35	M10	M24	M8	1
BT 50 WE 10 100 G.P	BT 50	10	100	35	M10	M24	M8	1
BT 50 WE 10 160 G.P	BT 50	10	160	35	M10	M24	M8	1
BT 50 WE 12 080 G.P	BT 50	12	80	42	M12	M24	M10	1
BT 50 WE 12 100 G.P	BT 50	12	100	42	M12	M24	M10	1
BT 50 WE 12 160 G.P	BT 50	12	160	42	M12	M24	M10	1
BT 50 WE 14 080 G.P	BT 50	14	80	44	M12	M24	M10	1
BT 50 WE 14 100 G.P	BT 50	14	100	44	M12	M24	M10	1
BT 50 WE 14 160 G.P	BT 50	14	160	44	M12	M24	M10	1
BT 50 WE 16 080 G.P	BT 50	16	80	48	M14	M24	M12	1
BT 50 WE 16 100 G.P	BT 50	16	100	48	M14	M24	M12	1
BT 50 WE 16 160 G.P	BT 50	16	160	48	M14	M24	M12	1
BT 50 WE 18 080 G.P	BT 50	18	80	50	M14	M24	M12	1
BT 50 WE 18 100 G.P	BT 50	18	100	50	M14	M24	M12	1
BT 50 WE 18 160 G.P	BT 50	18	160	50	M14	M24	M12	1
BT 50 WE 20 080 G.P	BT 50	20	80	52	M16	M24	M12	1
BT 50 WE 20 100 G.P	BT 50	20	100	52	M16	M24	M12	1
BT 50 WE 20 160 G.P	BT 50	20	160	52	M16	M24	M12	1
BT 50 WE 25 100 G.P	BT 50	25	100	65	M18 X 2	M24	M20	2
BT 50 WE 25 160 G.P	BT 50	25	160	65	M18 X 2	M24	M20	2
BT 50 WE 32 105 G.P	BT 50	32	105	72	M20 X 2	M24	M20	2
BT 50 WE 32 160 G.P	BT 50	32	160	72	M20 X 2	M24	M20	2
BT 50 WE 40 115 G.P	BT 50	40	115	80	M20 X 2	M24	M20	2
BT 50 WE 40 160 G.P	BT 50	40	160	80	M20 X 2	M24	M20	2
BT 50 WE 50 125 G.P	BT 50	50	125	100	M24 X 2	M24	M20	2

Ordering Example :- BT50 WN32 105G.P - 2 Nos.

WELDON TYPE END MILL ADAPTOR (WN) (DIN 1835-E) (AD/JD)

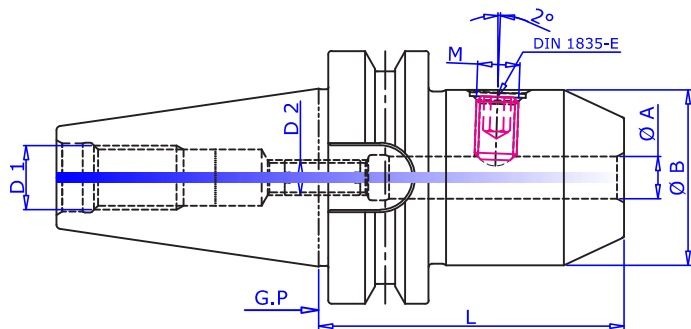


FIG-1

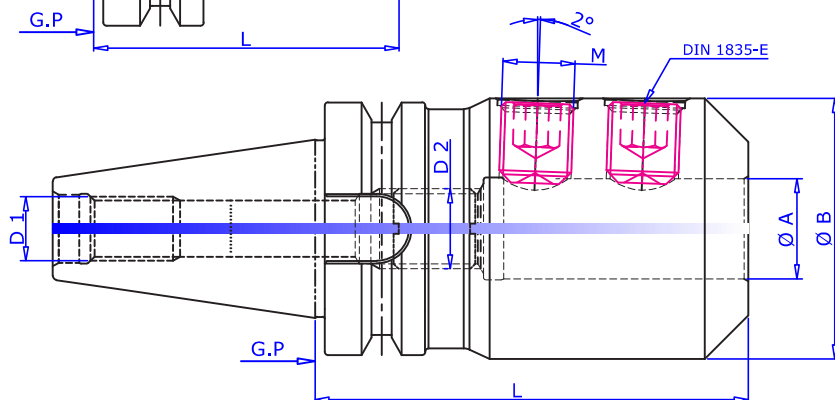


FIG-2

Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL dia 0.005mm

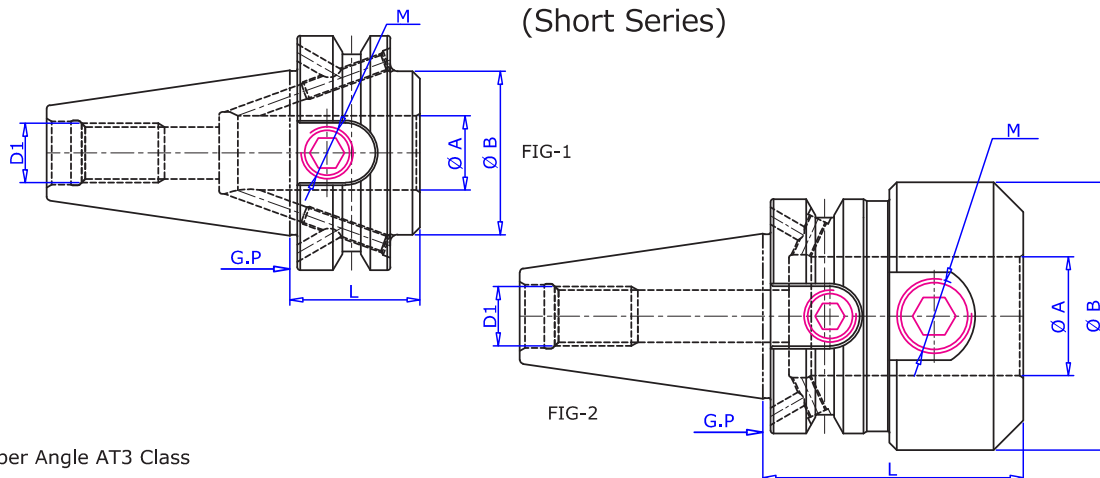
Balancing GRADE:- G6.3 /15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Tool Shank	Ø A H5	L	Ø B	M	D1	D2	FIG
BT 40 WN 06 050 G.P	BT 40	6	50	25	M6	M16	M5	1
BT 40 WN 08 050 G.P	BT 40	8	50	28	M8	M16	M6	1
BT 40 WN 10 063 G.P	BT 40	10	63	35	M10	M16	M8	1
BT 40 WN 12 063 G.P	BT 40	12	63	42	M12	M16	M10	1
BT 40 WN 14 063 G.P	BT 40	14	63	44	M12	M16	M10	1
BT 40 WN 16 063 G.P	BT 40	16	63	48	M14	M16	M12	1
BT 40 WN 18 063 G.P	BT 40	18	63	50	M14	M16	M12	1
BT 40 WN 20 063 G.P	BT 40	20	63	52	M16	M16	M16	1
BT 40 WN 25 090 G.P	BT 40	25	90	65	M18 X 2	M16	M20	2
BT 40 WN 32 100 G.P	BT 40	32	100	72	M20 X 2	M16	M20	2
BT 40 WN 40 100 G.P	BT 40	40	100	80	M20 X 2	M16	M20	2
BT 50 WN 06 063 G.P	BT 50	6	63	25	M6	M24	M5	1
BT 50 WN 08 063 G.P	BT 50	8	63	28	M8	M24	M6	1
BT 50 WN 10 063 G.P	BT 50	10	63	35	M10	M24	M8	1
BT 50 WN 12 080 G.P	BT 50	12	80	42	M12	M24	M10	1
BT 50 WN 14 080 G.P	BT 50	14	80	44	M12	M24	M10	1
BT 50 WN 16 080 G.P	BT 50	16	80	48	M14	M24	M12	1
BT 50 WN 18 080 G.P	BT 50	18	80	50	M14	M24	M12	1
BT 50 WN 20 080 G.P	BT 50	20	80	52	M16	M24	M16	1
BT 50 WN 25 100 G.P	BT 50	25	100	65	M18 X 2	M24	M20	2
BT 50 WN 32 105 G.P	BT 50	32	105	72	M20 X 2	M24	M20	2
BT 50 WN 40 110 G.P	BT 50	40	110	80	M20 X 2	M24	M20	2

Ordering Example :- BT40 WN25 090G.P - 2 Nos.

WELDON TYPE END MILL ADAPTOR (WE) (DIN 1835-B) (AD/JD)
(Short Series)



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL dia 0.005mm

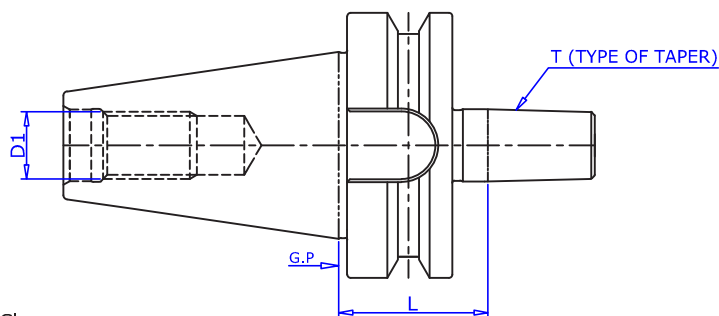
Balancing GRADE:- G6.3 /15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Tool Shank	ØA H5	L	Ø B	M	D1	FIG
BT 40 WE16 035 AD+B	BT 40	16	35	48	M14	M16	1
BT 40 WE20 035 AD+B	BT 40	20	35	44	M14	M16	1
BT 40 WE25 035 AD+B	BT 40	25	35	44	M14	M16	1
BT 40 WE25 060 AD+B	BT 40	25	60	49	M14 / M18	M16	2
BT 40 WE32 070 AD+B	BT 40	32	70	72	M14 / M20	M16	2
BT 50 WE16 044 AD+B	BT 50	16	44	69.5	M14	M24	1
BT 50 WE20 044 AD+B	BT 50	20	44	69.5	M16	M24	1
BT 50 WE25 044 AD+B	BT 50	25	44	69.5	M18	M24	1
BT 50 WE32 044 AD+B	BT 50	32	44	69.5	M20	M24	1

Ordering Example :- BT40 WN16 035G.P - 2 Nos.

ADAPTOR FOR DRILL CHUCKS (JACOBS / DIN 238) A



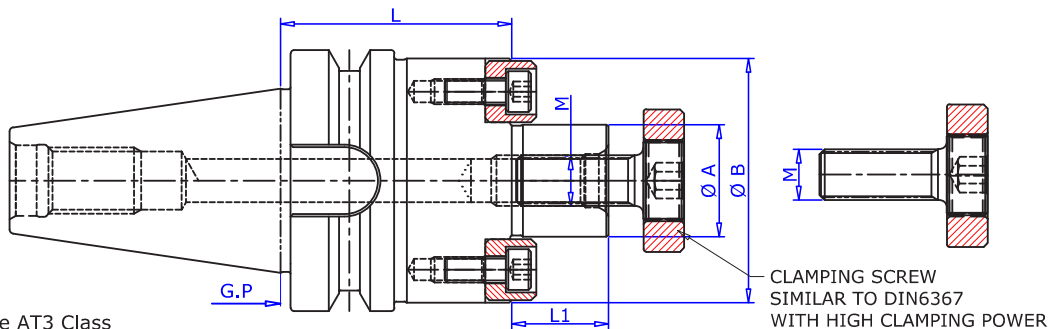
Taper Angle AT3 Class

Concentricity of SPINDLE MOUNTING taper to TOOL MOUNTING is within 0.005mm.

Item Description	Taper Shank	D1	T	L
BT 30 B12	BT 30	M12	B12	26.5
BT 30 B16	BT 30	M12	B16	26.5
BT 40 J6	BT 40	M16	J6	35.5
BT 40 B12	BT 40	M16	B12	35.5
BT 40 B16	BT 40	M16	B16	35.5
BT 50 J6	BT 50	M24	J6	46.5
BT 50 B12	BT 50	M24	B12	46.5
BT 50 B16	BT 50	M24	B16	46.5

Ordering Example :- BT40 B12 - 02 Nos.

FACE MILL HOLDER TENNON DRIVER DIN 6357 (FMH) AD/JD FACE MILL HOLDER TENNON DRIVER + DIN 2079* (FMH)



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to LOCATING Ø 0.005mm

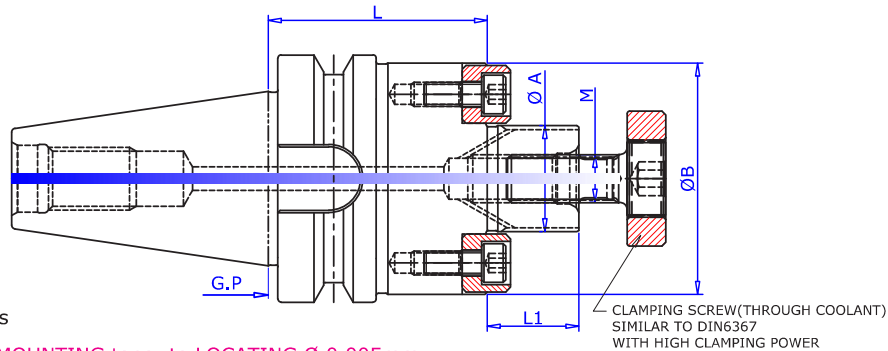
Balancing GRADE:- G6.3 /15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Tool Shank	Ø A h6	L	L1	Ø B	M	TENON
BT 30 FMH 16 040 G.P	BT 30	16	40	17	38	M8	8
BT 30 FMH 22 040 G.P	BT 30	22	40	19	48	M10	10
BT 30 FMH 27 040 G.P	BT 30	27	40	21	58	M12	12
BT 40 FMH 16 045 G.P	BT 40	16	45	17	38	M8	8
BT 40 FMH 16 100 G.P	BT 40	16	100	17	38	M8	8
BT 40 FMH 16 160 G.P	BT 40	16	160	17	38	M8	8
BT 40 FMH 22 045 G.P	BT 40	22	45	19	48	M10	10
BT 40 FMH 22 100 G.P	BT 40	22	100	19	48	M10	10
BT 40 FMH 22 160 G.P	BT 40	22	160	19	48	M10	10
BT 40 FMH 27 045 G.P	BT 40	27	45	21	58	M12	12
BT 40 FMH 27 100 G.P	BT 40	27	100	21	58	M12	12
BT 40 FMH 27 160 G.P	BT 40	27	160	21	58	M12	12
BT 40 FMH 32 050 G.P	BT 40	32	50	24	78	M16	14
BT 40 FMH 32 100 G.P	BT 40	32	100	24	78	M16	14
BT 40 FMH 32 160 G.P	BT 40	32	160	24	78	M16	14
BT 40 FMH 40 060 G.P	BT 40	40	55	27	88	M20	16
BT 40 FMH 40 100 G.P	BT 40	40	100	27	88	M20	16
BT 40 FMH 40 160 G.P	BT 40	40	160	27	88	M20	16
BT 40 FMH 40 060 G.P WITH PCD HOLE *	BT 40	40	55	27	88	M20	16
BT 40 FMH 40 100 G.P WITH PCD HOLE *	BT 40	40	100	27	88	M20	16
BT 40 FMH 40 160 G.P WITH PCD HOLE *	BT 40	40	160	27	88	M20	16
BT 50 FMH 16 060 G.P	BT 50	16	55	17	38	M8	8
BT 50 FMH 16 100 G.P	BT 50	16	100	17	38	M8	8
BT 50 FMH 16 160 G.P	BT 50	16	160	17	38	M8	8
BT 50 FMH 22 060 G.P	BT 50	22	55	19	48	M10	10
BT 50 FMH 22 100 G.P	BT 50	22	100	19	48	M10	10
BT 50 FMH 22 160 G.P	BT 50	22	160	19	48	M10	10
BT 50 FMH 27 060G.P	BT 50	27	55	21	58	M12	12
BT 50 FMH 27 100 G.P	BT 50	27	100	21	58	M12	12
BT 50 FMH 27 160 G.P	BT 50	27	160	21	58	M12	12
BT 50 FMH 32 060 G.P	BT 50	32	60	24	78	M16	14
BT 50 FMH 32 100 G.P	BT 50	32	100	24	78	M16	14
BT 50 FMH 32 160 G.P	BT 50	32	160	24	78	M16	14
BT 50 FMH 40 060 G.P	BT 50	40	60	27	88	M20	16
BT 50 FMH 40 100 G.P	BT 50	40	100	27	88	M20	16
BT 50 FMH 40 160 G.P	BT 50	40	160	27	88	M20	16
BT 50 FMH 40 060 G.P WITH PCD HOLE *	BT 50	40	60	27	88	M20	16
BT 50 FMH 40 100 G.P WITH PCD HOLE *	BT 50	40	100	27	88	M20	16
BT 50 FMH 40 160 G.P WITH PCD HOLE *	BT 50	40	160	27	88	M20	16
BT 50 FMH 60 075 G.P WITH PCD HOLE *	BT 50	60	75	30	130	M30	25

Ordering Example :- BT40 FMH27 045 G.P - 2 Nos.

FACE MILL HOLDER TENON DRIVER(THROUGH COOLANT) DIN 6357 (FMH-K) FACE MILL HOLDER TENNON DRIVER + DIN 2079* (FMH) AD/JD



Taper Angle AT3 Class

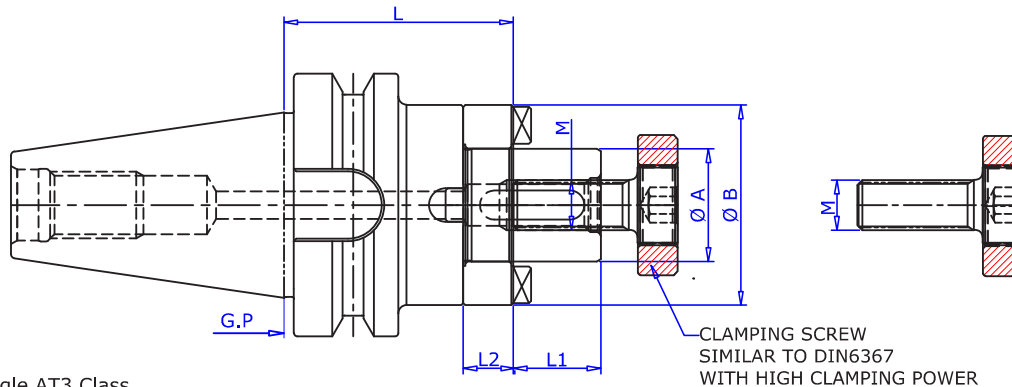
Maximum runout of MOUNTING taper to LOCATING Ø 0.005mm

Balancing GRADE:- G6.3 /15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Tool Shank	Ø A h6	L	L1	Ø B	M	TENON
BT 30 FMH-K 16 040 G.P	BT 30	16	40	17	38	M8	8
BT 30 FMH-K 22 040 G.P	BT 30	22	40	19	48	M10	10
BT 30 FMH-K 27 040 G.P	BT 30	27	40	21	58	M12	12
BT 40 FMH-K 16 045 G.P	BT 40	16	45	17	38	M8	8
BT 40 FMH-K 16 100 G.P	BT 40	16	100	17	38	M8	8
BT 40 FMH-K 16 160 G.P	BT 40	16	160	17	38	M8	8
BT 40 FMH-K 22 045 G.P	BT 40	22	45	19	48	M10	10
BT 40 FMH-K 22 100 G.P	BT 40	22	100	19	48	M10	10
BT 40 FMH-K 22 160 G.P	BT 40	22	160	19	48	M10	10
BT 40 FMH-K 27 045 G.P	BT 40	27	45	21	58	M12	12
BT 40 FMH-K 27 100 G.P	BT 40	27	100	21	58	M12	12
BT 40 FMH-K 27 160 G.P	BT 40	27	160	21	58	M12	12
BT 40 FMH-K 32 050 G.P	BT 40	32	50	24	78	M16	14
BT 40 FMH-K 32 100 G.P	BT 40	32	100	24	78	M16	14
BT 40 FMH-K 32 160 G.P	BT 40	32	160	24	78	M16	14
BT 40 FMH-K 40 060 G.P	BT 40	40	55	27	88	M20	16
BT 40 FMH-K 40 100 G.P	BT 40	40	100	27	88	M20	16
BT 40 FMH-K 40 160 G.P	BT 40	40	160	27	88	M20	16
BT 40 FMH-K 40 060 G.P WITH PCD HOLE *	BT 40	40	55	27	88	M20	16
BT 40 FMH-K 40 100 G.P WITH PCD HOLE *	BT 40	40	100	27	88	M20	16
BT 40 FMH-K 40 160 G.P WITH PCD HOLE *	BT 40	40	160	27	88	M20	16
BT 50 FMH-K 16 060 G.P	BT 50	16	55	17	38	M8	8
BT 50 FMH-K 16 100 G.P	BT 50	16	100	17	38	M8	8
BT 50 FMH-K 16 160 G.P	BT 50	16	160	17	38	M8	8
BT 50 FMH-K 22 060 G.P	BT 50	22	55	19	48	M10	10
BT 50 FMH-K 22 100 G.P	BT 50	22	100	19	48	M10	10
BT 50 FMH-K 22 160 G.P	BT 50	22	160	19	48	M10	10
BT 50 FMH-K 27 060 G.P	BT 50	27	55	21	58	M12	12
BT 50 FMH-K 27 100 G.P	BT 50	27	100	21	58	M12	12
BT 50 FMH-K 27 160 G.P	BT 50	27	160	21	58	M12	12
BT 50 FMH-K 32 060 G.P	BT 50	32	60	24	78	M16	14
BT 50 FMH-K 32 100 G.P	BT 50	32	100	24	78	M16	14
BT 50 FMH-K 32 160 G.P	BT 50	32	160	24	78	M16	14
BT 50 FMH-K 40 060 G.P	BT 50	40	60	27	88	M20	16
BT 50 FMH-K 40 100 G.P	BT 50	40	100	27	88	M20	16
BT 50 FMH-K 40 160 G.P	BT 50	40	160	27	88	M20	16
BT 50 FMH-K 40 060 G.P WITH PCD HOLE *	BT 50	40	60	27	88	M20	16
BT 50 FMH-K 40 100 G.P WITH PCD HOLE *	BT 50	40	100	27	88	M20	16
BT 50 FMH-K 40 160 G.P WITH PCD HOLE *	BT 50	40	160	27	88	M20	16
BT 50 FMH-K 60 075 G.P WITH PCD HOLE *	BT 50	60	75	30	130	M30	25

Ordering Example :- BT40 FMH27-K 045 G.P - 2 Nos.



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to LOCATING Ø 0.005mm

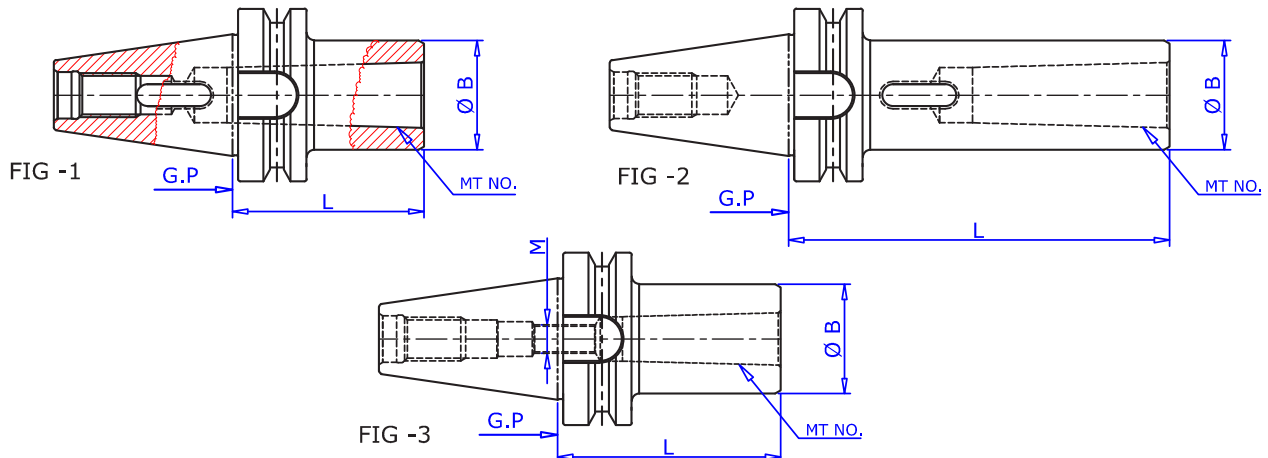
Balancing GRADE:- G6.3 /15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Tool Shank	Ø A h6	L	L1	L2	Ø B	M	KEY W x L
BT 30 CSMA 16 050 G.P	BT 30	16	50	17	10	32	M8	4 x 20
BT 30 CSMA 22 050 G.P	BT 30	22	50	19	12	40	M10	6 x 25
BT 30 CSMA 27 055 G.P	BT 30	27	55	21	12	48	M12	7 x 25
BT 40 CSMA 16 055 G.P	BT 40	16	55	17	10	32	M8	4 x 20
BT 40 CSMA 16 100 G.P	BT 40	16	100	17	10	32	M8	4 x 20
BT 40 CSMA 16 160 G.P	BT 40	16	160	17	10	32	M8	4 x 20
BT 40 CSMA 22 055 G.P	BT 40	22	55	19	12	40	M10	6 x 25
BT 40 CSMA 22 100 G.P	BT 40	22	100	19	12	40	M10	6 x 25
BT 40 CSMA 22 160 G.P	BT 40	22	160	19	12	40	M10	6 x 25
BT 40 CSMA 27 055 G.P	BT 40	27	55	21	12	48	M12	7 x 25
BT 40 CSMA 27 100 G.P	BT 40	27	100	21	12	48	M12	7 x 25
BT 40 CSMA 27 160 G.P	BT 40	27	160	21	12	48	M12	7 x 25
BT 40 CSMA 32 060 G.P	BT 40	32	60	24	14	58	M16	8 x 30
BT 40 CSMA 32 100 G.P	BT 40	32	100	24	14	58	M16	8 x 30
BT 40 CSMA 32 160 G.P	BT 40	32	160	24	14	58	M16	8 x 30
BT 40 CSMA 40 060 G.P	BT 40	40	60	27	14	70	M20	10 x 30
BT 40 CSMA 40 100 G.P	BT 40	40	100	27	14	70	M20	10 x 30
BT 40 CSMA 40 160 G.P	BT 40	40	160	27	14	70	M20	10 x 30
BT 50 CSMA 16 065 G.P	BT50	16	65	17	10	32	M8	4 x 20
BT 50 CSMA 16 100 G.P	BT50	16	100	17	10	32	M8	4 x 20
BT 50 CSMA 16 160 G.P	BT50	16	160	17	10	32	M8	4 x 20
BT 50 CSMA 22 065 G.P	BT50	22	65	19	12	40	M10	6 x 25
BT 50 CSMA 22 100 G.P	BT50	22	100	19	12	40	M10	6 x 25
BT 50 CSMA 22 160 G.P	BT50	22	160	19	12	40	M10	6 x 25
BT 50 CSMA 27 065 G.P	BT50	27	65	21	12	48	M12	7 x 25
BT 50 CSMA 27 100 G.P	BT50	27	100	21	12	48	M12	7 x 25
BT 50 CSMA 27 160 G.P	BT50	27	160	21	12	48	M12	7 x 25
BT 50 CSMA 32 080 G.P	BT50	32	80	24	14	58	M16	8 x 30
BT 50 CSMA 32 100 G.P	BT50	32	100	24	14	58	M16	8 x 30
BT 50 CSMA 32 160 G.P	BT50	32	160	24	14	58	M16	8 x 30
BT 50 CSMA 40 080 G.P	BT50	40	80	27	14	70	M20	10 x 30
BT 50 CSMA 40 100 G.P	BT50	40	100	27	14	70	M20	10 x 30
BT 50 CSMA 40 160 G.P	BT50	40	160	27	14	70	M20	10 x 30

Ordering Example :- BT40 CSMA27 055 G.P - 2 Nos.

MORSE TAPER ADAPTOR SHANK (TANGED) DIN 228-2 FORM B



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL taper 0.005mm

Balancing GRADE:- G6.3 /15,000 rev./min STD.

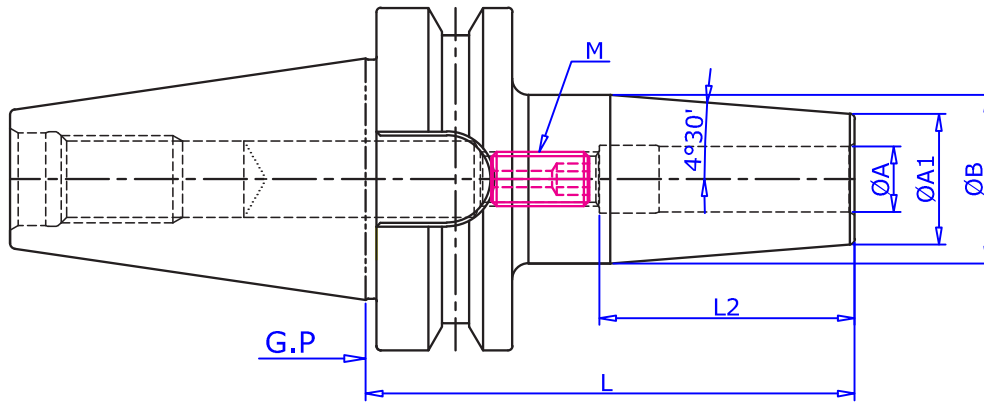
Item Description	Tool Shank	MT. NO.	L	Ø B	FIG
BT 30 MTA 01 050 G.P	BT 30	MT-1	50	25	1
BT 30 MTA 01 110 G.P	BT 30	MT-1	110	25	1
BT 30 MTA 02 060 G.P	BT 30	MT-2	60	32	1
BT 30 MTA 02 120 G.P	BT 30	MT-2	120	32	2
BT 30 MTA 03 075 G.P	BT 30	MT-3	75	40	1
BT 30 MTA 03 140 G.P	BT 30	MT-3	140	40	2
BT 40 MTA 01 050 G.P	BT 40	MT-1	50	25	1
BT 40 MTA 01 115 G.P	BT 40	MT-1	115	25	1
BT 40 MTA 02 050 G.P	BT 40	MT-2	50	32	1
BT 40 MTA 02 125 G.P	BT 40	MT-2	125	32	2
BT 40 MTA 03 070 G.P	BT 40	MT-3	70	40	1
BT 40 MTA 03 140 G.P	BT 40	MT-3	140	40	2
BT 40 MTA 04 095 G.P	BT 40	MT-4	95	48	1
BT 50 MTA 01 050 G.P	BT 50	MT-1	50	25	1
BT 50 MTA 01 120 G.P	BT 50	MT-1	120	25	2
BT 50 MTA 02 060 G.P	BT 50	MT-2	60	32	1
BT 50 MTA 02 140 G.P	BT 50	MT-2	140	32	2
BT 50 MTA 03 065 G.P	BT 50	MT-3	65	40	1
BT 50 MTA 03 150 G.P	BT 50	MT-3	150	40	2
BT 50 MTA 04 095 G.P	BT 50	MT-4	95	48	1
BT 50 MTA 04 180 G.P	BT 50	MT-4	180	48	2
BT 50 MTA 05 120 G.P	BT 50	MT-5	120	63	1
BT 50 MTA 05 220 G.P	BT 50	MT-5	220	163	1

Ordering Example :- BT40 MTA 2 050G.P - 2 Nos.

HOLDER WITH MORSE TAPER SHANK (THREADED END)

Item Description	Tool Shank	MT. NO.	M	L	B Ø	FIG
BT 40 MTA 02 050 G.P	BT 40	MT-2	M 10	50	32	3
BT 50 MTA 02 060 G.P	BT 50	MT-2	M 10	60	32	3
BT 50 MTA 03 065 G.P	BT 50	MT-3	M 12	65	40	3
BT 50 MTA 04 095 G.P	BT 50	MT-4	M 16	95	48	3

Ordering Example :- BT40 MTA 02 050 G.P - 2 Nos.



Taper Angle AT3 Class

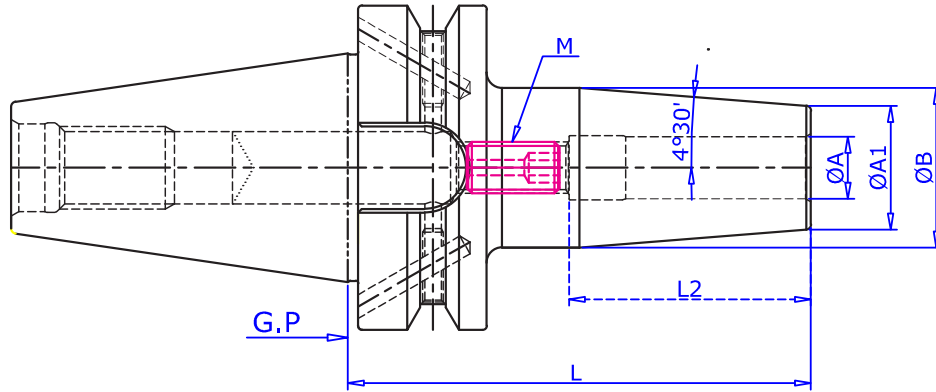
Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Tool Shank	ϕA	$\phi A1$	ϕB	L	L2	M
BT30 SFA06 080 AD	BT 30	6	21	27	80	36	M5
BT30 SFA08 080 AD	BT 30	8	21	27	80	36	M6
BT30 SFA10 080 AD	BT 30	10	24	32	80	42	M8
BT30 SFA12 080 AD	BT 30	12	24	32	80	47	M10
BT30 SFA14 080 AD	BT 30	14	27	34	80	47	M10
BT30 SFA16 080 AD	BT 30	16	27	34	80	50	M12
BT30 SFA18 080 AD	BT 30	18	33	42	80	50	M12
BT30 SFA20 080 AD	BT 30	20	33	42	80	52	M16

Ordering Example :- BT30 SFA10 080 AD/JD -2 Nos

SHRINK FIT ADAPTOR (AD+B / JD/JF)



Taper Angle AT3 Class

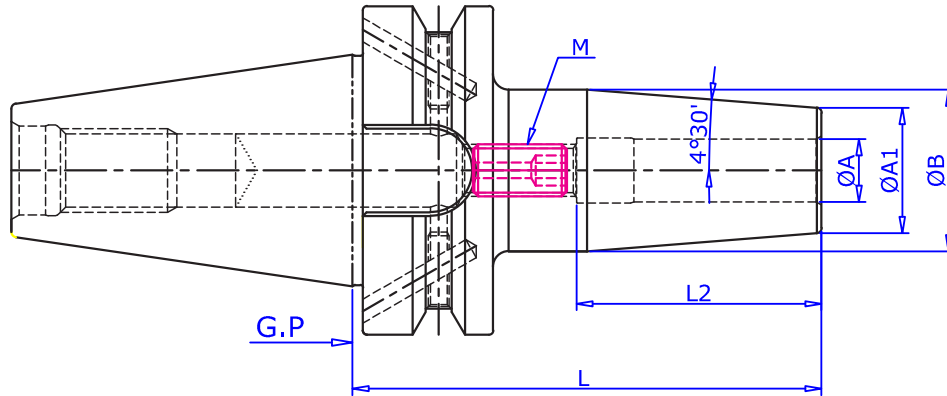
Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Tool Shank	Ø A	Ø A1	Ø B	L	L2	M
BT40 SFA06 090 AD+B	BT 40	6	21	27	90	36	M5
BT40 SFA06 120 AD+B	BT 40	6	21	27	120	36	M5
BT40 SFA06 160 AD+B	BT 40	6	21	27	160	36	M5
BT40 SFA08 090 AD+B	BT 40	8	21	27	90	36	M6
BT40 SFA08 120 AD+B	BT 40	8	21	27	120	36	M6
BT40 SFA08 160 AD+B	BT 40	8	21	27	160	36	M6
BT40 SFA10 090 AD+B	BT 40	10	24	32	90	42	M8
BT40 SFA10 120 AD+B	BT 40	10	24	32	120	42	M8
BT40 SFA10 160 AD+B	BT 40	10	24	32	160	42	M8
BT40 SFA12 090 AD+B	BT 40	12	24	32	90	47	M10
BT40 SFA12 120 AD+B	BT 40	12	24	32	120	47	M10
BT40 SFA12 160 AD+B	BT 40	12	24	32	160	47	M10
BT40 SFA14 090 AD+B	BT 40	14	27	34	90	47	M10
BT40 SFA14 120 AD+B	BT 40	14	27	34	120	47	M10
BT40 SFA14 160 AD+B	BT 40	14	27	34	160	47	M10
BT40 SFA16 090 AD+B	BT 40	16	27	34	90	50	M12
BT40 SFA16 120 AD+B	BT 40	16	27	34	120	50	M12
BT40 SFA16 160 AD+B	BT 40	16	27	34	160	50	M12
BT40 SFA18 090 AD+B	BT 40	18	33	42	90	50	M12
BT40 SFA18 120 AD+B	BT 40	18	33	42	120	50	M12
BT40 SFA18 160 AD+B	BT 40	18	33	42	160	50	M12
BT40 SFA20 090 AD+B	BT 40	20	33	42	90	52	M16
BT40 SFA20 120 AD+B	BT 40	20	33	42	120	52	M16
BT40 SFA20 160 AD+B	BT 40	20	33	42	160	52	M16
BT40 SFA25 100 AD+B	BT 40	25	44	53	100	58	M16
BT40 SFA25 120 AD+B	BT 40	25	44	53	120	58	M16
BT40 SFA25 160 AD+B	BT 40	25	44	53	160	58	M16
BT40 SFA32 100 AD+B	BT 40	32	44	53	100	58	M16
BT40 SFA32 120 AD+B	BT 40	32	44	53	120	58	M16
BT40 SFA32 160 AD+B	BT 40	32	44	53	160	58	M16

Ordering Example :- BT40 SFA10 090 AD+B -2 Nos

SHRINK FIT ADAPTOR (AD+B / JD/JF)



Taper Angle AT3 Class

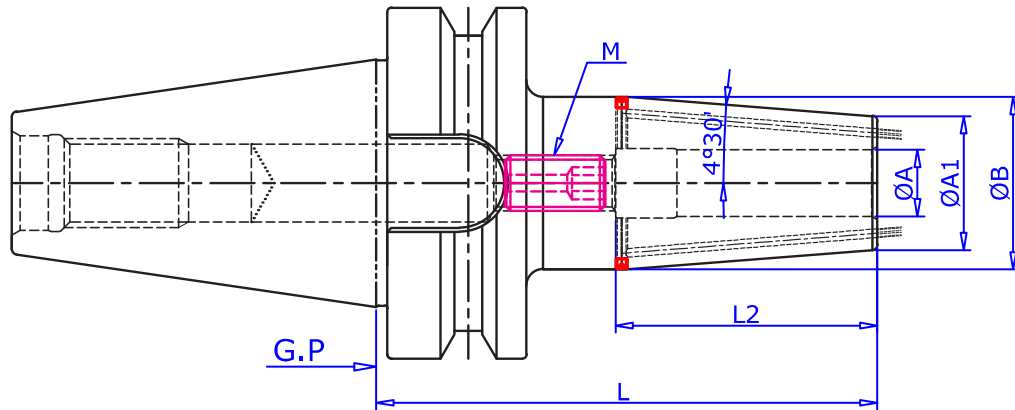
Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Tool Shank	Ø A	Ø A1	Ø B	L	L2	M
BT50 SFA06 100 AD+B	BT 50	6	21	27	100	36	M5
BT50 SFA06 120 AD+B	BT 50	6	21	27	120	36	M5
BT50 SFA06 160 AD+B	BT 50	6	21	27	160	36	M5
BT50 SFA08 100 AD+B	BT 50	8	21	27	100	36	M6
BT50 SFA08 120 AD+B	BT 50	8	21	27	120	36	M6
BT50 SFA08 160 AD+B	BT 50	8	21	27	160	36	M6
BT50 SFA10 100 AD+B	BT 50	10	24	32	100	42	M8
BT50 SFA10 120 AD+B	BT 50	10	24	32	120	42	M8
BT50 SFA10 160 AD+B	BT 50	10	24	32	160	42	M8
BT50 SFA12 100 AD+B	BT 50	12	24	32	100	47	M10
BT50 SFA12 120 AD+B	BT 50	12	24	32	120	47	M10
BT50 SFA12 160 AD+B	BT 50	12	24	32	160	47	M10
BT50 SFA14 100 AD+B	BT 50	14	27	34	100	47	M10
BT50 SFA14 120 AD+B	BT 50	14	27	34	120	47	M10
BT50 SFA14 160 AD+B	BT 50	14	27	34	160	47	M10
BT50 SFA16 100 AD+B	BT 50	16	27	34	100	50	M12
BT50 SFA16 120 AD+B	BT 50	16	27	34	120	50	M12
BT50 SFA16 160 AD+B	BT 50	16	27	34	160	50	M12
BT50 SFA18 100 AD+B	BT 50	18	33	42	100	50	M12
BT50 SFA18 120 AD+B	BT 50	18	33	42	120	50	M12
BT50 SFA18 160 AD+B	BT 50	18	33	42	160	50	M12
BT50 SFA20 100 AD+B	BT 50	20	33	42	100	52	M16
BT50 SFA20 120 AD+B	BT 50	20	33	42	120	52	M16
BT50 SFA20 160 AD+B	BT 50	20	33	42	160	52	M16
BT50 SFA25 110 AD+B	BT 50	25	44	53	110	58	M16
BT50 SFA25 120 AD+B	BT 50	25	44	53	120	58	M16
BT50 SFA25 160 AD+B	BT 50	25	44	53	160	58	M16
BT50 SFA32 110 AD+B	BT 50	32	44	53	110	58	M16
BT50 SFA32 120 AD+B	BT 50	32	44	53	120	58	M16
BT50 SFA32 160 AD+B	BT 50	32	44	53	160	58	M16

Ordering Example :- BT50 SFA12 100 AD+B -2 Nos

SHRINK FIT ADAPTOR (Face Coolant Channel) (AD/JD)



Taper Angle AT3 Class

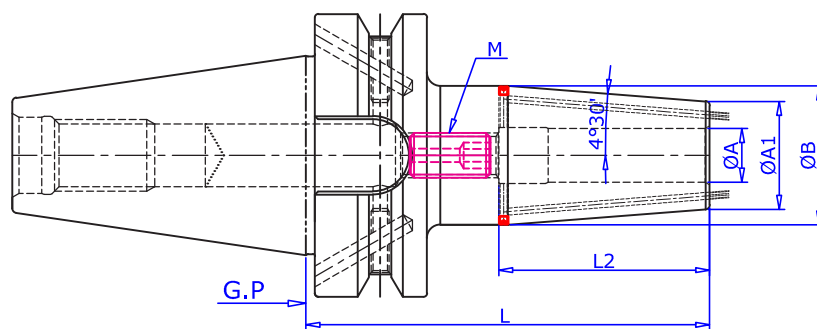
Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Tool Shank	Ø A	Ø A1	Ø B	L	L2	M
BT30 SFA06 080 FCC	BT 30	6	21	27	80	36	M5
BT30 SFA08 080 FCC	BT 30	8	21	27	80	36	M6
BT30 SFA10 080 FCC	BT 30	10	24	32	80	42	M8
BT30 SFA12 080 FCC	BT 30	12	24	32	80	47	M10
BT30 SFA14 080 FCC	BT 30	14	27	34	80	47	M10
BT30 SFA16 080 FCC	BT 30	16	27	34	80	50	M12
BT30 SFA18 080 FCC	BT 30	18	33	42	80	50	M12
BT30 SFA20 080 FCC	BT 30	20	33	42	80	52	M16

Ordering Example :- BT30 SFA10 080 FCC -2 Nos

SHRINK FIT ADAPTOR (Face Coolant Channel) (AD+B / JD/JF)



Taper Angle AT3 Class

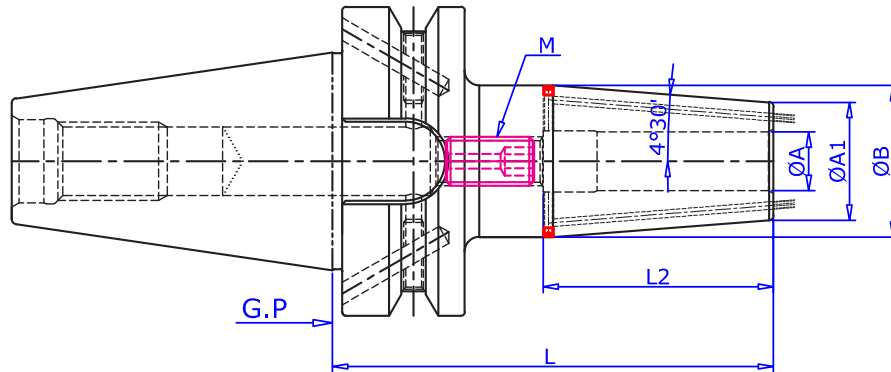
Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Tool Shank	Ø A	Ø A1	Ø B	L	L2	M
BT40 SFA06 090 FCC AD+B	BT 40	6	21	27	90	36	M5
BT40 SFA06 120 FCC AD+B	BT 40	6	21	27	120	36	M5
BT40 SFA06 160 FCC AD+B	BT 40	6	21	27	160	36	M5
BT40 SFA08 090 FCC AD+B	BT 40	8	21	27	90	36	M6
BT40 SFA08 120 FCC AD+B	BT 40	8	21	27	120	36	M6
BT40 SFA08 160 FCC AD+B	BT 40	8	21	27	160	36	M6
BT40 SFA10 090 FCC AD+B	BT 40	10	24	32	90	42	M8
BT40 SFA10 120 FCC AD+B	BT 40	10	24	32	120	42	M8
BT40 SFA10 160 FCC AD+B	BT 40	10	24	32	160	42	M8
BT40 SFA12 090 FCC AD+B	BT 40	12	24	32	90	47	M10
BT40 SFA12 120 FCC AD+B	BT 40	12	24	32	120	47	M10
BT40 SFA12 160 FCC AD+B	BT 40	12	24	32	160	47	M10
BT40 SFA14 090 FCC AD+B	BT 40	14	27	34	90	47	M10
BT40 SFA14 120 FCC AD+B	BT 40	14	27	34	120	47	M10
BT40 SFA14 160 FCC AD+B	BT 40	14	27	34	160	47	M10
BT40 SFA16 090 FCC AD+B	BT 40	16	27	34	90	50	M12
BT40 SFA16 120 FCC AD+B	BT 40	16	27	34	120	50	M12
BT40 SFA16 160 FCC AD+B	BT 40	16	27	34	160	50	M12
BT40 SFA18 090 FCC AD+B	BT 40	18	33	42	90	50	M12
BT40 SFA18 120 FCC AD+B	BT 40	18	33	42	120	50	M12
BT40 SFA18 160 FCC AD+B	BT 40	18	33	42	160	50	M12
BT40 SFA20 090 FCC AD+B	BT 40	20	33	42	90	52	M16
BT40 SFA20 120 FCC AD+B	BT 40	20	33	42	120	52	M16
BT40 SFA20 160 FCC AD+B	BT 40	20	33	42	160	52	M16
BT40 SFA25 100 FCC AD+B	BT 40	25	44	53	100	58	M16
BT40 SFA25 120 FCC AD+B	BT 40	25	44	53	120	58	M16
BT40 SFA25 160 FCC AD+B	BT 40	25	44	53	160	58	M16
BT40 SFA32 100 FCC AD+B	BT 40	32	44	53	100	58	M16
BT40 SFA32 120 FCC AD+B	BT 40	32	44	53	120	58	M16
BT40 SFA32 160 FCC AD+B	BT 40	32	44	53	160	58	M16

Ordering Example :- BT40 SFA10 090 FCC JD/JF -2 Nos

SHRINK FIT ADAPTOR (Face Coolant Channel) (AD+B / JD/JF)



Taper Angle AT3 Class

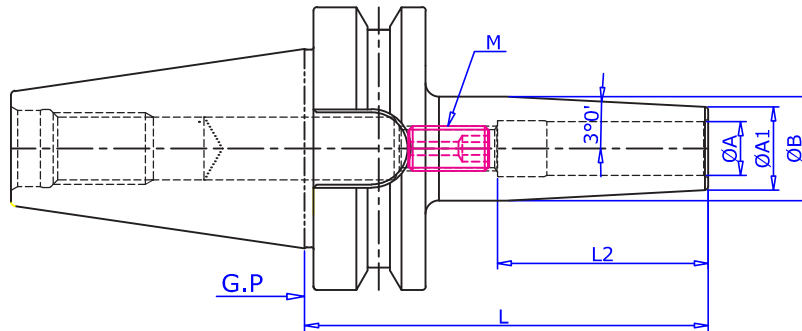
Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Tool Shank	Ø A	Ø A1	Ø B	L	L2	M
BT50 SFA06 100 FCC AD+B	BT 50	6	21	27	100	36	M5
BT50 SFA06 120 FCC AD+B	BT 50	6	21	27	120	36	M5
BT50 SFA06 160 FCC AD+B	BT 50	6	21	27	160	36	M5
BT50 SFA08 100 FCC AD+B	BT 50	8	21	27	100	36	M6
BT50 SFA08 120 FCC AD+B	BT 50	8	21	27	120	36	M6
BT50 SFA08 160 FCC AD+B	BT 50	8	21	27	160	36	M6
BT50 SFA10 100 FCC AD+B	BT 50	10	24	32	100	42	M8
BT50 SFA10 120 FCC AD+B	BT 50	10	24	32	120	42	M8
BT50 SFA10 160 FCC AD+B	BT 50	10	24	32	160	42	M8
BT50 SFA12 100 FCC AD+B	BT 50	12	24	32	100	47	M10
BT50 SFA12 120 FCC AD+B	BT 50	12	24	32	120	47	M10
BT50 SFA12 160 FCC AD+B	BT 50	12	24	32	160	47	M10
BT50 SFA14 100 FCC AD+B	BT 50	14	27	34	100	47	M10
BT50 SFA14 120 FCC AD+B	BT 50	14	27	34	120	47	M10
BT50 SFA14 160 FCC AD+B	BT 50	14	27	34	160	47	M10
BT50 SFA16 100 FCC AD+B	BT 50	16	27	34	100	50	M12
BT50 SFA16 120 FCC AD+B	BT 50	16	27	34	120	50	M12
BT50 SFA16 160 FCC AD+B	BT 50	16	27	34	160	50	M12
BT50 SFA18 100 FCC AD+B	BT 50	18	33	42	100	50	M12
BT50 SFA18 120 FCC AD+B	BT 50	18	33	42	120	50	M12
BT50 SFA18 160 FCC AD+B	BT 50	18	33	42	160	50	M12
BT50 SFA20 100 FCC AD+B	BT 50	20	33	42	100	52	M16
BT50 SFA20 120 FCC AD+B	BT 50	20	33	42	120	52	M16
BT50 SFA20 160 FCC AD+B	BT 50	20	33	42	160	52	M16
BT50 SFA25 110 FCC AD+B	BT 50	25	44	53	110	58	M16
BT50 SFA25 120 FCC AD+B	BT 50	25	44	53	120	58	M16
BT50 SFA25 160 FCC AD+B	BT 50	25	44	53	160	58	M16
BT50 SFA32 110 FCC AD+B	BT 50	32	44	53	110	58	M16
BT50 SFA32 120 FCC AD+B	BT 50	32	44	53	120	58	M16
BT50 SFA32 160 FCC AD+B	BT 50	32	44	53	160	58	M16

Ordering Example :- BT50 SFA12 100 FCC JD/JF -2 Nos

SHRINK FIT ADAPTOR (Slim Line) (AD/JD)



Taper Angle AT3 Class

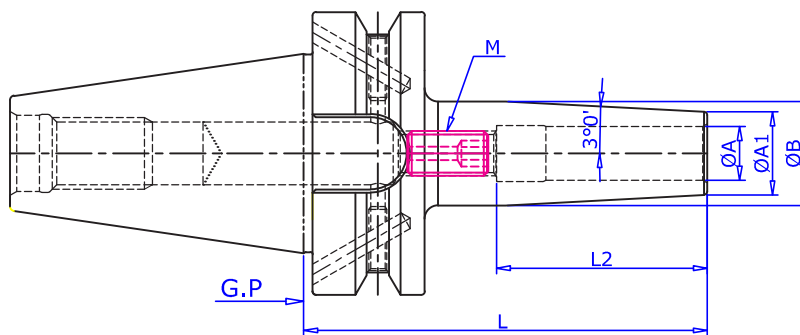
Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Tool Shank	Ø A	Ø A1	Ø B	L	L2	M
BT30 SFA06 080 Slim	30	6	12	18	80	36	M5
BT30 SFA06 100 Slim	30	6	12	18	100	36	M5
BT30 SFA08 080 Slim	30	8	14	20	80	36	M6
BT30 SFA08 100 Slim	30	8	14	20	100	36	M6
BT30 SFA10 080 Slim	30	10	16	22	80	42	M8
BT30 SFA10 100 Slim	30	10	16	22	100	42	M8
BT30 SFA12 080 Slim	30	12	18	24	80	47	M10
BT30 SFA12 100 Slim	30	12	18	24	100	47	M10
BT30 SFA14 080 Slim	30	14	20	26	80	47	M10
BT30 SFA14 100 Slim	30	14	20	30	100	47	M10
BT30 SFA16 080 Slim	30	16	22	28	80	50	M12
BT30 SFA16 100 Slim	30	16	22	32	100	50	M12
BT30 SFA18 080 Slim	30	18	24	30	80	50	M12
BT30 SFA18 100 Slim	30	18	24	34	100	50	M12
BT30 SFA20 080 Slim	30	20	26	32	80	52	M16
BT30 SFA20 100 Slim	30	20	26	36	100	52	M16

Ordering Example :- BT30 SFA10 080 Slim -2 Nos

SHRINK FIT ADAPTOR (Slim Line) (AD+B) (JD/JF)



Taper Angle AT3 Class

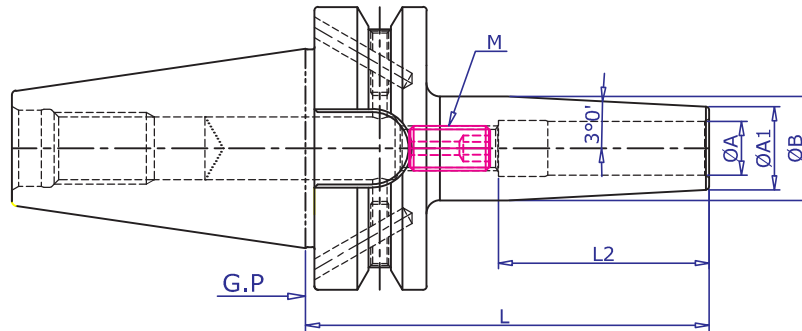
Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Tool Shank	Ø A	Ø A1	Ø B	L	L2	M
BT40 SFA06 090 Slim AD+B	BT 40	6	12	18	90	36	M5
BT40 SFA06 120 Slim AD+B	BT 40	6	12	21	120	36	M5
BT40 SFA06 160 Slim AD+B	BT 40	6	12	25	160	36	M5
BT40 SFA08 090 Slim AD+B	BT 40	8	14	20	90	36	M6
BT40 SFA08 120 Slim AD+B	BT 40	8	14	23	120	36	M6
BT40 SFA08 160 Slim AD+B	BT 40	8	14	27	160	36	M6
BT40 SFA10 090 Slim AD+B	BT 40	10	16	22	90	42	M8
BT40 SFA10 120 Slim AD+B	BT 40	10	16	25	120	42	M8
BT40 SFA10 160 Slim AD+B	BT 40	10	16	29	160	42	M8
BT40 SFA12 090 Slim AD+B	BT 40	12	18	24	90	47	M10
BT40 SFA12 120 Slim AD+B	BT 40	12	18	27	120	47	M10
BT40 SFA12 160 Slim AD+B	BT 40	12	18	31	160	47	M10
BT40 SFA14 090 Slim AD+B	BT 40	14	20	26	90	47	M10
BT40 SFA14 120 Slim AD+B	BT 40	14	20	29	120	47	M10
BT40 SFA14 160 Slim AD+B	BT 40	14	20	32	160	47	M10
BT40 SFA16 090 Slim AD+B	BT 40	16	22	28	90	50	M12
BT40 SFA16 120 Slim AD+B	BT 40	16	22	31	120	50	M12
BT40 SFA16 160 Slim AD+B	BT 40	16	22	34	160	50	M12
BT40 SFA18 090 Slim AD+B	BT 40	18	24	30	90	50	M12
BT40 SFA18 120 Slim AD+B	BT 40	18	24	33	120	50	M12
BT40 SFA18 160 Slim AD+B	BT 40	18	24	36	160	50	M12
BT40 SFA20 090 Slim AD+B	BT 40	20	26	32	90	52	M16
BT40 SFA20 120 Slim AD+B	BT 40	20	26	35	120	52	M16
BT40 SFA20 160 Slim AD+B	BT 40	20	26	38	160	52	M16

Ordering Example :- BT40 SFA10 090 Slim AD+B -2 Nos

SHRINK FIT ADAPTOR (Slim Line) (AD+B) (JD/JF)



Taper Angle AT3 Class

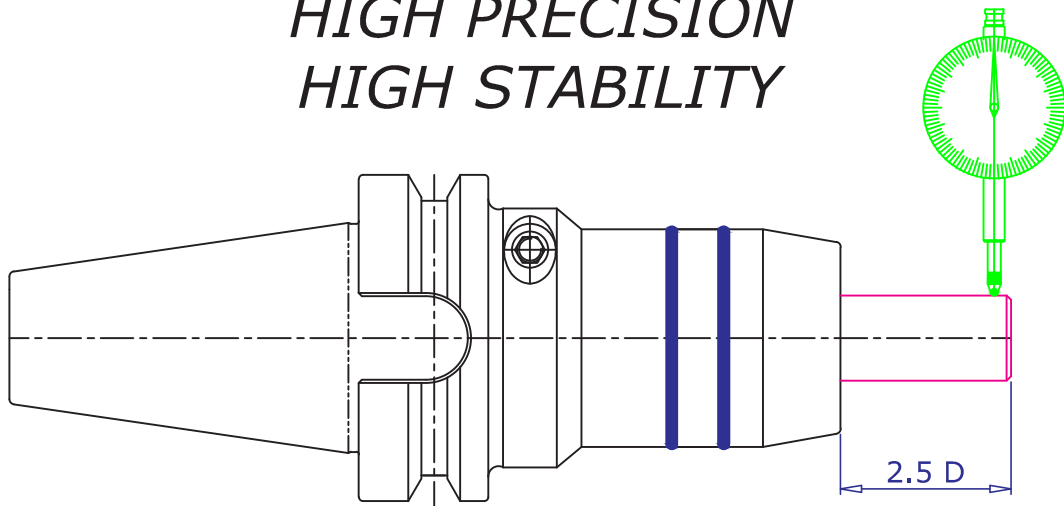
Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Tool Shank	Ø A	Ø A1	Ø B	L	L2	M
BT50 SFA06 100 Slim AD+B	BT 50	6	12	18.5	100	36	M5
BT50 SFA06 120 Slim AD+B	BT 50	6	12	20.5	120	36	M5
BT50 SFA06 160 Slim AD+B	BT 50	6	12	25	160	36	M5
BT50 SFA08 100 Slim AD+B	BT 50	8	14	20.5	100	36	M6
BT50 SFA08 120 Slim AD+B	BT 50	8	14	22.5	120	36	M6
BT50 SFA08 160 Slim AD+B	BT 50	8	14	27	160	36	M6
BT50 SFA10 100 Slim AD+B	BT 50	10	16	22.5	100	42	M8
BT50 SFA10 120 Slim AD+B	BT 50	10	16	24.5	120	42	M8
BT50 SFA10 160 Slim AD+B	BT 50	10	16	29	160	42	M8
BT50 SFA12 100 Slim AD+B	BT 50	12	18	24.5	100	47	M10
BT50 SFA12 120 Slim AD+B	BT 50	12	18	26.5	120	47	M10
BT50 SFA12 160 Slim AD+B	BT 50	12	18	31	160	47	M10
BT50 SFA14 100 Slim AD+B	BT 50	14	20	26	100	47	M10
BT50 SFA14 120 Slim AD+B	BT 50	14	20	29	120	47	M10
BT50 SFA14 160 Slim AD+B	BT 50	14	20	32	160	47	M10
BT50 SFA16 100 Slim AD+B	BT 50	16	22	28	100	50	M12
BT50 SFA16 120 Slim AD+B	BT 50	16	22	31	120	50	M12
BT50 SFA16 160 Slim AD+B	BT 50	16	22	34	160	50	M12
BT50 SFA18 100 Slim AD+B	BT 50	18	24	30	100	50	M12
BT50 SFA18 120 Slim AD+B	BT 50	18	24	33	120	50	M12
BT50 SFA18 160 Slim AD+B	BT 50	18	24	36	160	50	M12
BT50 SFA20 100 Slim AD+B	BT 50	20	26	32	100	52	M16
BT50 SFA20 120 Slim AD+B	BT 50	20	26	35	120	52	M16
BT50 SFA20 160 Slim AD+B	BT 50	20	26	38	160	52	M16

Ordering Example :- BT50 SFA16 100 Slim AD+B -2 Nos

HIGH PRECISION HIGH STABILITY



*Permanent run-out and repeat accuracy
of less then
0.003mm (2.5 D)*

●Feature and benefits●

Application

For Milling,Drilling and Reamers Work.

Advanced Hydraulic Clamping.

Tool life improvement up to 50%
Improved roughness of processed products

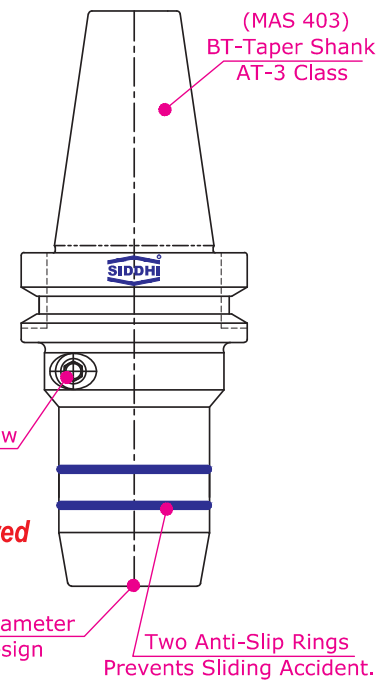
G2.5 at 20,000 RPM Balance of Quality

Increase productivity with high cutting speed.

Easy Clamping / Unclamping

Leak-proof clamping system.
Reliable consistent clamping.
No Over torque.
No required torque wrench.

With One Year Warranty Assured

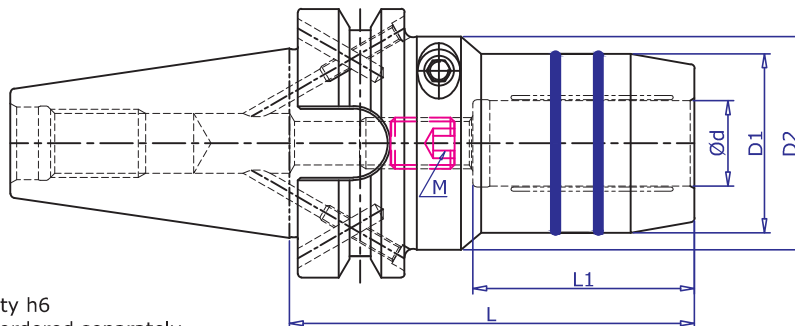


Clamping Screw torque Values	
Clamping dia. (mm)	Min.transferable torque moment (Nm)
6	12
8	20
10	40
12	70
14	100
16	150
18	210
20	250
25	420
32	800



Reduction Sleeve

HYDRAULIC CHUCK (AD+B / JD/JF)



- * Tool shank quality h6
- * Hydro-sleeve is ordered separately.
- * Tighten the pressure screw until fully engaged.
- * Additional sizes and special designs available on request.

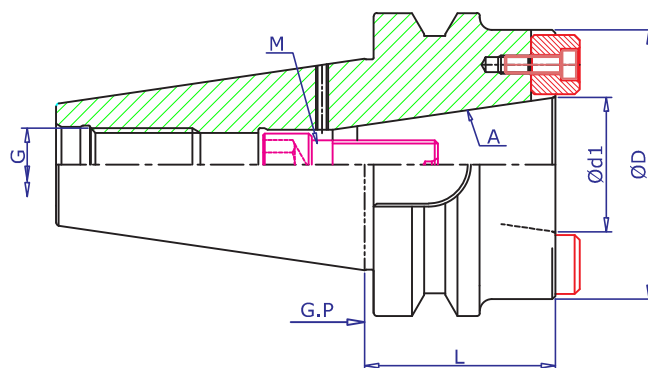
Maximum runout of MOUNTING taper to INTERNAL dia 0.003mm

Balancing GRADE:- G2.5 /20,000 rev./min STD.

Availability :- ● Stock ○ 08-10 Weeks

	Item Description	Tool Shank	Ø d	Ø D1	Ø D2	L	L1	M
○	BT30 SHC 06 075AD	BT 30	6	26	50	75	38	M5
○	BT30 SHC 08 075AD	BT 30	8	28	50	75	38	M6
○	BT30 SHC 10 080AD	BT 30	10	30	50	80	40	M6
●	BT30 SHC 12 085AD	BT 30	12	32	50	85	45	M6
○	BT30 SHC 14 100AD	BT 30	14	34	50	100	45	M6
○	BT30 SHC 16 100AD	BT 30	16	38	50	100	50	M8
○	BT30 SHC 18 100AD	BT 30	18	40	50	100	52	M8
●	BT30 SHC 20 100AD	BT 30	20	42	50	100	52	M8
○	BT40 SHC 06 080AD+B	BT 40	6	26	50	80	38	M5
○	BT40 SHC 08 080AD+B	BT 40	8	28	50	80	38	M6
○	BT40 SHC 10 080AD+B	BT 40	10	30	50	80	40	M6
●	BT40 SHC 12 090AD+B	BT 40	12	32	50	90	45	M6
○	BT40 SHC 14 090AD+B	BT 40	14	34	50	90	45	M6
○	BT40 SHC 16 090AD+B	BT 40	16	38	50	90	50	M8
○	BT40 SHC 18 095AD+B	BT 40	18	40	50	95	52	M8
●	BT40 SHC 20 095AD+B	BT 40	20	42	50	95	52	M8
○	BT40 SHC 25 105AD+B	BT 40	25	53	---	105	59	M16
○	BT40 SHC 32 110AD+B	BT 40	32	60	---	110	60	M16
○	BT50 SHC 06 090AD+B	BT 50	6	26	50	90	38	M5
○	BT50 SHC 08 090AD+B	BT 50	8	28	50	90	38	M6
○	BT50 SHC 10 095AD+B	BT 50	10	30	50	95	40	M6
●	BT50 SHC 12 100AD+B	BT 50	12	32	50	100	45	M6
○	BT50 SHC 14 100AD+B	BT 50	14	34	50	100	45	M6
○	BT50 SHC 16 105AD+B	BT 50	16	38	50	105	50	M8
○	BT50 SHC 18 105AD+B	BT 50	18	40	50	105	52	M8
●	BT50 SHC 20 105AD+B	BT 50	20	42	50	105	52	M8
○	BT50 SHC 25 115AD+B	BT 50	25	53	---	115	59	M16
○	BT50 SHC 32 120AD+B	BT 50	32	60	---	120	60	M16

REDUCTION SLEEVE



Taper Angle AT3 Class

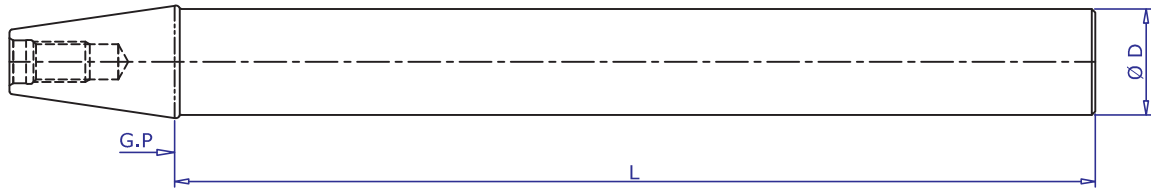
Maximum runout of MOUNTING taper to INTERNAL dia 0.005mm

Balancing GRADE:- G6.3 /15,000 rev./min STD.

Item Description	Tool Shank	Ød1	ØD	A	L	M	G
BT50 To BT40 Reduction Sleeve	BT-50	44.45	88.8	7/24	49.0	M16	M24

Ordering Example :- BT50 TO SK40 SLEEVE - 2 Nos.

MASTER MANDREL



Taper Angle AT3 Class.

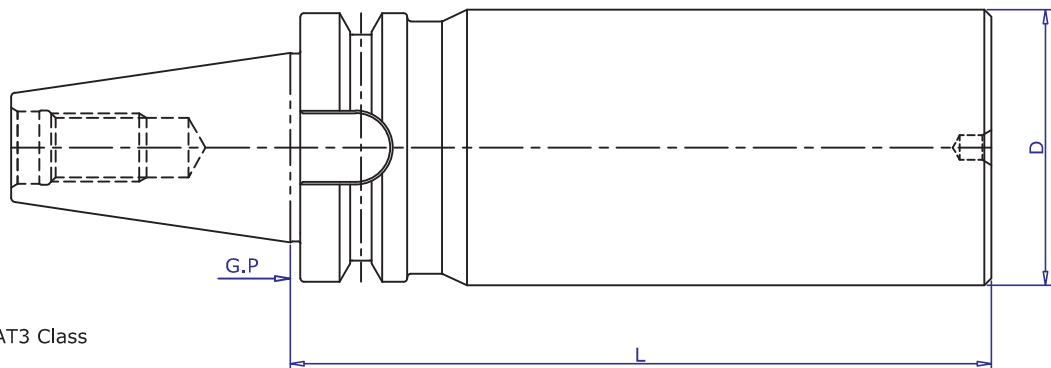
Master Mandrels According To MAS 403 STD.
Runout Max. 0.005 Taper w.r.t. Plane Dia. At L

Note :- To Be Vertically Stored.
Supplied In Wooden Box.

TOOL SHANK	ØD	L
BT30	32.0	250
BT40	40.0	300
BT50	50.0	350

Ordering Example :- BT40 Ø40.0 MASTER MANDREL- 2 Nos.

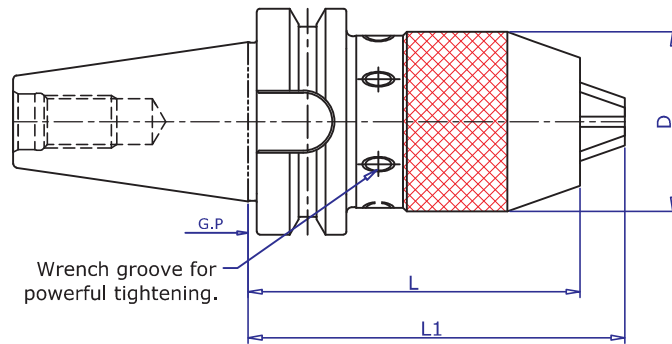
BORING BAR BLANK.



Taper Angle AT3 Class

TOOL SHANK	D	L
BT40 / BT50 BORING BAR BLANK	AS PER CUSTOMER REQUIREMENT	

SIDDHI DRILL CHUCK (NCDC)



Taper Angle AT3 Class

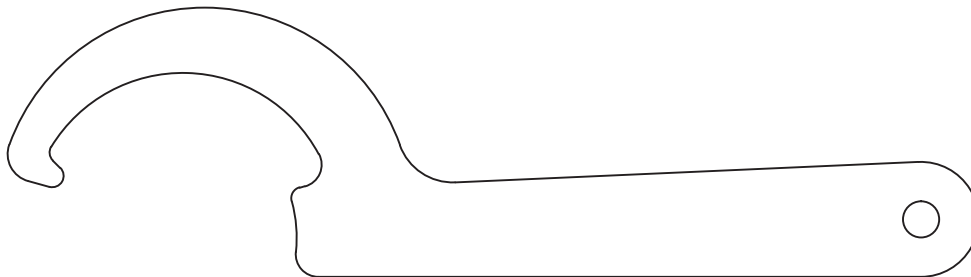
Item Description	Capacity	ϕD	L	L1
BT30 x NCDC113	1.0 To 13.0 mm	50	112.5	125
BT40 x NCDC113	1.0 To 13.0 mm	50	92.5	105
BT50 x NCDC113	1.0 To 13.0 mm	50	107.5	120

Ordering Example :- BT40 SDC113 - 2 Nos.

COMPARISON DATA OF DRILL CHUCK TIGHTENING TORQUE

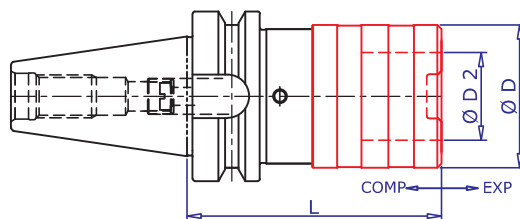
Type of drill chuck	Method of tightening	Twisting moment	Comparison %
SDC 113	By Hand	6.9 Nm	100
NCDC 113	By wrench	21.8 Nm	300

NC SDC Wrench.



BT (MAS 403) (DIN ISO 7388-2)

QUICK CHANGE TAPPING CHUCK (SWFLK) Type SWFLK/BT/MAS 403

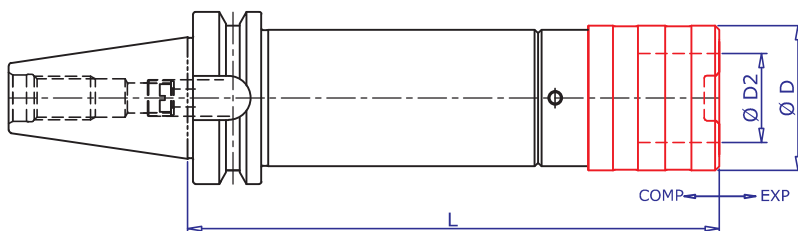


Taper Angle AT3 Class .

Item Description	Chuck Capacity	Suitable Adaptors.	Length Comp		Ø D	Ø D2	BT30 L	BT 40 L	BT 50 L
			Compr.	Expan.					
SWFLK 1 / BT #	M 3 - M 12	SWES1B / SWE1	7.50	7.50	36	19	64.0	67.5	77
SWFLK 2 / BT #	M 8 - M 20	SWES2B / SWE2	12.50	12.50	53	31	-	94.5	102.5
SWFLK 3 / BT #	M 14- M33	SWES3B / SWE3	20.00	20.00	78	48	-	164.5	142.5

Ordering Example :- SWFLK2/BT40 QTY. : 2 NOS.

QUICK CHANGE TAPPING CHUCK (SWFLK) Type SWFLK/BT/MAS 403

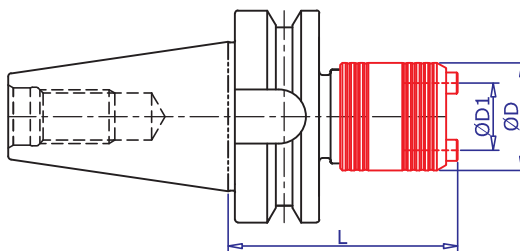


Taper Angle AT3 Class .

Item Description	Chuck Capacity	Suitable Adaptors.	Length Comp		Ø D	Ø D2	BT40 L	BT 50 L
			Compr.	Expan.				
SWFLK 1 / BT #	M 3 - M 12	SWES1B / SWE1	7.50	7.50	36	19	150 To 500	150 To 500
SWFLK 2 / BT #	M 8 - M 20	SWES2B / SWE2	12.50	12.50	53	31	150 To 500	150 To 500
SWFLK 3 / BT #	M 14- M33	SWES3B / SWE3	20.00	20.00	78	48	200 To 500	200 To 500

Ordering Example :- SWFLK1 /BT40 QTY : 2 NOS.

RIGID TAPPING CHUCK SQ # / BT / MAS 403



Taper Angle AT3 Class .

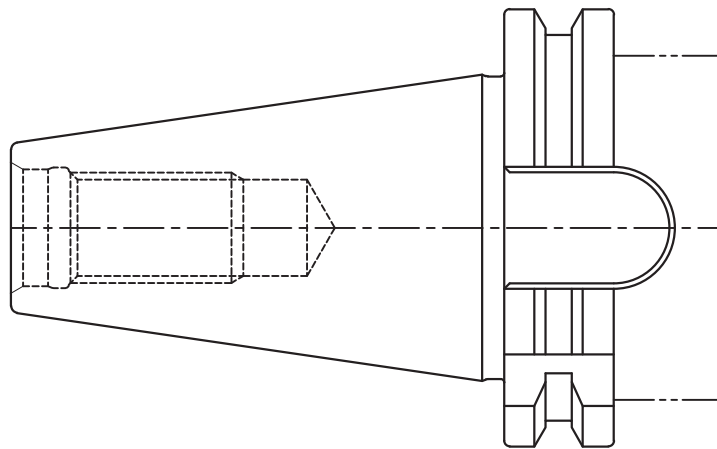
(No Compression & No Expansion)

Item Description	Chuck Capacity	Suitable Adaptors	Ø D1	Ø D	BT30 L	BT40 L	BT50 L
SQ 3-12 /BT #	M3 - M12	SWES1B / SWE1	19.0	32.0	61.5	67.0	77.0
SQ 8-20 /BT #	M8 - M20	SWES2B / SWE2	31.0	50.0	84.5	90.0	100.0

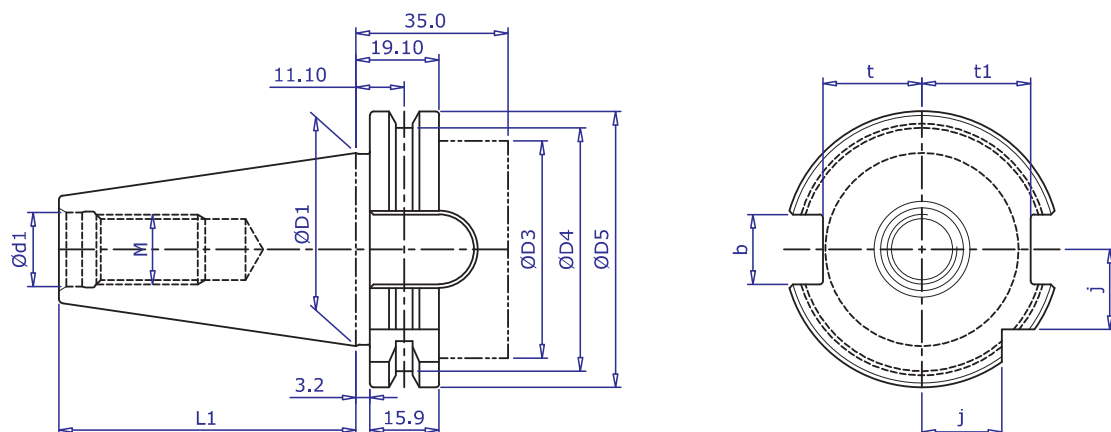
Ordering Example :- SQ 3-12 / BT40 QTY. : 2 NOS.

NOTE:- FOR TAP ADAPTORS AND TAP TECHNICAL SPECIFICATION PLEASE REFER PAGE NO. 164, 165, 166, 167

Precision Tool Holder SK (DIN 69871) DIN ISO 7388-1



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SK DIN 69871 FORM A
Technical Information


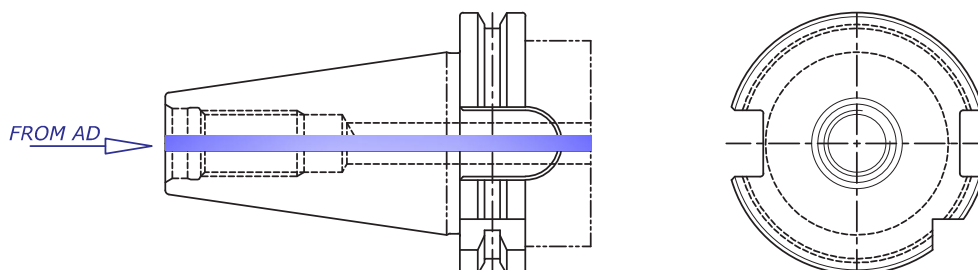
Taper Angle AT3 Class

TOOL SHANK	ØD1	ØD3	ØD4	ØD5	L1	M	Ød1	t	t1	b	j
30	31.75	45	44.30	50.0	47.80	M12	13	16.40	19.0	16.10	15.0
40	44.45	50	56.25	63.55	68.40	M16	17	22.80	25.0	16.10	18.5
45	57.15	63	75.25	82.55	82.70	M20	21	29.10	31.3	19.30	25.0
50	69.85	80	91.25	97.5	101.75	M24	25	35.50	37.7	25.70	30.0

WITH COOLANT THROUGH CENTER

Old Name : SK (DIN 69871) FROM AD

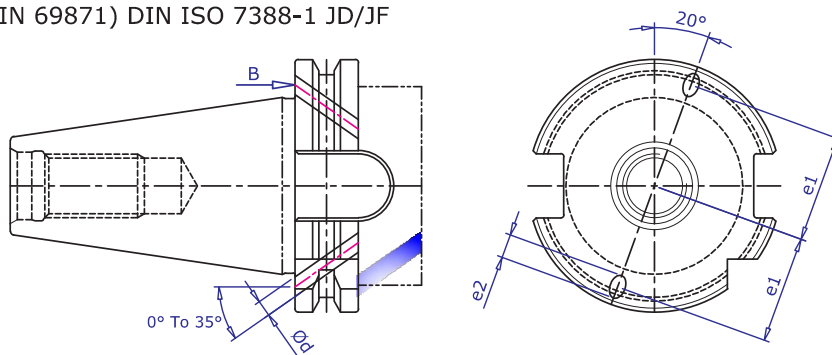
New Name : SK (DIN 69871) DIN ISO 7388-1 JD



WITH COOLANT THROUGH FLANGE

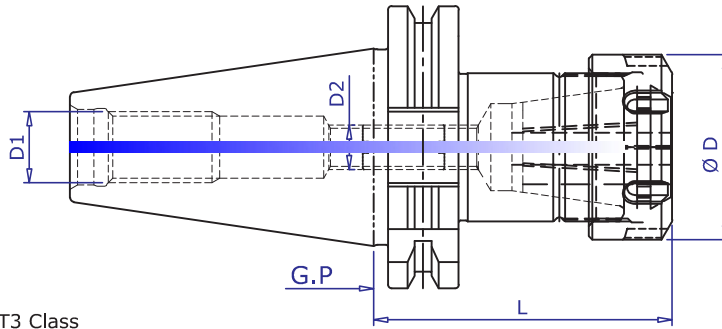
Old Name : SK (DIN 69871) FROM AD+B

New Name : SK (DIN 69871) DIN ISO 7388-1 JD/JF



TOOL SHANK	Ød	e1	e2
SK40	4	27	5
SK45	5	35	6
SK50	6	42	7

COLLET CHUCKS ER TYPE DIN 6499 FOR PARALLEL SHANK TOOLS (AD/JD)



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

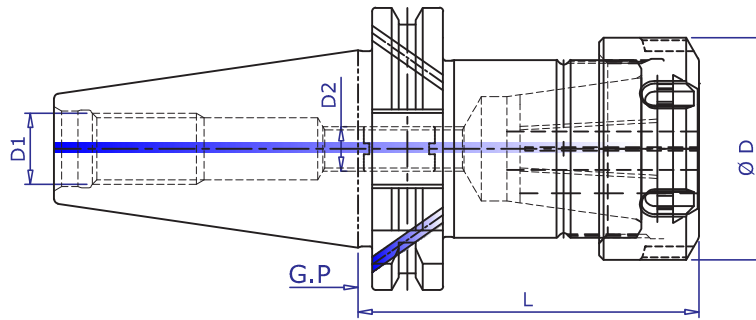
Balancing GRADE:- G6.3 /15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Suitable for Collet	Collet Clamping Capacity	L	D1	D2	Nut		Spanner Designation
						ØD	Designation	
SK 30 ER 16 060 G.P	ER 16	0.5 - 10	60	M 12	M10 X 1P	28	UM/ER 16	GS 25
SK 30 ER 16 100 G.P	ER 16	0.5 - 10	100	M 12	M10 X 1P	28	UM/ER 16	GS 25
SK 30 ER 20 060 G.P	ER 20	1.0 -13	60	M 12	M10 X 1P	34	UM/ER 20	E 20
SK 30 ER 20 100 G.P	ER 20	1.0 -13	100	M 12	M10 X 1P	34	UM/ER 20	E 20
SK 30 ER 25 060 G.P	ER 25	1.0 - 16	60	M 12	M18 X 1P	42	UM/ER 25	E 25
SK 30 ER 25 100 G.P	ER 25	1.0 - 16	100	M 12	M18 X 1P	42	UM/ER 25	E 25
SK 30 ER 32 060 G.P	ER 32	2.0 - 20	60	M 12	M22 X 1.5P	50	UM/ER 32	E 32
SK 30 ER 32 100 G.P	ER 32	2.0 - 20	100	M 12	M22 X 1.5P	50	UM/ER 32	E 32
SK 30 ER 40 100 G.P	ER 40	3.0 - 26	100	M 12	M30 X 1.5P	63	UM/ER 40	E 40
SK 40 ER 16 060 G.P	ER 16	0.5 - 10	60	M 16	M10 X 1P	28	UM/ER 16	GS 25
SK 40 ER 16 100 G.P	ER 16	0.5 - 10	100	M 16	M10 X 1P	28	UM/ER 16	GS 25
SK 40 ER 16 160 G.P	ER 16	0.5 - 10	160	M 16	M10 X 1P	28	UM/ER 16	GS 25
SK 40 ER 20 060 G.P	ER 20	1.0 - 13	60	M 16	M10 X 1P	34	UM/ER 20	E 20
SK 40 ER 20 100 G.P	ER 20	1.0 - 13	100	M 16	M10 X 1P	34	UM/ER 20	E 20
SK 40 ER 20 160 G.P	ER 20	1.0 - 13	160	M 16	M10 X 1P	34	UM/ER 20	E 20
SK 40 ER 25 060 G.P	ER 25	1.0 - 16	60	M 16	M18 X 1P	42	UM/ER 25	E 25
SK 40 ER 25 100 G.P	ER 25	1.0 - 16	100	M 16	M18 X 1P	42	UM/ER 25	E 25
SK 40 ER 25 160 G.P	ER 25	1.0 - 16	160	M 16	M18 X 1P	42	UM/ER 25	E 25
SK 40 ER 32 070 G.P	ER 32	2.0 - 20	70	M 16	M22 X 1.5P	50	UM/ER 32	E 32
SK 40 ER 32 100 G.P	ER 32	2.0 - 20	100	M 16	M22 X 1.5P	50	UM/ER 32	E 32
SK 40 ER 32 160 G.P	ER 32	2.0 - 20	160	M 16	M22 X 1.5P	50	UM/ER 32	E 32
SK 40 ER 40 080 G.P	ER 40	3.0 - 26	80	M 16	M30 X 1.5P	63	UM/ER 40	E 40
SK 40 ER 40 100 G.P	ER 40	3.0 - 26	100	M 16	M30 X 1.5P	63	UM/ER 40	E 40
SK 40 ER 40 160 G.P	ER 40	3.0 - 26	160	M 16	M30 X 1.5P	63	UM/ER 40	E 40
SK 40 ER 50 100 G.P	ER 50	10 - 34	100	M 16	M30 X 1.5P	78	UM/ER 50	E 50
SK 50 ER 16 070 G.P	ER 16	0.5 - 10	60	M 16	M10 X 1P	28	UM/ER 16	GS 25
SK 50 ER 16 100 G.P	ER 16	0.5 - 10	100	M 16	M10 X 1P	28	UM/ER 16	GS 25
SK 50 ER 16 160 G.P	ER 16	0.5 - 10	160	M 16	M10 X 1P	28	UM/ER 16	GS 25
SK 50 ER 25 065 G.P	ER 25	1.0 - 16	65	M 24	M18 X 1P	42	UM/ER 25	E 25
SK 50 ER 25 100 G.P	ER 25	1.0 - 16	100	M 24	M18 X 1P	42	UM/ER 25	E 25
SK 50 ER 25 160 G.P	ER 25	1.0 - 16	160	M 24	M18 X 1P	42	UM/ER 25	E 25
SK 50 ER 32 070 G.P	ER 32	2.0 - 20	70	M 24	M22 X 1.5P	50	UM/ER 32	E 32
SK 50 ER 32 100 G.P	ER 32	2.0 - 20	100	M 24	M22 X 1.5P	50	UM/ER 32	E 32
SK 50 ER 32 160 G.P	ER 32	2.0 - 20	160	M 24	M22 X 1.5P	50	UM/ER 32	E 32
SK 50 ER 40 080 G.P	ER 40	3.0 - 26	80	M 24	M30 X 1.5P	63	UM/ER 40	E 40
SK 50 ER 40 100 G.P	ER 40	3.0 - 26	100	M 24	M30 X 1.5P	63	UM/ER 40	E 40
SK 50 ER 40 160 G.P	ER 40	3.0 - 26	160	M 24	M30 X 1.5P	63	UM/ER 40	E 40
SK 50 ER 50 100 G.P	ER 50	10 - 34	100	M 24	M30 X 1.5P	78	UM/ER 50	E 50
SK 50 ER 50 160 G.P	ER 50	10 - 34	160	M 24	M30 X 1.5P	78	UM/ER 50	E 50

Ordering Example :- SK40 ER40 070G.P -2 Nos

COLLET CHUCKS ER TYPE DIN 6499 FOR PARALLEL SHANK TOOLS (AD+B / JD/JF)



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

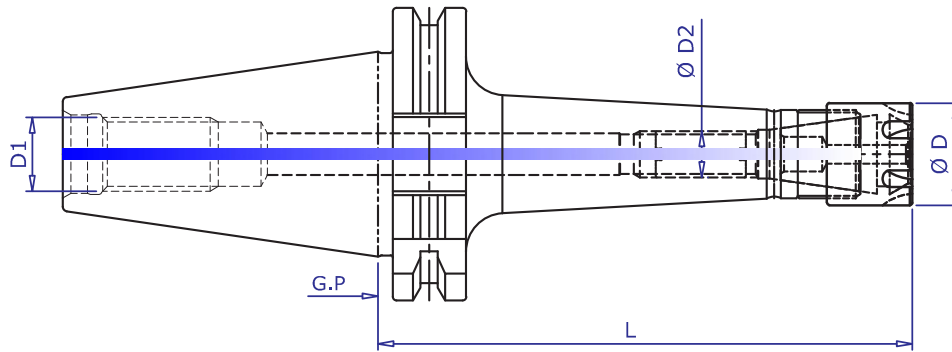
Balancing GRADE:- G6.3 /15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Suitable for Collet	Collet Clamping Capacity	L	D1	D2	Nut		Spanner Designation
						ØD	Designation	
SK 30 ER 16 060 AD+B	ER 16	0.5 - 10	60	M 12	M10 X 1P	28	UM/ER 16	GS 25
SK 30 ER 16 100 AD+B	ER 16	0.5 - 10	100	M 12	M10 X 1P	28	UM/ER 16	GS 25
SK 30 ER 20 060 AD+B	ER 20	1.0 -13	60	M 12	M10 X 1P	34	UM/ER 20	E 20
SK 30 ER 20 100 AD+B	ER 20	1.0 -13	100	M 12	M10 X 1P	34	UM/ER 20	E 20
SK 30 ER 25 060 AD+B	ER 25	1.0 - 16	60	M 12	M18 X 1P	42	UM/ER 25	E 25
SK 30 ER 25 100 AD+B	ER 25	1.0 - 16	100	M 12	M18 X 1P	42	UM/ER 25	E 25
SK 30 ER 32 060 AD+B	ER 32	2.0 - 20	60	M 12	M22 X 1.5P	50	UM/ER 32	E 32
SK 30 ER 32 100 AD+B	ER 32	2.0 - 20	100	M 12	M22 X 1.5P	50	UM/ER 32	E 32
SK 30 ER 40 100 AD+B	ER 40	3.0 - 26	100	M 12	M30 X 1.5P	63	UM/ER 40	E 40
SK 40 ER 16 060 AD+B	ER 16	0.5 - 10	60	M 16	M10 X 1P	28	UM/ER 16	GS 25
SK 40 ER 16 100 AD+B	ER 16	0.5 - 10	100	M 16	M10 X 1P	28	UM/ER 16	GS 25
SK 40 ER 16 160 AD+B	ER 16	0.5 - 10	160	M 16	M10 X 1P	28	UM/ER 16	GS 25
SK 40 ER 20 060 AD+B	ER 20	1.0 - 13	60	M 16	M10 X 1P	34	UM/ER 20	E 20
SK 40 ER 20 100 AD+B	ER 20	1.0 - 13	100	M 16	M10 X 1P	34	UM/ER 20	E 20
SK 40 ER 20 160 AD+B	ER 20	1.0 - 13	160	M 16	M10 X 1P	34	UM/ER 20	E 20
SK 40 ER 25 060 AD+B	ER 25	1.0 - 16	60	M 16	M18 X 1P	42	UM/ER 25	E 25
SK 40 ER 25 100 AD+B	ER 25	1.0 - 16	100	M 16	M18 X 1P	42	UM/ER 25	E 25
SK 40 ER 25 160 AD+B	ER 25	1.0 - 16	160	M 16	M18 X 1P	42	UM/ER 25	E 25
SK 40 ER 32 070 AD+B	ER 32	2.0 - 20	70	M 16	M22 X 1.5P	50	UM/ER 32	E 32
SK 40 ER 32 100 AD+B	ER 32	2.0 - 20	100	M 16	M22 X 1.5P	50	UM/ER 32	E 32
SK 40 ER 32 160 AD+B	ER 32	2.0 - 20	160	M 16	M22 X 1.5P	50	UM/ER 32	E 32
SK 40 ER 40 080 AD+B	ER 40	3.0 - 26	80	M 16	M30 X 1.5P	63	UM/ER 40	E 40
SK 40 ER 40 100 AD+B	ER 40	3.0 - 26	100	M 16	M30 X 1.5P	63	UM/ER 40	E 40
SK 40 ER 40 160 AD+B	ER 40	3.0 - 26	160	M 16	M30 X 1.5P	63	UM/ER 40	E 40
SK 40 ER 50 100 AD+B	ER 50	10 - 34	100	M 16	M30 X 1.5P	78	UM/ER 50	E 50
SK 50 ER 16 070 AD+B	ER 16	0.5 - 10	60	M 16	M10 X 1P	28	UM/ER 16	GS 25
SK 50 ER 16 100 AD+B	ER 16	0.5 - 10	100	M 16	M10 X 1P	28	UM/ER 16	GS 25
SK 50 ER 16 160 AD+B	ER 16	0.5 - 10	160	M 16	M10 X 1P	28	UM/ER 16	GS 25
SK 50 ER 25 065 AD+B	ER 25	1.0 - 16	65	M 24	M18 X 1P	42	UM/ER 25	E 25
SK 50 ER 25 100 AD+B	ER 25	1.0 - 16	100	M 24	M18 X 1P	42	UM/ER 25	E 25
SK 50 ER 25 160 AD+B	ER 25	1.0 - 16	160	M 24	M18 X 1P	42	UM/ER 25	E 25
SK 50 ER 32 070 AD+B	ER 32	2.0 - 20	70	M 24	M22 X 1.5P	50	UM/ER 32	E 32
SK 50 ER 32 100 AD+B	ER 32	2.0 - 20	100	M 24	M22 X 1.5P	50	UM/ER 32	E 32
SK 50 ER 32 160 AD+B	ER 32	2.0 - 20	160	M 24	M22 X 1.5P	50	UM/ER 32	E 32
SK 50 ER 40 080 AD+B	ER 40	3.0 - 26	80	M 24	M30 X 1.5P	63	UM/ER 40	E 40
SK 50 ER 40 100 AD+B	ER 40	3.0 - 26	100	M 24	M30 X 1.5P	63	UM/ER 40	E 40
SK 50 ER 40 160 AD+B	ER 40	3.0 - 26	160	M 24	M30 X 1.5P	63	UM/ER 40	E 40
SK 50 ER 50 100 AD+B	ER 50	10 - 34	100	M 24	M30 X 1.5P	78	UM/ER 50	E 50
SK 50 ER 50 160 AD+B	ER 50	10 - 34	160	M 24	M30 X 1.5P	78	UM/ER 50	E 50

Ordering Example :- SK40 ER40 070 AD+B -2 Nos

COLLET CHUCKS EXTRA LONG WITH M NUTS DIN 6499 ER TYPE (AD / JF)



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

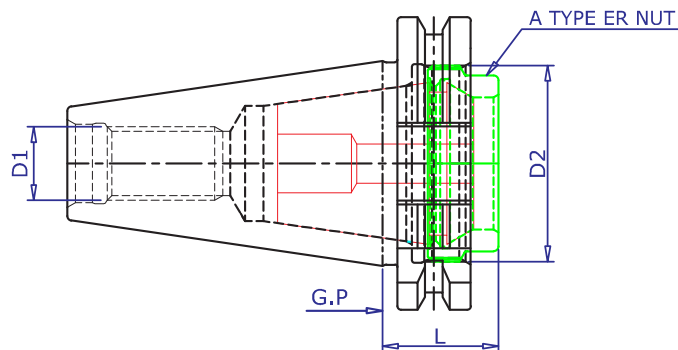
Balancing GRADE:- G6.3 /15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Suitable for Collet	Collet Clamping Capacity	L	D1	D2	Nut		Spanner Designation
						ØD	Designation	
SK 40 ER11 M050 G.P	ER 11	0.5 - 7	50	M 16	M6 x 1P	16	ER11 M	E11 M
SK 40 ER11 M100 G.P	ER 11	0.5 - 7	100	M 16	M6 x 1P	16	ER11 M	E11 M
SK 40 ER11 M160 G.P	ER 11	0.5 - 7	160	M 16	M6 x 1P	16	ER11 M	E11 M
SK 40 ER 16 M070 G.P	ER 16	0.5 - 10	70	M 16	M10X1P	22	ER16 M	E16 M
SK 40 ER 16 M100 G.P	ER 16	0.5 - 10	100	M 16	M10X1P	22	ER16 M	E16 M
SK 40 ER 16 M160 G.P	ER 16	0.5 - 10	160	M 16	M10X1P	22	ER16 M	E16 M
SK 40 ER 20 M100 G.P	ER 20	1.0 - 13	100	M 16	M10X1P	28	ER20 M	E20 M
SK 40 ER 20 M160 G.P	ER 20	1.0 - 13	160	M 16	M10X1P	28	ER20 M	E20 M
SK 40 ER 25 M070 G.P	ER 25	1.0 - 16	70	M 16	M18X1P	35	ER25 M	E25 M
SK 40 ER 25 M100 G.P	ER 25	1.0 - 16	100	M 16	M18X1P	35	ER25 M	E25 M
SK 40 ER 25 M160 G.P	ER 25	1.0 - 16	160	M 16	M18X1P	35	ER25 M	E25 M

Ordering Example :- SK40 ER25 M160G.P - 2 Nos.

SHORT G.P ER COLLET CHUCK DIN 6499 TYPE (ER-A)



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL taper 0.005mm

Balancing GRADE:- G6.3 /15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Suitable for Collet	Collet Clamping Capacity	L	D1	D2	Spanner Designation
SK40 ER 32A 024G.P	ER 32	2.0 - 20	24	M 16	40	ER32A
SK50 ER 32A 024G.P	ER 32	2.0 - 20	24	M 24	40	ER32A

Ordering Example :- SK40 ER32A 024G.P - 2 Nos.

SIDE LOCK ADAPTOR FOR PARALLEL SHANK TOOLS (AD / JD)

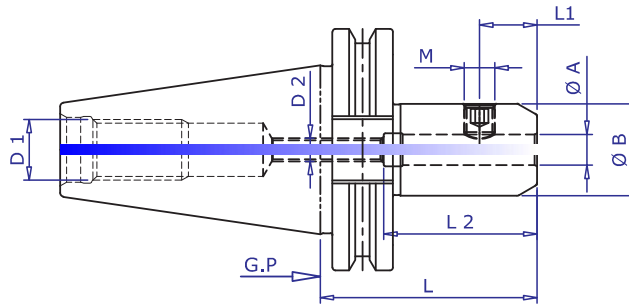


FIG-1

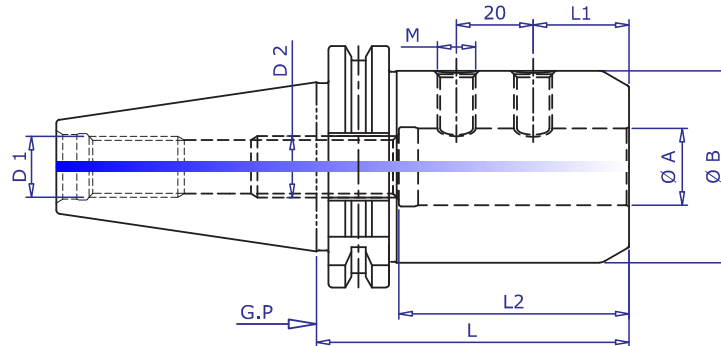


FIG-2

Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

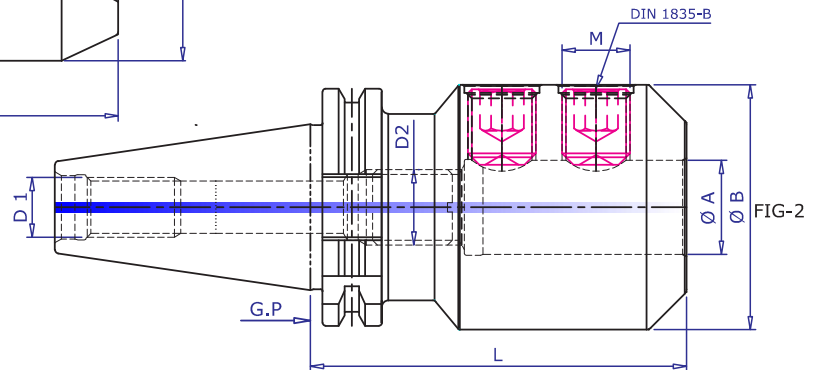
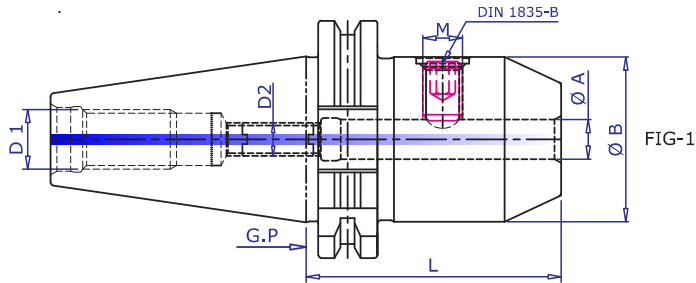
Balancing GRADE:- G6.3 /15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Tool Shank	Ø A H5	L	Ø B	L1	L2	D1	D2	M	FIG
SK 30 SLA 06 065 G.P	SK 30	6	65	20	15	35	M12	M5	M6	1
SK 30 SLA 08 065 G.P	SK 30	8	65	24	15	40	M12	M6	M8	1
SK 30 SLA 10 065 G.P	SK 30	10	65	30	16	44	M12	M8	M10	1
SK 30 SLA 12 065 G.P	SK 30	12	65	35	20	44	M12	M10	M10	1
SK 30 SLA 16 065 G.P	SK 30	16	65	40	23	52	M12	M12	M10	1
SK 30 SLA 20 090 G.P	SK 30	20	90	50	25	70	M12	M12	M10	2
SK 30 SLA 25 090 G.P	SK 30	25	90	50	25	70	M12	M12	M10	2
SK 40 SLA 06 065 G.P	SK40	6	65	20	15	35	M16	M5	M6	1
SK 40 SLA 08 065 G.P	SK40	8	65	24	15	40	M16	M6	M8	1
SK 40 SLA 10 065 G.P	SK40	10	65	30	16	44	M16	M8	M10	1
SK 40 SLA 12 065 G.P	SK40	12	65	35	20	44	M16	M10	M10	1
SK 40 SLA 16 065 G.P	SK40	16	65	40	23	52	M16	M12	M10	1
SK 40 SLA 20 090 G.P	SK40	20	90	50	25	70	M16	M12	M10	2
SK 40 SLA 25 090 G.P	SK40	25	90	50	25	70	M16	M12	M10	2
SK 40 SLA 32 090 G.P	SK40	32	90	60	30	70	M16	M12	M10	2
SK 40 SLA 40 090 G.P	SK40	40	90	60	30	70	M16	M12	M10	2
SK 50 SLA 06 075 G.P	SK50	6	75	20	15	35	M24	M5	M6	1
SK 50 SLA 08 075 G.P	SK50	8	75	24	15	40	M24	M6	M8	1
SK 50 SLA 10 075 G.P	SK50	10	75	30	16	44	M24	M8	M10	1
SK 50 SLA 12 075 G.P	SK50	12	75	35	20	44	M24	M10	M10	1
SK 50 SLA 16 075 G.P	SK50	16	75	40	23	52	M24	M12	M10	1
SK 50 SLA 20 105 G.P	SK50	20	105	50	25	70	M24	M12	M10	2
SK 50 SLA 25 105 G.P	SK50	25	105	50	25	70	M24	M12	M10	2
SK 50 SLA 32 105 G.P	SK50	32	105	60	30	70	M24	M12	M10	2
SK 50 SLA 40 105 G.P	SK50	40	105	60	30	70	M24	M12	M10	2
SK 50 SLA 40 150 G.P	SK50	40	150	60	30	70	M24	M12	M10	2
SK 50 SLA 50 075 G.P	SK50	50	75	90	40	70	M24	M12	M12	2
SK 50 SLA 50 105 G.P	SK50	50	105	90	40	70	M24	M12	M12	2
SK 50 SLA 50 150 G.P	SK50	50	150	90	40	70	M24	M12	M12	2

Ordering Example :- SK40 SLA25 090G.P - 2 Nos.

WELDON TYPE END MILL ADAPTOR (WE) (DIN 1835-B) AD/JD)



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

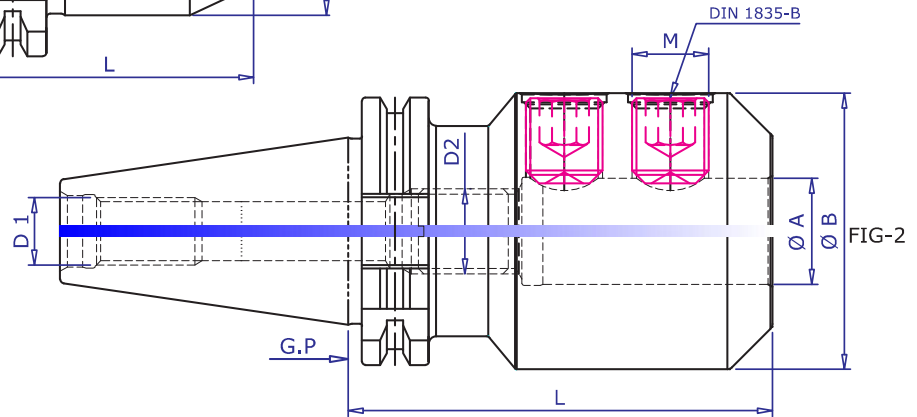
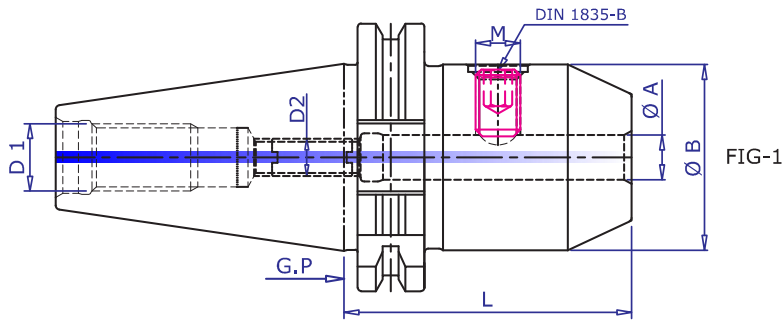
Balancing GRADE:- G6.3 /15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Tool Shank	Ø A H5	L	Ø B	M	D1	D2	FIG
SK 30 WE 06 045 G.P	SK 30	6	45	25	M6	M12	M5	1
SK 30 WE 08 045 G.P	SK 30	8	45	28	M8	M12	M6	1
SK 30 WE 10 050 G.P	SK 30	10	50	35	M10	M12	M8	1
SK 30 WE 12 050 G.P	SK 30	12	50	42	M12	M12	M10	1
SK 30 WE 16 063 G.P	SK 30	16	63	48	M14	M12	M12	1
SK 30 WE 20 063 G.P	SK 30	20	63	52	M16	M12	M16	1
SK 40 WE 06 050 G.P	SK 40	6	50	25	M6	M16	M5	1
SK 40 WE 06 100 G.P	SK 40	6	100	25	M6	M16	M5	1
SK 40 WE 06 160 G.P	SK 40	6	160	25	M6	M16	M5	1
SK 40 WE 08 050 G.P	SK 40	8	50	28	M8	M16	M6	1
SK 40 WE 08 100 G.P	SK 40	8	100	28	M8	M16	M6	1
SK 40 WE 08 160 G.P	SK 40	8	160	28	M8	M16	M6	1
SK 40 WE 10 050 G.P	SK 40	10	50	35	M10	M16	M8	1
SK 40 WE 10 100 G.P	SK 40	10	100	35	M10	M16	M8	1
SK 40 WE 10 160 G.P	SK 40	10	160	35	M10	M16	M8	1
SK 40 WE 12 050 G.P	SK 40	12	50	42	M12	M16	M10	1
SK 40 WE 12 100 G.P	SK 40	12	100	42	M12	M16	M10	1
SK 40 WE 12 160 G.P	SK 40	12	160	42	M12	M16	M10	1
SK 40 WE 14 050 G.P	SK 40	14	50	44	M12	M16	M10	1
SK 40 WE 14 100 G.P	SK 40	14	100	44	M12	M16	M10	1
SK 40 WE 14 160 G.P	SK 40	14	160	44	M12	M16	M10	1
SK 40 WE 16 063 G.P	SK 40	16	63	48	M14	M16	M12	1
SK 40 WE 16 100 G.P	SK 40	16	100	48	M14	M16	M12	1
SK 40 WE 16 160 G.P	SK 40	16	160	48	M14	M16	M12	1
SK 40 WE 18 063 G.P	SK 40	18	63	50	M14	M16	M12	1
SK 40 WE 18 100 G.P	SK 40	18	100	50	M14	M16	M12	1
SK 40 WE 18 160 G.P	SK 40	18	160	50	M14	M16	M12	1
SK 40 WE 20 063 G.P	SK 40	20	63	52	M16	M16	M16	1
SK 40 WE 20 100 G.P	SK 40	20	100	52	M16	M16	M16	1
SK 40 WE 20 160 G.P	SK 40	20	160	52	M16	M16	M16	1
SK 40 WE 25 100 G.P	SK 40	25	100	65	M18 X 2	M16	M20	2
SK 40 WE 25 160 G.P	SK 40	25	160	65	M18 X 2	M16	M20	2
SK 40 WE 32 100 G.P	SK 40	32	100	72	M20 X 2	M16	M20	2
SK 40 WE 32 160 G.P	SK 40	32	160	72	M20 X 2	M16	M20	2
SK 40 WE 40 115 G.P	SK 40	40	115	80	M20 X 2	M16	M20	2
SK 40 WE 40 160 G.P	SK 40	40	160	80	M20 X 2	M16	M20	2

Ordering Example :- SK40 WN25 0100 G.P - 2 Nos.

WELDON TYPE END MILL ADAPTOR (WE) (DIN 1835-B) AD/JD)



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

Balancing GRADE:- G6.3 /15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Tool Shank	Ø A H5	L	Ø B	M	D1	D2	FIG
SK 50 WE 06 050 G.P	SK 50	6	50	25	M6	M24	M5	1
SK 50 WE 06 100 G.P	SK 50	6	100	25	M6	M24	M5	1
SK 50 WE 06 160 G.P	SK 50	6	160	25	M6	M24	M5	1
SK 50 WE 08 050 G.P	SK 50	8	50	28	M8	M24	M6	1
SK 50 WE 08 100 G.P	SK 50	8	100	28	M8	M24	M6	1
SK 50 WE 08 160 G.P	SK 50	8	160	28	M8	M24	M6	1
SK 50 WE 10 063 G.P	SK 50	10	63	35	M10	M24	M8	1
SK 50 WE 10 100 G.P	SK 50	10	100	35	M10	M24	M8	1
SK 50 WE 10160 G.P	SK 50	10	160	35	M10	M24	M8	1
SK 50 WE 12 063 G.P	SK 50	12	63	42	M12	M24	M10	1
SK 50 WE 12 100 G.P	SK 50	12	100	42	M12	M24	M10	1
SK 50 WE 12 160 G.P	SK 50	12	160	42	M12	M24	M10	1
SK 50 WE 14 063 G.P	SK 50	14	63	44	M12	M24	M10	1
SK 50 WE 14 100 G.P	SK 50	14	100	44	M12	M24	M10	1
SK 50 WE 14 160 G.P	SK 50	14	160	44	M12	M24	M10	1
SK 50 WE 16 063 G.P	SK 50	16	63	48	M14	M24	M12	1
SK 50 WE 16 100 G.P	SK 50	16	100	48	M14	M24	M12	1
SK 50 WE 16 160 G.P	SK 50	16	160	48	M14	M24	M12	1
SK 50 WE 18 063 G.P	SK 50	18	63	50	M14	M24	M12	1
SK 50 WE 18 100 G.P	SK 50	18	100	50	M14	M24	M12	1
SK 50 WE 18 160 G.P	SK 50	18	160	50	M14	M24	M12	1
SK 50 WE 20 063 G.P	SK 50	20	63	52	M16	M24	M16	1
SK 50 WE 20 100 G.P	SK 50	20	100	52	M16	M24	M16	1
SK 50 WE 20 160 G.P	SK 50	20	160	52	M16	M24	M16	1
SK 50 WE 25 080 G.P	SK 50	25	80	65	M18 X 2	M24	M20	2
SK 50 WE 25 100 G.P	SK 50	25	100	65	M18 X 2	M24	M20	2
SK 50 WE 25 160 G.P	SK 50	25	160	65	M18 X 2	M24	M20	2
SK 50 WE 32100 G.P	SK 50	32	100	72	M20 X 2	M24	M20	2
SK 50 WE 32 160 G.P	SK 50	32	160	72	M20 X 2	M24	M20	2
SK 50 WE 40 120 G.P	SK 50	40	120	80	M20 X 2	M24	M20	2
SK 50 WE 40 160 G.P	SK 50	40	160	80	M20 X 2	M24	M20	2
SK 50 WE 50 120 G.P	SK 50	50	120	100	M24 X2	M24	M20	2

Ordering Example :- SK40 WN25 0100 G.P - 2 Nos.

WELDON TYPE END MILL ADAPTOR (WN) (DIN 1835-E) AD/JD)

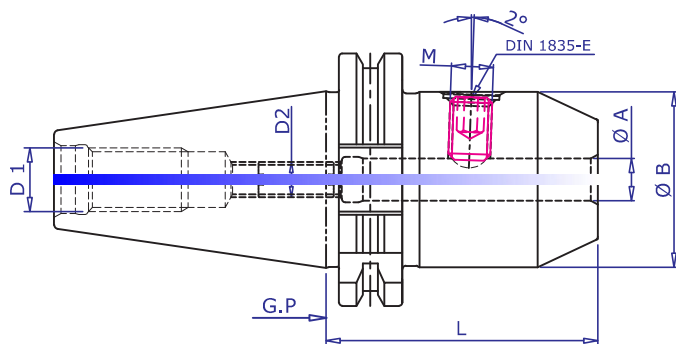


FIG-1

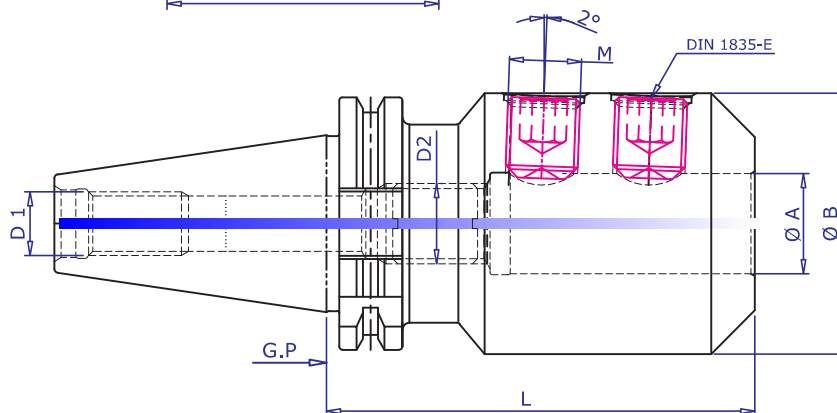


FIG-2

Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL dia 0.005mm

Balancing GRADE:- G6.3 /15,000 rev./min STD.

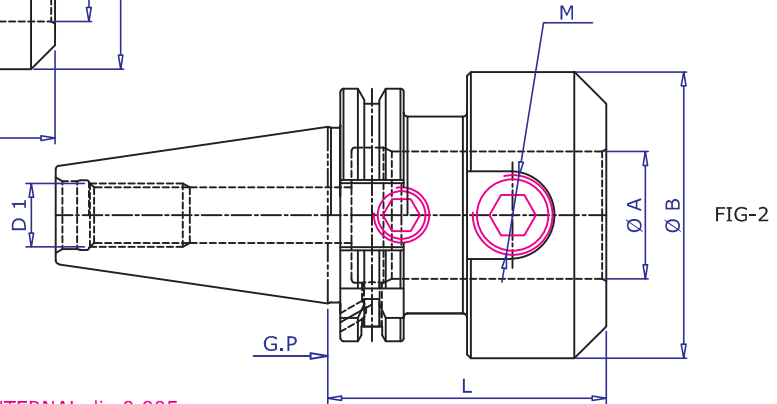
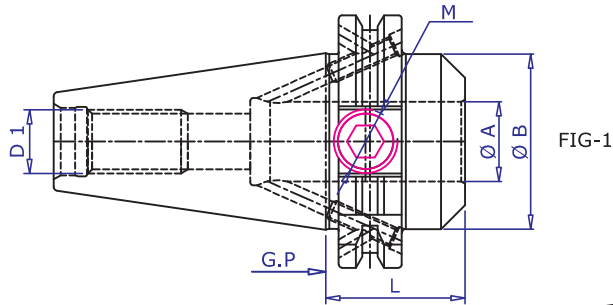
Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Tool Shank	Ø A H5	L	Ø B	M	D1	D2	FIG
SK 40 WN 06 050 G.P	SK 40	6	50	25	M6	M16	M5	1
SK 40 WN 08 050 G.P	SK 40	8	50	28	M8	M16	M6	1
SK 40 WN 10 050 G.P	SK 40	10	50	35	M10	M16	M8	1
SK 40 WN 12 050 G.P	SK 40	12	50	42	M12	M16	M10	1
SK 40 WN 14 050 G.P	SK 40	14	50	44	M12	M16	M10	1
SK 40 WN 16 063 G.P	SK 40	16	63	48	M14	M16	M12	1
SK 40 WN 18 063 G.P	SK 40	18	63	50	M14	M16	M12	1
SK 40 WN 20 063 G.P	SK 40	20	63	52	M16	M16	M16	1
SK 40 WN 25 100 G.P	SK 40	25	100	65	M18 X 2	M16	M20	2
SK 40 WN 32 100 G.P	SK 40	32	100	72	M20 X 2	M16	M20	2
SK 40 WN 40 120 G.P	SK 40	40	120	80	M20 X 2	M16	M20	2
SK 50 WN 06 063 G.P	SK 50	6	63	25	M6	M24	M5	1
SK 50 WN 08 063 G.P	SK 50	8	63	28	M8	M24	M6	1
SK 50 WN 10 063 G.P	SK 50	10	63	35	M10	M24	M8	1
SK 50 WN 12 063 G.P	SK 50	12	63	42	M12	M24	M10	1
SK 50 WN 14 063 G.P	SK 50	14	63	44	M12	M24	M10	1
SK 50 WN 16 063 G.P	SK 50	16	63	48	M14	M24	M12	1
SK 50 WN 18 063 G.P	SK 50	18	63	50	M14	M24	M12	1
SK 50 WN 20 063 G.P	SK 50	20	63	52	M16	M24	M16	1
SK 50 WN 25 080 G.P	SK 50	25	80	65	M18 X 2	M24	M20	2
SK 50 WN 32 085 G.P	SK 50	32	85	72	M20 X 2	M24	M20	2
SK 50 WN 32 100 G.P	SK 50	32	100	72	M20 X 2	M24	M20	2
SK 50 WN 40 095 G.P	SK 50	40	95	80	M20 X 2	M24	M20	2
SK 50 WN 40 120 G.P	SK 50	40	120	80	M20 X 2	M24	M20	2
SK 50 WN 50 120 G.P	SK 50	50	120	100	M24 X 2	M24	M20	2

Ordering Example :- SK40 WN25 0100 G.P - 2 Nos.

WELDON TYPE END MILL ADAPTOR (WE) (DIN 1835-B) AD/JD)

(Short Series)



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL dia 0.005mm

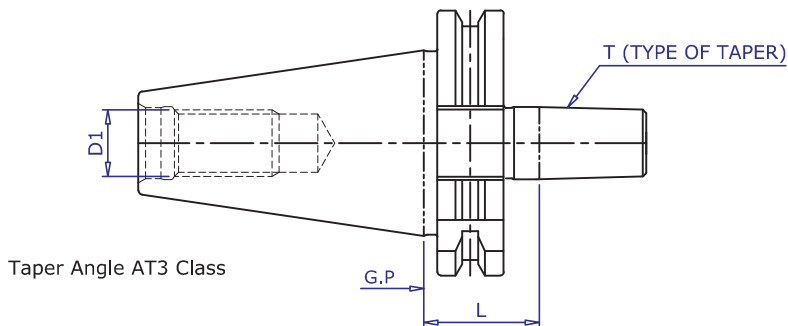
Balancing GRADE:- G6.3 /15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Tool Shank	ØA H5	L	Ø B	M	D1	FIG
SK 40 WE16 035 AD+B	SK 40	16	35	48	M14	M16	1
SK 40 WE20 035 AD+B	SK 40	20	35	44	M14	M16	1
SK 40 WE25 035 AD+B	SK 40	25	35	44	M14	M16	1
SK 40 WE25 060 AD+B	SK 40	25	60	49	M14 / M18	M16	2
SK 40 WE32 070 AD+B	SK 40	32	70	72	M14 / M20	M16	2
SK 50 WE16 035 AD+B	SK 50	16	35	70	M14	M24	1
SK 50 WE20 035 AD+B	SK 50	20	35	69.5	M16	M24	1
SK 50 WE25 035 AD+B	SK 50	25	35	69.5	M18	M24	1
SK 50 WE32 035 AD+B	SK 50	32	35	79.5	M20	M24	1

Ordering Example :- SK40 WN16 035 AD+B - 2 Nos.

ADAPTOR FOR DRILL CHUCKS (JACOBS/DIN 238) A



Taper Angle AT3 Class

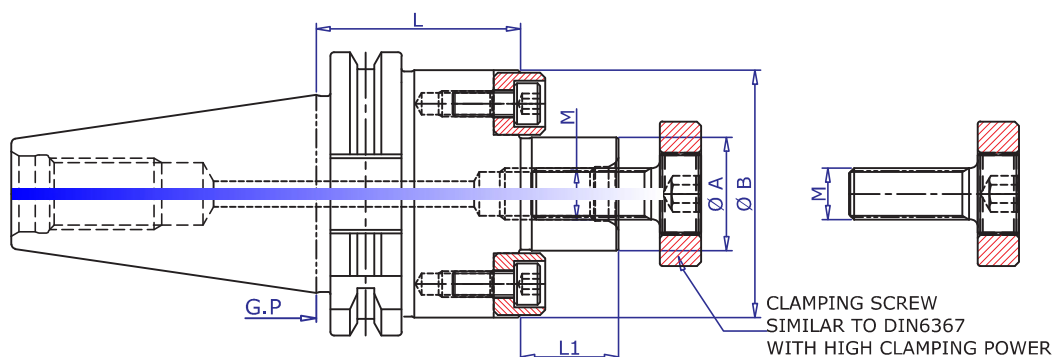
Concentricity of MOUNTING taper is within 0.005mm.

Item Description	Tool Shank	D1	T	L
SK 40 J6	SK 40	M16	J6	27.50
SK 40 B12	SK 40	M16	B12	27.50
SK 40 B16	SK 40	M16	B16	27.50
SK 50 J6	SK 50	M24	J6	27.50
SK 50 B12	SK 50	M24	B12	27.50
SK 50 B16	SK 50	M24	B16	27.50

Ordering Example :- SK40 B12 - 2 Nos.

FACE MILL HOLDER TENNON DRIVER DIN 6357 (FMH) (AD / JD)

FACE MILL HOLDER TENNON DRIVER + DIN 2079* (FMH)



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to LOCATING Ø 0.005mm

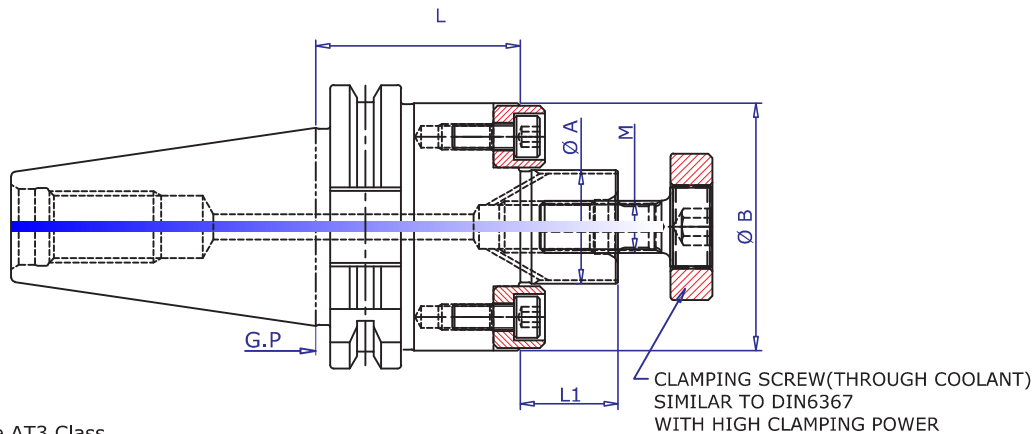
Balancing GRADE:- G6.3 /15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Tool Shank	Ø A h6	L	L1	Ø B	M	TENON
SK 30 FMH 16 040 G.P	SK 30	16	40	17	38	M8	8
SK 30 FMH 22 040 G.P	SK 30	22	40	19	48	M10	10
SK 30 FMH 27 040 G.P	SK 30	27	40	21	58	M12	12
SK40 FMH 16 045 G.P	SK 40	16	45	17	38	M8	8
SK 40 FMH 16 100 G.P	SK 40	16	100	17	38	M8	8
SK 40 FMH 16 160 G.P	SK 40	16	160	17	38	M8	8
SK 40 FMH 22 045 G.P	SK 40	22	45	19	48	M10	10
SK 40 FMH 22 100 G.P	SK 40	22	100	19	48	M10	10
SK 40 FMH 22 160 G.P	SK 40	22	160	19	48	M10	10
SK 40 FMH 27 050 G.P	SK 40	27	50	21	58	M12	12
SK 40 FMH 27 100 G.P	SK 40	27	100	21	58	M12	12
SK 40 FMH 27 160 G.P	SK 40	27	160	21	58	M12	12
SK 40 FMH 32 055 G.P	SK 40	32	55	24	78	M16	14
SK 40 FMH 32 100 G.P	SK 40	32	100	24	78	M16	14
SK 40 FMH 32 160 G.P	SK 40	32	160	24	78	M16	14
SK 40 FMH 40 055 G.P	SK 40	40	55	27	88	M20	16
SK 40 FMH 40 100 G.P	SK 40	40	100	27	88	M20	16
SK 40 FMH 40 160 G.P	SK 40	40	160	27	88	M20	16
SK 40 FMH 40 055 G.P WITH PCD HOLE *	SK 40	40	55	27	88	M20	16
SK 40 FMH 40 100 G.P WITH PCD HOLE *	SK 40	40	100	27	88	M20	16
SK 40 FMH 40 160 G.P WITH PCD HOLE *	SK 40	40	160	27	88	M20	16
SK 50 FMH 16 055 G.P	SK 50	16	55	17	38	M8	8
SK 50 FMH 16 100 G.P	SK 50	16	100	17	38	M8	8
SK 50 FMH 16 160 G.P	SK 50	16	160	17	38	M8	8
SK 50 FMH 22 055 G.P	SK 50	22	55	19	48	M10	10
SK 50 FMH 22 100 G.P	SK 50	22	100	19	48	M10	10
SK 50 FMH 22 160 G.P	SK 50	22	160	19	48	M10	10
SK 50 FMH 27 055 G.P	SK 50	27	55	21	58	M12	12
SK 50 FMH 27 100 G.P	SK 50	27	100	21	58	M12	12
SK 50 FMH 27 160 G.P	SK 50	27	160	21	58	M12	12
SK 50 FMH 32 060 G.P	SK 50	32	60	24	78	M16	14
SK 50 FMH 32 100 G.P	SK 50	32	100	24	78	M16	14
SK 50 FMH 32 160 G.P	SK 50	32	160	24	78	M16	14
SK 50 FMH 40 055 G.P	SK 50	40	55	27	88	M20	16
SK 50 FMH 40 100 G.P	SK 50	40	100	27	88	M20	16
SK 50 FMH 40 160 G.P	SK 50	40	160	27	88	M20	16
SK 50 FMH 40 055 G.P WITH PCD HOLE *	SK 50	40	55	27	88	M20	16
SK 50 FMH 40 100 G.P WITH PCD HOLE *	SK 50	40	100	27	88	M20	16
SK 50 FMH 40 160 G.P WITH PCD HOLE *	SK 50	40	160	27	88	M20	16
SK 50 FMH 60 070 G.P WITH PCD HOLE *	SK 50	60	70	40	129	M30	25
SK 50 FMH 60 120 G.P WITH PCD HOLE *	SK 50	60	120	40	129	M30	25

Ordering Example :- SK40 FMH27 045 G.P - 2 Nos.

FACE MILL HOLDER TENON DRIVER (THROUGH COOLANT) DIN 6357 (FMH-K) FACE MILL HOLDER TENNON DRIVER + DIN 2079* (FMH) (AD / JD)



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to LOCATING Ø 0.005mm

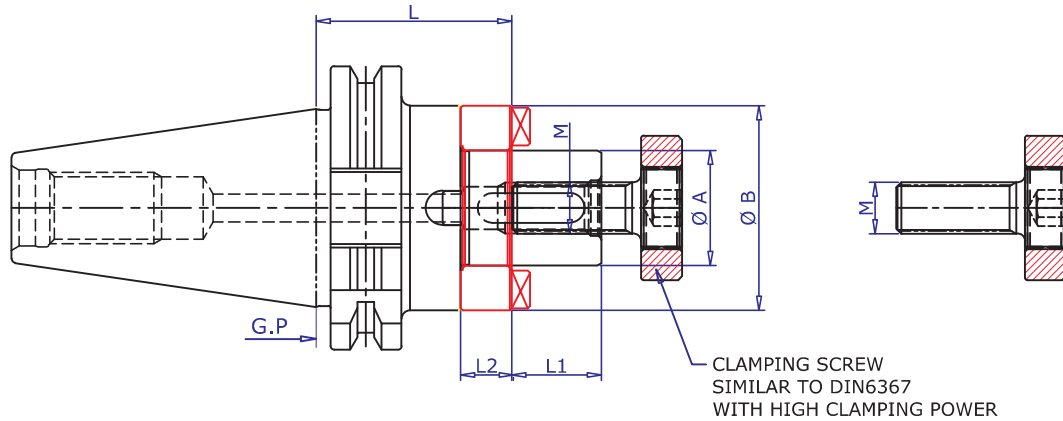
Balancing GRADE:- G6.3 /15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Tool Shank	Ø A h6	L	L1	Ø B	M	TENON
SK 30 FMH-K 16 040 G.P	SK 30	16	40	17	38	M8	8
SK 30 FMH-K 22 040 G.P	SK 30	22	40	19	48	M10	10
SK 30 FMH-K 27 040 G.P	SK 30	27	40	21	58	M12	12
SK40 FMH-K 16 045 G.P	SK 40	16	45	17	38	M8	8
SK 40 FMH-K 16 100 G.P	SK 40	16	100	17	38	M8	8
SK 40 FMH-K 16 160 G.P	SK 40	16	160	17	38	M8	8
SK 40 FMH-K 22 045 G.P	SK 40	22	45	19	48	M10	10
SK 40 FMH-K22 100 G.P	SK 40	22	100	19	48	M10	10
SK 40 FMH-K 22 160 G.P	SK 40	22	160	19	48	M10	10
SK 40 FMH-K 27 045 G.P	SK 40	27	45	21	58	M12	12
SK 40 FMH-K 27 100 G.P	SK 40	27	100	21	58	M12	12
SK 40 FMH-K 27 160 G.P	SK 40	27	160	21	58	M12	12
SK 40 FMH-K 32 050 G.P	SK 40	32	50	24	78	M16	14
SK 40 FMH-K 32 100 G.P	SK 40	32	100	24	78	M16	14
SK 40 FMH-K 32 160 G.P	SK 40	32	160	24	78	M16	14
SK 40 FMH-K 40 055 G.P	SK 40	40	55	27	88	M20	16
SK 40 FMH-K 40 100 G.P	SK 40	40	100	27	88	M20	16
SK 40 FMH-K 40 160 G.P	SK 40	40	160	27	88	M20	16
SK 40 FMH-K 40 055 G.P WITH PCD HOLE *	SK 40	40	55	27	88	M20	16
SK 40 FMH-K 40 100 G.P WITH PCD HOLE *	SK 40	40	100	27	88	M20	16
SK 40 FMH-K 40 160 G.P WITH PCD HOLE *	SK 40	40	160	27	88	M20	16
SK 50 FMH-K 16 055 G.P	SK 50	16	55	17	38	M8	8
SK 50 FMH-K 16 100 G.P	SK 50	16	100	17	38	M8	8
SK 50 FMH-K 16 160 G.P	SK 50	16	160	17	38	M8	8
SK 50 FMH-K 22 055 G.P	SK 50	22	55	19	48	M10	10
SK 50 FMH-K 22 100 G.P	SK 50	22	100	19	48	M10	10
SK 50 FMH-K 22 160 G.P	SK 50	22	160	19	48	M10	10
SK 50 FMH-K 27 055 G.P	SK 50	27	55	21	58	M12	12
SK 50 FMH-K 27 100 G.P	SK 50	27	100	21	58	M12	12
SK 50 FMH-K 27 160 G.P	SK 50	27	160	21	58	M12	12
SK 50 FMH-K 32 060 G.P	SK 50	32	60	24	78	M16	14
SK 50 FMH-K 32 100 G.P	SK 50	32	100	24	78	M16	14
SK 50 FMH-K 32 160 G.P	SK 50	32	160	24	78	M16	14
SK 50 FMH-K 40 055 G.P	SK 50	40	55	27	88	M20	16
SK 50 FMH-K 40 100 G.P	SK 50	40	100	27	88	M20	16
SK 50 FMH-K 40 160 G.P	SK 50	40	160	27	88	M20	16
SK 50 FMH-K 40 055 G.P WITH PCD HOLE *	SK 50	40	55	27	88	M20	16
SK 50 FMH-K 40 100 G.P WITH PCD HOLE *	SK 50	40	100	27	88	M20	16
SK 50 FMH-K 40 160 G.P WITH PCD HOLE *	SK 50	40	160	27	88	M20	16
SK 50 FMH-K 60 070 G.P WITH PCD HOLE *	SK 50	60	70	40	129	M30	25

Ordering Example :- SK40 FMH-K27 045 G.P - 2 Nos.

COMBY SHELL MILL ADAPTOR DIN 6358 (CSMA) (AD / JD)



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to LOCATING Ø 0.005mm

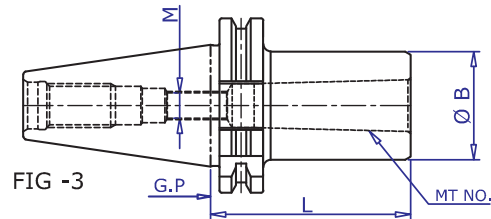
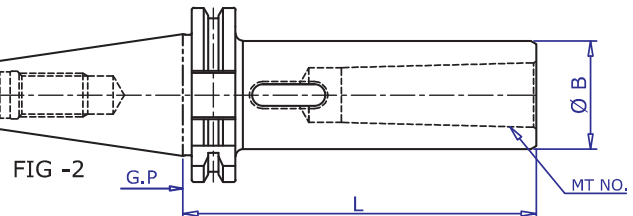
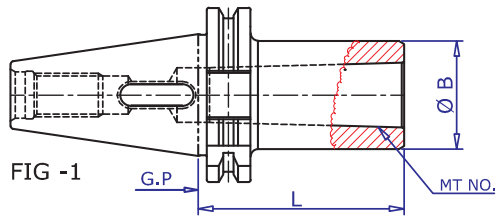
Balancing GRADE:- G6.3 /15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Tool Shank	Ø A h6	L	L1	L2	Ø B	M	KEY W x L
SK 30 CSMA 16 050 G.P	SK 30	16	50	17	10	32	M8	4 x 20
SK 30 CSMA 22 050 G.P	SK 30	22	50	19	12	40	M10	6 x 25
SK 30 CSMA 27 055 G.P	SK 30	27	55	21	12	48	M12	7 x 25
SK 40 CSMA 16 055 G.P	SK 40	16	55	17	10	32	M8	4 x 20
SK 40 CSMA 16 100 G.P	SK 40	16	100	17	10	32	M8	4 x 20
SK 40 CSMA 16 160 G.P	SK 40	16	160	17	10	32	M8	4 x 20
SK 40 CSMA 22 055 G.P	SK 40	22	55	19	12	40	M10	6 x 25
SK 40 CSMA 22 100 G.P	SK 40	22	100	19	12	40	M10	6 x 25
SK 40 CSMA 22 160 G.P	SK 40	22	160	19	12	40	M10	6 x 25
SK 40 CSMA 27 055 G.P	SK 40	27	55	21	12	48	M12	7 x 25
SK 40 CSMA 27 100 G.P	SK 40	27	100	21	12	48	M12	7 x 25
SK 40 CSMA 27 160 G.P	SK 40	27	160	21	12	48	M12	7 x 25
SK 40 CSMA 32 060 G.P	SK 40	32	60	24	14	58	M16	8 x 30
SK 40 CSMA 32 100 G.P	SK 40	32	100	24	14	58	M16	8 x 30
SK 40 CSMA 32 160 G.P	SK 40	32	160	24	14	58	M16	8 x 30
SK 40 CSMA 40 060 G.P	SK 40	40	60	27	14	70	M20	10 x 30
SK 40 CSMA 40 100 G.P	SK 40	40	100	27	14	70	M20	10 x 30
SK 40 CSMA 40 160 G.P	SK 40	40	160	27	14	70	M20	10 x 30
SK 50 CSMA 16 065 G.P	SK50	16	65	17	10	32	M8	4 x 20
SK 50 CSMA 16 100 G.P	SK50	16	100	17	10	32	M8	4 x 20
SK 50 CSMA 16 160 G.P	SK50	16	160	17	10	32	M8	4 x 20
SK 50 CSMA 22 065 G.P	SK50	22	65	19	12	40	M10	6 x 25
SK 50 CSMA 22 100 G.P	SK50	22	100	19	12	40	M10	6 x 25
SK 50 CSMA 22 160 G.P	SK50	22	160	19	12	40	M10	6 x 25
SK 50 CSMA 27 065 G.P	SK50	27	65	21	12	48	M12	7 x 25
SK 50 CSMA 27 100 G.P	SK50	27	100	21	12	48	M12	7 x 25
SK50 CSMA 27 160 G.P	SK50	27	160	21	12	48	M12	7 x 25
SK 50 CSMA 32 080 G.P	SK50	32	80	24	14	58	M16	8 x 30
SK 50 CSMA 32 100 G.P	SK50	32	100	24	14	58	M16	8 x 30
SK 50 CSMA 32 160 G.P	SK50	32	160	24	14	58	M16	8 x 30
SK 50 CSMA 40 080 G.P	SK50	40	80	27	14	70	M20	10 x 30
SK50 CSMA 40 100 G.P	SK50	40	100	27	14	70	M20	10 x 30
SK 50 CSMA 40 160 G.P	SK50	40	160	27	14	70	M20	10 x 30

Ordering Example :- SK40 CSMA27 055 G.P - 2 Nos.

MORSE TAPER ADAPTOR SHANK (TANGED) DIN 228-2 FORM B



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL taper 0.005mm

Balancing GRADE:- G6.3 /15,000 rev./min STD.

Item Description	Tool Shank	MT. NO.	L	Ø B	FIG
SK 30 MTA 01 050 G.P	SK 30	MT-1	50	25	1
SK 30 MTA 01 110 G.P	SK 30	MT-1	110	25	1
SK 30 MTA 02 060 G.P	SK 30	MT-2	60	32	1
SK 30 MTA 02 120 G.P	SK 30	MT-2	120	32	2
SK30 MTA 03 075 G.P	SK 30	MT-3	75	40	1
SK 30 MTA 03 140 G.P	SK 30	MT-3	140	40	2
SK 40 MTA 01 050 G.P	SK 40	MT-1	50	25	1
SK 40 MTA 01 115 G.P	SK40	MT-1	115	25	1
SK 40 MTA 02 050 G.P	SK40	MT-2	50	32	1
SK 40 MTA 02 125 G.P	SK40	MT-2	125	32	2
SK 40 MTA 03 070 G.P	SK40	MT-3	70	40	1
SK 40 MTA 03 140 G.P	SK40	MT-3	140	40	2
SK 40 MTA 04 095 G.P	SK40	MT-4	95	48	1
SK 50 MTA 01 050 G.P	SK50	MT-1	50	25	1
SK 50 MTA 01 120 G.P	SK 50	MT-1	120	25	2
SK 50 MTA 02 060 G.P	SK 50	MT-2	60	32	1
SK 50 MTA 02 140 G.P	SK 50	MT-2	140	32	2
SK 50 MTA 03 065 G.P	SK 50	MT-3	65	40	1
SK 50 MTA 03 150 G.P	SK 50	MT-3	150	40	2
SK 50 MTA 04 095 G.P	SK 50	MT-4	95	48	1
SK 50 MTA 04 180 G.P	SK 50	MT-4	180	48	2
SK 50 MTA 05 120 G.P	SK 50	MT-5	120	63	1
SK 50 MTA 05 220 G.P	SK 50	MT-5	220	163	1

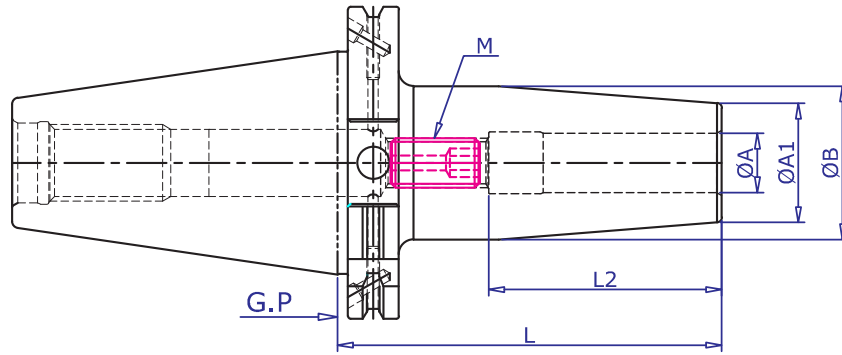
Ordering Example :- SK MTA 2 050 G.P - 2 Nos.

HOLDER WITH MORSE TAPER SHANK (THREADED END)

Item Description	Tool Shank	MT. NO.	M	L	B Ø	FIG
SK 40 MTA 02 050 G.P	SK 40	MT-2	M 10	50	32	3
SK 50 MTA 02 060 G.P	SK 50	MT-2	M 10	60	32	3
SK 50 MTA 03 065 G.P	SK 50	MT-3	M 12	65	40	3
SK 50 MTA 04 095 G.P	SK 50	MT-4	M 16	95	48	3

Ordering Example :- SK40 MTA 02 050 G.P - 2 Nos.

SHRINK FIT ADAPTOR (AD+B / JD/JF)



Taper Angle AT3 Class

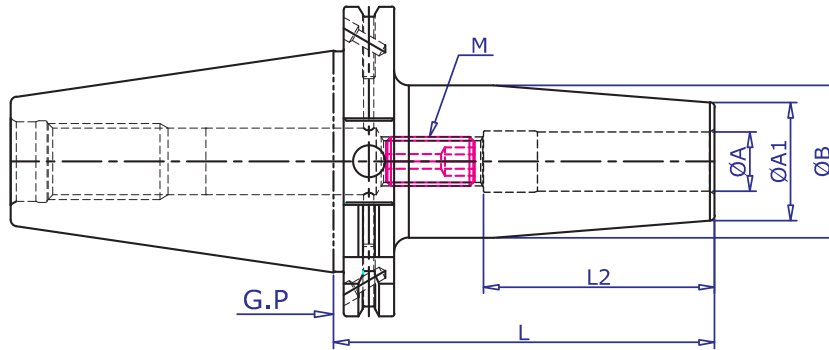
Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Tool Shank	Ø A	Ø A1	Ø B	L	L2	M
SK40 SFA06 080 AD+B	SK 40	6	21	27	80	36	M5
SK40 SFA06 120 AD+B	SK 40	6	21	27	120	36	M5
SK40 SFA06 160 AD+B	SK 40	6	21	27	160	36	M5
SK40 SFA08 080 AD+B	SK 40	8	21	27	80	36	M6
SK40 SFA08 120 AD+B	SK 40	8	21	27	120	36	M6
SK40 SFA08 160 AD+B	SK 40	8	21	27	160	36	M6
SK40 SFA10 080 AD+B	SK 40	10	24	32	80	42	M8
SK40 SFA10 120 AD+B	SK 40	10	24	32	120	42	M8
SK40 SFA10 160 AD+B	SK 40	10	24	32	160	42	M8
SK40 SFA12 080 AD+B	SK 40	12	24	32	80	47	M10
SK40 SFA12 120 AD+B	SK 40	12	24	32	120	47	M10
SK40 SFA12 160 AD+B	SK 40	12	24	32	160	47	M10
SK40 SFA14 080 AD+B	SK 40	14	27	34	80	47	M10
SK40 SFA14 120 AD+B	SK 40	14	27	34	120	47	M10
SK40 SFA14 160 AD+B	SK 40	14	27	34	160	47	M10
SK40 SFA16 080 AD+B	SK 40	16	27	34	80	50	M12
SK40 SFA16 120 AD+B	SK 40	16	27	34	120	50	M12
SK40 SFA16 160 AD+B	SK 40	16	27	34	160	50	M12
SK40 SFA18 080 AD+B	SK 40	18	33	42	80	50	M12
SK40 SFA18 120 AD+B	SK 40	18	33	42	120	50	M12
SK40 SFA18 160 AD+B	SK 40	18	33	42	160	50	M12
SK40 SFA20 080 AD+B	SK 40	20	33	42	80	52	M16
SK40 SFA20 120 AD+B	SK 40	20	33	42	120	52	M16
SK40 SFA20 160 AD+B	SK 40	20	33	42	160	52	M16
SK40 SFA25 100 AD+B	SK 40	25	44	53	100	58	M16
SK40 SFA25 120 AD+B	SK 40	25	44	53	120	58	M16
SK40 SFA25 160 AD+B	SK 40	25	44	53	160	58	M16
SK40 SFA32 100 AD+B	SK 40	32	44	53	100	58	M16
SK40 SFA32 120 AD+B	SK 40	32	44	53	120	58	M16
SK40 SFA32 160 AD+B	SK 40	32	44	53	160	58	M16

Ordering Example :- SK40 SFA10 080 AD+B -2 Nos

SHRINK FIT ADAPTOR (AD+B / JD/JF)



Taper Angle AT3 Class

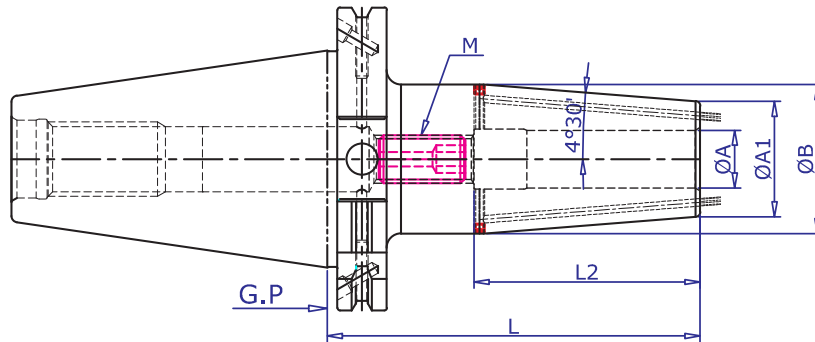
Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Tool Shank	Ø A	Ø A1	Ø B	L	L2	M
SK50 SFA06 080 AD+B	SK 50	6	21	27	80	36	M5
SK50 SFA06 120 AD+B	SK 50	6	21	27	120	36	M5
SK50 SFA06 160 AD+B	SK 50	6	21	27	160	36	M5
SK50 SFA08 080 AD+B	SK 50	8	21	27	80	36	M6
SK50 SFA08 120 AD+B	SK 50	8	21	27	120	36	M6
SK50 SFA08 160 AD+B	SK 50	8	21	27	160	36	M6
SK50 SFA10 080 AD+B	SK 50	10	24	32	80	42	M8
SK50 SFA10 120 AD+B	SK 50	10	24	32	120	42	M8
SK50 SFA10 160 AD+B	SK 50	10	24	32	160	42	M8
SK50 SFA12 080 AD+B	SK 50	12	24	32	80	47	M10
SK50 SFA12 120 AD+B	SK 50	12	24	32	120	47	M10
SK50 SFA12 160 AD+B	SK 50	12	24	32	160	47	M10
SK50 SFA14 080 AD+B	SK 50	14	27	34	80	47	M10
SK50 SFA14 120 AD+B	SK 50	14	27	34	120	47	M10
SK50 SFA14 160 AD+B	SK 50	14	27	34	160	47	M10
SK50 SFA16 080 AD+B	SK 50	16	27	34	80	50	M12
SK50 SFA16 120 AD+B	SK 50	16	27	34	120	50	M12
SK50 SFA16 160 AD+B	SK 50	16	27	34	160	50	M12
SK50 SFA18 080 AD+B	SK 50	18	33	42	80	50	M12
SK50 SFA18 120 AD+B	SK 50	18	33	42	120	50	M12
SK50 SFA18 160 AD+B	SK 50	18	33	42	160	50	M12
SK50 SFA20 080 AD+B	SK 50	20	33	42	80	52	M16
SK50 SFA20 120 AD+B	SK 50	20	33	42	120	52	M16
SK50 SFA20 160 AD+B	SK 50	20	33	42	160	52	M16
SK50 SFA25 100 AD+B	SK 50	25	44	53	100	58	M16
SK50 SFA25 120 AD+B	SK 50	25	44	53	120	58	M16
SK50 SFA25 160 AD+B	SK 50	25	44	53	160	58	M16
SK50 SFA32 100 AD+B	SK 50	32	44	53	100	58	M16
SK50 SFA32 120 AD+B	SK 50	32	44	53	120	58	M16
SK50 SFA32 160 AD+B	SK 50	32	44	53	160	58	M16

Ordering Example :- SK50 SFA10 080 AD+B -2 Nos

SHRINK FIT ADAPTOR (Face Coolant Channel) (SFA FCC) (AD+B / AD/JD)



Taper Angle AT3 Class

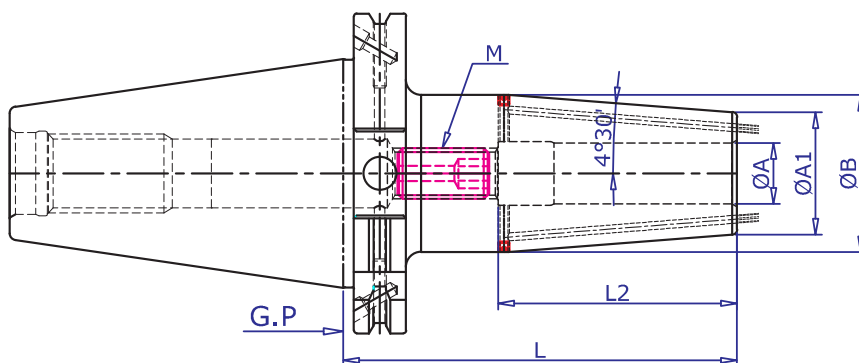
Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Tool Shank	Ø A	Ø A1	Ø B	L	L2	M
SK40 SFA06 080 FCC AD+B	SK 40	6	21	27	80	36	M5
SK40 SFA06 120 FCC AD+B	SK 40	6	21	27	120	36	M5
SK40 SFA06 160 FCC AD+B	SK 40	6	21	27	160	36	M5
SK40 SFA08 080 FCC AD+B	SK 40	8	21	27	80	36	M6
SK40 SFA08 120 FCC AD+B	SK 40	8	21	27	120	36	M6
SK40 SFA08 160 FCC AD+B	SK 40	8	21	27	160	36	M6
SK40 SFA10 080 FCC AD+B	SK 40	10	24	32	80	42	M8
SK40 SFA10 120 FCC AD+B	SK 40	10	24	32	120	42	M8
SK40 SFA10 160 FCC AD+B	SK 40	10	24	32	160	42	M8
SK40 SFA12 080 FCC AD+B	SK 40	12	24	32	80	47	M10
SK40 SFA12 120 FCC AD+B	SK 40	12	24	32	120	47	M10
SK40 SFA12 160 FCC AD+B	SK 40	12	24	32	160	47	M10
SK40 SFA14 080 FCC AD+B	SK 40	14	27	34	80	47	M10
SK40 SFA14 120 FCC AD+B	SK 40	14	27	34	120	47	M10
SK40 SFA14 160 FCC AD+B	SK 40	14	27	34	160	47	M10
SK40 SFA16 080 FCC AD+B	SK 40	16	27	34	80	50	M12
SK40 SFA16 120 FCC AD+B	SK 40	16	27	34	120	50	M12
SK40 SFA16 160 FCC AD+B	SK 40	16	27	34	160	50	M12
SK40 SFA18 080 FCC AD+B	SK 40	18	33	42	80	50	M12
SK40 SFA18 120 FCC AD+B	SK 40	18	33	42	120	50	M12
SK40 SFA18 160 FCC AD+B	SK 40	18	33	42	160	50	M12
SK40 SFA20 080 FCC AD+B	SK 40	20	33	42	80	52	M16
SK40 SFA20 120 FCC AD+B	SK 40	20	33	42	120	52	M16
SK40 SFA20 160 FCC AD+B	SK 40	20	33	42	160	52	M16
SK40 SFA25 100 FCC AD+B	SK 40	25	44	53	100	58	M16
SK40 SFA25 120 FCC AD+B	SK 40	25	44	53	120	58	M16
SK40 SFA25 160 FCC AD+B	SK 40	25	44	53	160	58	M16
SK40 SFA32 100 FCC AD+B	SK 40	32	44	53	100	58	M16
SK40 SFA32 120 FCC AD+B	SK 40	32	44	53	120	58	M16
SK40 SFA32 160 FCC AD+B	SK 40	32	44	53	160	58	M16

Ordering Example :- SK40 SFA10 080 FCC AD+B -2 Nos

SHRINK FIT ADAPTOR (Face Coolant Channel) (SFA FCC) (AD+B / AD/JD)



Taper Angle AT3 Class

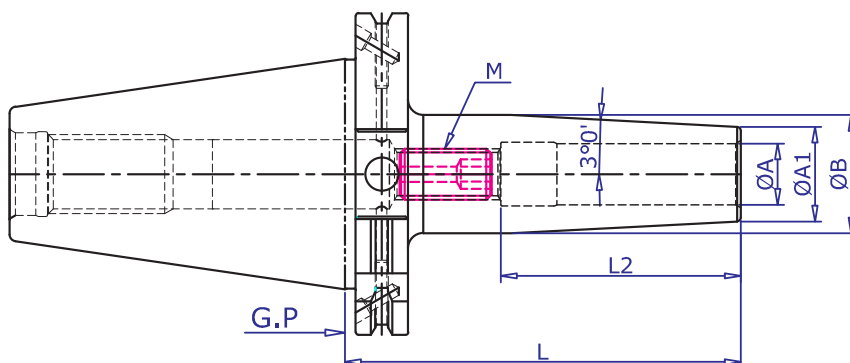
Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Tool Shank	Ø A	Ø A1	Ø B	L	L2	M
SK50 SFA06 080 FCC AD+B	SK 50	6	21	27	80	36	M5
SK50 SFA06 120 FCC AD+B	SK 50	6	21	27	120	36	M5
SK50 SFA06 160 FCC AD+B	SK 50	6	21	27	160	36	M5
SK50 SFA08 080 FCC AD+B	SK 50	8	21	27	80	36	M6
SK50 SFA08 120 FCC AD+B	SK 50	8	21	27	120	36	M6
SK50 SFA08 160 FCC AD+B	SK 50	8	21	27	160	36	M6
SK50 SFA10 080 FCC AD+B	SK 50	10	24	32	80	42	M8
SK50 SFA10 120 FCC AD+B	SK 50	10	24	32	120	42	M8
SK50 SFA10 160 FCC AD+B	SK 50	10	24	32	160	42	M8
SK50 SFA12 080 FCC AD+B	SK 50	12	24	32	80	47	M10
SK50 SFA12 120 FCC AD+B	SK 50	12	24	32	120	47	M10
SK50 SFA12 160 FCC AD+B	SK 50	12	24	32	160	47	M10
SK50 SFA14 080 FCC AD+B	SK 50	14	27	34	80	47	M10
SK50 SFA14 120 FCC AD+B	SK 50	14	27	34	120	47	M10
SK50 SFA14 160 FCC AD+B	SK 50	14	27	34	160	47	M10
SK50 SFA16 080 FCC AD+B	SK 50	16	27	34	80	50	M12
SK50 SFA16 120 FCC AD+B	SK 50	16	27	34	120	50	M12
SK50 SFA16 160 FCC AD+B	SK 50	16	27	34	160	50	M12
SK50 SFA18 080 FCC AD+B	SK 50	18	33	42	80	50	M12
SK50 SFA18 120 FCC AD+B	SK 50	18	33	42	120	50	M12
SK50 SFA18 160 FCC AD+B	SK 50	18	33	42	160	50	M12
SK50 SFA20 080 FCC AD+B	SK 50	20	33	42	80	52	M16
SK50 SFA20 120 FCC AD+B	SK 50	20	33	42	120	52	M16
SK50 SFA20 160 FCC AD+B	SK 50	20	33	42	160	52	M16
SK50 SFA25 100 FCC AD+B	SK 50	25	44	53	100	58	M16
SK50 SFA25 120 FCC AD+B	SK 50	25	44	53	120	58	M16
SK50 SFA25 160 FCC AD+B	SK 50	25	44	53	160	58	M16
SK50 SFA32 100 FCC AD+B	SK 50	32	44	53	100	58	M16
SK50 SFA32 120 FCC AD+B	SK 50	32	44	53	120	58	M16
SK50 SFA32 160 FCC AD+B	SK 50	32	44	53	160	58	M16

Ordering Example :- SK40 SFA10 080 FCC AD+B -2 Nos

SHRINK FIT ADAPTOR (Slim Line) (AD+B) (JD/JF)



Taper Angle AT3 Class

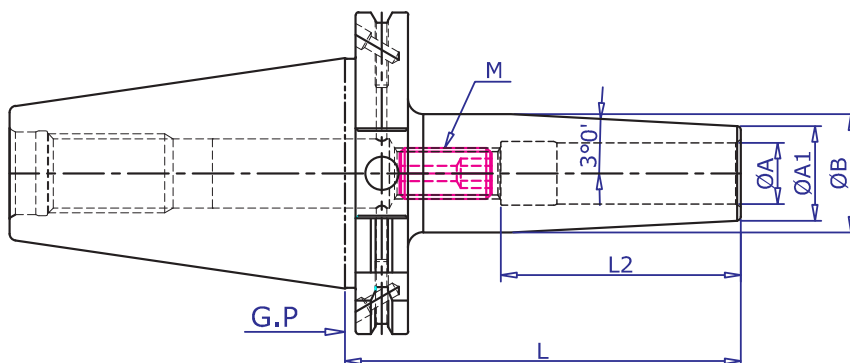
Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Tool Shank	Ø A	Ø A1	Ø B	L	L2	M
SK40 SFA06 080 Slim AD+B	SK 40	6	12	18	80	36	M5
SK40 SFA06 120 Slim AD+B	SK 40	6	12	21	120	36	M5
SK40 SFA06 160 Slim AD+B	SK 40	6	12	25	160	36	M5
SK40 SFA08 080 Slim AD+B	SK 40	8	14	19	80	36	M6
SK40 SFA08 120 Slim AD+B	SK 40	8	14	23	120	36	M6
SK40 SFA08 160 Slim AD+B	SK 40	8	14	27	160	36	M6
SK40 SFA10 080 Slim AD+B	SK 40	10	16	21	80	42	M8
SK40 SFA10 120 Slim AD+B	SK 40	10	16	25	120	42	M8
SK40 SFA10 160 Slim AD+B	SK 40	10	16	29	160	42	M8
SK40 SFA12 080 Slim AD+B	SK 40	12	18	23	80	47	M10
SK40 SFA12 120 Slim AD+B	SK 40	12	18	27	120	47	M10
SK40 SFA12 160 Slim AD+B	SK 40	12	18	31	160	47	M10
SK40 SFA14 080 Slim AD+B	SK 40	14	20	26	80	47	M10
SK40 SFA14 120 Slim AD+B	SK 40	14	20	29	120	47	M10
SK40 SFA14 160 Slim AD+B	SK 40	14	20	32	160	47	M10
SK40 SFA16 080 Slim AD+B	SK 40	16	22	28	80	50	M12
SK40 SFA16 120 Slim AD+B	SK 40	16	22	31	120	50	M12
SK40 SFA16 160 Slim AD+B	SK 40	16	22	34	160	50	M12
SK40 SFA18 080 Slim AD+B	SK 40	18	24	30	80	50	M12
SK40 SFA18 120 Slim AD+B	SK 40	18	24	33	120	50	M12
SK40 SFA18 160 Slim AD+B	SK 40	18	24	36	160	50	M12
SK40 SFA20 080 Slim AD+B	SK 40	20	26	32	80	52	M16
SK40 SFA20 120 Slim AD+B	SK 40	20	26	35	120	52	M16
SK40 SFA20 160 Slim AD+B	SK 40	20	26	38	160	52	M16

Ordering Example :- SK40 SFA10 080 Slim AD+B -2 Nos

SHRINK FIT ADAPTOR (Slim Line) (AD+B) (JD/JF)



Taper Angle AT3 Class

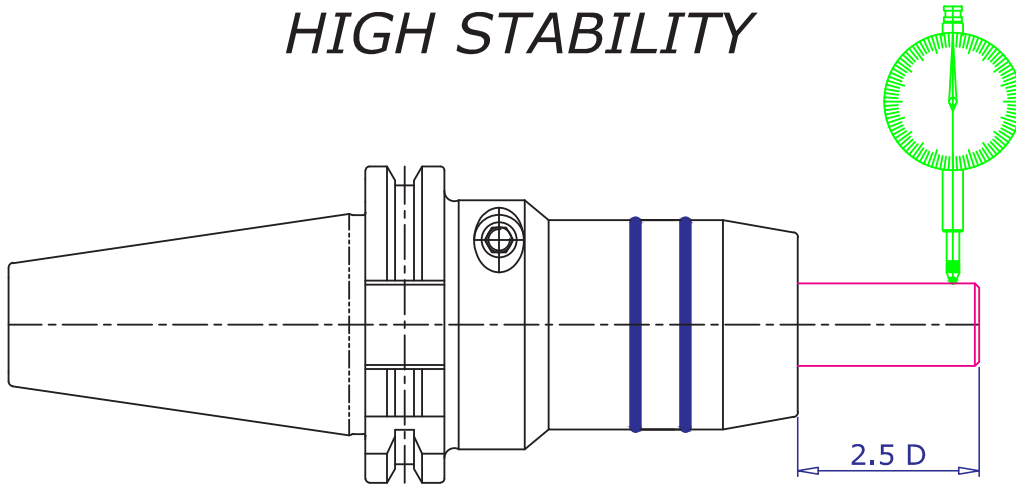
Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Tool Shank	Ø A	Ø A1	Ø B	L	L2	M
SK50 SFA06 080 Slim AD+B	SK 50	6	12	18	80	36	M5
SK50 SFA06 120 Slim AD+B	SK 50	6	12	21	120	36	M5
SK50 SFA06 160 Slim AD+B	SK 50	6	12	25	160	36	M5
SK50 SFA08 080 Slim AD+B	SK 50	8	14	19	80	36	M6
SK50 SFA08 120 Slim AD+B	SK 50	8	14	23	120	36	M6
SK50 SFA08 160 Slim AD+B	SK 50	8	14	27	160	36	M6
SK50 SFA10 080 Slim AD+B	SK 50	10	16	21	80	42	M8
SK50 SFA10 120 Slim AD+B	SK 50	10	16	25	120	42	M8
SK50 SFA10 160 Slim AD+B	SK 50	10	16	29	160	42	M8
SK50 SFA12 080 Slim AD+B	SK 50	12	18	23	80	47	M10
SK50 SFA12 120 Slim AD+B	SK 50	12	18	27	120	47	M10
SK50 SFA12 160 Slim AD+B	SK 50	12	18	31	160	47	M10
SK50 SFA14 080 Slim AD+B	SK 50	14	20	26	80	47	M10
SK50 SFA14 120 Slim AD+B	SK 50	14	20	29	120	47	M10
SK50 SFA14 160 Slim AD+B	SK 50	14	20	32	160	47	M10
SK50 SFA16 080 Slim AD+B	SK 50	16	22	28	80	50	M12
SK50 SFA16 120 Slim AD+B	SK 50	16	22	31	120	50	M12
SK50 SFA16 160 Slim AD+B	SK 50	16	22	34	160	50	M12
SK50 SFA18 080 Slim AD+B	SK 50	18	24	30	80	50	M12
SK50 SFA18 120 Slim AD+B	SK 50	18	24	33	120	50	M12
SK50 SFA18 160 Slim AD+B	SK 50	18	24	36	160	50	M12
SK50 SFA20 080 Slim AD+B	SK 50	20	26	32	80	52	M16
SK50 SFA20 120 Slim AD+B	SK 50	20	26	35	120	52	M16
SK50 SFA20 160 Slim AD+B	SK 50	20	26	38	160	52	M16

Ordering Example :- SK40 SFA16 080 Slim AD+B -2 Nos

HIGH PRECISION HIGH STABILITY



*Permanent run-out and repeat accuracy
of less then
0.003mm (2.5 D)*

●Feature and benefits●

Application

For Milling, Drilling and Reamers Work.

Advanced Hydraulic Clamping.

Tool life improvement up to 50%

Improved roughness of processed products

G2.5 at 20,000 RPM Balance of Quality

Increase productivity with high cutting speed.

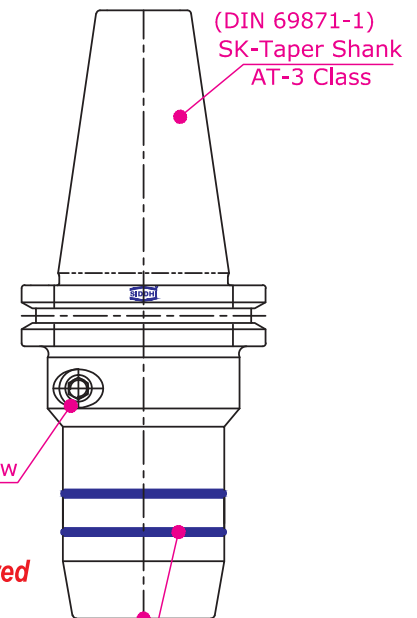
Easy Clamping / Unclamping

Leak-proof clamping system.

Reliable consistent clamping.

No Over torque.

No required torque wrench.



With One Year Warranty Assured

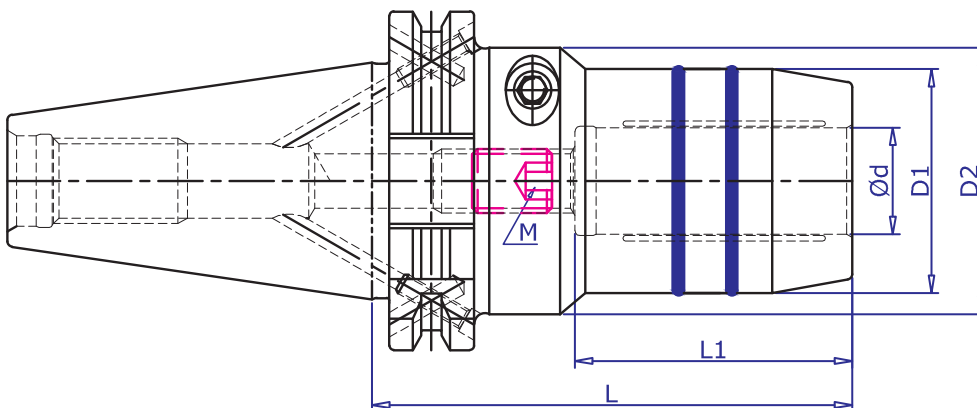
Clamping Screw torque Values	
Clamping dia. (mm)	Min.transferable torque moment (Nm)
6	12
8	20
10	40
12	70
14	100
16	150
18	210
20	250
25	420
32	800



Two Anti-Slip Rings Prevents Sliding Accident.



Reduction Sleeve



- * Tool shank quality h6
- * Hydro-sleeve is ordered separately.
- * Tighten the pressure screw until fully engaged.
- * Additional sizes and special designs available on request.

Maximum runout of MOUNTING taper to INTERNAL dia 0.003mm

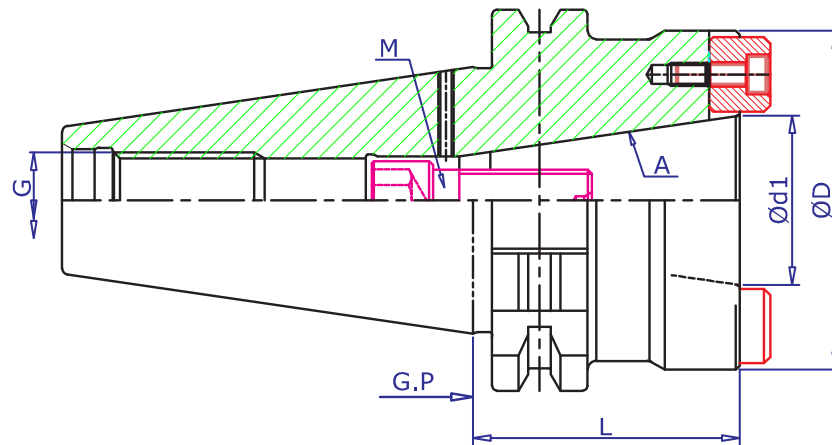
Balancing GRADE:- G2.5 /20,000 rev./min STD.

Availability :- ● Stock ○ 08-10 Weeks

	Item Description	Tool Shank	Ø d	Ø D1	Ø D2	L	L1	M
○	SK40 SHC 06 075AD+B	SK 40	6	26	50	75	38	M5
○	SK40 SHC 08 075AD+B	SK 40	8	28	50	75	38	M6
○	SK40 SHC 10 075AD+B	SK 40	10	30	50	75	40	M6
●	SK40 SHC 12 080AD+B	SK 40	12	32	50	80	45	M6
○	SK40 SHC 14 080AD+B	SK 40	14	34	50	80	45	M6
○	SK40 SHC 16 085AD+B	SK 40	16	38	50	85	50	M8
○	SK40 SHC 18 090AD+B	SK 40	18	40	50	90	52	M8
●	SK40 SHC 20 090AD+B	SK 40	20	42	50	90	52	M8
○	SK40 SHC 25 110AD+B	SK 40	25	53	---	110	59	M16
○	SK40 SHC 32 115AD+B	SK 40	32	60	---	115	60	M16
○	SK50 SHC 06 075AD+B	SK50	6	26	50	75	38	M5
○	SK50 SHC 08 075AD+B	SK50	8	28	50	75	38	M6
○	SK50 SHC 10 075AD+B	SK50	10	30	50	75	40	M6
●	SK50 SHC 12 080AD+B	SK50	12	32	50	80	45	M6
○	SK50 SHC 14 080AD+B	SK50	14	34	50	80	45	M6
○	SK50 SHC 16 085AD+B	SK50	16	38	50	85	50	M8
○	SK50 SHC 18 090AD+B	SK50	18	40	50	90	52	M8
●	SK50 SHC 20 090AD+B	SK50	20	42	50	90	52	M8
○	SK50 SHC 25 100AD+B	SK50	25	53	---	100	59	M16
○	SK50 SHC 32 100AD+B	SK50	32	60	---	100	60	M16

Ordering Example :- SK40 SHC12 080 AD+B - 2 Nos.

REDUCTION SLEEVE



Taper Angle AT3 Class

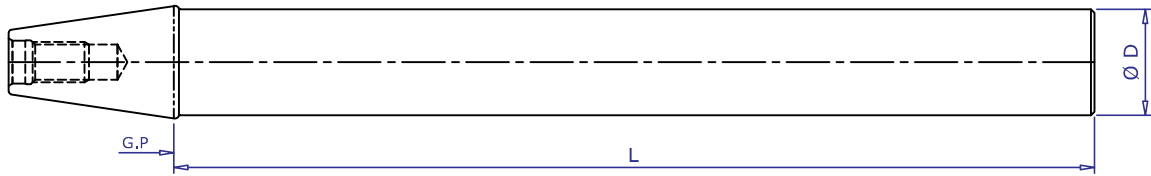
Maximum runout of MOUNTING taper to INTERNAL dia 0.005mm

Balancing GRADE:- G6.3 /15,000 rev./min STD.

Item Description	Tool Shank	Ød1	ØD	A	L	M	G
SK50 To SK40 Reduction Sleeve	SK-50	44.45	85.0	7/24	70.0	M16	M24

Ordering Example :- SK50 TO SK40 SLEEVE - 2 Nos.

MASTER MANDREL



Taper Angle AT3 Class.

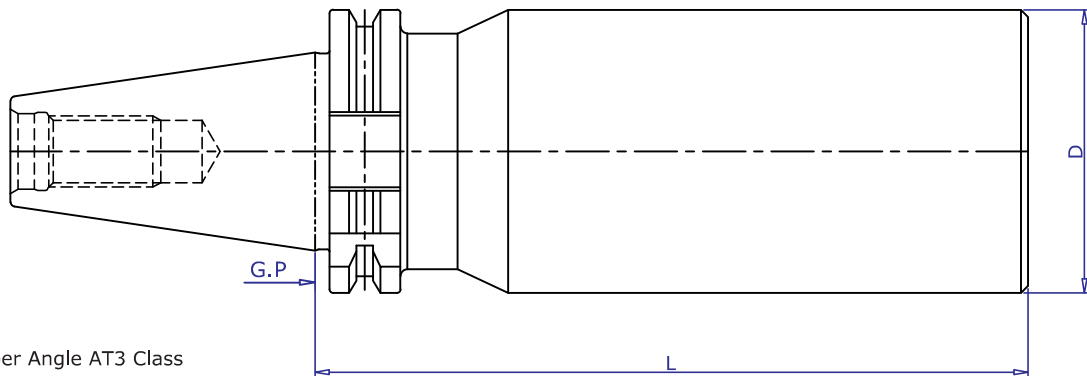
Master Mandrels According To MAS 403 STD.
Runout Max. 0.005 Taper w.r.t. Plane Dia. At L

Note : To Be Vertically Stored
Supplied In Woodeen Box.

TOOL SHANK	ØD	L
SK30	32.0	250
SK40	40.0	300
SK50	50.0	350

Ordering Example :- SK40 Ø40.0 MASTER MANDREL- 2 Nos.

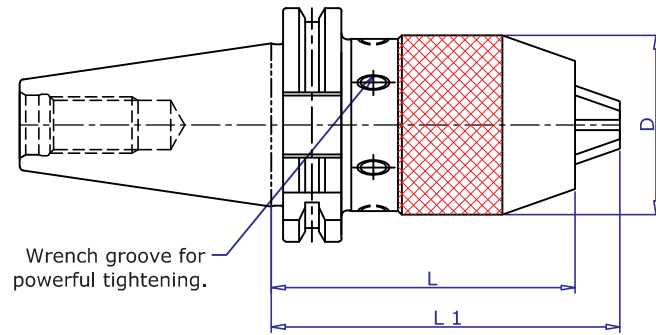
BORING BAR BLANK



Taper Angle AT3 Class

TOOL SHANK	D	L
SK40 / SK50 BORING BAR BLANK	AS PER CUSTOMER REQUIREMENT	

SIDDHI DRILL CHUCK (NCDC)



Taper Angle AT3 Class

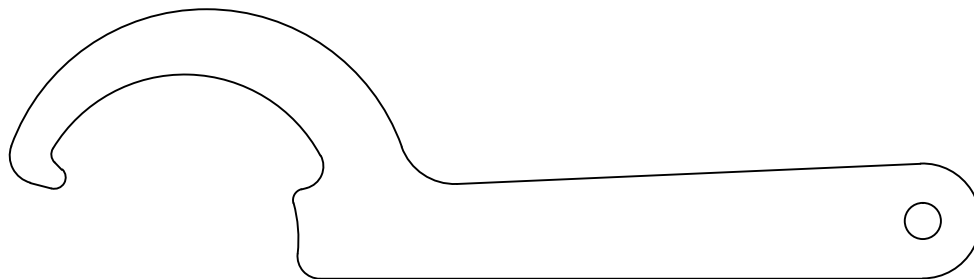
Item Description	Capacity	Ø D	L	L1
SK40 x NCDC113	1.0 To 13.0 mm	50	86.0	98.5
SK50 x NCDC113	1.0 To 13.0 mm	50	108.0	120.5

Ordering Example :- SK40 SDC113 - 2 Nos.

COMPARISON DATA OF DRILL CHUCK TIGHTENING TORQUE

Type of drill chuck	Method of tightening	Twisting moment	Comparison %
DC 113	By Hand	6.9 Nm	100
NCDC 113	By wrench	21.8 Nm	300

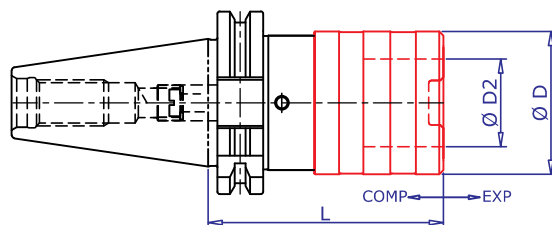
NC SDC Wrench.



SK (DIN 69871) (DIN ISO 7388-1)

QUICK CHANGE TAPPING CHUCK (SWFLK)

Type SWFLK/SK/DIN 69871



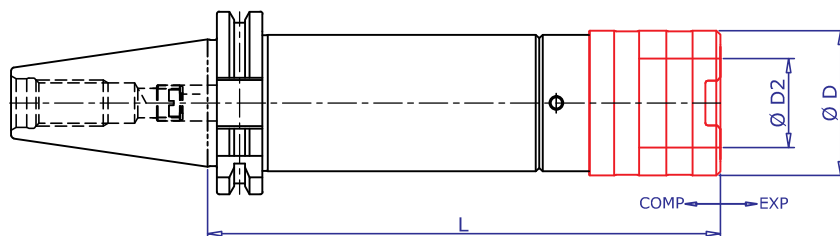
Taper Angle AT3 Class .

Item Description	Chuck Capacity	Suitable Adaptors	Length Comp.		Ø D	Ø D2	SK 30 L	SK 40 L	SK 50 L
			Compr.	Expan.					
SWFLK1 / SK #	M3 - M12	SWES1B / SWE1	7.5	7.5	36	19	64.0	60.0	60.0
SWFLK2 / SK #	M8 - M20	SWES2B / SWE2	12.5	12.5	53	31	----	98.0	84.0
SWFLK3 / SK #	M14 - M33	SWES3B / SWE3	20	20	78	48	----	150.0	139.0

Ordering Example :- SWFLK2 / SK40 QTY. : 2 NOS.

QUICK CHANGE TAPPING CHUCK (SWFLK)

Type SWFLK/SK/DIN69871

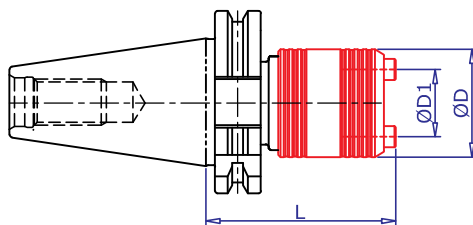


Taper Angle AT3 Class .

Item Description	Chuck Capacity	Suitable Adaptors.	Length Comp		ØD	ØD2	SK 40 L	SK 50 L
			Compr.	Expan.				
SWFLK 1 /SK #	M 3 -M 12	SWES1B / SWE1	7.50	7.50	36	19	150 To 500	150 To 500
SWFLK 2 /SK #	M 8 - M 20	SWES2B / SWE2	12.50	12.50	53	31	150 To 500	150 To 500
SWFLK 3 /SK #	M 14- M33	SWES3B / SWE3	20.00	20.00	78	48	200 To 500	200 To 500

Ordering Example :- SWFLK-1 / SK40 : 2 NOS.

RIGID TAPPING CHUCK SQ # / SK / DIN69871



Taper Angle AT3 Class .

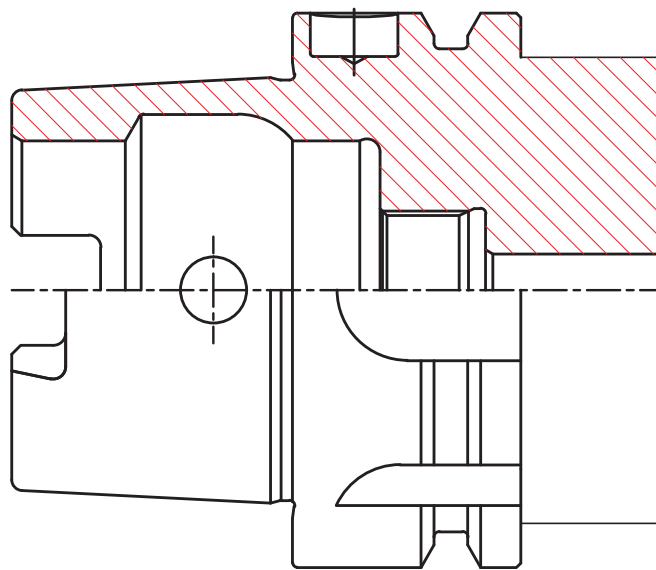
(No Compression & No Expansion)

Item Description	Chuck Capacity	Suitable Adaptors SWE Size	ØD1	ØD	SK30 L	SK40 L	SK50 L
SQ 3-12 /SK	M3 - M12	SWE 1 /SWES1B	19.0	32.0	59.0	59.0	59.0
SQ 8-20 /SK	M8 - M20	SWE 2/SWES2B	31.0	50.0	82.0	82.0	82.0

Ordering Example :- SQ 3-12 / SK40 QTY: 2 NOS.

NOTE:- FOR TAP ADAPTORS AND TAP TECHNICAL SPECIFICATION PLEASE REFER PAGE NO. 164, 165, 166, 167

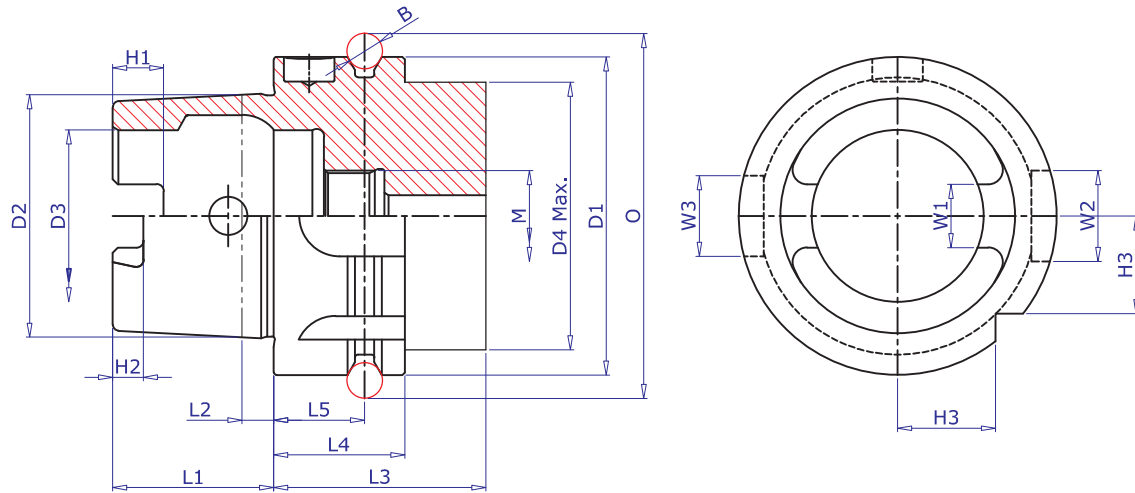
Precision Tool Holder HSK-A (DIN 69893-1)



● INDEX ●

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HSK-A TOOL SHANK Technical Information



Taper Angle AT3 Class

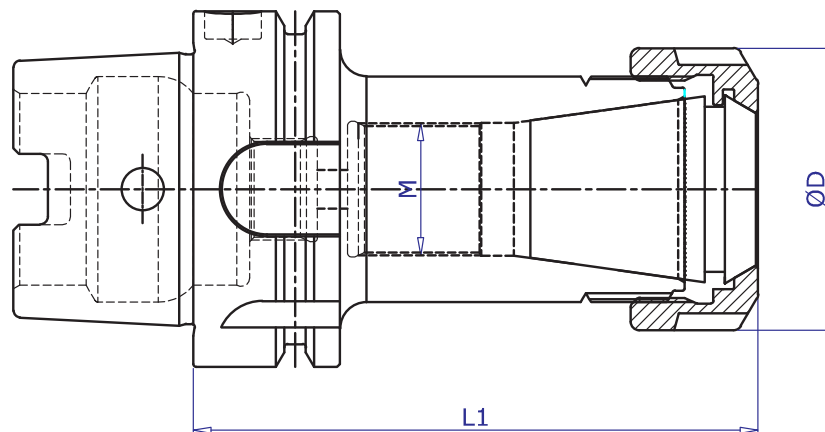
TOOL SHANK	D1	D2	D3	D4	O	M	B	L1	L2	L3	L4	L5	H1	H2	H3	W1	W2	W3
50	50	38	26	42	59.30	M16X1	7.0	25.0	5.0	42.0	26.0	18.0	7.5	4.5	15.5	10.54	12.0	14.0
63	63	48	34	53	72.30	M18X1	7.0	32.0	6.3	42.0	26.0	18.0	10.0	6.0	20.0	15.54	16.0	18.0
100	100	75	53	88	109.75	24X1.5	7.0	50.0	10.0	45.0	29.0	20.0	15.0	10.0	31.5	20.02	20.0	22.0

All HSK Tool holders are Manufactured according to Din 69893-1 FORM A
Balanced to G6.3-20,000 RPM.

Used on machining centers milling machines turning machines, special machines with automatic tool change.

- Central axial coolant supply through coolant tube.
- Torque transmission via two key slots at end of taper.
- Two slots on collar for tool magazine location edge.
- Hole for data carrier DIN69873-1 in collar.
- Taper Angle Class AT-3

COLLET CHUCKS ER TYPE (DIN 6499) FOR PARALLEL SHANK TOOLS



Taper Angle AT3 Class

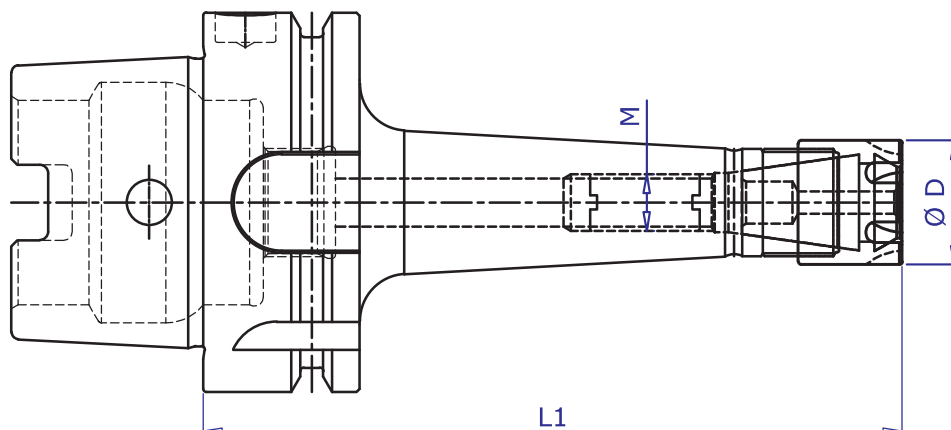
Maximum runout of MOUNTING taper to INTERNAL taper 0.003mm

Balancing GRADE:- G6.3 /20,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Suitable For Collet	Collet Calmping Capacity	L1	M	Nut		Spanner Description
					Ø D	Description	
HSK-A 50 ER16 060 G.P	ER16	0.5 - 10	60	M10x1	28.0	UM/ER16	GS25
HSK-A 50 ER16 100 G.P	ER16	0.5 - 10	100	M10x1	28.0	UM/ER16	GS25
HSK-A 50 ER20 100 G.P	ER20	1.0 - 13	100	M10x1	34.0	UM/ER20	E20
HSK-A 50 ER25 080 G.P	ER25	1.0 - 16	80	M14x1	42.0	UM/ER25	E25
HSK-A 50 ER25 100 G.P	ER25	1.0 - 16	100	M14x1	42.0	UM/ER25	E25
HSK-A 50 ER32 080 G.P	ER32	2.0 - 20	80	M22x1.5	50.0	UM/ER32	E32
HSK-A 50 ER32 100 G.P	ER32	2.0 - 20	100	M22x1.5	50.0	UM/ER32	E32
HSK-A 50 ER40 080 G.P	ER40	3.0 - 26	80	M28X1.5	63.0	UM/ER40	E40
HSK-A 63 ER16 100 G.P	ER16	0.5 - 10	100	M10x1	28.0	UM/ER16	GS25
HSK-A63 ER16 160 G.P	ER16	0.5 - 10	160	M10x1	28.0	UM/ER16	GS25
HSK-A63 ER20 100 G.P	ER20	1.0 - 13	100	M10x1	34.0	UM/ER20	E20
HSK-A63 ER20 160 G.P	ER20	1.0 - 13	160	M10x1	34.0	UM/ER20	E20
HSK-A63 ER25 100 G.P	ER25	1.0 - 16	100	M14x1	42.0	UM/ER25	E25
HSK-A63 ER25 160 G.P	ER25	1.0 - 16	160	M14x1	42.0	UM/ER25	E25
HSK-A63 ER32 100 G.P	ER32	2.0 - 20	100	M22x1.5	50.0	UM/ER32	E32
HSK-A63 ER32 160 G.P	ER32	2.0 - 20	160	M22x1.5	50.0	UM/ER32	E32
HSK-A63 ER40 120 G.P	ER40	3.0 - 26	120	M28X1.5	63.0	UM/ER40	E40
HSK-A63 ER40 160 G.P	ER40	3.0 - 26	160	M28X1.5	63.0	UM/ER40	E40
HSK-A100 ER25 100 G.P	ER25	1.0 - 16	100	M14x1	42.0	UM/ER25	E25
HSK-A100 ER25 160 G.P	ER25	1.0 - 16	160	M14x1	42.0	UM/ER25	E25
HSK-A100 ER32 100 G.P	ER32	2.0 - 20	100	M22x1.5	50.0	UM/ER32	E32
HSK-A100 ER32 160 G.P	ER32	2.0 - 20	160	M22x1.5	50.0	UM/ER32	E32
HSK-A100 ER40 120 G.P	ER40	3.0 - 26	120	M28X1.5	63.0	UM/ER40	E40
HSK-A100 ER40 160 G.P	ER40	3.0 - 26	160	M28X1.5	63.0	UM/ER40	E40

Ordering Example :- HSK-A 63 ER16 100G.P -2 Nos



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL taper 0.003mm

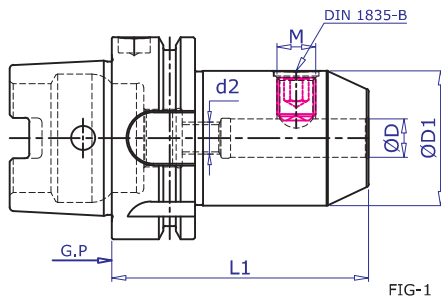
Balancing GRADE:- G6.3 /20,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

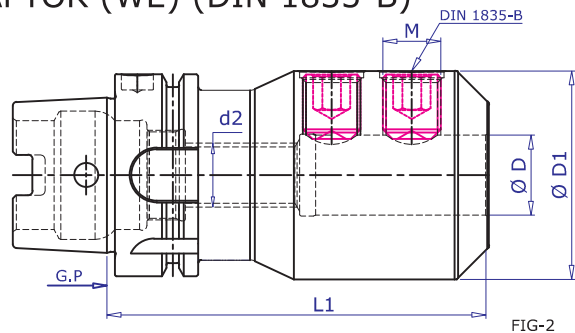
Item Description	Suitable For Collet	Collet Calmping Capacity	L1	M	Nut		Spanner Description
					Ø D	Description	
HSK-A 63 ERM11 070 G.P	ER11	0.5 - 7	70	M6x1	16.0	UM/ER11M	E11M
HSK-A 63 ERM11 100 G.P	ER11	0.5 - 7	100	M6x1	16.0	UM/ER11M	E11M
HSK-A 63 ERM11 160 G.P	ER11	0.5 - 7	160	M6x1	16.0	UM/ER11M	E11M
HSK-A 63 ERM16 100 G.P	ER16	0.5 - 10	100	M10x1	22.0	UM/ER16M	E16M
HSK-A 63 ERM16 160 G.P	ER16	0.5 - 10	160	M10x1	22.0	UM/ER16M	E16M
HSK-A 63 ERM20 100 G.P	ER20	1.0 - 13	100	M10x1	28.0	UM/ER20M	E20M
HSK-A 63 ERM20 160 G.P	ER20	1.0 - 13	160	M10x1	28.0	UM/ER20M	E20M
HSK-A 63 ERM25 100 G.P	ER25	1.0 - 16	100	M14x1	35.0	UM/ER25M	E25M
HSK-A 63 ERM25 160 G.P	ER25	1.0 - 16	160	M14x1	35.0	UM/ER25M	E25M
HSK-A100 ERM16 100 G.P	ER25	1.0 - 16	100	M14x1	22.0	UM/ER16M	E16M
HSK-A100 ERM16 160 G.P	ER25	1.0 - 16	160	M14x1	22.0	UM/ER16M	E16M
HSK-A100 ERM25 100 G.P	ER32	2.0 - 20	100	M22x1.5	35.0	UM/ER32M	E25M
HSK-A100 ERM25 160 G.P	ER32	2.0 - 20	160	M22x1.5	35.0	UM/ER32M	E25M

Ordering Example :- HSK-A 63 ERM16 100G.P -2 Nos

WELDON TYPE END MILL ADAPTOR (WE) (DIN 1835-B)



Taper Angle AT3 Class



Maximum runout of MOUNTING taper to INTERNAL dia 0.003mm

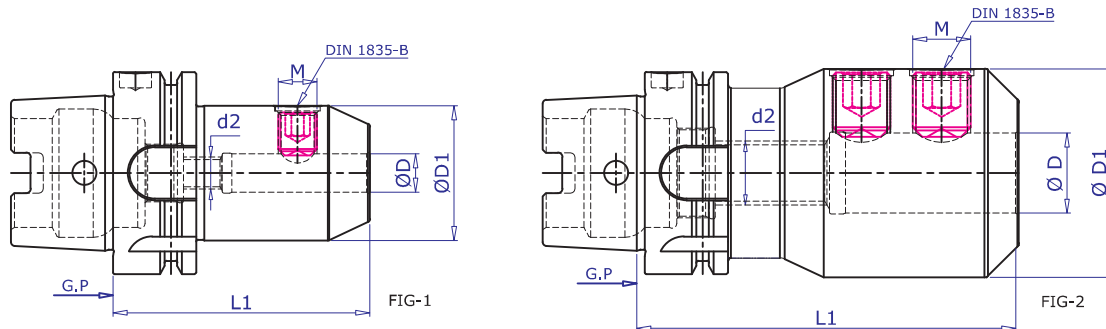
Balancing GRADE:- G6.3 /20,000 rev./min STD.

Fine Balancing of Tool Holder:- 2.5 G AT 25000 RPM (AT EXTRA COST)

Item Description	Ø D H5	L1	Ø D1	M	d2	Fig
HSK-A 50 WE06 065 G.P	6	65	25	M6	M5	1
HSK-A 50 WE08 065 G.P	8	65	28	M8	M6	1
HSK-A 50 WE10 065 G.P	10	65	35	M10	M8	1
HSK-A 50 WE12 080 G.P	12	80	42	M12	M10	1
HSK-A 50 WE14 080 G.P	14	80	44	M12	M10	1
HSK-A 50 WE16 080 G.P	16	80	48	M14	M12	1
HSK-A 50 WE18 080 G.P	18	80	50	M14	M12	1
HSK-A 50 WE20 080 G.P	20	80	52	M16	M16	1
HSK-A 50 SLA25 100 G.P**	25	100	50	M10X2P	M12	2
HSK-A 63 WE06 065 G.P	6	65	25	M6	M5	1
HSK-A 63 WE06 100 G.P	6	100	25	M6	M5	1
HSK-A 63 WE06 160 G.P	6	160	25	M6	M5	1
HSK-A 63 WE08 065 G.P	8	65	28	M8	M6	1
HSK-A 63 WE08 100 G.P	8	100	28	M8	M6	1
HSK-A 63 WE08 160 G.P	8	160	28	M8	M6	1
HSK-A 63 WE10 065 G.P	10	65	35	M10	M8	1
HSK-A 63 WE10 100 G.P	10	100	35	M10	M8	1
HSK-A 63 WE10 160 G.P	10	160	35	M10	M8	1
HSK-A 63 WE12 080 G.P	12	80	42	M12	M10	1
HSK-A 63 WE12 100 G.P	12	100	42	M12	M10	1
HSK-A 63 WE12 160 G.P	12	160	42	M12	M10	1
HSK-A 63 WE14 080 G.P	14	80	44	M12	M10	1
HSK-A 63 WE14 100 G.P	14	100	44	M12	M10	1
HSK-A 63 WE14 160 G.P	14	160	44	M12	M10	1
HSK-A 63 WE16 080 G.P	16	80	48	M14	M12	1
HSK-A 63 WE16 100 G.P	16	100	48	M14	M12	1
HSK-A 63 WE16 160 G.P	16	160	48	M14	M12	1
HSK-A 63 WE18 080 G.P	18	80	50	M14	M12	1
HSK-A 63 WE18 100 G.P	18	100	50	M14	M12	1
HSK-A 63 WE18 160 G.P	18	160	50	M14	M12	1
HSK-A 63 WE20 080 G.P	20	80	52	M16	M16	1
HSK-A 63 WE20 100 G.P	20	100	52	M16	M16	1
HSK-A 63 WE20 160 G.P	20	160	52	M16	M16	1
HSK-A 63 WE25 110 G.P	25	110	65	M18X2P	M20	2
HSK-A 63 WE32 110 G.P	32	110	72	M18X2P	M20	2
HSK-A 63 WE40 125 G.P	40	125	80	M20X2P	M20	2

Ordering Example :- HSK-A 63 WN06 065 G.P -2 Nos

WELDON TYPE END MILL ADAPTOR (WE) (DIN 1835-B)



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL dia 0.003mm

Balancing GRADE:- G6.3 /20,000 rev./min STD.

Fine Balancing of Tool Holder:- 2.5 G AT 25000 RPM (AT EXTRA COST)

Item Description	Ø D H5	L1	Ø D1	M	d2	Fig
HSK-A 100 WE06 080 G.P	6	80	25	M6	M5	1
HSK-A100 WE06 160 G.P	6	160	25	M6	M5	1
HSK-A100 WE08 080 G.P	8	80	28	M8	M6	1
HSK-A100 WE08 160 G.P	8	160	28	M8	M6	1
HSK-A100 WE10 080 G.P	10	80	35	M10	M8	1
HSK-A100 WE10 160 G.P	10	160	35	M10	M8	1
HSK-A100 WE12 100 G.P	12	100	42	M12	M10	1
HSK-A100 WE12 160 G.P	12	160	42	M12	M10	1
HSK-A100 WE14 100 G.P	14	100	44	M12	M10	1
HSK-A100 WE14 160 G.P	14	160	44	M12	M10	1
HSK-A100 WE16 100 G.P	16	100	48	M14	M12	1
HSK-A100 WE16 160 G.P	16	160	48	M14	M12	1
HSK-A100 WE18 100 G.P	18	100	50	M14	M12	1
HSK-A100 WE18 160 G.P	18	160	50	M14	M12	1
HSK-A100 WE20 100 G.P	20	100	52	M16	M16	1
HSK-A100 WE20 160 G.P	20	160	52	M16	M16	1
HSK-A100 WE25 100 G.P	25	100	65	M18X2P	M20	2
HSK-A100 WE25 160 G.P	25	160	65	M18X2P	M20	2
HSK-A100 WE32 120 G.P	32	120	72	M20X2P	M20	2
HSK-A100 WE32 160 G.P	32	160	72	M20X2P	M20	2
HSK-A100 WE40 120 G.P	40	120	80	M20X2P	M20	2
HSK-A100 WE50 130 G.P	50	130	100	M24X2P	M20	2

Ordering Example :- HSK-A 100 WN32 160G.P -2 Nos

WELDON TYPE END MILL ADAPTOR (WN) (DIN 1835-E)

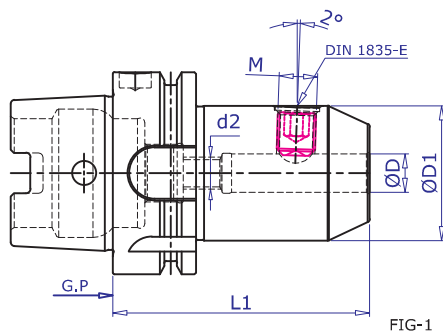


FIG-1

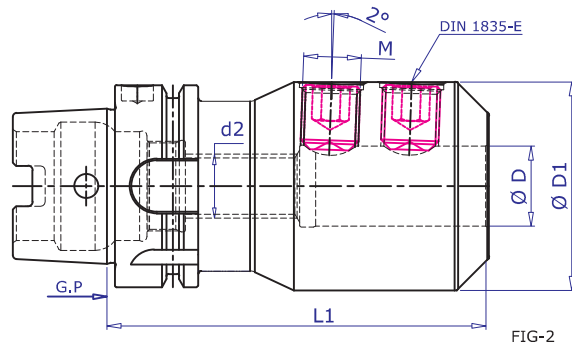


FIG-2

Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL dia 0.003mm

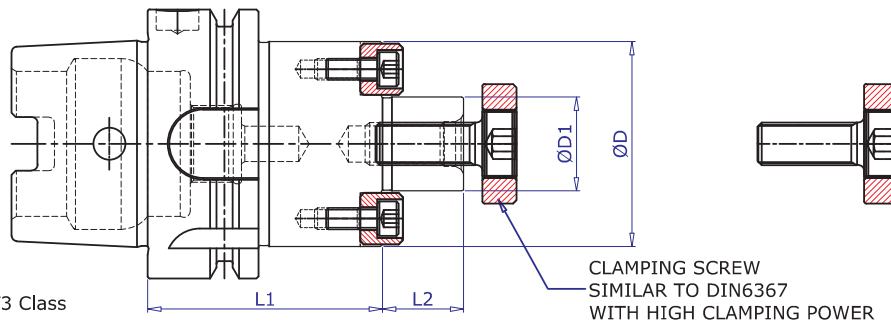
Balancing GRADE:- G6.3 /20,000 rev./min STD.

Fine Balancing of Tool Holder:- 2.5 G AT 25000 RPM (AT EXTRA COST)

Item Description	Ø D H5	L1	Ø D1	M	d2	Fig
HSK-A 50 WN06 080 G.P	6	80	25	M6	M5	1
HSK-A 50 WN08 080 G.P	8	80	28	M8	M6	1
HSK-A 50 WN10 080 G.P	10	80	35	M10	M8	1
HSK-A 50 WN12 090 G.P	12	90	42	M12	M10	1
HSK-A 50 WN14 090 G.P	14	90	44	M12	M10	1
HSK-A 50 WN16 090 G.P	16	90	48	M14	M12	1
HSK-A 50 WN18 090 G.P	18	90	50	M14	M12	1
HSK-A 50 WN20 100 G.P	20	100	52	M16	M16	1
HSK-A 63 WN06 080 G.P	6	80	25	M6	M5	1
HSK-A 63 WN08 080 G.P	8	80	28	M8	M6	1
HSK-A 63 WN10 080 G.P	10	80	35	M10	M8	1
HSK-A 63 WN12 090 G.P	12	90	42	M12	M10	1
HSK-A 63 WN14 090 G.P	14	90	44	M12	M10	1
HSK-A 63 WN16 100 G.P	16	100	48	M14	M12	1
HSK-A 63 WN18 100 G.P	18	100	50	M14	M12	1
HSK-A 63 WN20 100 G.P	20	100	52	M16	M16	1
HSK-A 63 WN25 110 G.P	25	110	65	M18X2P	M20	2
HSK-A 63 WN32 110 G.P	32	110	72	M18X2P	M20	2
HSK-A 100 WN06 090 G.P	6	90	25	M6	M5	1
HSK-A100 WN08 090 G.P	8	90	28	M8	M6	1
HSK-A100 WN10 090 G.P	10	90	35	M10	M8	1
HSK-A100 WN12 100 G.P	12	100	42	M12	M10	1
HSK-A100 WN14 100 G.P	14	100	44	M12	M10	1
HSK-A100 WN16 100 G.P	16	100	48	M14	M12	1
HSK-A100 WN18 100 G.P	18	100	50	M14	M12	1
HSK-A100 WN20 110 G.P	20	110	52	M16	M16	1
HSK-A100 WN25 120 G.P	25	120	65	M18X2P	M20	2
HSK-A100 WN32 120 G.P	32	120	72	M20X2P	M20	2
HSK-A100 WN40 120 G.P	40	120	80	M20X2P	M20	2

Ordering Example :- HSK-A 63 WN06 080 G.P -2 Nos

FACE MILL HOLDERS DIN6357 (FMH)



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to LOCATING Ø 0.003mm

Balancing GRADE:- G6.3 /20,000 rev./min STD.

Fine Balancing of Tool Holder:- 2.5 G AT 25000 RPM (AT EXTRA COST)

Item Description	Ø D1 h6	L1	Ø D	L2
HSK-A50 FMH16 045 G.P	16	45	38	17
HSK-A50 FMH22 055 G.P	22	55	48	19
HSK-A50 FMH27 055 G.P	27	55	58	21
HSK-A50 FMH32 060 G.P	32	60	78	24
HSK-A63 FMH16 045 G.P	16	45	38	17
HSK-A63 FMH16 100 G.P	16	100	38	17
HSK-A63 FMH16 160 G.P	16	160	38	17
HSK-A63 FMH22 050 G.P	22	50	48	19
HSK-A63 FMH22 100 G.P	22	100	48	19
HSK-A63 FMH22 160 G.P	22	160	48	19
HSK-A63 FMH27 055 G.P	27	55	58	21
HSK-A63 FMH27 100 G.P	27	100	58	21
HSK-A63 FMH27 160 G.P	27	160	58	21
HSK-A63 FMH32 060 G.P	32	60	78	24
HSK-A63 FMH32 100 G.P	32	100	78	24
HSK-A63 FMH32 160 G.P	32	160	78	24
HSK-A63 FMH40 065 G.P	40	65	88	27
HSK-A63 FMH40 100 G.P	40	100	88	27
HSK-A63 FMH40 160 G.P	40	160	88	27
HSK-A100 FMH16 055 G.P	16	55	38	17
HSK-A100 FMH16 100 G.P	16	100	38	17
HSK-A100 FMH16 160 G.P	16	160	38	17
HSK-A100 FMH22 055 G.P	22	55	48	19
HSK-A100 FMH22 100 G.P	22	100	48	19
HSK-A100 FMH22 160 G.P	22	160	48	19
HSK-A100 FMH27 055 G.P	27	55	58	21
HSK-A100 FMH27 100 G.P	27	100	58	21
HSK-A100 FMH27 160 G.P	27	160	58	21
HSK-A100 FMH32 060 G.P	32	60	78	24
HSK-A100 FMH32 100 G.P	32	100	78	24
HSK-A100 FMH32 160 G.P	31	160	78	24
HSK-A100 FMH40 065 G.P	40	65	88	27
HSK-A100 FMH40 100 G.P	40	100	88	27
HSK-A100 FMH40 160 G.P	40	160	88	27

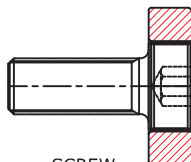
Ordering Example :- HSK-A 63 FMH16 045G.P -2 Nos



TENON

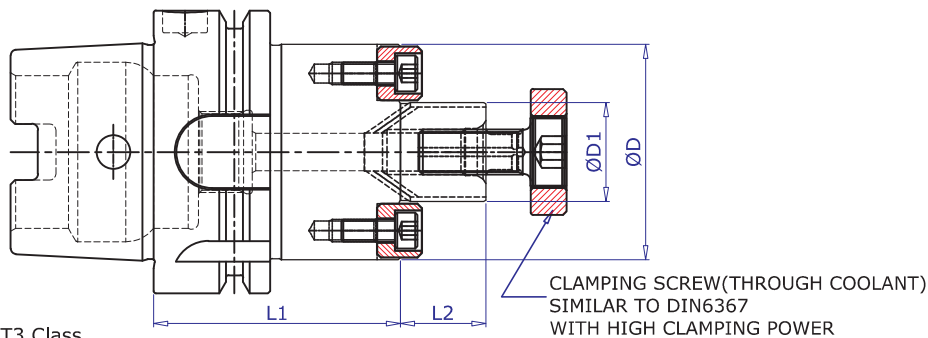


ALLEN CAP
SCREW



SCREW

D	SCREW	TENON	ALLEN CAP SCREW
16	SCR16 X M8	8	M4
22	SCR22 X M10	10	M5
27	SCR27 X M12	12	M5
32	SCR32 X M16	14	M6
40	SCR40 X M20	16	M6



Taper Angle AT3 Class

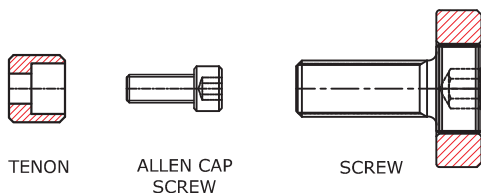
Maximum runout of MOUNTING taper to LOCATING Ø 0.003mm

Balancing GRADE:- G6.3 /20,000 rev./min STD.

Fine Balancing of Tool Holder:- 2.5 G AT 25000 RPM (AT EXTRA COST)

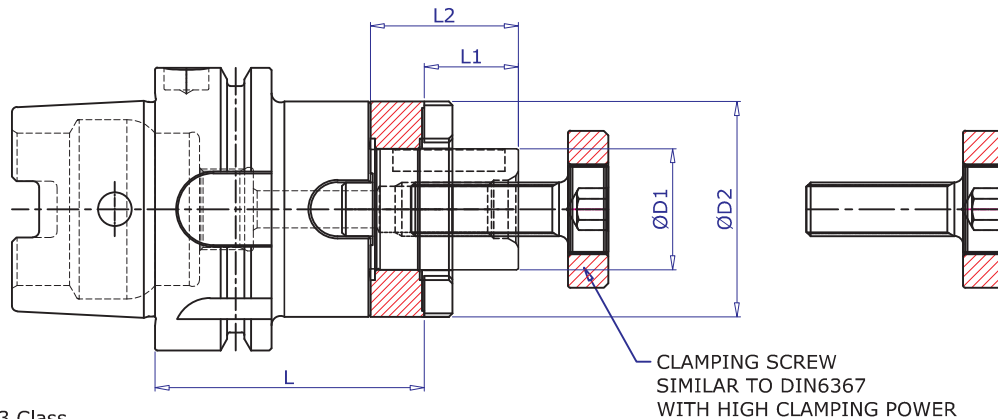
Item Description	Ø D1 h6	L1	Ø D	L2
HSK-A50 FMH-K16 045 G.P	16	45	38	17
HSK-A50 FMH-K22 055 G.P	22	55	48	19
HSK-A50 FMH-K27 055 G.P	27	55	58	21
HSK-A50 FMH-K32 060 G.P	32	60	78	24
HSK-A63 FMH-K16 045 G.P	16	45	38	17
HSK-A63 FMH-K16 100 G.P	16	100	38	17
HSK-A63 FMH-K16 160 G.P	16	160	38	17
HSK-A63 FMH-K22 050 G.P	22	50	48	19
HSK-A63 FMH-K22 100 G.P	22	100	48	19
HSK-A63 FMH-K22 160 G.P	22	160	48	19
HSK-A63 FMH-K27 055 G.P	27	55	58	21
HSK-A63 FMH-K27 100 G.P	27	100	58	21
HSK-A63 FMH-K27 160 G.P	27	160	58	21
HSK-A63 FMH-K32 060 G.P	32	60	78	24
HSK-A63 FMH-K32 100 G.P	32	100	78	24
HSK-A63 FMH-K32 160 G.P	32	160	78	24
HSK-A63 FMH-K40 065 G.P	40	65	88	27
HSK-A63 FMH-K40 100 G.P	40	100	88	27
HSK-A63 FMH-K40 160 G.P	40	160	88	27
HSK-A100 FMH-K16 055 G.P	16	55	38	17
HSK-A100 FMH-K16 100 G.P	16	100	38	17
HSK-A100 FMH-K16 160 G.P	16	160	38	17
HSK-A100 FMH-K22 055 G.P	22	55	48	19
HSK-A100 FMH-K22 100 G.P	22	100	48	19
HSK-A100 FMH-K22 160 G.P	22	160	48	19
HSK-A100 FMH-K27 055 G.P	27	55	58	21
HSK-A100 FMH-K27 100 G.P	27	100	58	21
HSK-A100 FMH-K27 160 G.P	27	160	58	21
HSK-A100 FMH-K32 060 G.P	32	60	78	24
HSK-A100 FMH-K32 100 G.P	32	100	78	24
HSK-A100 FMH-K32 160 G.P	32	160	78	24
HSK-A100 FMH-K40 065 G.P	40	65	88	27
HSK-A100 FMH-K40 100 G.P	40	100	88	27
HSK-A100 FMH-K40 160 G.P	40	160	88	27

Ordering Example :- HSK-A 63 FMH-K 16 045G.P -2 Nos



D	SCREW	TENON	ALLEN CAP SCREW
16	SCR16 X M8	8	M4
22	SCR22 X M10	10	M5
27	SCR27 X M12	12	M5
32	SCR32 X M16	14	M6
40	SCR40 X M20	16	M6

COMBI SHEEL MILL ADAPTOR DIN 6358 (CSMA)



Taper Angle AT3 Class

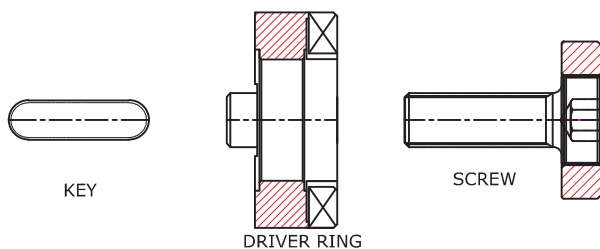
Maximum runout of MOUNTING taper to LOCATING Ø 0.003mm

Balancing GRADE:- G6.3 /20,000 rev./min STD.

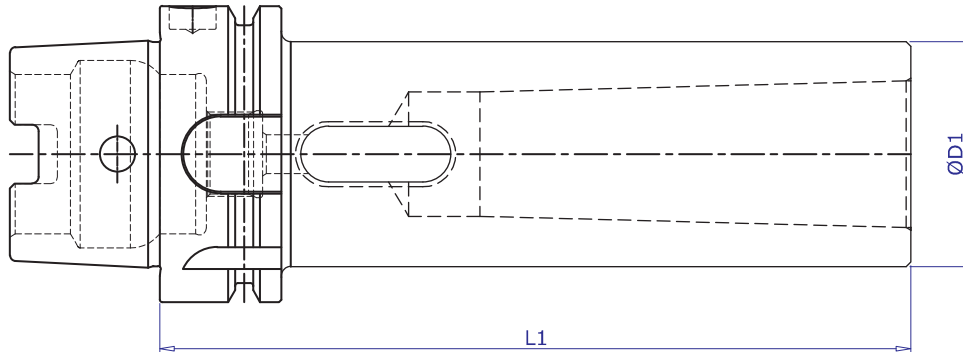
Fine Balancing of Tool Holder:- 2.5 G AT 25000 RPM (AT EXTRA COST)

Item Description	Ø D1 h6	L	L1	L2	Ø D2
HSK-A 50 CSMA16 050G.P	16	50	17	27	32
HSK-A50 CSMA22 055 G.P	22	55	19	31	40
HSK-A50 CSMA27 065 G.P	27	65	21	33	48
HSK-A50 CSMA32 065 G.P	32	65	24	38	58
HSK-A63 CSMA16 060 G.P	16	60	17	27	32
HSK-A63 CSMA16 100 G.P	16	100	17	27	32
HSK-A63 CSMA16 160 G.P	16	160	17	27	32
HSK-A63 CSMA22 060 G.P	22	60	19	31	40
HSK-A63 CSMA22 100 G.P	22	100	19	31	40
HSK-A63 CSMA22 160 G.P	22	160	19	31	40
HSK-A63 CSMA27 060 G.P	27	60	21	33	48
HSK-A63 CSMA27 100 G.P	27	100	21	33	48
HSK-A63 CSMA27 160 G.P	27	160	21	33	48
HSK-A63 CSMA32 065 G.P	32	65	24	38	58
HSK-A63 CSMA32 100 G.P	32	100	24	38	58
HSK-A63 CSMA32 160 G.P	32	160	24	38	58
HSK-A63 CSMA40 070 G.P	40	70	27	41	70
HSK-A63 CSMA40 100 G.P	40	100	27	41	70
HSK-A63 CSMA40 160 G.P	40	160	27	41	70
HSK-A100 CSMA16 065 G.P	16	65	65	27	32
HSK-A100 CSMA22 065 G.P	22	65	65	31	40
HSK-A100 CSMA27 065 G.P	27	65	65	33	48
HSK-A100 CSMA32 070 G.P	32	70	70	38	58
HSK-A100 CSMA40 070 G.P	40	70	70	41	70

Ordering Example :- HSK-A 63 CSMA16 060G.P -2 Nos



D	DRIVER RING	SCREW	KEY W X L
16	DR16 X 10	SCR16 X M8	Key 4 x 20
22	DR22 X 12	SCR22 X M10	Key 6 x 25
27	DR27 X 12	SCR27 X M12	Key 7 x 25
32	DR32 X 14	SCR32 X M16	Key 8 x 30
40	DR40 X 14	SCR40 X M20	Key 10 x 30



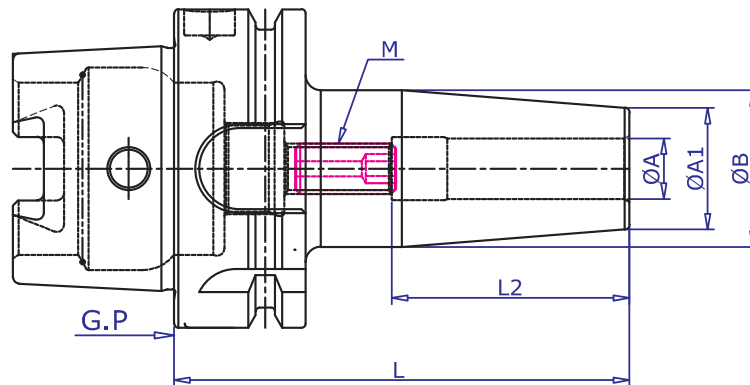
Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL taper 0.003mm

Balancing GRADE:- G6.3 /20,000 rev./min STD.

Item Description	Ø D1	L1
HSK-A50 MTA-1 100 G.P	25	100
HSK-A50 MTA-2 115 G.P	32	115
HSK-A50 MTA-3 135 G.P	40	135
HSK-A63 MTA-1 100 G.P	25	100
HSK-A63 MTA-2 115 G.P	32	115
HSK-A63 MTA-3 135 G.P	40	135
HSK-A63 MTA-4 160 G.P	48	160
HSK-A100 MTA-1 110 G.P	25	110
HSK-A100 MTA-2 120 G.P	32	120
HSK-A100 MTA-3 150 G.P	40	150
HSK-A100 MTA-4 170 G.P	48	170
HSK-A100 MTA-5 200 G.P	63	200

Ordering Example :- HSK-A 63 MTA1 100G.P -2 Nos



Taper Angle AT3 Class

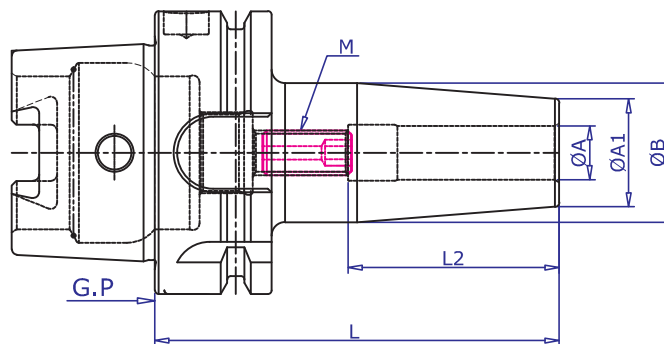
Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Tool Shank	Ø A	Ø A1	Ø B	L	L2	M
HSK-A50 SFA06 080 GP	HSK-A 50	6	21	27	80	36	M5
HSK-A50 SFA06 120 GP	HSK-A 50	6	21	27	120	36	M5
HSK-A50 SFA06 160 GP	HSK-A 50	6	21	27	160	36	M5
HSK-A50 SFA08 080 GP	HSK-A 50	8	21	27	80	36	M6
HSK-A50 SFA08 120 GP	HSK-A 50	8	21	27	120	36	M6
HSK-A50 SFA08 160 GP	HSK-A 50	8	21	27	160	36	M6
HSK-A50 SFA10 085 GP	HSK-A 50	10	24	32	85	42	M8
HSK-A50 SFA10 120 GP	HSK-A 50	10	24	32	120	42	M8
HSK-A50 SFA10 160 GP	HSK-A 50	10	24	32	160	42	M8
HSK-A50 SFA12 090 GP	HSK-A 50	12	24	32	90	47	M10
HSK-A50 SFA12 120 GP	HSK-A 50	12	24	32	120	47	M10
HSK-A50 SFA12 160 GP	HSK-A 50	12	24	32	160	47	M10
HSK-A50 SFA14 090 GP	HSK-A 50	14	27	34	90	47	M10
HSK-A50 SFA14 120 GP	HSK-A 50	14	27	34	120	47	M10
HSK-A50 SFA14 160 GP	HSK-A 50	14	27	34	160	47	M10
HSK-A50 SFA16 095 GP	HSK-A 50	16	27	34	95	50	M12
HSK-A50 SFA16 120 GP	HSK-A 50	16	27	34	120	50	M12
HSK-A50 SFA16 160 GP	HSK-A 50	16	27	34	160	50	M12
HSK-A50 SFA18 095 GP	HSK-A 50	18	33	42	95	50	M12
HSK-A50 SFA18 120 GP	HSK-A 50	18	33	42	120	50	M12
HSK-A50 SFA18 160 GP	HSK-A 50	18	33	42	160	50	M12
HSK-A50 SFA20 100 GP	HSK-A 50	20	33	42	100	52	M16
HSK-A50 SFA20 120 GP	HSK-A 50	20	33	42	120	52	M16
HSK-A50 SFA20 160 GP	HSK-A 50	20	33	42	160	52	M16

Ordering Example :- HSK-A50 SFA10 085 -2Nos

SHRINK FIT ADAPTOR.



Taper Angle AT3 Class

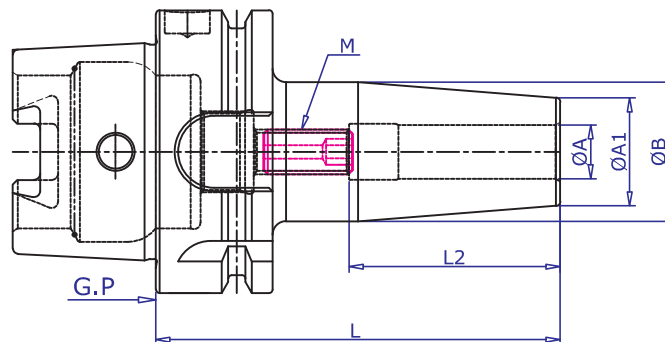
Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Tool Shank	Ø A	Ø A1	Ø B	L	L2	M
HSK-A63 SFA06 080 GP	HSK-A 63	6	21	27	80	36	M5
HSK-A63 SFA06 120 GP	HSK-A 63	6	21	27	120	36	M5
HSK-A63 SFA06 160 GP	HSK-A 63	6	21	27	160	36	M5
HSK-A63 SFA08 080 GP	HSK-A 63	8	21	27	80	36	M6
HSK-A63 SFA08 120 GP	HSK-A 63	8	21	27	120	36	M6
HSK-A63 SFA08 160 GP	HSK-A 63	8	21	27	160	36	M6
HSK-A63 SFA10 085 GP	HSK-A 63	10	24	32	85	42	M8
HSK-A63 SFA10 120 GP	HSK-A 63	10	24	32	120	42	M8
HSK-A63 SFA10 160 GP	HSK-A 63	10	24	32	160	42	M8
HSK-A63 SFA12 090 GP	HSK-A 63	12	24	32	90	47	M10
HSK-A63 SFA12 120 GP	HSK-A 63	12	24	32	120	47	M10
HSK-A63 SFA12 160 GP	HSK-A 63	12	24	32	160	47	M10
HSK-A63 SFA14 090 GP	HSK-A 63	14	27	34	90	47	M10
HSK-A63 SFA14 120 GP	HSK-A 63	14	27	34	120	47	M10
HSK-A63 SFA14 160 GP	HSK-A 63	14	27	34	160	47	M10
HSK-A63 SFA16 095 GP	HSK-A 63	16	27	34	95	50	M12
HSK-A63 SFA16 120 GP	HSK-A 63	16	27	34	120	50	M12
HSK-A63 SFA16 160 GP	HSK-A 63	16	27	34	160	50	M12
HSK-A63 SFA18 095 GP	HSK-A 63	18	33	42	95	50	M12
HSK-A63 SFA18 120 GP	HSK-A 63	18	33	42	120	50	M12
HSK-A63 SFA18 160 GP	HSK-A 63	18	33	42	160	50	M12
HSK-A63 SFA20 100 GP	HSK-A 63	20	33	42	100	52	M16
HSK-A63 SFA20 120 GP	HSK-A 63	20	33	42	120	52	M16
HSK-A63 SFA20 160 GP	HSK-A 63	20	33	42	160	52	M16
HSK-A63 SFA25 115 GP	HSK-A 63	25	44	53	115	58	M16
HSK-A63 SFA25 120 GP	HSK-A 63	25	44	53	120	58	M16
HSK-A63 SFA25 160 GP	HSK-A 63	25	44	53	160	58	M16
HSK-A63 SFA32 120 GP	HSK-A 63	32	44	53	120	58	M16
HSK-A63 SFA32 160 GP	HSK-A 63	32	44	53	160	58	M16

Ordering Example :- HSK-A63 SFA10 085 -2Nos

SHRINK FIT ADAPTOR.



Taper Angle AT3 Class

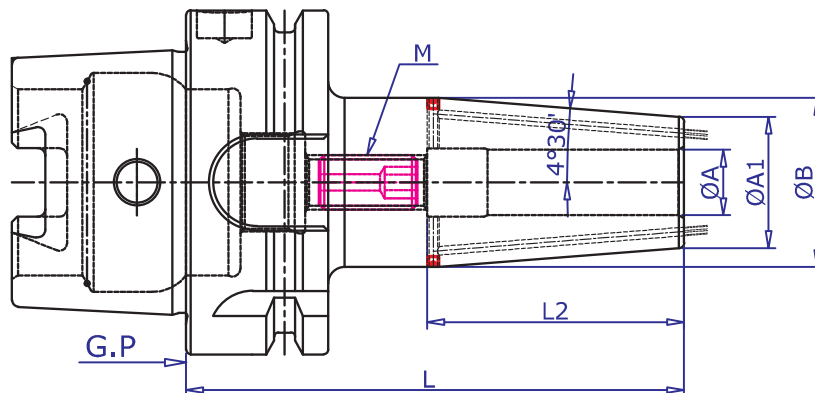
Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Tool Shank	Ø A	Ø A1	Ø B	L	L2	M
HSK-A100 SFA06 085 GP	HSK-A 100	6	21	27	85	36	M5
HSK-A100 SFA06 120 GP	HSK-A 100	6	21	27	120	36	M5
HSK-A100 SFA06 160 GP	HSK-A 100	6	21	27	160	36	M5
HSK-A100 SFA08 085 GP	HSK-A 100	8	21	27	85	36	M6
HSK-A100 SFA08 120 GP	HSK-A 100	8	21	27	120	36	M6
HSK-A100 SFA08 160 GP	HSK-A 100	8	21	27	160	36	M6
HSK-A100 SFA10 090 GP	HSK-A 100	10	24	32	90	42	M8
HSK-A100 SFA10 120 GP	HSK-A 100	10	24	32	120	42	M8
HSK-A100 SFA10 160 GP	HSK-A 100	10	24	32	160	42	M8
HSK-A100 SFA12 095 GP	HSK-A 100	12	24	32	95	47	M10
HSK-A100 SFA12 120 GP	HSK-A 100	12	24	32	120	47	M10
HSK-A100 SFA12 160 GP	HSK-A 100	12	24	32	160	47	M10
HSK-A100 SFA14 095 GP	HSK-A 100	14	27	34	95	47	M10
HSK-A100 SFA14 120 GP	HSK-A 100	14	27	34	120	47	M10
HSK-A100 SFA14 160 GP	HSK-A 100	14	27	34	160	47	M10
HSK-A100 SFA16 100 GP	HSK-A 100	16	27	34	100	50	M12
HSK-A100 SFA16 120 GP	HSK-A 100	16	27	34	120	50	M12
HSK-A100 SFA16 160 GP	HSK-A 100	16	27	34	160	50	M12
HSK-A100 SFA18 100 GP	HSK-A 100	18	33	42	100	50	M12
HSK-A100 SFA18 120 GP	HSK-A 100	18	33	42	120	50	M12
HSK-A100 SFA18 160 GP	HSK-A 100	18	33	42	160	50	M12
HSK-A100 SFA20 105 GP	HSK-A 100	20	33	42	105	52	M16
HSK-A100 SFA20 120 GP	HSK-A 100	20	33	42	120	52	M16
HSK-A100 SFA20 160 GP	HSK-A 100	20	33	42	160	52	M16
HSK-A100 SFA25 115 GP	HSK-A 100	25	44	53	115	58	M16
HSK-A100 SFA25 120 GP	HSK-A 100	25	44	53	120	58	M16
HSK-A100 SFA25 160 GP	HSK-A 100	25	44	53	160	58	M16
HSK-A100 SFA32 120 GP	HSK-A 100	32	44	53	120	58	M16
HSK-A100 SFA32 160 GP	HSK-A 100	32	44	53	160	58	M16

Ordering Example :- HSK-A100 SFA10 090 -2Nos

SHRINK FIT ADAPTOR. (Face Coolant Channel) (FCC)



Taper Angle AT3 Class

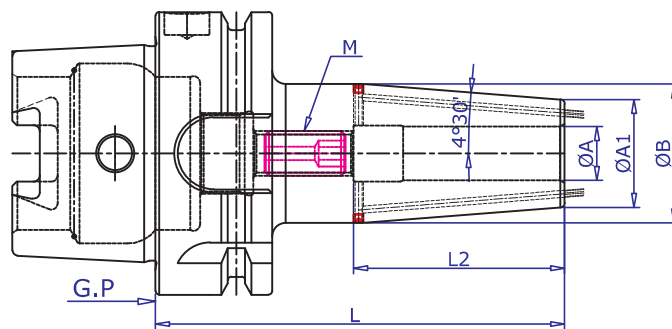
Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Tool Shank	Ø A	Ø A1	Ø B	L	L2	M
HSK-A50 SFA06 080 FCC	HSK-A 50	6	21	27	80	36	M5
HSK-A50 SFA06 120 FCC	HSK-A 50	6	21	27	120	36	M5
HSK-A50 SFA06 160 FCC	HSK-A 50	6	21	27	160	36	M5
HSK-A50 SFA08 080 FCC	HSK-A 50	8	21	27	80	36	M6
HSK-A50 SFA08 120 FCC	HSK-A 50	8	21	27	120	36	M6
HSK-A50 SFA08 160 FCC	HSK-A 50	8	21	27	160	36	M6
HSK-A50 SFA10 085 FCC	HSK-A 50	10	24	32	85	42	M8
HSK-A50 SFA10 120 FCC	HSK-A 50	10	24	32	120	42	M8
HSK-A50 SFA10 160 FCC	HSK-A 50	10	24	32	160	42	M8
HSK-A50 SFA12 090 FCC	HSK-A 50	12	24	32	90	47	M10
HSK-A50 SFA12 120 FCC	HSK-A 50	12	24	32	120	47	M10
HSK-A50 SFA12 160 FCC	HSK-A 50	12	24	32	160	47	M10
HSK-A50 SFA14 090 FCC	HSK-A 50	14	27	34	90	47	M10
HSK-A50 SFA14 120 FCC	HSK-A 50	14	27	34	120	47	M10
HSK-A50 SFA14 160 FCC	HSK-A 50	14	27	34	160	47	M10
HSK-A50 SFA16 095 FCC	HSK-A 50	16	27	34	95	50	M12
HSK-A50 SFA16 120 FCC	HSK-A 50	16	27	34	120	50	M12
HSK-A50 SFA16 160 FCC	HSK-A 50	16	27	34	160	50	M12
HSK-A50 SFA18 095 FCC	HSK-A 50	18	33	42	95	50	M12
HSK-A50 SFA18 120 FCC	HSK-A 50	18	33	42	120	50	M12
HSK-A50 SFA18 160 FCC	HSK-A 50	18	33	42	160	50	M12
HSK-A50 SFA20 100 FCC	HSK-A 50	20	33	42	100	52	M16
HSK-A50 SFA20 120 FCC	HSK-A 50	20	33	42	120	52	M16
HSK-A50 SFA20 160 FCC	HSK-A 50	20	33	42	160	52	M16

Ordering Example :- HSK-A50 SFA10 085 FCC -2Nos

SHRINK FIT ADAPTOR.(Face Coolant Channel) (FCC)



Taper Angle AT3 Class

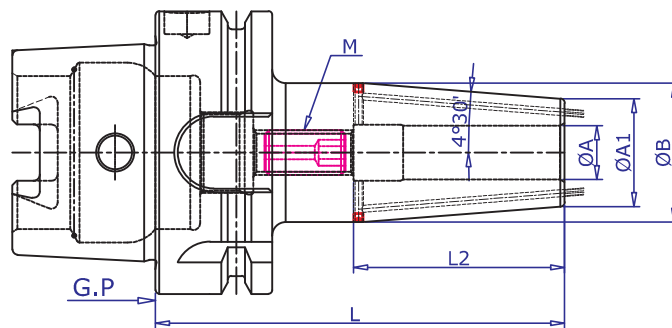
Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Tool Shank	Ø A	Ø A1	Ø B	L	L2	M
HSK-A63 SFA06 080 FCC	HSK-A 63	6	21	27	80	36	M5
HSK-A63 SFA06 120 FCC	HSK-A 63	6	21	27	120	36	M5
HSK-A63 SFA06 160 FCC	HSK-A 63	6	21	27	160	36	M5
HSK-A63 SFA08 080 FCC	HSK-A 63	8	21	27	80	36	M6
HSK-A63 SFA08 120 FCC	HSK-A 63	8	21	27	120	36	M6
HSK-A63 SFA08 160 FCC	HSK-A 63	8	21	27	160	36	M6
HSK-A63 SFA10 085 FCC	HSK-A 63	10	24	32	85	42	M8
HSK-A63 SFA10 120 FCC	HSK-A 63	10	24	32	120	42	M8
HSK-A63 SFA10 160 FCC	HSK-A 63	10	24	32	160	42	M8
HSK-A63 SFA12 090 FCC	HSK-A 63	12	24	32	90	47	M10
HSK-A63 SFA12 120 FCC	HSK-A 63	12	24	32	120	47	M10
HSK-A63 SFA12 160 FCC	HSK-A 63	12	24	32	160	47	M10
HSK-A63 SFA14 090 FCC	HSK-A 63	14	27	34	90	47	M10
HSK-A63 SFA14 120 FCC	HSK-A 63	14	27	34	120	47	M10
HSK-A63 SFA14 160 FCC	HSK-A 63	14	27	34	160	47	M10
HSK-A63 SFA16 095 FCC	HSK-A 63	16	27	34	95	50	M12
HSK-A63 SFA16 120 FCC	HSK-A 63	16	27	34	120	50	M12
HSK-A63 SFA16 160 FCC	HSK-A 63	16	27	34	160	50	M12
HSK-A63 SFA18 095 FCC	HSK-A 63	18	33	42	95	50	M12
HSK-A63 SFA18 120 FCC	HSK-A 63	18	33	42	120	50	M12
HSK-A63 SFA18 160 FCC	HSK-A 63	18	33	42	160	50	M12
HSK-A63 SFA20 100 FCC	HSK-A 63	20	33	42	100	52	M16
HSK-A63 SFA20 120 FCC	HSK-A 63	20	33	42	120	52	M16
HSK-A63 SFA20 160 FCC	HSK-A 63	20	33	42	160	52	M16
HSK-A63 SFA25 115 FCC	HSK-A 63	25	44	53	115	58	M16
HSK-A63 SFA25 120 FCC	HSK-A 63	25	44	53	120	58	M16
HSK-A63 SFA25 160 FCC	HSK-A 63	25	44	53	160	58	M16
HSK-A63 SFA32 120 FCC	HSK-A 63	32	44	53	120	58	M16
HSK-A63 SFA32 160 FCC	HSK-A 63	32	44	53	160	58	M16

Ordering Example :- HSK-A63 SFA10 085 FCC -2Nos

SHRINK FIT ADAPTOR. (Face Coolant Channel) (FCC)



Taper Angle AT3 Class

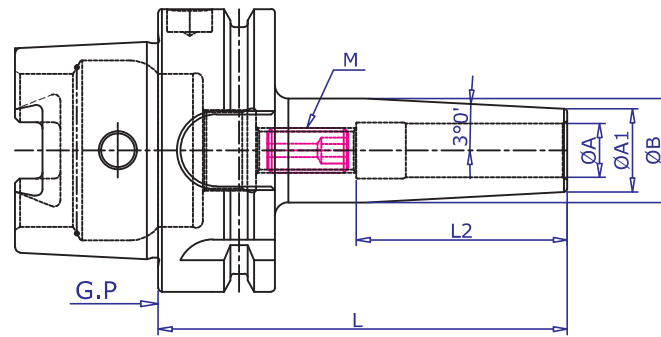
Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Tool Shank	Ø A	Ø A1	Ø B	L	L2	M
HSK-A100 SFA06 085 FCC	HSK-A 100	6	21	27	85	36	M5
HSK-A100 SFA06 120 FCC	HSK-A 100	6	21	27	120	36	M5
HSK-A100 SFA06 160 FCC	HSK-A 100	6	21	27	160	36	M5
HSK-A100 SFA08 085 FCC	HSK-A 100	8	21	27	85	36	M6
HSK-A100 SFA08 120 FCC	HSK-A 100	8	21	27	120	36	M6
HSK-A100 SFA08 160 FCC	HSK-A 100	8	21	27	160	36	M6
HSK-A100 SFA10 090 FCC	HSK-A 100	10	24	32	90	42	M8
HSK-A100 SFA10 120 FCC	HSK-A 100	10	24	32	120	42	M8
HSK-A100 SFA10 160 FCC	HSK-A 100	10	24	32	160	42	M8
HSK-A100 SFA12 095 FCC	HSK-A 100	12	24	32	95	47	M10
HSK-A100 SFA12 120 FCC	HSK-A 100	12	24	32	120	47	M10
HSK-A100 SFA12 160 FCC	HSK-A 100	12	24	32	160	47	M10
HSK-A100 SFA14 095 FCC	HSK-A 100	14	27	34	95	47	M10
HSK-A100 SFA14 120 FCC	HSK-A 100	14	27	34	120	47	M10
HSK-A100 SFA14 160 FCC	HSK-A 100	14	27	34	160	47	M10
HSK-A100 SFA16 100 FCC	HSK-A 100	16	27	34	100	50	M12
HSK-A100 SFA16 120 FCC	HSK-A 100	16	27	34	120	50	M12
HSK-A100 SFA16 160 FCC	HSK-A 100	16	27	34	160	50	M12
HSK-A100 SFA18 100 FCC	HSK-A 100	18	33	42	100	50	M12
HSK-A100 SFA18 120 FCC	HSK-A 100	18	33	42	120	50	M12
HSK-A100 SFA18 160 FCC	HSK-A 100	18	33	42	160	50	M12
HSK-A100 SFA20 105 FCC	HSK-A 100	20	33	42	105	52	M16
HSK-A100 SFA20 120 FCC	HSK-A 100	20	33	42	120	52	M16
HSK-A100 SFA20 160 FCC	HSK-A 100	20	33	42	160	52	M16
HSK-A100 SFA25 115 FCC	HSK-A 100	25	44	53	115	58	M16
HSK-A100 SFA25 120 FCC	HSK-A 100	25	44	53	120	58	M16
HSK-A100 SFA25 160 FCC	HSK-A 100	25	44	53	160	58	M16
HSK-A100 SFA32 120 FCC	HSK-A 100	32	44	53	120	58	M16
HSK-A100 SFA32 160 FCC	HSK-A 100	32	44	53	160	58	M16

Ordering Example :- HSK-A100 SFA20 105 FCC -2Nos

SHRINK FIT ADAPTOR. (SFA Slim Line)



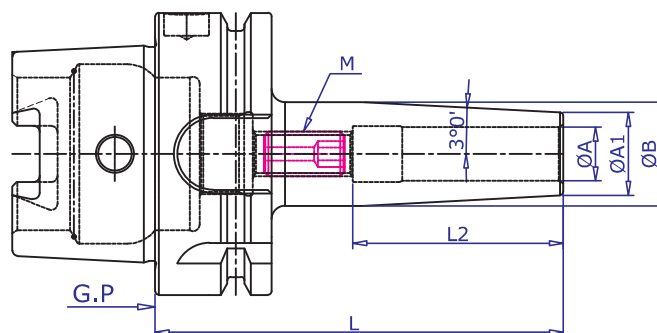
Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Tool Shank	Ø A	Ø A1	Ø B	L	L2	M
HSK-A63 SFA06 080 Slim	HSK-A 63	6	12	17	80	36	M5
HSK-A63 SFA06 120 Slim	HSK-A 63	6	12	21	120	36	M5
HSK-A63 SFA06 160 Slim	HSK-A 63	6	12	25	160	36	M5
HSK-A63 SFA08 080 Slim	HSK-A 63	8	14	19	80	36	M6
HSK-A63 SFA08 120 Slim	HSK-A 63	8	14	23	120	36	M6
HSK-A63 SFA08 160 Slim	HSK-A 63	8	14	27	160	36	M6
HSK-A63 SFA10 085 Slim	HSK-A 63	10	16	21.5	85	42	M8
HSK-A63 SFA10 120 Slim	HSK-A 63	10	16	25	120	42	M8
HSK-A63 SFA10 160 Slim	HSK-A 63	10	16	29	160	42	M8
HSK-A63 SFA12 090 Slim	HSK-A 63	12	18	24	90	47	M10
HSK-A63 SFA12 120 Slim	HSK-A 63	12	18	27	120	47	M10
HSK-A63 SFA12 160 Slim	HSK-A 63	12	18	31	160	47	M10
HSK-A63 SFA14 090 Slim	HSK-A 63	14	20	26	90	47	M10
HSK-A63 SFA14 120 Slim	HSK-A 63	14	20	29	120	47	M10
HSK-A63 SFA14 160 Slim	HSK-A 63	14	20	32	160	47	M10
HSK-A63 SFA16 095 Slim	HSK-A 63	16	22	28	95	50	M12
HSK-A63 SFA16 120 Slim	HSK-A 63	16	22	31	120	50	M12
HSK-A63 SFA16 160 Slim	HSK-A 63	16	22	34	160	50	M12
HSK-A63 SFA18 095 Slim	HSK-A 63	18	24	30	95	50	M12
HSK-A63 SFA18 120 Slim	HSK-A 63	18	24	33	120	50	M12
HSK-A63 SFA18 160 Slim	HSK-A 63	18	24	36	160	50	M12
HSK-A63 SFA20 100 Slim	HSK-A 63	20	26	32	100	52	M16
HSK-A63 SFA20 120 Slim	HSK-A 63	20	26	35	120	52	M16
HSK-A63 SFA20 160 Slim	HSK-A 63	20	26	38	160	52	M16

Ordering Example :- HSK-A63 SFA10 085 Slim -2Nos



Taper Angle AT3 Class

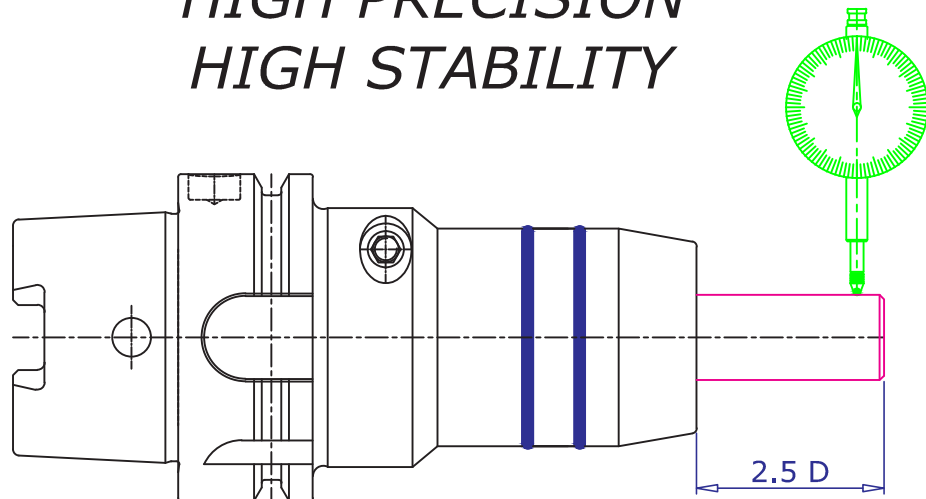
Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Tool Shank	Ø A	Ø A1	Ø B	L	L2	M
HSK-A100 SFA06 085 Slim	HSK-A 100	6	12	17	85	36	M5
HSK-A100 SFA06 120 Slim	HSK-A 100	6	12	20.5	120	36	M5
HSK-A100 SFA06 160 Slim	HSK-A 100	6	12	24	160	36	M5
HSK-A100 SFA08 085 Slim	HSK-A 100	8	14	19	85	36	M6
HSK-A100 SFA08 120 Slim	HSK-A 100	8	14	22.5	120	36	M6
HSK-A100 SFA08 160 Slim	HSK-A 100	8	14	27	160	36	M6
HSK-A100 SFA10 090 Slim	HSK-A 100	10	16	21.5	90	42	M8
HSK-A100 SFA10 120 Slim	HSK-A 100	10	16	24.5	120	42	M8
HSK-A100 SFA10 160 Slim	HSK-A 100	10	16	29	160	42	M8
HSK-A100 SFA12 095 Slim	HSK-A 100	12	18	24	95	47	M10
HSK-A100 SFA12 120 Slim	HSK-A 100	12	18	26.5	120	47	M10
HSK-A100 SFA12 160 Slim	HSK-A 100	12	18	31	160	47	M10
HSK-A100 SFA14 095 Slim	HSK-A 100	14	20	26	95	47	M10
HSK-A100 SFA14 120 Slim	HSK-A 100	14	20	29	120	47	M10
HSK-A100 SFA14 160 Slim	HSK-A 100	14	20	32	160	47	M10
HSK-A100 SFA16 100 Slim	HSK-A 100	16	22	29	100	50	M12
HSK-A100 SFA16 120 Slim	HSK-A 100	16	22	31	120	50	M12
HSK-A100 SFA16 160 Slim	HSK-A 100	16	22	35	160	50	M12
HSK-A100 SFA18 100 Slim	HSK-A 100	18	24	30	100	50	M12
HSK-A100 SFA18 120 Slim	HSK-A 100	18	24	33	120	50	M12
HSK-A100 SFA18 160 Slim	HSK-A 100	18	24	36	160	50	M12
HSK-A100 SFA20 105 Slim	HSK-A 100	20	26	32	105	52	M16
HSK-A100 SFA20 120 Slim	HSK-A 100	20	26	35	120	52	M16
HSK-A100 SFA20 160 Slim	HSK-A 100	20	26	38	160	52	M16

Ordering Example :- HSK-A100 SFA12 095 Slim -2Nos

HIGH PRECISION HIGH STABILITY



*Permanent run-out and repeat accuracy
of less than
0.003mm (2.5 D)*

●Feature and benefits●

Application

For Milling, Drilling and Reamers Work.

Advanced Hydraulic Clamping.

Tool life improvement up to 50%
Improved roughness of processed products

G2.5 at 20,000 RPM Balance of Quality

Increase productivity with high cutting speed.

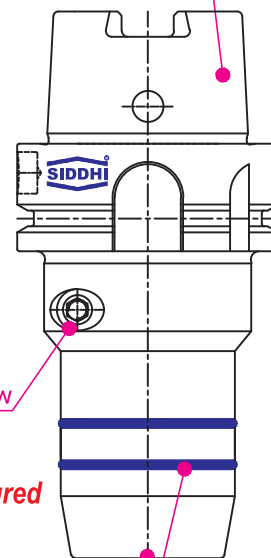
Easy Clamping / Unclamping

Leak-proof clamping system.
Reliable consistent clamping.
No Over torque.
No required torque wrench.

Piston and Clamping Screw
in The Sealing Structure

With One Year Warranty Assured

(DIN 69893-1)
HSK-Taper Shank
AT-3 Class



Internal Diameter
Groove Design

Two Anti-Slip Rings
Prevents Sliding Accident.

Clamping Screw torque Values	
Clamping dia. (mm)	Min.transferable torque moment (Nm)
6	12
8	20
10	40
12	70
14	100
16	150
18	210
20	250
25	420
32	800

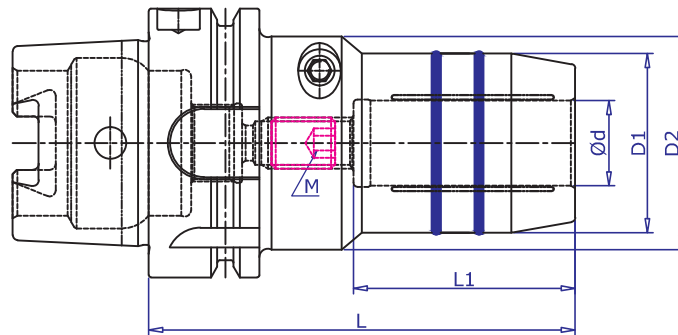


KEY



Reduction Sleeve

HYDRAULIC CHUCK



Taper Angle AT3 Class

- * Tool shank quality h6
- * Hydro-sleeve is ordered separately.
- * Tighten the pressure screw until fully engaged.
- * Additional sizes and special designs available on request.

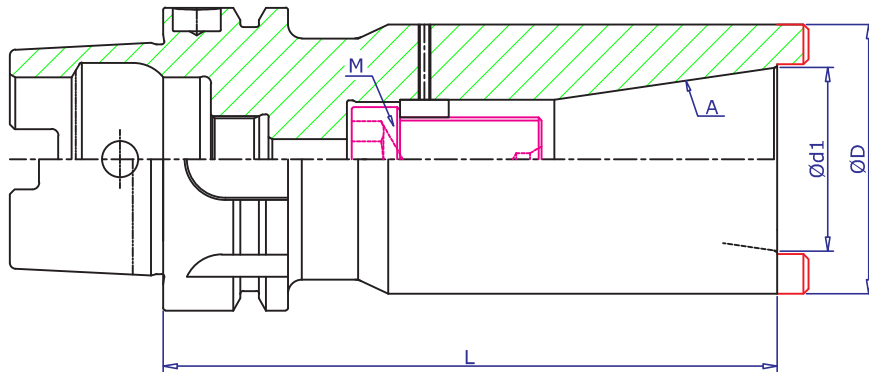
Maximum runout of MOUNTING taper to INTERNAL dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Availability :- ● Stock ○ 08-10 Weeks

	Item Description	Tool Shank	Ø d	Ø D1	Ø D2	L	L1	M
○	HSK-A50 SHC 06 080G.P	HSK-A 50	6	26	50	80	38	M5
○	HSK-A50 SHC 08 080G.P	HSK-A 50	8	28	50	80	38	M6
○	HSK-A50 SHC 10 085G.P	HSK-A 50	10	30	50	85	40	M6
●	HSK-A50 SHC 12 090G.P	HSK-A 50	12	32	50	90	45	M6
○	HSK-A63 SHC 06 080G.P	HSK-A 63	6	26	50	80	38	M5
○	HSK-A63 SHC 08 080G.P	HSK-A 63	8	28	50	80	38	M6
○	HSK-A63 SHC 10 085G.P	HSK-A 63	10	30	50	85	40	M6
○	HSK-A63 SHC 12 090G.P	HSK-A 63	12	32	50	90	45	M6
○	HSK-A63 SHC 14 090G.P	HSK-A 63	14	34	50	90	45	M6
○	HSK-A63 SHC 16 095G.P	HSK-A 63	16	38	50	95	50	M8
○	HSK-A63 SHC 18 095G.P	HSK-A 63	18	40	50	95	52	M8
●	HSK-A63 SHC 20 100G.P	HSK-A 63	20	42	50	100	52	M8
○	HSK-A63 SHC 25 105G.P	HSK-A 63	25	53	---	105	59	M16
○	HSK-A63 SHC 32 125G.P	HSK-A 63	32	60	---	125	60	M16
○	HSK-A100 SHC 06 085G.P	HSK-A 100	6	26	50	85	38	M5
○	HSK-A100 SHC 08 085G.P	HSK-A 100	8	28	50	85	38	M6
○	HSK-A100 SHC 10 090G.P	HSK-A 100	10	30	50	90	40	M6
●	HSK-A100 SHC 12 095G.P	HSK-A 100	12	32	50	95	45	M6
○	HSK-A100 SHC 14 095G.P	HSK-A 100	14	34	50	95	45	M6
○	HSK-A100 SHC 16 100G.P	HSK-A 100	16	38	50	100	50	M8
○	HSK-A100 SHC 18 100G.P	HSK-A 100	18	40	50	100	52	M8
●	HSK-A100 SHC 20 105G.P	HSK-A 100	20	42	50	105	52	M8
○	HSK-A100 SHC 25 115G.P	HSK-A 100	25	53	---	105	59	M16
○	HSK-A100 SHC 32 120G.P	HSK-A 100	32	60	---	125	60	M16

REDUCTION SLEEVE



Taper Angle AT3 Class

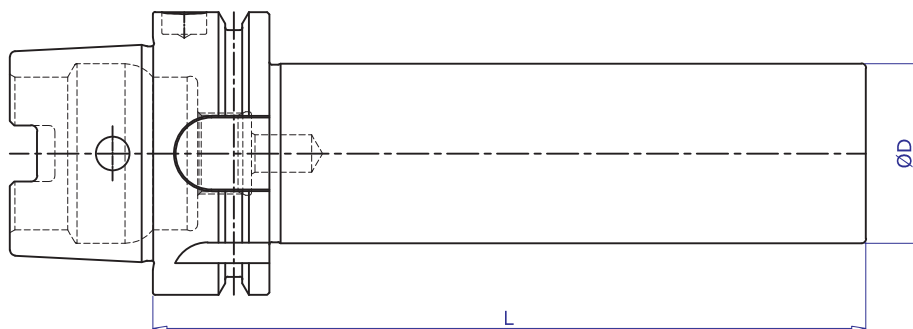
Maximum runout of MOUNTING taper to INTERNAL dia 0.005mm

Balancing GRADE:- G6.3 /20,000 rev./min STD.

Item Description	Tool Shank	Ød1	ØD	A	L	M
HSK-A100 To BT40 Reduction Sleeve	HSK-A-100	44.45	63.0	7/24	150.0	M16
HSK-A100 To SK40 Reduction Sleeve	HSK-A-100	44.45	63.0	7/24	150.0	M16
HSK-A100 To BT50 Reduction Sleeve	HSK-A-100	69.85	97.0	7/24	205.0	M24
HSK-A100 To SK50 Reduction Sleeve	HSK-A-100	69.85	97.0	7/24	205.0	M24

Ordering Example :- HSK-100 TO BT40 SLEEVE - 2 Nos.

MASTER MANDRELL



Taper Angle AT3 Class

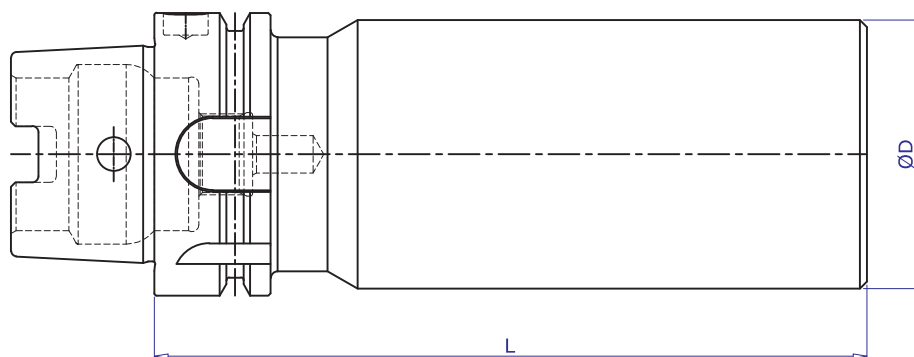
Master Mandrels According To DIN 63893.1 STD
Runout Max .0.005 Taper w.r.t plane Dia.At L

Note :- To Be Vertically Stored.
Supplied In Wooden Box.

TOOL SHANK	Ø D	L
HSK-A50	32	200
HSK-A63	40	300
HSK-A100	50	300

Ordering Example :- MASTER MANDREL HSK63 Ø40X300 -2 Nos

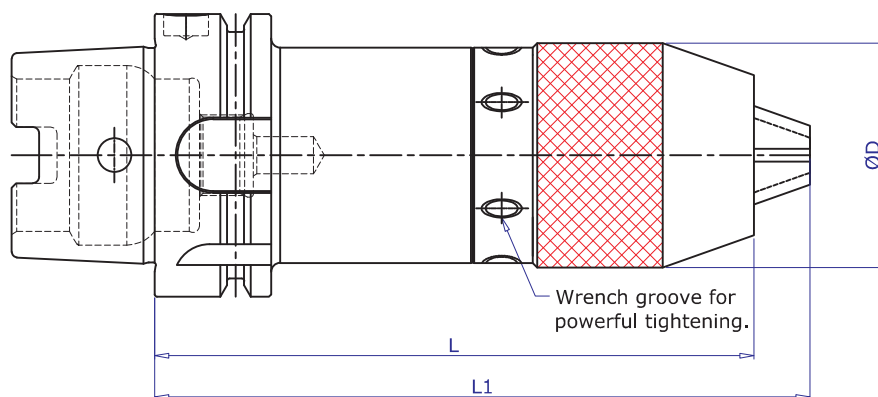
BORING BAR BLANK



Taper Angle AT3 Class

TOOL SHANK	ØD	L
HSK-A50 / HSK-A63 / HSK-A100 BORING BAR BLANK	AS PER CUSTOMER REQUIREMENT	

SIDDHI DRILL CHUCK (NCDC)



Taper Angle AT3 Class

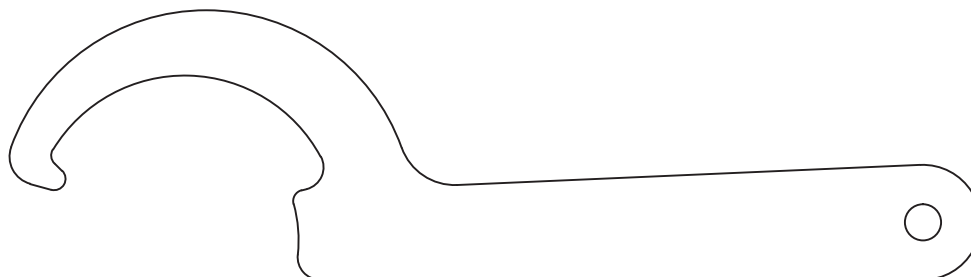
Item Description	Chuck Capacity	ϕD	L	L1
HSK-A 50 X NCDC 113	1.0 TO 13.0	50	125	137.5
HSK-A 63 X NCDC 113	1.0 TO 13.0	50	122.5	135
HSK-A100 X NCDC 113	1.0 TO 13.0	50	146	158.5

Ordering Example :- SNCDC113 X HSK-A 50 -2 Nos

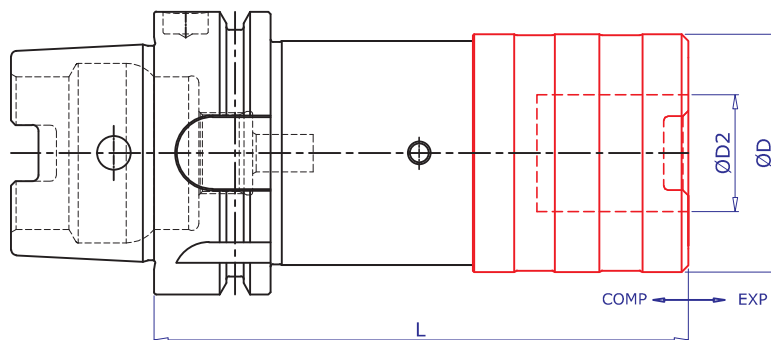
COMPARISON DATA OF DRILL CHUCK TIGHTENING TORQUE

Type of Drill Chuck	Method of Tightening	Twisting Moment	Comparison %
SDC 113	By Hand	6.9 Nm	100
NCDC 113	By Wrench	21.8 Nm	300

NC SDC Wrench.



QUICK CHANGE TAPPING CHUCK (SWFLK) Type SWFLK / HSK-A / DIN 69893-1

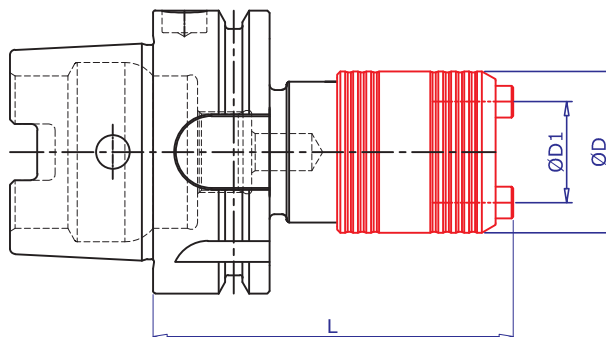


Taper Angle AT3 Class

Item Description	Chuck Capacity	Suitable Adaptor	Ø D2	Ø D	L	Length Comp. (mm)	
						Expn.	Compr.
SWFLK1 HSK A-50	M3 TO M12	SWES1B / SWE1	19	36	102	7.5	7.5
SWFLK2 HSK A-50	M8 TO M20	SWES2B / SWE2	31	53	136	12.5	12.5
SWFLK1 HSK A-63	M3 TO M12	SWES1B / SWE1	19	36	102	7.5	7.5
SWFLK2 HSK A-63	M8 TO M20	SWES2B / SWE2	31	53	145	12.5	12.5
SWFLK3 HSK A-63	M14 TO M33	SWES3B / SWE3	48	78	215	20.0	20.0
SWFLK1 HSK A-100	M3 TO M12	SWES1B / SWE1	19	36	112	7.5	7.5
SWFLK2 HSK A-100	M8 TO M20	SWES2B / SWE2	31	53	153	12.5	12.5
SWFLK3 HSK A-100	M14 TO M33	SWES3B / SWE3	48	78	215	20.0	20.0

Ordering Example :- SWFLK-2 / HSK-A63 -2 Nos

RIGID TAPPING CHUCK SQ # / HSK-A / DIN-69893-1



Taper Angle AT3 Class

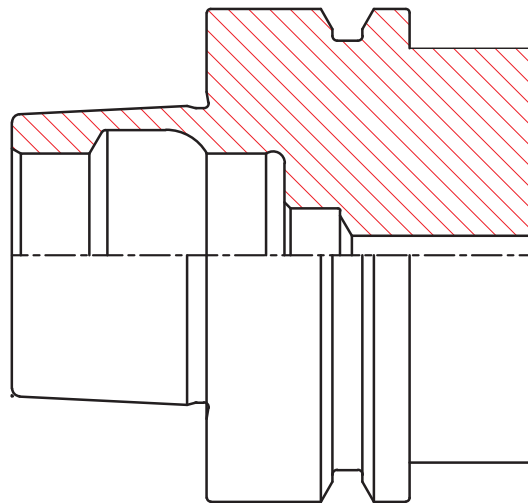
(No Compression & No Expansion)

Item Description	Chuck Capacity	Suitable Adaptor	Ø D1	Ø D	L
SQ-1 HSK A-50	M3 TO M12	SWE1/SWES1B	19	32	80
SQ-2 HSK A-50	M8 TO M20	SWE2/SWES2B	31	50	100
SQ-1 HSK A-63	M3 TO M12	SWE1/SWES1B	19	32	85
SQ-2 HSK A-63	M5 TO M20	SWE2/SWES2B	31	50	100
SQ-1 HSK A-100	M3 TO M12	SWE1/SWES1B	19	32	90
SQ-2 HSK A-100	M5 TO M20	SWE2/SWES2B	31	50	110

Ordering Example :- QC-2 / HSK63 -2 Nos

NOTE:- FOR TAP ADAPTORS AND TAP TECHNICAL SPECIFICATION PLEASE REFER PAGE NO. 164, 165, 166, 167

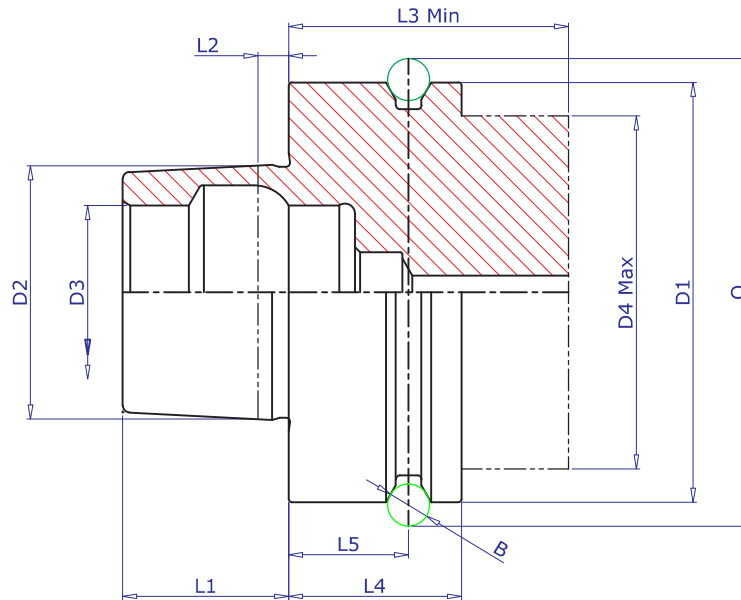
Precision Tool Holder HSK-F (DIN 69893-6)



● INDEX ●

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HSK-F TOOL SHANK Technical Information

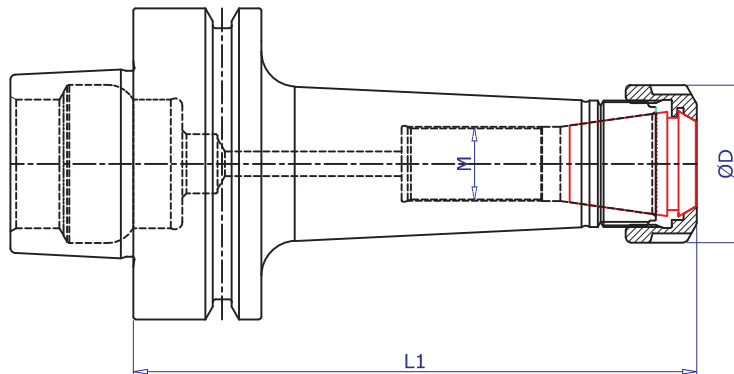


Taper Angle AT3 Class

TOOL SHANK	D1	D2	D3	D4	L1	L2	L3	L4	L5	O	B
63	63.0	38.0	26.0	53.0	25.0	5.0	42.0	26.0	18.0	72.3	7.0

All HSK Tool holders are Manufactured according to Din 69893-6 FORM F
Balanced to G6.3-25,000 RPM.

COLLET CHUCKS ER TYPE (DIN 6499) FOR PARALLEL SHANK TOOLS



Taper Angle AT3 Class

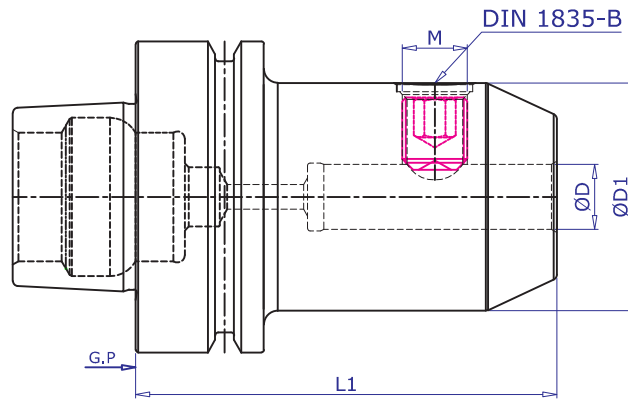
Maximum runout of MOUNTING taper to INTERNAL taper 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Suitable For Collet	Collet Calmping Capacity	L1	M	Nut		Spanner Description
					Ø D	Description	
HSK-63F ER16 060G.P	ER16	0.5-10	60	M10X1P	28.0	UM/ER16	GS25
HSK-63F ER16 100G.P	ER16	0.5-10	100	M10X1P	28.0	UM/ER16	GS25
HSK-63F ER16 160G.P	ER16	0.5-10	160	M10X1P	28.0	UM/ER16	GS25
HSK-63F ER25 075G.P	ER 25	1.0-16	75	M18X1P	42.0	UM/ER25	E25
HSK-63F ER25 100G.P	ER 25	1.0-16	100	M18X1P	42.0	UM/ER25	E25
HSK-63F ER25 160G.P	ER 25	1.0-16	160	M18X1P	42.0	UM/ER25	E25
HSK-63F ER32 075G.P	ER 32	2.0-20	75	M22X1.5P	50.0	UM/ER32	E32
HSK-63F ER32 100G.P	ER 32	2.0-20	100	M22X1.5P	50.0	UM/ER32	E32
HSK-63F ER32 160G.P	ER 32	2.0-20	160	M22X1.5P	50.0	UM/ER32	E32
HSK-63F ER40 075G.P	ER 40	3.0-26	75	M30X1.5P	63.0	UM/ER40	E40
HSK-63F ER40 100G.P	ER 40	3.0-26	100	M30X1.5P	63.0	UM/ER40	E40
HSK-63F ER40 160G.P	ER 40	3.0-26	160	M30X1.5P	63.0	UM/ER40	E40

Ordering Example :- HSK-F 63 ER16 100G.P -2 Nos

WELDON TYPE END MILL ADAPTOR (WE) (DIN 1835-B)



Taper Angle AT3 Class

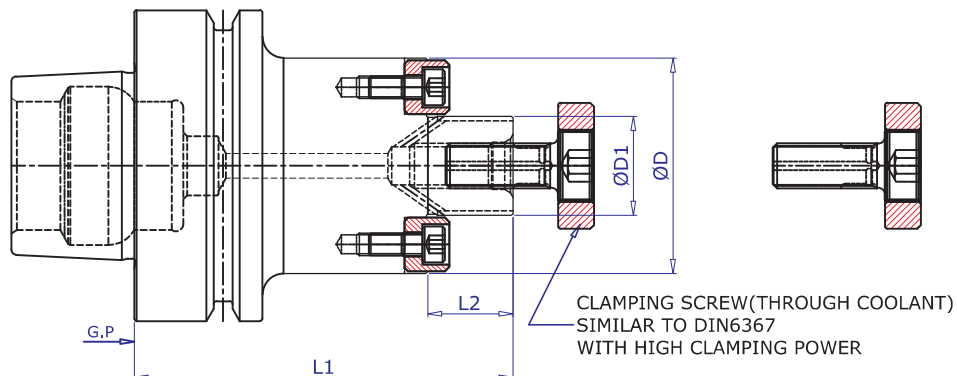
Maximum runout of MOUNTING taper to INTERNAL dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Ø D H5	L1	Ø D1	M
HSK-63F WE06 065G.P	6	65	25	M6
HSK-63F WE08 065G.P	8	65	28	M8
HSK-63F WE10 065G.P	10	65	35	M10
HSK-63F WE12 080GP	12	80	42	M12
HSK-63F WE14 080G.P	14	80	44	M12
HSK-63F WE16 080G.P	16	80	48	M14
HSK-63F WE18 080G.P	18	80	50	M14
HSK-63F WE20 080G.P	20	80	52	M16
HSK-63F WE25 110G.P	25	110	65	M18X2
HSK-63F WE32 110G.P	32	110	72	M20X2

Ordering Example :- HSK-F 63 WN06 065 G.P -2 Nos

FACE MILL HOLDERS TENON DRIVER THROUGH COOLANT) DIN6357 (FMH-K)



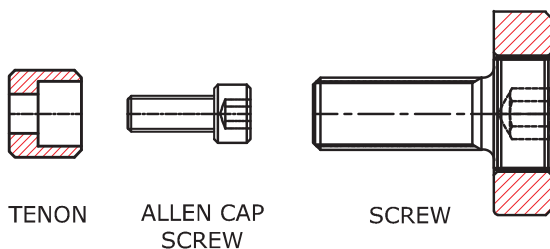
Taper Angle AT3 Class

Maximum runout of MOUNTING taper to LOCATING Ø 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

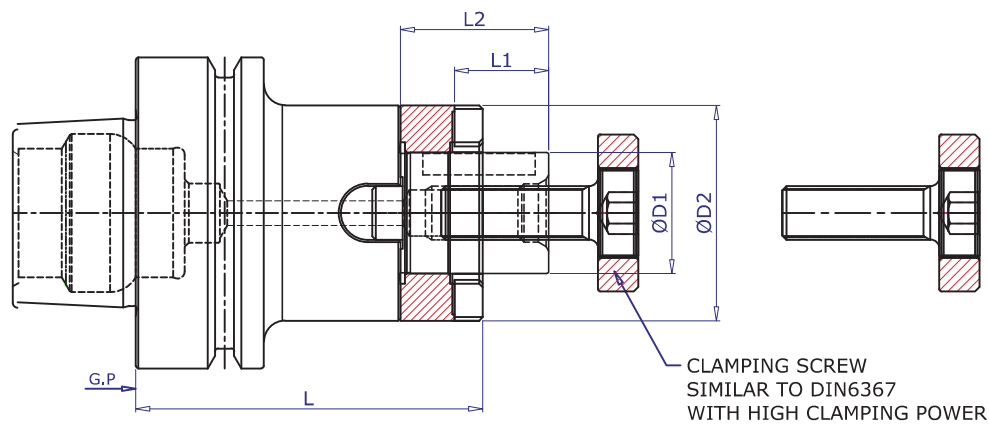
Item Description	Ø D1 h6	L1	Ø D	L2
HSK-63F FMH-K16 045G.P	16	45	38	17
HSK-63F FMH-K16 100G.P	16	100	38	17
HSK-63F FMH-K22 050G.P	22	50	48	19
HSK-63F FMH-K22 100G.P	22	100	48	19
HSK-63F FMH-K27 055G.P	27	55	58	21
HSK-63F FMH-K27 100G.P	27	100	58	21
HSK-63F FMH-K32 060G.P	32	60	78	24
HSK-63F FMH-K32 100G.P	32	100	78	24
HSK-63F FMH-K40 065G.P	40	65	88	27
HSK-63F FMH-K40 100G.P	40	100	88	27

Ordering Example :- HSK-F 63 FMH-K 16 045G.P -2 Nos



D	SCREW	TENON	ALLEN CAP SCREW
16	SCR16 X M8	8	M4
22	SCR22 X M10	10	M5
27	SCR27 X M12	12	M5
32	SCR32 X M16	14	M6
40	SCR40 X M20	16	M6

COMBI SHEEL MILL ADAPTOR DIN 6358 (CSMA)



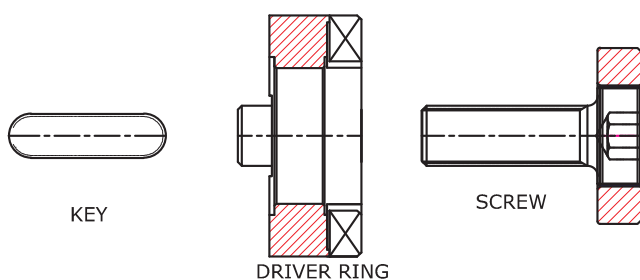
Taper Angle AT3 Class

Maximum runout of MOUNTING taper to LOCATING Ø 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

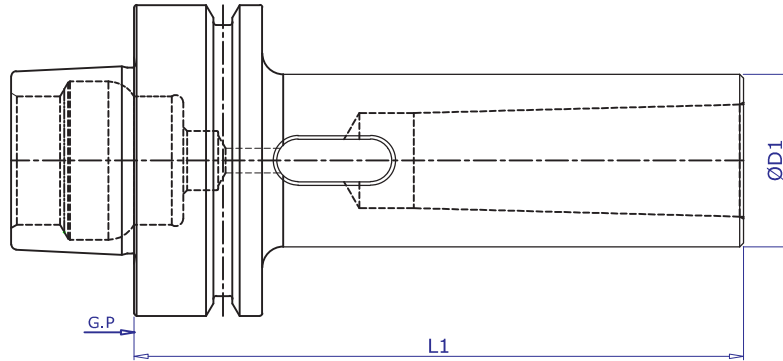
Item Description	Ø D1 h6	L	L1	L2	Ø D2
HSK-63F CSMA16 060G.P	16	60	17	27	32
HSK-63F CSMA22 060G.P	22	60	19	31	40
HSK-63F CSMA27 060G.P	27	60	21	33	48
HSK-63F CSMA32 065G.P	32	65	24	38	58
HSK-63F CSMA40 070G.P	40	70	27	41	70

Ordering Example :- HSK-F 63 CSMA16 060G.P -2 Nos



D	DRIVER RING	SCREW	KEY W X L
16	DR16 X 10	SCR16 X M8	Key 4 x 20
22	DR22 X 12	SCR22 X M10	Key 6 x 25
27	DR27 X 12	SCR27 X M12	Key 7 x 25
32	DR32 X 14	SCR32 X M16	Key 8 x30
40	DR40 X 14	SCR40 X M20	Key 10 x30

MORSE TAPER ADAPTOR SHANK (TANGED) DIN 228-2 FORM B



Taper Angle AT3 Class

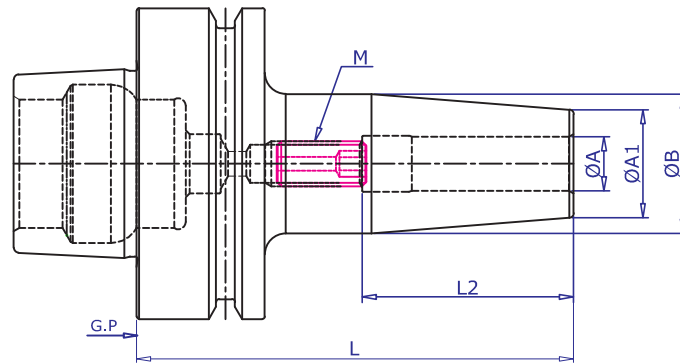
Maximum runout of MOUNTING taper to INTERNAL taper 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	Morse Taper (T)	D1	L1
HSK-63F MT01 100G.P	1	25	100
HSK-63F MT02 120G.P	2	32	120
HSK-63F MT03 140G.P	3	40	140
HSK-63F MT04 160G.P	4	48	160

Ordering Example :- HSK-F 63 MTA1 100G.P -2 Nos

SHRINK FIT ADAPTOR.



Taper Angle AT3 Class

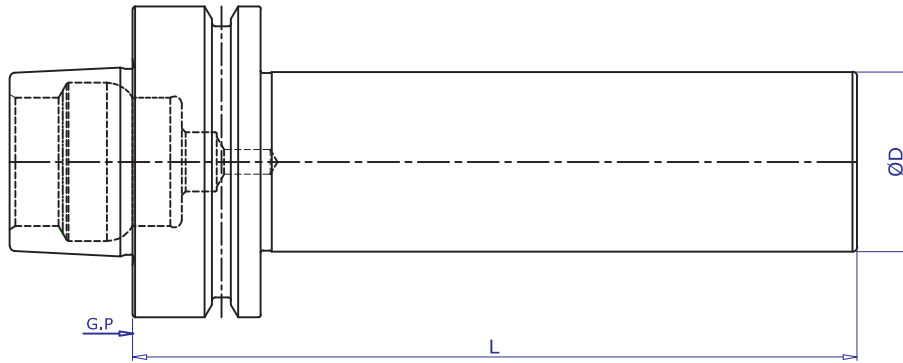
Maximum runout of MOUNTING taper to INTERNAL Dia 0.003mm

Balancing GRADE:- G2.5 /25,000 rev./min STD.

Item Description	TOOL SHANK	ØA	ØA1	ØB	L	L2	M
HSK-63F SFA06 080 G.P	HSK-F63	6	21	27	80	36	M5
HSK-63F SFA06 120 G.P	HSK-F63	6	21	27	120	36	M5
HSK-63F SFA06 160 G.P	HSK-F63	6	21	27	160	36	M5
HSK-63F SFA08 080 G.P	HSK-F63	8	21	27	80	36	M6
HSK-63F SFA08 120 G.P	HSK-F63	8	21	27	120	36	M6
HSK-63F SFA08 160 G.P	HSK-F63	8	21	27	160	36	M6
HSK-63F SFA10 085 G.P	HSK-F63	10	24	31	85	42	M8
HSK-63F SFA10 120 G.P	HSK-F63	10	24	31	120	42	M8
HSK-63F SFA10 160 G.P	HSK-F63	10	24	31	160	42	M8
HSK-63F SFA12 090 G.P	HSK-F63	12	24	31	90	47	M10
HSK-63F SFA12 120 G.P	HSK-F63	12	24	31	120	47	M10
HSK-63F SFA12 160 G.P	HSK-F63	12	24	31	160	47	M10
HSK-63F SFA14 090 G.P	HSK-F63	14	27	34	90	47	M10
HSK-63F SFA14 120 G.P	HSK-F63	14	27	34	120	47	M10
HSK-63F SFA14 160 G.P	HSK-F63	14	27	34	160	47	M10
HSK-63F SFA16 095 G.P	HSK-F63	16	27	34	95	50	M12
HSK-63F SFA16 120 G.P	HSK-F63	16	27	34	120	50	M12
HSK-63F SFA16 160 G.P	HSK-F63	16	27	34	160	50	M12
HSK-63F SFA18 095 G.P	HSK-F63	18	33	40	95	50	M12
HSK-63F SFA18 120 G.P	HSK-F63	18	33	40	120	50	M12
HSK-63F SFA18 160 G.P	HSK-F63	18	33	40	160	50	M12
HSK-63F SFA20 100 G.P	HSK-F63	20	33	40	100	52	M16
HSK-63F SFA20 120 G.P	HSK-F63	20	33	40	120	52	M16
HSK-63F SFA20 160 G.P	HSK-F63	20	33	40	160	52	M16
HSK-63F SFA25 120 G.P	HSK-F63	25	44	53	120	58	M16
HSK-63F SFA25 160 G.P	HSK-F63	25	44	53	160	58	M16
HSK-63F SFA32 120 G.P	HSK-F63	32	44	53	120	58	M16
HSK-63F SFA32 160 G.P	HSK-F63	32	44	53	160	58	M16

Ordering Example :- HSK-F50 SFA10 085 -2Nos

MASTER MANDRELL



Master Mandrels According To DIN 63893.6 STD
Runout Max .0.005 Taper w.r.t plane Dia.At L

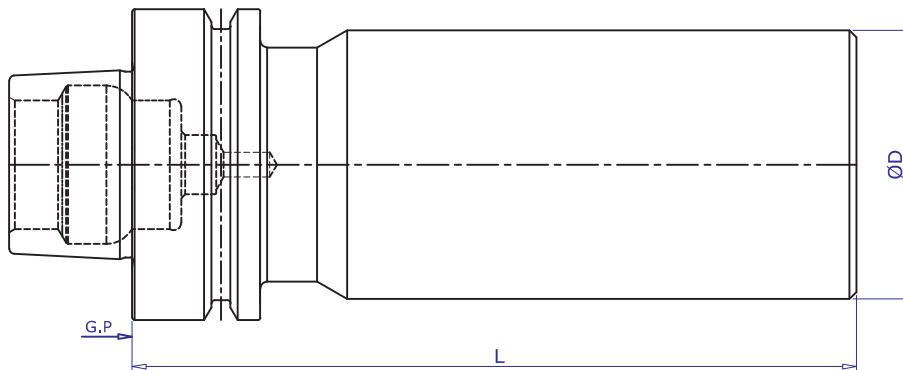
Note :- To Be Vertically Stored.
Supplied In Wooden Box.

Taper Angle AT3 Class

TOOL SHANK	ØD	L
HSK-F63 MASTER MANDREL	40	300

Ordering Example :- MASTER MANDREL HSK-F63 Ø40X300 -2 Nos

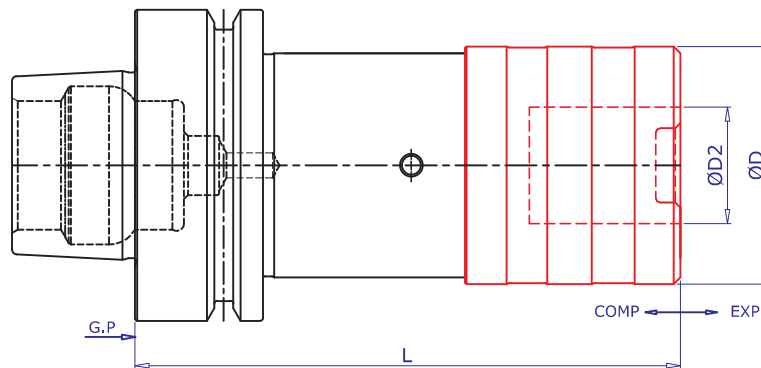
BORING BAR BLANK



Taper Angle AT3 Class

TOOL SHANK	ØD	L
HSK-63F BORING BAR BLANK	AS PER CUSTOMER REQUIREMENT	

QUICK CHANGE TAPPING CHUCK (SWFLK) Type SWFLK / HSK-A / DIN 69893-6



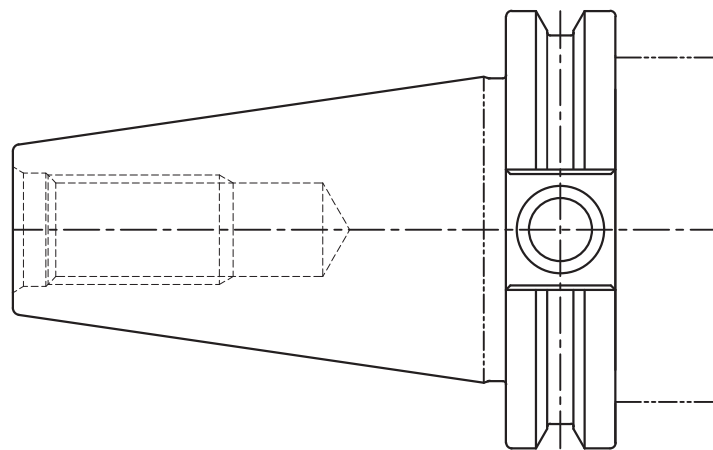
Taper Angle AT3 Class

Item Description	Chuck Capacity	Suitable Adaptor	Ø D2	Ø D	L	Length Comp. (mm)	
						Expn.	Compr.
HSK-F63 SWFLK1	M3 TO M12	SWES1B / SWE1	19	36	81	7.5	7.5
HSK-F63 SWFLK2	M8 TO M20	SWES2B / SWE2	31	53	119	12.5	12.5
HSK-F63 SWFLK3	M14 TO M33	SWES3B / SWE3	48	78	176	20	20

Ordering Example :- SWFLK2 / HSK-F63 -2 Nos

NOTE:- FOR TAP ADAPTORS AND TAP TECHNICAL SPECIFICATION PLEASE REFER PAGE NO. 164, 165, 166, 167

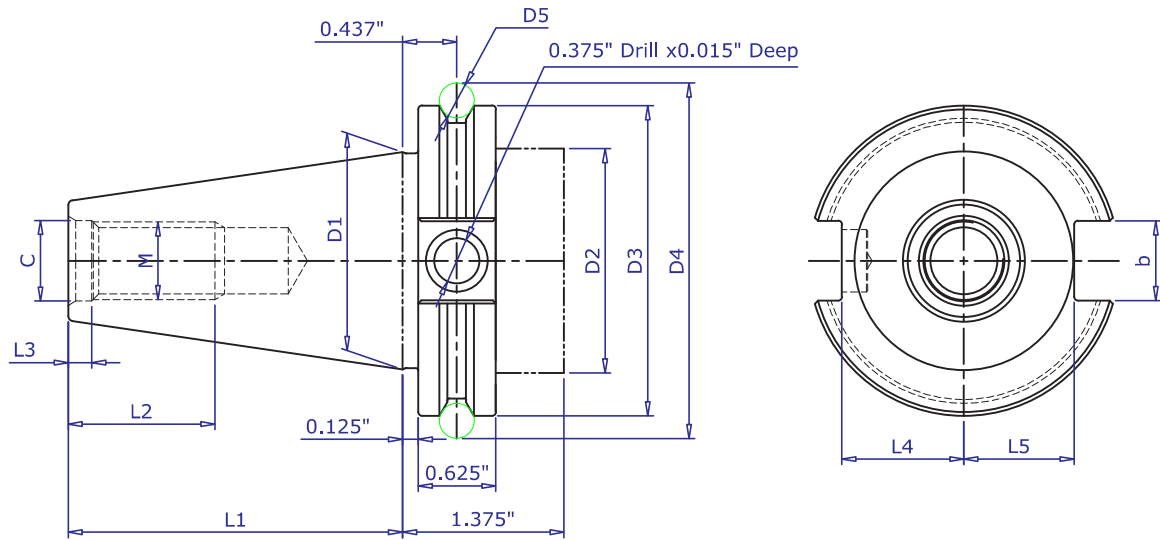
Precision Tool Holder CAT (ANSI B 5.50)



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07	QUICK CHANGE TAPPING CHUCK (SWFLK)	104

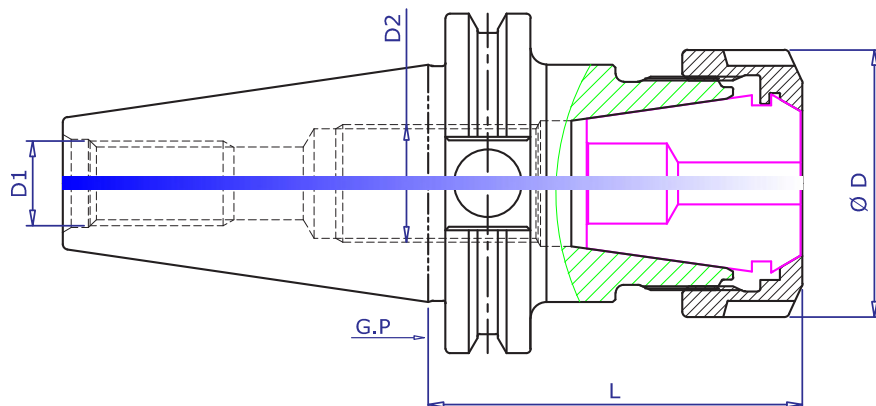
Technical Information



Taper Angle AT3 Class

TOOL SHANK	C	D1	D2	D3	D4	D5	b	M UNC 2B	L1	L2	L3	L4	L5
CAT-40	0.641"	1.750"	1.750"	2.500"	2.863"	0.2813"	0.645"	5/8"-11"	2.687"	1.12"	0.188"	0.985"	0.890"
CAT-50	1.031"	2.750"	2.750"	3.875"	4.238"	0.2813"	1.020"	1"-8"	4.000"	1.75"	0.250"	1.485"	1.390"

COLLET CHUCKS ER TYPE DIN 6499 FOR PARALLEL SHANK TOOLS



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL taper 0.005mm

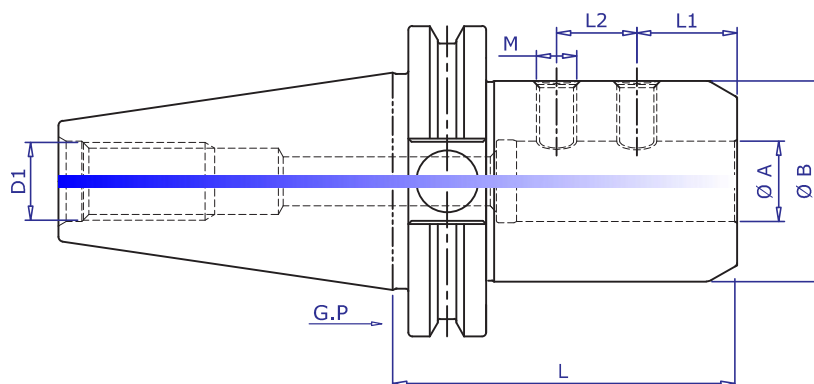
Balancing GRADE:- G6.3 /15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Suitable for Collet	Collet Clamping Capacity	L	D1	D2	Nut		Spanner Designation
						Ø D	Designation	
CAT40 ER16- 2.5"GP	ER16	0.0156"-0.375"	70	5/8"-11"	M10X1	32	UM/ER16	E16
CAT40 ER16 -4.0"GP	ER16	0.0156"-0.375"	100	5/8"-11"	M10X1	32	UM/ER16	E16
CAT40 ER16 -6.0" GP	ER16	0.0156"-0.375"	160	5/8"-11"	M10X1	32	UM/ER16	E16
CAT40 ER20 -2.5" GP	ER20	0.0625"-0.5"	70	5/8"-11"	M10X1	34	UM/ER20	E20
CAT40 ER20 -4.0" GP	ER20	0.0625"-0.5"	100	5/8"-11"	M10X1	34	UM/ER20	E20
CAT40 ER20 -6.0" GP	ER20	0.0625"-0.5"	160	5/8"-11"	M10X1	34	UM/ER20	E20
CAT40 ER25 -2.5"GP	ER25	0.0625"-0.625"	70	5/8"-11"	M18X1	42	UM/ER25	E25
CAT40 ER25 -4.0" GP	ER25	0.0625"-0.625"	100	5/8"-11"	M18X1	42	UM/ER25	E25
CAT40 ER25 -6.0"GP	ER25	0.0625"-0.625"	160	5/8"-11"	M18X1	42	UM/ER25	E25
CAT40 ER32 -2.5"GP	ER32	0.125"-0.75"	70	5/8"-11"	M22X1.5	50	UM/ER32	E32
CAT40 ER32 -4.0" GP	ER32	0.125"-0.75"	100	5/8"-11"	M22X1.5	50	UM/ER32	E32
CAT40 ER32 -6.0" GP	ER32	0.125"-0.75"	160	5/8"-11"	M22X1.5	50	UM/ER32	E32
CAT40 ER40 -2.5"GP	ER40	0.125"-1.00"	70	5/8"-11"	M30X1.5	63	UM/ER40	E40
CAT40 ER40 -4.0" GP	ER40	0.125"-1.00"	100	5/8"-11"	M30X1.5	63	UM/ER40	E40
CAT40 ER40 -6.0" GP	ER40	0.125"-1.00"	160	5/8"-11"	M30X1.5	63	UM/ER40	E40
CAT50 ER25 -2.50" GP	ER25	0.0625"-0.625"	70	1"-8"	M18X1	42	UM/ER25	E25
CAT50 ER25 -4.00" GP	ER25	0.0625"-0.625"	100	1"-8"	M18X1	42	UM/ER25	E25
CAT50 ER25 -6.00"GP	ER25	0.0625"-0.625"	160	1"-8"	M18X1	42	UM/ER25	E25
CAT50 ER32 -2.75" GP	ER32	0.125"-0.75"	80	1"-8"	M22X1.5	50	UM/ER32	E32
CAT50 ER32 -4.00"GP	ER32	0.125"-0.75"	100	1"-8"	M22X1.5	50	UM/ER32	E32
CAT50 ER32 -6.00" GP	ER32	0.125"-0.75"	160	1"-8"	M22X1.5	50	UN/ER32	E32
CAT50 ER40 -2.75"GP	ER40	0.125"-1.00"	80	1"-8"	M30X1.5	63	UM/ER40	E40
CAT50 ER40 -4.00" GP	ER40	0.125"-1.00"	100	1"-8"	M30X1.5	63	UM/ER40	E40
CAT50 ER40 -6.00" GP	ER40	0.125"-1.00"	160	1"-8"	M30X1.5	63	UM/ER40	E40
CAT50 ER50 -4.00"GP	ER50	0.25"-1.25"	100	1"-8"	M16X2	78	UM/ER50	E50
CAT50 ER50 -6.00" GP	ER50	0.25"-1.25"	160	1"-8"	M16X2	78	UM/ER50	E50

Ordering Example :- CAT40 ER32 070G.P -2 Nos

SIDE LOCK ADAPTOR FOR PARALLEL SHANK TOOLS



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL dia 0.005mm

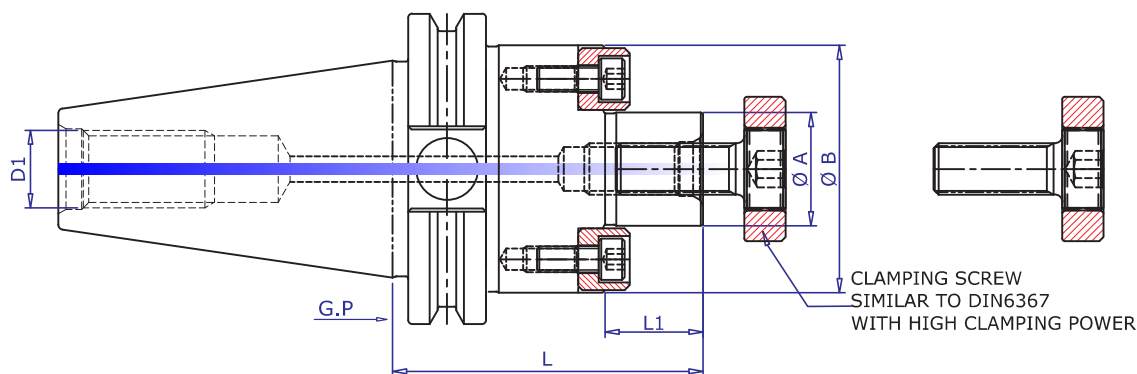
Balancing GRADE:- G6.3 /15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Tool Shank	Ø A H5	L	Ø B	L1	L2	D1	M	Locking Screw Qty.
CAT40 SLA DIA 1/8"-2 3/8" GP	CAT-40	1/8"	2.375"	0.69"	0.370"	---	5/8"-11"	6-32UNCX1/4"	1
CAT40 SLA DIA 3/16"-2 1/2" GP	CAT-40	3/16"	2.50"	0.69"	0.562"	---	5/8"-11"	8-32UNCX1/4"	1
CAT40 SLA DIA 1/4"-2 1/2" GP	CAT-40	1/4"	2.50"	0.78"	0.630"	---	5/8"-11"	1/4"-28UNFX1/4"	1
CAT40 SLA DIA 5/16"-2 1/2" GP	CAT-40	5/16"	2.50"	0.88"	0.630"	---	5/8"-11"	5/16"-24UNFX1/4"	1
CAT40 SLA DIA 3/8"-2 1/2" GP	CAT-40	3/8"	2.50"	1.0"	0.750"	---	5/8"-11"	3/8"-24UNFX5/16"	1
CAT40 SLA DIA 7/16"-3.00" GP	CAT-40	7/16"	3.0"	1.25"	0.875"	---	5/8"-11"	3/8"-24UNFX3/8"	1
CAT40 SLA DIA 1/2"-3.00" GP	CAT-40	1/2"	3.0"	1.25"	0.875"	---	5/8"-11"	7/16"-20UNFX3/8"	1
CAT40 SLA DIA 5/8"-3.00" GP	CAT-40	5/8"	3.0"	1.50"	0.937"	---	5/8"-11"	1/2"-20UNFX7/16"	1
CAT40 SLA DIA 3/4"-3.00" GP	CAT-40	3/4"	3.0"	1.75"	1.00"	---	5/8"-11"	5/8"-18UNFX1/2"	1
CAT40 SLA DIA 7/8"-3 1/2" GP	CAT-40	7/8"	3.5"	1.88"	1.063"	0.875"	5/8"-11"	5/8"-18UNFX1/2"	2
CAT40 SLA DIA 1.0"-4.00" GP	CAT-40	1.0"	4.0"	2.0"	1.125"	1.00"	5/8"-11"	3/4"-16UNFX1/2"	2
CAT40 SLA DIA 1 1/4"-4.00" GP	CAT-40	1 1/4"	4.0"	2.5"	1.125"	1.00"	5/8"-11"	3/4"-16UNFX1/2"	2
CAT40 SLA DIA 1 1/2"-4 1/2" GP	CAT-40	1 1/2"	4.5"	2.5"	1.125"	1.00"	5/8"-11"	3/4"-16UNFX1/2"	2
CAT50 SLA DIA 1/4"-2 1/2" GP	CAT-50	1/4"	2.50"	0.78"	0.630"	---	1"-8"	1/4"-28UNFX1/4"	1
CAT50 SLA DIA 5/16"-2 1/2" GP	CAT-50	5/16"	2.50"	0.88"	0.630"	---	1"-8"	5/16"-24UNFX1/4"	1
CAT50 SLA DIA 3/8"-2 1/2" GP	CAT-50	3/8"	2.50"	1.0"	0.750"	---	1"-8"	3/8"-24UNFX5/16"	1
CAT50 SLA DIA 7/16"-3.00" GP	CAT-50	7/16"	3.0"	1.25"	0.875"	---	1"-8"	3/8"-24UNFX3/8"	1
CAT50 SLA DIA 1/2"-3.00" GP	CAT-50	1/2"	3.0"	1.25"	0.875"	---	1"-8"	7/16"-20UNFX3/8"	1
CAT50 SLA DIA 5/8"-3.00" GP	CAT-50	5/8"	3.0"	1.50"	0.937"	---	1"-8"	1/2"-20UNFX7/16"	1
CAT50 SLA DIA 3/4"-3.00" GP	CAT-50	3/4"	3.0"	1.75"	1.00"	---	1"-8"	5/8"-18UNFX1/2"	1
CAT50 SLA DIA 7/8"-4.00" GP	CAT-50	7/8"	4.0"	1.88"	1.063"	0.875"	1"-8"	5/8"-18UNFX1/2"	2
CAT50 SLA DIA 1.00"-4.00" GP	CAT-50	1.0"	4.0"	2.0"	1.125"	1.00"	1"-8"	3/4"-16UNFX1/2"	2
CAT50 SLA DIA 1 1/4"-4.00" GP	CAT-50	1 1/4"	4.0"	2.5"	1.125"	1.00"	1"-8"	3/4"-16UNFX1/2"	2
CAT50 SLA DIA 1 1/2"-4 1/2" GP	CAT-50	1 1/2"	4.5"	2.5"	1.125"	1.00"	1"-8"	3/4"-16UNFX1/2"	2

Ordering Example :- CAT40 5/8" 3.0"G.P - 2 Nos.

FACE MILL HOLDER TENNON DRIVER (FMH)



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to LOCATING Ø 0.005mm

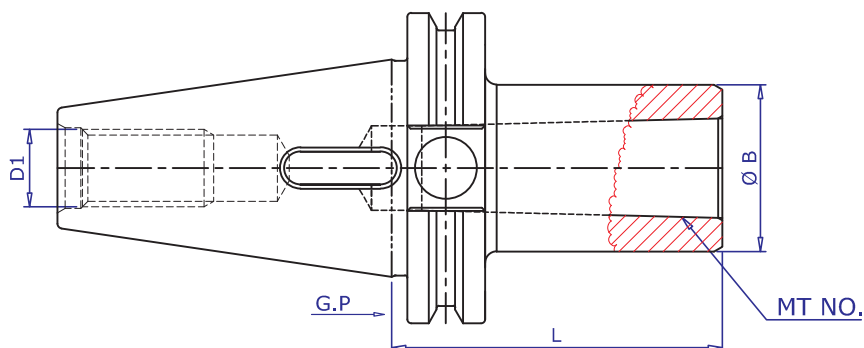
Balancing GRADE:- G6.3 /15,000 rev./min STD.

Fine Balancing of Tool Holder:- SPECIFY CLASS (AT EXTRA COST)

Item Description	Tool Shank	Ø A h6	Ø B	L	L1	D1
CAT40 FMH DIA 3/4"-1 3/4" GP	CAT 40	3/4"	2.0"	1.75"	0.687"	5/8"-11"
CAT40 FMH DIA 1.0"-2.00" GP	CAT 40	1.0"	2.375"	2.0"	0.687"	5/8"-11"
CAT40 FMH DIA 1 1/4"-2.0" GP	CAT 40	1 1/4"	2.875"	2.0"	0.687"	5/8"-11"
CAT40 FMH DIA 1 1/2"-2.0" GP	CAT 40	1 1/2"	3.75"	2.0"	0.938"	5/8"-11"
CAT50 FMH DIA 3/4"-1 3/4" GP	CAT-50	3/4"	2.0"	1.75"	0.687"	1"-8"
CAT50 FMH DIA 1.0"-2.00" GP	CAT-50	1.0"	2.375"	2.0"	0.687"	1"-8"
CAT50 FMH DIA 1 1/4"-2.0" GP	CAT-50	1 1/4"	2.875"	2.0"	0.687"	1"-8"
CAT50 FMH DIA 1 1/2"-2.0" GP	CAT-50	1 1/2"	3.75"	2.0"	0.938"	1"-8"

Ordering Example :- CAT40 FMH1.0" 2.0" G.P - 2 Nos.

MORSE TAPER ADAPTOR SHANK (TANGED) DIN 228-2 FORM B



Taper Angle AT3 Class

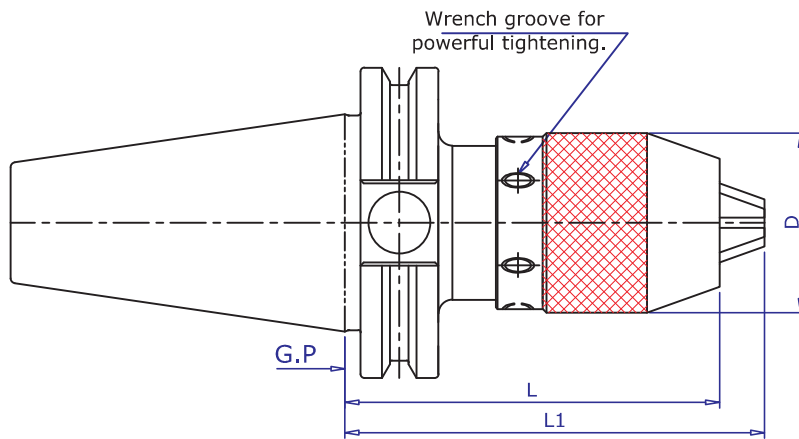
Maximum runout of MOUNTING taper to INTERNAL taper 0.005mm

Balancing GRADE:- G6.3 /15,000 rev./min STD.

Item Description	Tool Shank	MT. NO.	L	Ø B	D1
CAT40 MT01-2.00" GP	CAT 40	MT-1	2.0"	1.0"	5/8"-11"
CAT40 MT02-2.00" GP	CAT 40	MT-2	2.0"	1.25"	5/8"-11"
CAT40 MT03-2 3/4" GP	CAT 40	MT-3	2.75"	1.574"	5/8"-11"
CAT40 MT04-3 3/4" GP	CAT 40	MT-4	3.75"	1.889"	5/8"-11"
CAT50 MT01-2.00" GP	CAT-50	MT-1	2.0"	1.0"	1"-8"
CAT50 MT02-2 3/8" GP	CAT-50	MT-2	2.375"	1.25"	1"-8"
CAT50 MT03-2 1/2" GP	CAT-50	MT-3	2.5"	1.574"	1"-8"
CAT50 MT04-3 3/4" GP	CAT-50	MT-4	3.75"	1.889"	1"-8"
CAT50 MT05-4 3/4" GP	CAT-50	MT-5	4.75"	2.48"	1"-8"

Ordering Example :- CAT40 MTA-03 2 3/4"G.P - 2 Nos.

SIDDHI DRILL CHUCK (NCDC)



Taper Angle AT3 Class

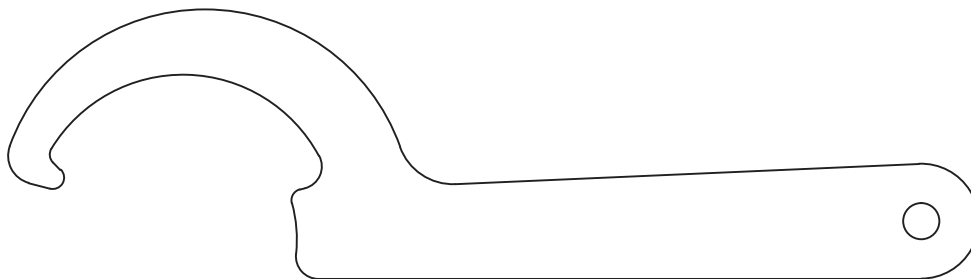
Item Description	Tool Shank	Ø D	L	L1
CAT40 NCDC 1-13-4.0" GP	CAT-40	1.969"	4.0"	4.5"
CAT50 NCDC 1-13-4.0" GP	CAT-50	1.969"	4.0"	4.5"

Ordering Example :- CAT40 NCDC1-13 -4.0" 2 Nos.

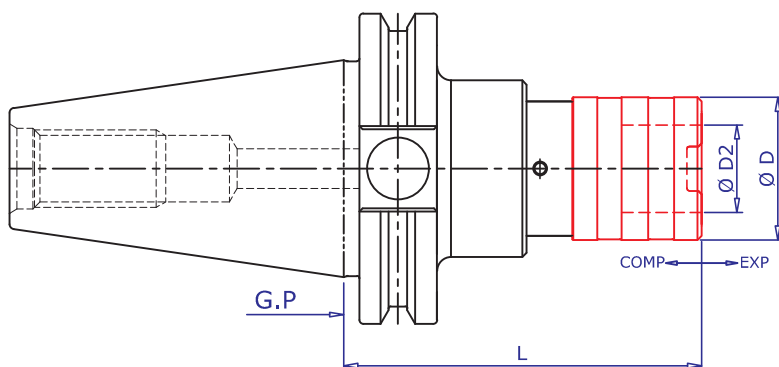
COMPARISON DATA OF DRILL CHUCK TIGHTENING TORQUE

Type of drill chuck	Method of tightening	Twisting moment	Comparison %
SDC 113	By Hand	6.9 Nm	100
SNCD 113	By wrench	21.8 Nm	300

NCDC Wrench.



QUICK CHANGE TAPPING CHUCK (SWFLK)



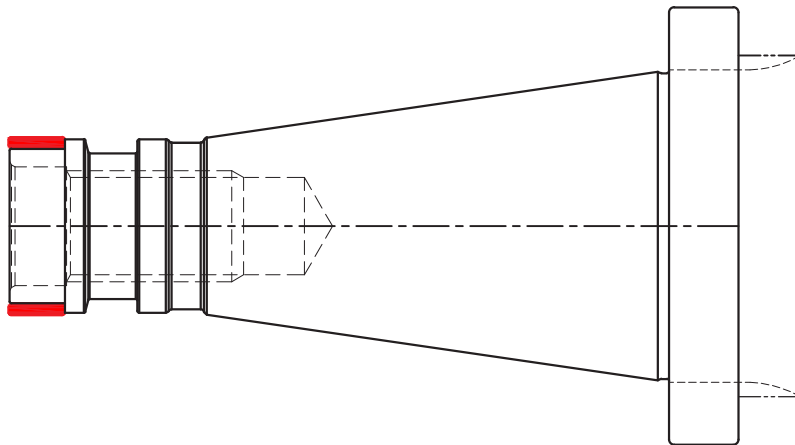
Taper Angle AT3 Class .

Item Description	Tool Shank	Chuck Capacity	Suitable Adaptors	Length Comp.		Ø D	Ø D2	L
				Comp.	Exp.			
CAT40 SWFLK1 076 GP	CAT-40	M3-M12	SWE1/SWES1B	7.5	7.5	36	19	76
CAT40 SWFLK2 100 GP	CAT-40	M8-M20	SWE2/SWES2B	12.5	12.5	53	31	100
CAT40 SWFLK3 150 GP	CAT-40	M14-M33	SWE3/SWES3B	20	20	78	48	150
CAT50 SWFLK1 076 GP	CAT-50	M3-M12	SWE1/SWES1B	7.5	7.5	36	19	76
CAT50 SWFLK2 100 GP	CAT-50	M8-M20	SWE2/SWES2B	12.5	12.5	53	31	100
CAT50 SWFLK3 140 GP	CAT-50	M14-M33	SWE3/SWES3B	20	20	78	48	140

Ordering Example :- CAT40 SWFLK2 100G.P QTY. : 2 NOS.

NOTE:- FOR TAP ADAPTORS AND TAP TECHNICAL SPECIFICATION PLEASE REFER PAGE NO. 164, 165, 166, 167

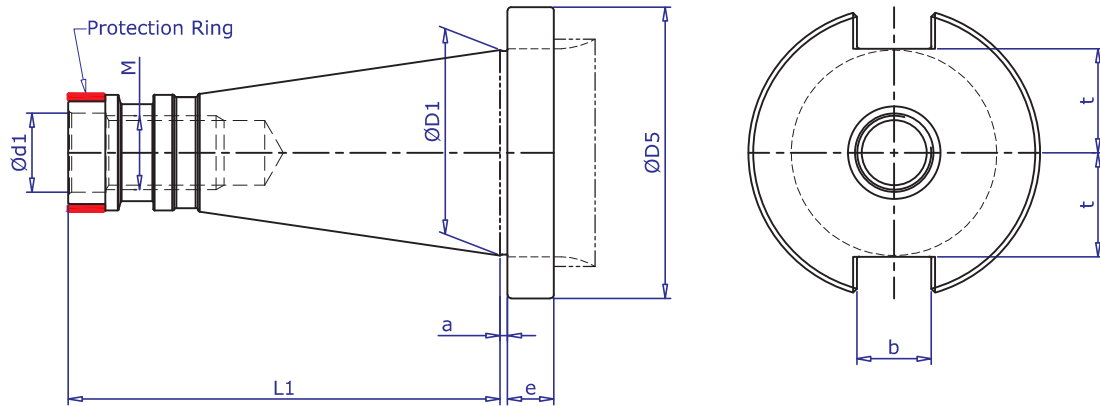
Precision Tool Holder ISO (DIN 2080)



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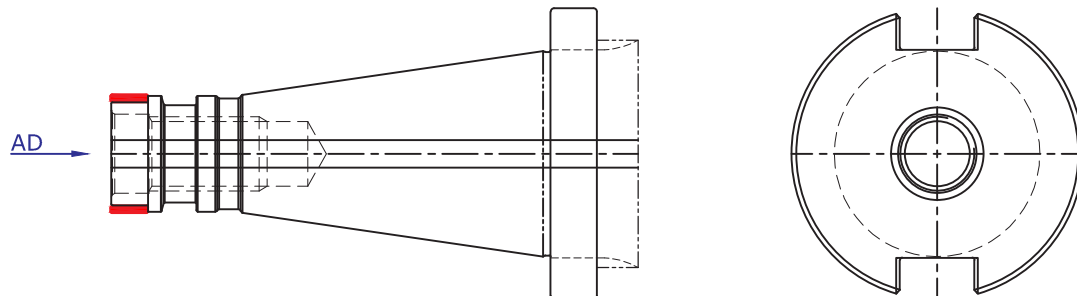
ISO 2080 (FORM A) Technical Information



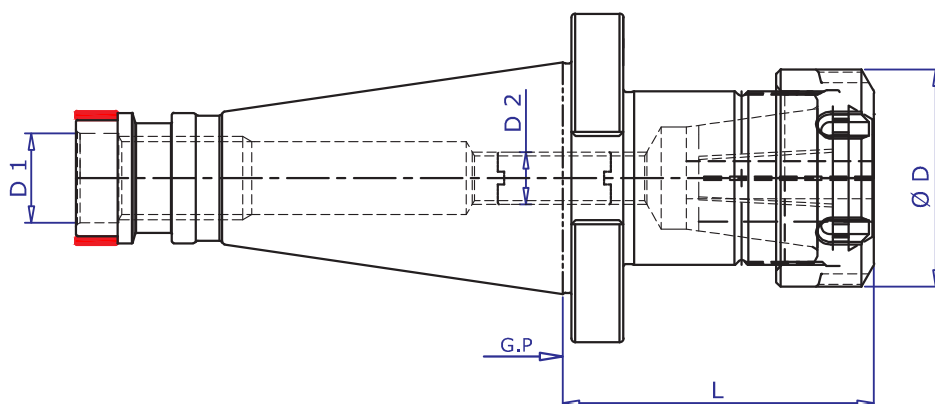
Taper Angle AT3 Class

TOOL SHANK	ØD1	M	Ød1	ØD5	L1	t	e	b	a
30	31.75	M 12	13	50.00	68.4	16.2	8	16.1	1.6
40	44.45	M 16	17	63.00	93.4	22.5	10	16.1	1.6
50	69.85	M 24	26	97.50	126.8	35.3	12	25.7	3.2

WITH COOLANT THROUGH THE CENTRE (FORM AD)



COLLET CHUCKS ER TYPE DIN 6499 FOR PARALLEL SHANK TOOLS.



Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL taper 0.005mm

ITEM DESCRIPTION	SUTABLE FOR COLLET	COLLET CLAMPING CAPACITY	L	D1	D2	NUT		SPANNER DESCRIPTION
						ØD	DESCRIPTION	
ISO 30 ER 16 050 G.P	ER 16	0.5-10	50	M 12	M10X1P	28	UM/ER 16	GS 25
ISO 30 ER 20 050 G.P	ER 20	1.0-13	50	M 12	M10X1P	34	UM/ER 20	E 20
ISO 30 ER 25 050 G.P	ER 25	1.0-16	50	M 12	M18X1P	42	UM/ER 25	E 25
ISO 30 ER 32 050 G.P	ER 32	2.0-16	50	M 12	M22X1.5P	50	UM/ER 32	E 32
ISO 40 ER 16 060 G.P	ER 16	0.5-10	60	M 16	M10X1P	28	UM/ER 16	GS 25
ISO 40 ER 20 060 G.P	ER 20	1.0-13	60	M 16	M10X1P	34	UM/ER 20	E 20
ISO 40 ER 25 060 G.P	ER 25	1.0-16	60	M 16	M18X1P	42	UM/ER 25	E 25
ISO 40 ER 32 070 G.P	ER 32	2.0-16	70	M 16	M22X1.5P	50	UM/ER 32	E 32
ISO 40 ER 40 080 G.P	ER 40	3.0-26	80	M 16	M30X1.5P	63	UM/ER 40	E 40
ISO 50 ER 25 065 G.P	ER 25	1.0-16	65	M 24	M18X1P	42	UM/ER 25	E 25
ISO 50 ER 32 070 G.P	ER 32	2.0-16	70	M 24	M22X1.5P	50	UM/ER 32	E 32
ISO 50 ER 40 080 G.P	ER 40	3.0-26	80	M 24	M30X1.5P	63	UM/ER 40	E 40
ISO 50 ER 50 100 G.P	ER 50	10.0-34	100	M 24	M30X1.5P	78	UM/ER 50	E 50

Ordering Example :- ISO 40 ER32 070 AD -QTY. : 2 Nos.

SIDE LOCK ADAPTOR FOR PARALLEL SHANK TOOLS

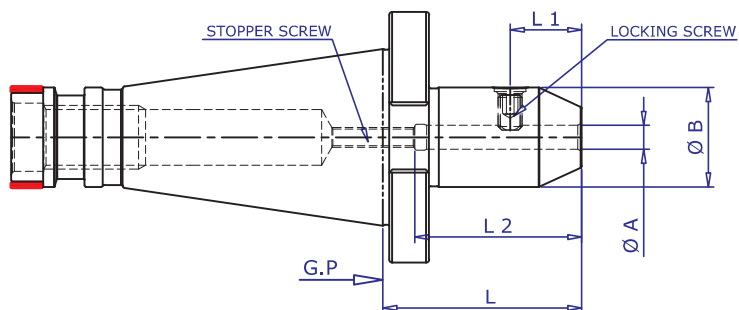


FIG-1

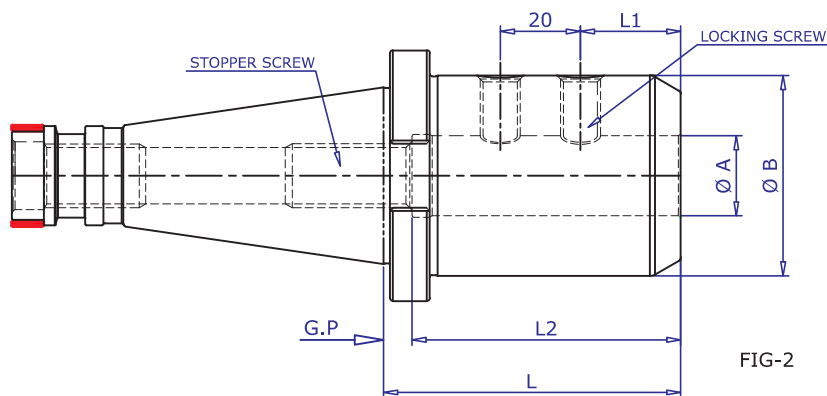


FIG-2

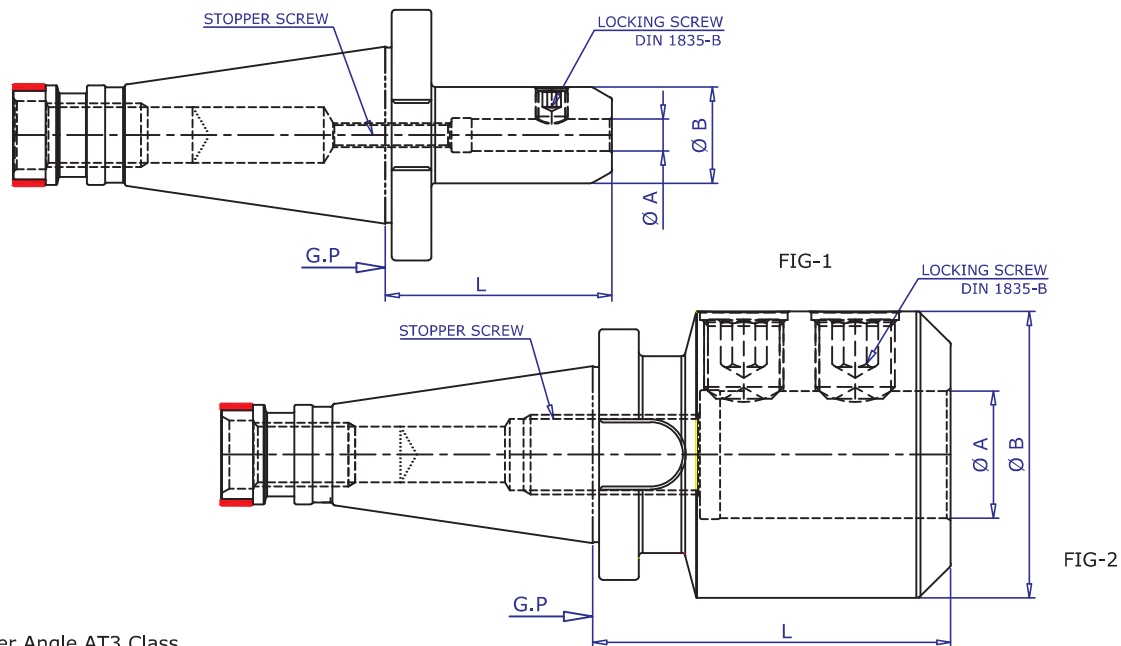
Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL dia 0.005mm

ITEM DESCRIPTION	ISO	ØA H5	L	ØB	L 1	L 2	STOPPER SCREW	LOCKING SCREW	
								SIZE	FIG
ISO30 SLA 06 065 G.P	30	6	65	20	15	40	M 5	M 6	1
ISO30 SLA 08 065 G.P	30	8	65	24	15	40	M 6	M 8	1
ISO30 SLA 10 065 G.P	30	10	65	30	16	44	M 8	M 10	1
ISO30 SLA 12 065 G.P	30	12	65	35	20	44	M 10	M 10	1
ISO30 SLA 16 065 G.P	30	16	65	40	23	52	M 12	M 10	1
ISO30 SLA 20 090 G.P	30	20	90	50	25	70	M 16	M 10	2
ISO30 SLA 25 090 G.P	30	25	90	50	25	70	M 20	M 10	2
ISO40 SLA 06 065 G.P	40	6	65	20	15	40	M 5	M 6	1
ISO40 SLA 08 065 G.P	40	8	65	24	15	40	M 6	M 8	1
ISO40 SLA 10 065 G.P	40	10	65	30	16	44	M 8	M 10	1
ISO40 SLA 12 065 G.P	40	12	65	35	20	44	M 10	M 10	1
ISO40 SLA 16 065 G.P	40	16	65	40	23	52	M 12	M 10	1
ISO40 SLA 20 090 G.P	40	20	90	50	25	70	M 16	M 10	2
ISO40 SLA 25 090 G.P	40	25	90	50	25	70	M 20	M 10	2
ISO40 SLA 32 090 G.P	40	32	90	60	30	70	M 20	M 10	2
ISO40 SLA 40 090 G.P	40	40	90	60	30	70	M 20	M 10	2
ISO50 SLA 06 075 G.P	50	6	75	20	15	40	M 5	M 6	1
ISO50 SLA 08 075 G.P	50	8	75	24	15	40	M 6	M 8	1
ISO50 SLA 10 075 G.P	50	10	75	30	16	44	M 8	M 10	1
ISO50 SLA 12 075 G.P	50	12	75	35	20	44	M 10	M 10	1
ISO50 SLA 16 075 G.P	50	16	75	40	23	52	M 12	M 10	1
ISO50 SLA 20 105 G.P	50	20	105	50	25	70	M 16	M 10	2
ISO50 SLA 25 105 G.P	50	25	105	50	25	70	M 20	M 10	2
ISO50 SLA 32 105 G.P	50	32	105	60	30	70	M 20	M 10	2
ISO50 SLA 40 105 G.P	50	40	105	60	30	70	M 20	M 10	2

Ordering Example :- ISO40 SLA25 090 P2 - 2 Nos.

WELDON TYPE END MILL ADAPTOR (WE) (DIN 1835-B) (AD/JD)



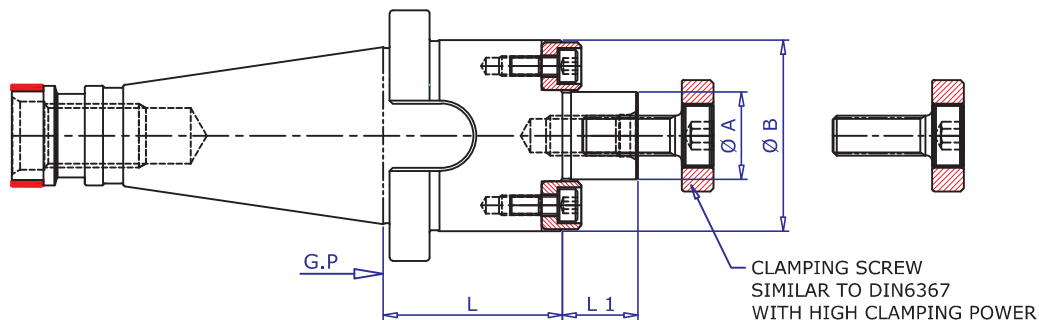
Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL dia 0.005mm

ITEM DESCRIPTION	ISO	ΦA H5	L	Ø B	LOCKING SCREW	STOPPER SCREW	FIG
ISO 30 WE 06 045 G.P	30	6	45	25	M6	M5	1
ISO 30 WE 08 045 G.P	30	8	45	28	M8	M6	1
ISO 30 WE 10 050 G.P	30	10	50	35	M10	M8	1
ISO 30 WE 12 050 G.P	30	12	50	42	M12	M10	1
ISO 30 WE 16 063 G.P	30	16	63	48	M14	M12	1
ISO 30 WE 20 063 G.P	30	20	63	52	M16	M16	1
ISO 40 WE 06 050 G.P	40	6	50	25	M6	M5	1
ISO 40 WE 08 050 G.P	40	8	50	28	M8	M6	1
ISO 40 WE 10 050 G.P	40	10	50	35	M10	M8	1
ISO 40 WE 12 050 G.P	40	12	50	42	M12	M10	1
ISO 40 WE 16 063 G.P	40	16	63	48	M14	M12	1
ISO 40 WE 20 063 G.P	40	20	63	52	M16	M16	1
ISO 40 WE 25 090 G.P	40	25	90	65	M18 X 2	M20	2
ISO 40 WE 32 090 G.P	40	32	90	72	M20 X 2	M20	2
ISO 40 WE 40 090 G.P	40	40	90	80	M20 X 2	M20	2
ISO 50 WE 06 050 G.P	50	6	50	25	M6	M5	1
ISO 50 WE 08 050 G.P	50	8	50	28	M8	M6	1
ISO 50 WE 10 063 G.P	50	10	63	35	M10	M8	1
ISO 50 WE 12 063 G.P	50	12	63	42	M12	M10	1
ISO 50 WE 16 063 G.P	50	16	63	48	M14	M12	1
ISO 50 WE 20 063 G.P	50	20	63	52	M16	M16	1
ISO 50 WE 25 080 G.P	50	25	80	65	M18 X 2	M20	2
ISO 50 WE 32 085 G.P	50	32	85	72	M20 X 2	M20	2
ISO 50 WE 40 095 G.P	50	40	95	80	M20 X 2	M20	2

Ordering Example :- ISO 40 WN25 090G.P - 2 Nos.

FACE MILL HOLDER TENNON DRIVER DIN 6357 (FMH)



Taper Angle AT3 Class

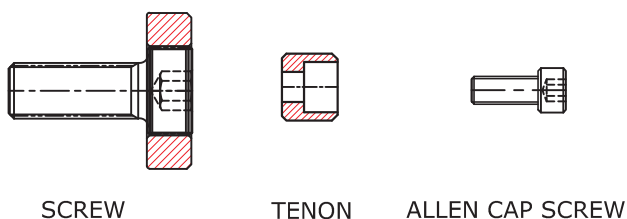
Maximum runout of MOUNTING taper to LOCATING $\varnothing$ 0.005mm

ITEM DESCRIPTION	ISO	$\varnothing$ A h6	L	L 1	$\varnothing$ B
ISO 30 FMH 16 030 G.P	30	16	30	17	32
ISO 30 FMH 22 030 G.P	30	22	30	19	40
ISO 30 FMH 27 030 G.P	30	27	30	21	48
ISO 40 FMH 16 030 G.P	40	16	30	17	32
ISO 40 FMH 22 030 G.P	40	22	30	19	40
ISO 40 FMH 27 030 G.P	40	27	30	21	48
ISO 40 FMH 32 035 G.P	40	32	35	24	58
ISO 40 FMH 40 035 G.P	40	40	35	27	70
ISO 50 FMH 16 040 G.P	50	16	40	17	32
ISO 50 FMH 22 040 G.P	50	22	40	19	40
ISO 50 FMH 27 040 G.P	50	27	40	21	48
ISO 50 FMH 32 045 G.P	50	32	45	24	58
ISO 50 FMH 40 045 G.P	50	40	45	27	70

Ordering Example :- ISO 40 FMH27 030G.P - 2 Nos.

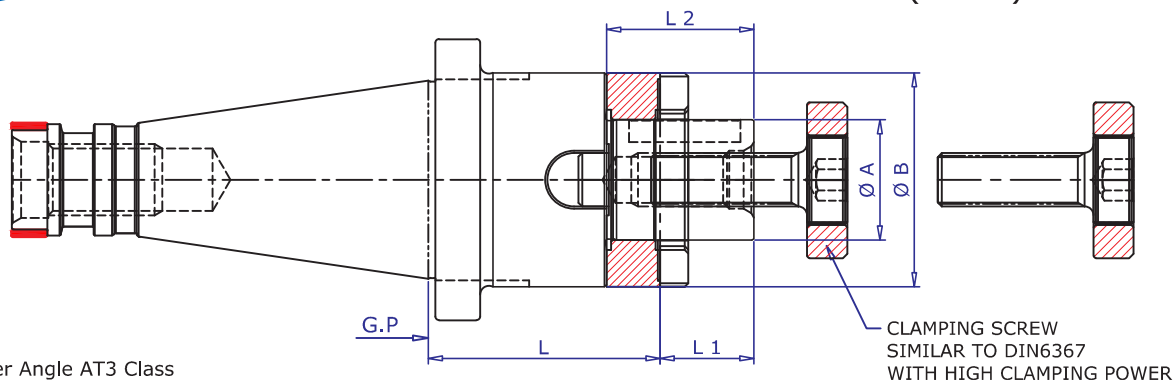
ITEM DESCRIPTION	ISO	$\varnothing$ A h6	L	L 1	$\varnothing$ B
ISO 40 FMH 16 120 G.P	40	16	120	17	38
ISO 40 FMH 22 120 G.P	40	22	120	19	48
ISO 40 FMH 27 120 G.P	40	27	120	21	58
ISO 40 FMH 32 120 G.P	40	32	120	24	78
ISO 50 FMH 16 150 G.P	50	16	150	17	38
ISO 50 FMH 22 150 G.P	50	22	150	19	48
ISO 50 FMH 27 150 G.P	50	27	150	21	58
ISO 50 FMH 32 150 G.P	50	32	150	24	78
ISO 50 FMH 40 150 G.P	50	40	150	27	82

Ordering Example :- ISO 40 FMH27 120G.P - 2 Nos.



A	SCREW	TENNON	ALLEN CAP SCREW
16	SCR 16XM8	8	M4
22	SCR 22XM10	10	M5
27	SCR 27XM12	12	M5
32	SCR 32XM16	14	M6
40	SCR 40XM20	16	M6

COMBY SHELL MILL ADAPTOR DIN 6358 (CSMA)



Taper Angle AT3 Class

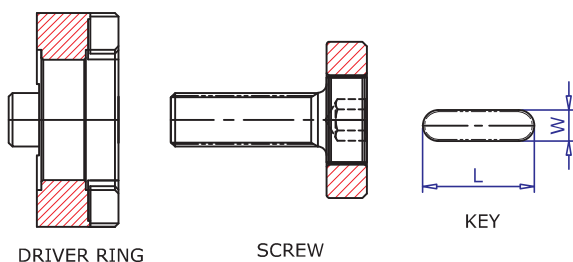
Maximum runout of MOUNTING taper to LOCATING Ø.0 005mm

ITEM DESCRIPTION	ISO	Ø A h6	L	L 1	L 2	Ø B
ISO 30 CSMA 16 035 G.P	30	16	35	17	27	32
ISO 30 CSMA 22 035 G.P	30	22	35	19	31	40
ISO 30 CSMA 27 040 G.P	30	27	40	21	33	48
ISO 40 CSMA 16 052 G.P	40	16	52	17	27	32
ISO 40 CSMA 22 052 G.P	40	22	52	19	31	40
ISO 40 CSMA 27 052 G.P	40	27	52	21	33	48
ISO 40 CSMA 32 052 G.P	40	32	52	24	38	58
ISO 40 CSMA 40 052 G.P	40	40	52	27	41	70
ISO 50 CSMA 16 055 G.P	50	16	55	17	27	32
ISO 50 CSMA 22 055 G.P	50	22	55	19	31	40
ISO 50 CSMA 27 055 G.P	50	27	55	21	33	48
ISO 50 CSMA 32 065 G.P	50	32	65	24	38	58
ISO 50 CSMA 40 065 G.P	50	40	65	27	41	70

Ordering Example :- ISO 40 CSMA27 052 - 2 Nos.

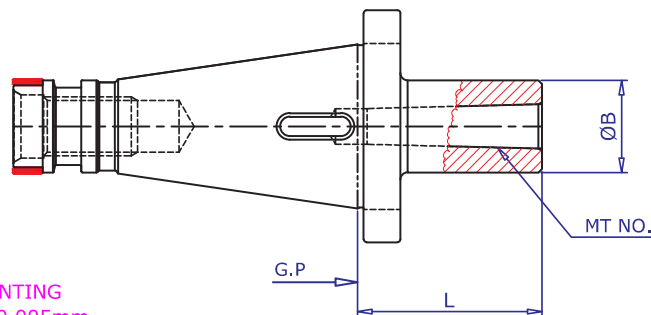
ITEM DESCRIPTION	ISO	Ø A h6	L	L 1	L 2	Ø B
ISO 40 CSMA 16 090 G.P	40	16	90	17	27	32
ISO 40 CSMA 22 090 G.P	40	22	90	19	31	40
ISO 40 CSMA 27 090 G.P	40	27	90	21	33	48
ISO 40 CSMA 32 100 G.P	40	32	100	24	38	58
ISO 50 CSMA 16 100 G.P	50	16	100	17	27	32
ISO 50 CSMA 22 100 G.P	50	22	100	19	31	40
ISO 50 CSMA 27 100 G.P	50	27	100	21	33	48
ISO 50 CSMA 32 100 G.P	50	32	100	24	38	58
ISO 50 CSMA 40 100 G.P	50	40	100	27	41	70

Ordering Example : ISO 40 CSMA27 090 2 Nos.



A	DRIVER RING	SCREW	KEY W X L
16	DR 16X10	SCR 16XM8	KEY 4X20
22	DR 22X12	SCR 22XM10	KEY 6X25
27	DR 27X12	SCR 27XM12	KEY 7X25
32	DR 32X14	SCR 32XM16	KEY 8X30
40	DR 40X14	SCR 40XM20	KEY 10X30

MORSE TAPER ADAPTOR SHANK (TANGED) DIN 228-2 FORM B



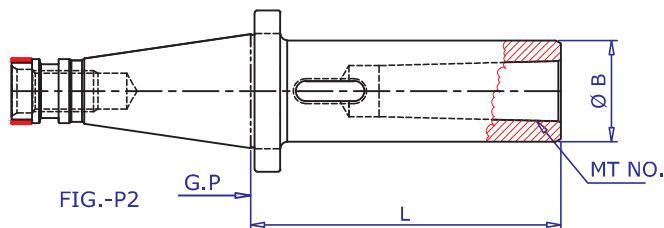
Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL taper 0.005mm

ITEM DESCRIPTION	ISO	MT. NO.	Ø B	L
ISO 30 MTA 01 050 G.P	30	1	25	50
ISO 30 MTA 02 060 G.P	30	2	32	60
ISO 30 MTA 03 075 G.P	30	3	40	75
ISO 40 MTA 01 050 G.P	40	1	25	50
ISO 40 MTA 02 050 G.P	40	2	32	50
ISO 40 MTA 03 070 G.P	40	3	40	70
ISO 40 MTA 04 095 G.P	40	4	48	95
ISO 50 MTA 01 050 G.P	50	1	25	50
ISO 50 MTA 02 060 G.P	50	2	32	60
ISO 50 MTA 03 065 G.P	50	3	40	65
ISO 50 MTA 04 095 G.P	50	4	48	95
ISO 50 MTA 05 120 G.P	50	5	63	120

Ordering Example :- ISO40 MTA 02 050 G.P - 2 Nos.

MORSE TAPER ADAPTOR SHANK (TANGED) DIN 228-2 FORM B (EXTRA LONG)



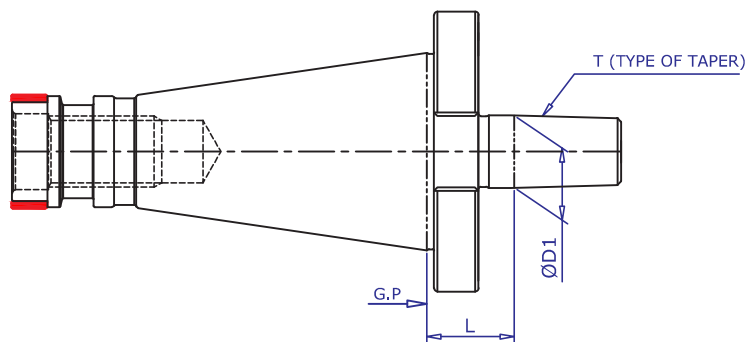
Taper Angle AT3 Class

Maximum runout of MOUNTING taper to INTERNAL taper 0.005mm

ITEM DESCRIPTION	ISO	MT. NO.	Ø B	L
ISO 30 MTA 01 110 G.P	30	1	25	110
ISO 30 MTA 02 120 G.P	30	2	32	120
ISO 30 MTA 03 140 G.P	30	3	40	140
ISO 40 MTA 01 115 G.P	40	1	25	115
ISO 40 MTA 02 125 G.P	40	2	32	125
ISO 40 MTA 03 140 G.P	40	3	40	140
ISO 40 MTA 01 120 G.P	50	1	25	120
ISO 50 MTA 02 140 G.P	50	2	32	140
ISO 50 MTA 03 150 G.P	50	3	40	150
ISO 50 MTA 04 180 G.P	50	4	48	180
ISO 50 MTA 05 220 G.P	50	5	63	220

Ordering Example :- ISO40 MTA02 0140 G.P - 2 Nos.

ADAPTOR FOR DRILL CHUCKS (JACOBS / DIN 238)



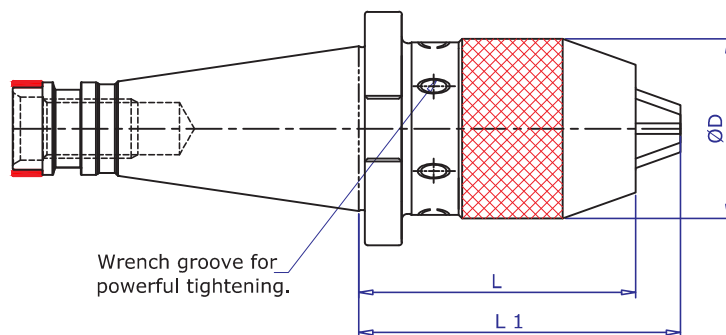
Taper Angle AT3 Class

Concentricity of MOUNTING taper is within 0.005mm.

ITEM DESCRIPTION	TOOL SHANK	T	L	Ø D1
ISO 30 B12	ISO 30	B.12	15.0	12.06
ISO 30 B16	ISO 30	B.16	15.0	15.73
ISO 40 B12	ISO 40	B.12	17.0	12.06
ISO 40 B16	ISO 40	B.16	17.0	15.73
ISO 40 B18	ISO 40	B.18	17.0	17.78
ISO 50 B16	ISO 50	B.16	20.0	15.73
ISO 50 B18	ISO 50	B.18	20.0	17.78
ISO 30 J2	ISO 30	J.2	15.0	14.19
ISO 30 J3	ISO 30	J.3	17.0	20.59
ISO 30 J6	ISO 30	J.6	15.0	17.17
ISO 40 J1	ISO 40	J.1	22.0	9.75
ISO 40 J2	ISO 40	J.2	17.0	14.19
ISO 40 J33	ISO 40	J.33	17.0	15.85
ISO 50 J2	ISO 50	J.2	24.0	14.19
ISO 50 J3	ISO 50	J.3	25.0	20.59
ISO 50 J6	ISO 50	J.6	20.0	17.17

Ordering Example :- ISO40 B16 - 2 Nos.

SIDDHI DRILL CHUCK (NCDC)



Taper Angle AT3 Class

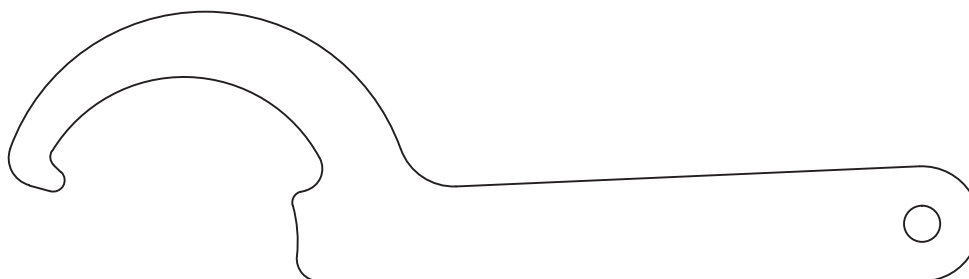
Item Description	Capacity	ΦD	L	L1
ISO 40 (OTT)X NCDC 113	1.0 To 13.0 mm	50	88.5	101
ISO 50 X NCDC 113	1.0 To 13.0 mm	50	88.5	101

Ordering Example :- ISO 40 (OTT)X NCDC 113 / Qty- 2 Nos.

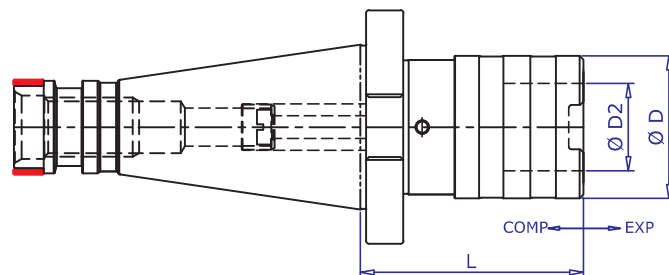
COMPARISON DATA OF DRILL CHUCK TIGHTENING TORQUE

TYPE OF DRILL CHUCK	METHOD OF TIGHTENING	TWISTING MOMENT	COMPARISON %
SIDDHI SDC 113	BY HAND	6.9 Nm	100
SIDDHI NCDC 113	BY WRENCH	21.8 Nm	300

NC SDC Wrench.



QUICK CHANGE TAPPING CHUCK (SWFLK)
Type SWFLK / ISO / DIN 2080

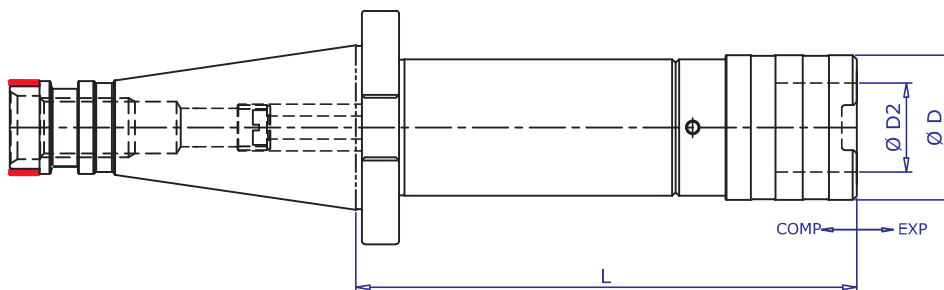


Taper Angle AT3 Class .

Item Description	Chuck Capacity	Sutable Adaptors	Lenght Comp.		Ø D	Ø D2	ISO30 L	ISO 40 L	ISO 50 L
			Compr.	Expan.					
SWFLK 1/ ISO #	M3-M12	SWES1B / SWE1	7.5	7.5	36	19	59	50	59
SWFLK 2/ ISO #	M8-M20	SWES2B / SWE2	12.5	12.5	53	31	97	78	80
SWFLK 3/ ISO #	M14-M33	SWES3B / SWE3	20.0	20.0	78	48	-	143	130

Ordering Example :- SWFLK2 / ISO40 QTY. : 2 NOS.

QUICK CHANGE TAPPING CHUCK (SWFLK)
Type SWFLK / ISO / DIN 2080

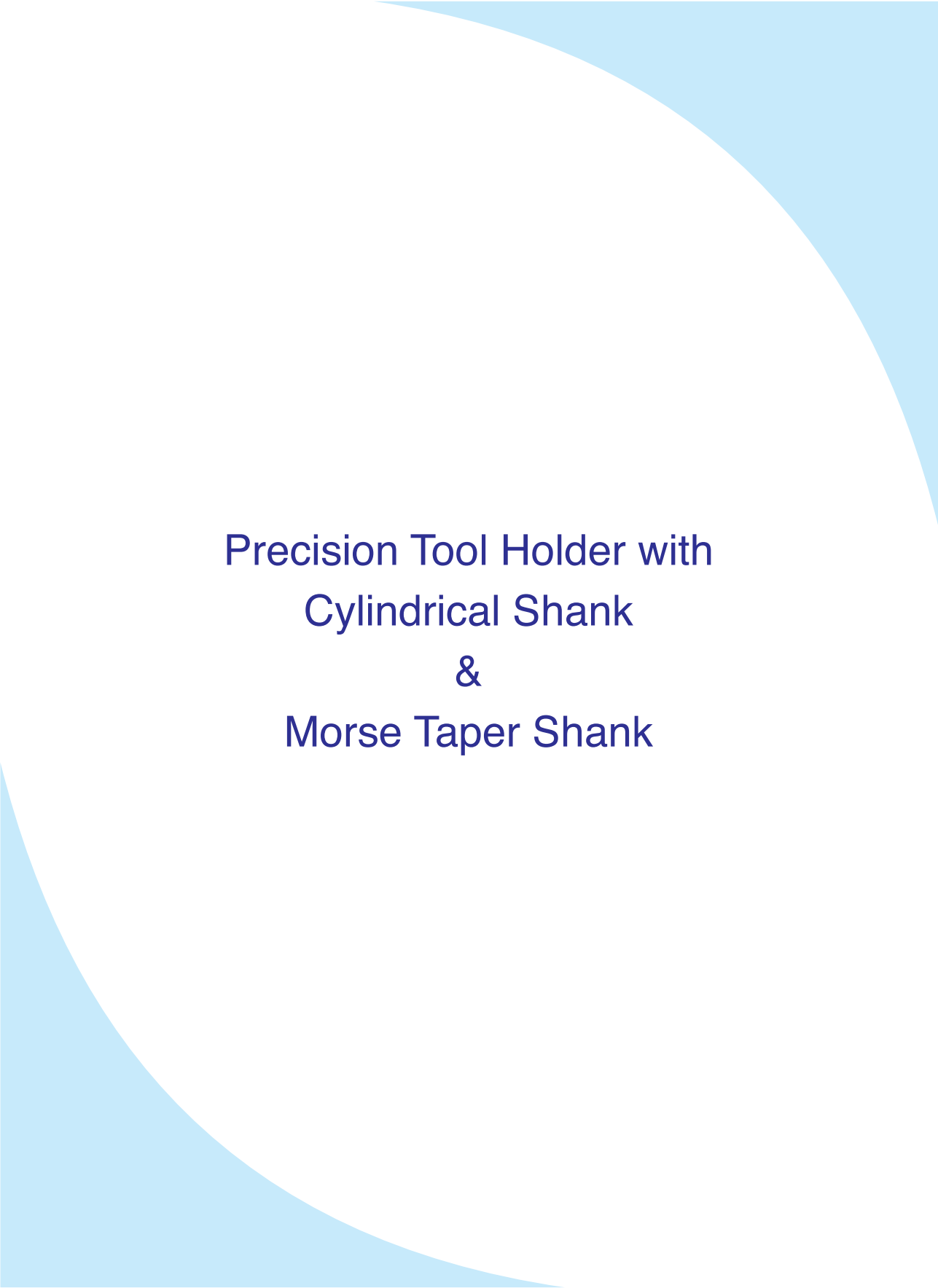


Taper Angle AT3 Class .

Item Description	Chuck Capacity	Sutable Adaptors	Lenght Comp.		Ø D	Ø D2	ISO 40 L	ISO 50 L
			Compr.	Expan.				
SWFLK 1/ ISO #	M3-M12	SWES1B / SWE1	7.5	7.5	36	19	150-500	150-500
SWFLK 2/ ISO #	M8-M20	SWES2B / SWE2	12.5	12.5	53	31	150-500	150-500
SWFLK 3/ ISO #	M14-M33	SWES3B / SWE3	20	20	78	48	200-500	200-500

Ordering Example :- SWFLK-1 / ISO40 : 2 NOS.

NOTE:- FOR TAP ADAPTORS AND TAP TECHNICAL SPECIFICATION PLEASE REFER PAGE NO. 164, 165, 166, 167

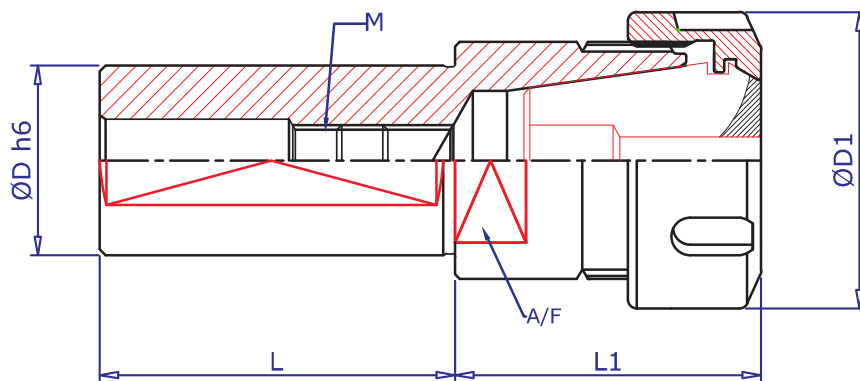
Two large, light blue curved shapes, resembling quarter-circles, are positioned in the top-right and bottom-left corners of the page, framing the central text.

Precision Tool Holder with Cylindrical Shank & Morse Taper Shank

● INDEX ●

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10	Cylindrical Shank Rigid Tapping Chuck (SQ)	
11	Tr Shank (DIN-6327-C) Rigid Tapping Chuck (SQ)	

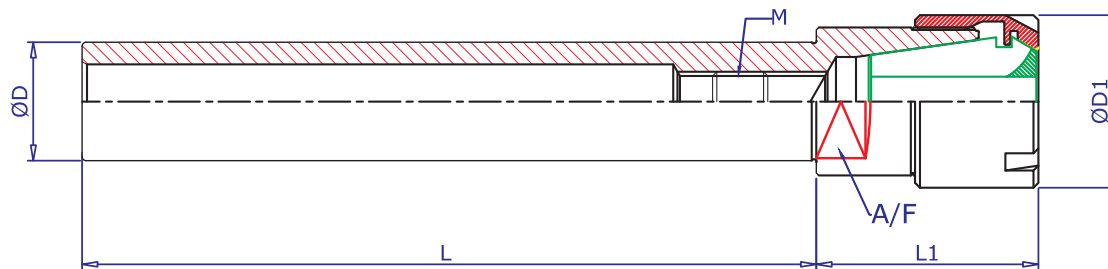
ER CYLINDRICAL COLLET CHUCK WITH STD NUTS.



Maximum runout of MOUNTING dia to INTERNAL taper 0.005mm

Item Description	Ø D h6	L	L1	Ø D1	M	A/F	Clamping Capacity	Suitable Collet	Suitable Spanner
D16 ER11 L 100	16	100	26	19	M4	10	0.5 - 7.0	ER11	GS17
D16 ER11 L 150	16	150	26	19	M4	10	0.5 - 7.0	ER11	GS17
D16 ER16 L 060	16	60	36	28	M10	18	0.5 - 10	ER 16	GS 25
D16 ER16 L 100	16	100	36	28	M10	18	0.5 - 10	ER 16	GS 25
D16 ER16 L 150	16	150	36	28	M10	18	0.5 - 10	ER 16	GS 25
D20 ER11 L 060	20	60	26	19	M4	10	0.5 - 7.0	ER11	GS17
D20 ER11 L 150	20	150	26	19	M4	10	0.5 - 7.0	ER11	GS17
D20 ER16 L 050	20	50	36	28	M10	18	0.5 - 10	ER 16	GS 25
D20 ER16 L 100	20	100	36	28	M10	18	0.5 - 10	ER 16	GS 25
D20 ER16 L 160	20	160	36	28	M10	18	0.5 - 10	ER 16	GS 25
D20 ER20 L 060	20	60	37	34	M10	22	1 - 13	ER 20	GS 30
D20 ER20 L 100	20	100	37	34	M10	22	1 - 13	ER 20	GS 30
D20 ER20 L 150	20	150	37	34	M10	22	1 - 13	ER 20	GS 30
D20 ER25 L 050	20	50	46	42	M12	22	1 - 16	ER 25	E 25
D25 ER25 L 050	25	50	39	42	M12	24	1 - 16	ER 25	E 25
D25 ER25 L 100	25	100	39	42	M12	24	1 - 16	ER 25	E 25
D25 ER32 L 050	25	50	54	50	M12	24	2 - 20	ER 32	E 32
D32 ER25 L 070	32	70	39	42	M12	24	1 - 16	ER 25	E 25
D32 ER32 L 070	32	70	40	50	M12	36	2 - 20	ER 32	E 32
D40 ER25 L 070	40	70	46	42	M12	24	1 - 16	ER 25	E 25
D40 ER32 L 070	40	70	52	50	M12	36	2 - 20	ER 32	E 32
D40 ER40 L 080	40	80	60	63	M16	45	3 - 26	ER 40	E 40

Ordering Example :- D25 ER25 L 50 -2 Nos

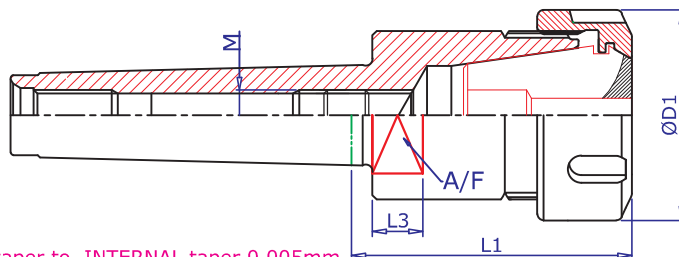


Maximum runout of MOUNTING dia to INTERNAL taper 0.005mm

Item Description	ØD h6	L	L1	Ø D1	M	A/F	Clamping Capacity	Suitable Collet	Suitable Spanner
D08 ERM08 L 080	8	80	24	12	M4	8	0.5 - 5	ER 08	E08M
D08 ERM08 L 125	8	125	20	12	M4	8	0.5 - 5	ER 08	E08M
D12 ERM08 L 100	12	100	16	12	M4	8	0.5 - 5	ER 08	E08M
D12 ERM11 L 100	12	100	27	16	M6	10	0.5 - 7	ER 11	E11M
D16 ERM11 L 100	16	100	22	16	M6	10	0.5 - 7	ER 11	E11M
D16 ERM11 L 160	16	160	22	16	M6	10	0.5 - 7	ER 11	E11M
D16 ERM16 L 060	16	60	37	22	M8	18	0.5 - 10	ER 16	E16M
D16 ERM16 L 160	16	160	37	22	M8	18	0.5 - 10	ER 16	E16M
D20 ERM11 L 050	20	50	22	16	M6	10	0.5 - 7	ER 11	E11M
D20 ERM11 L 100	20	100	22	16	M6	10	0.5 - 7	ER 11	E11M
D20 ERM16 L 060	20	60	30	22	M10	18	0.5 - 10	ER 16	E16M
D20 ERM16 L 100	20	100	30	22	M10	18	0.5 - 10	ER 16	E16M
D20 ERM16 L 130	20	130	30	22	M10	18	0.5 - 10	ER 16	E16M
D20 ERM16 L 160	20	160	30	22	M10	18	0.5 - 10	ER 16	E16M
D20 ERM16 L 200	20	200	30	22	M10	18	0.5 - 10	ER 16	E16M
D20 ERM20 L 060	20	60	37	28	M10	22	1.0 - 13	ER 20	E20M
D20 ERM20 L 100	20	100	37	28	M10	22	1.0 - 13	ER 20	E20M
D20 ERM20 L 130	20	130	37	28	M10	22	1.0 - 13	ER 20	E20M
D20 ERM20 L 160	20	160	37	28	M10	22	1.0 - 13	ER 20	E20M
D20 ERM20 L 200	20	200	37	28	M10	22	1.0 - 13	ER 20	E20M
D25 ERM16 L 160	25	160	36	22	M10	18	0.5 - 10	ER 16	E16M
D25 ERM20 L 160	25	160	37	28	M10	22	1 - 13	ER 20	E20M
D25 ERM25 L 160	25	160	46	35	M10	24	1 - 16	ER 25	E25M

Ordering Example :- D 16 ERM16 L 150 -2 Nos

MORSE TAPER COLLET CHUCK ER (MTB PULL TYPE) DIN 228-A

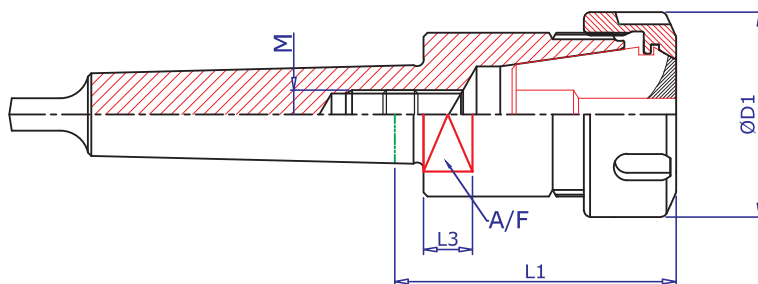


Maximum runout of MOUNTING taper to INTERNAL taper 0.005mm

Item Description	Ø D1	L1	M	A/F	L3	Clamping Capacity	Suitable Collet	Suitable Spanner
MT1 ER11 025G.P	19	25	M6	10	6	0.5 - 7	ER 11	GS 17
MT1 ER16 045G.P	28	45	M6	18	8	0.5 - 10	ER16	GS25
MT2 ER16 042G.P	28	42	M6	18	8	0.5 - 10	ER16	GS25
MT2 ER20 048G.P	34	48	M8	22	10	1 - 13	ER20	GS30
MT3 ER25 052G.P	42	52	M12	24	12	1 - 16	ER25	E 25
MT3 ER32 070G.P	50	70	M12	24	12	2 - 20	ER32	E 32
MT4 ER25 052G.P	42	52	M12	32	15	1 - 16	ER25	E 25
MT4 ER32 054G.P	50	54	M12	32	15	2 - 20	ER32	E 32
MT4 ER40 075G.P	63	75	M16	32	15	3 - 26	ER40	E 40
MT4 ER50 105G.P	78	105	M16	32	15	10 - 34	ER50	E 50
MT5 ER40 082G.P	63	82	M16	45	18	3 - 26	ER40	E 40
MT5 ER50 100G.P	78	100	M16	45	18	10 - 34	ER50	E 50

Ordering Example :- MT3A ER25 052 -2 Nos

MORSE TAPER COLLET CHUCK ER (MTA TANG TYPE) DIN 228-B

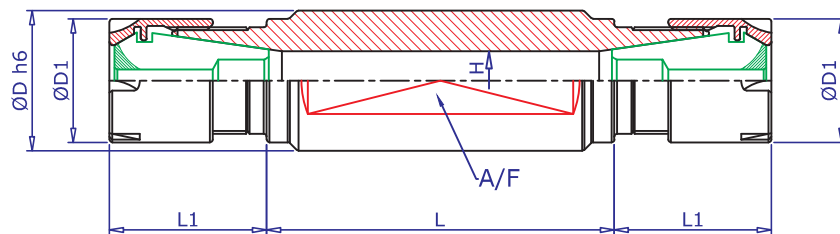


Maximum runout of MOUNTING taper to INTERNAL taper 0.005mm

Item Description	Ø D1	L1	M	A/F	L3	Clamping Capacity	Suitable Collet	Suitable Spanner
MT1 ER11 025G.P	19	25	M6	10	6	0.5 - 7	ER 11	GS 17
MT1 ER16 045G.P	28	45	M6	18	8	0.5 - 10	ER16	GS25
MT2 ER16 042G.P	28	42	M6	18	8	0.5 - 10	ER16	GS25
MT2 ER20 048G.P	34	48	M8	22	10	1 - 13	ER20	GS30
MT3 ER25 052G.P	42	52	M12	24	12	1 - 16	ER25	E 25
MT3 ER32 070G.P	50	70	M12	24	12	2 - 20	ER32	E 32
MT4 ER25 052G.P	42	52	M12	32	15	1 - 16	ER25	E 25
MT4 ER32 054G.P	50	54	M12	32	15	2 - 20	ER32	E 32
MT4 ER40 075G.P	63	75	M16	32	15	3 - 26	ER40	E 40
MT4 ER50 105G.P	78	105	M16	32	15	10 - 34	ER50	E 50
MT5 ER40 082G.P	63	82	M16	45	18	3 - 26	ER40	E 40
MT5 ER50 100G.P	78	100	M16	45	18	10 - 34	ER50	E 50

Ordering Example :- MT3 B ER32 070 -2 Nos

MULTI SPINDLE ER CYLINDRICAL COLLET CHUCK WITH M NUTS.

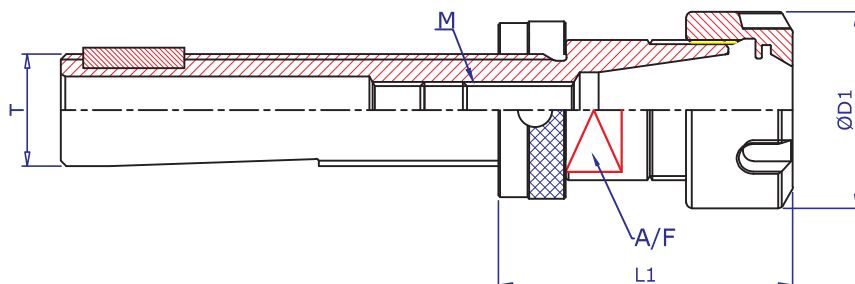


Maximum runout of MOUNTING dia to INTERNAL taper 0.005mm

Item Description	Ø D h6	L	L1	Ø D1	A/F	H	Clamping Capacity	Suitable Collet	Suitable Spanner
D16 ERM11 L 050	16	50	20	16	14	7.50	0.5 - 7	ER11	E11 M
D20 ERM11 L 050	20	30	20	16	18	7.50	0.5 - 7	ER11	E11 M
D20 ERM11 L 050	20	50	20	16	18	7.50	0.5 - 7	ER11	E11 M
D20 ERM16 L 055	20	55	26	22	18	10.50	0.5 - 10	ER16	E16 M
D22 ERM16 L 055	22	55	28	22	19	10.50	0.5 - 10	ER16	E16 M
D22 ERM16 L 075	22	75	28	22	19	10.50	0.5 - 10	ER16	E16 M
D25 ERM16 L 062	25	62	28	22	22	10.50	0.5 - 10	ER16	E16 M
D32 ERM20 L 055	32	55	28	28	27	13.50	1 - 13	ER20	E20 M
D32 ERM20 L 075	32	75	28	28	27	13.50	1 - 13	ER20	E20 M

Ordering Example :- D20 ERM16 L 055 -2 Nos

TRAPEZOIDAL THREAD SHANK 'ER' COLLET CHUCK ADAPTORS (DIN 6327-C)

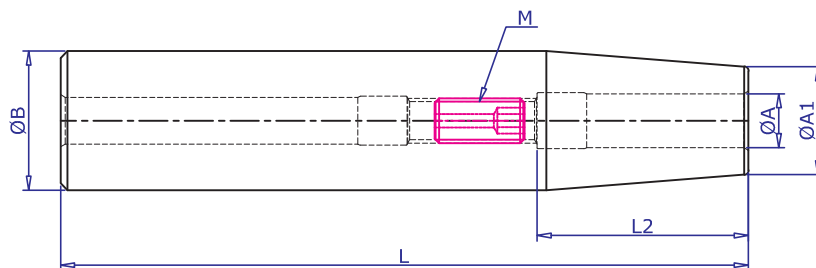


Maximum runout of MOUNTING dia to INTERNAL taper 0.005mm

Item Description	T	Ø D1	L1	M	A/F	Clamping Capacity	Suitable Collet	Suitable Spanner
Tr12 ER11 050 G.P	Tr12 X 1.5	19	50	M6	10	0.5 - 7	ER11	GS 17
Tr12 ER16 060 G.P	Tr12 X 1.5	28	60	M6	18	0.5 - 10	ER16	GS 25
Tr16 ER16 060 G.P	Tr16 X 1.5	28	60	M10	18	0.5 - 10	ER16	GS 25
Tr16 ER20 060 G.P	Tr16 X 1.5	34	60	M10	22	1 - 13	ER20	E 20
Tr20 ER20 060 G.P	Tr20 X 2	34	60	M10	22	1 - 13	ER20	E 20
Tr28 ER25 060 G.P	Tr28 X 2	42	60	M12	24	1 - 16	ER25	E 25
Tr28 ER32 060 G.P	Tr28 X 2	50	60	M12	36	2 - 20	ER32	E 32

Ordering Example :- Tr16 ER20 060 -2 Nos

CYLINDRICAL SHRINK FIT ADAPTOR.



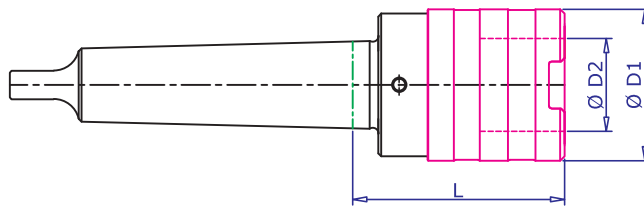
Maximum runout of MOUNTING dia to INTERNAL dia 0.003mm

Item Description	Tool Shank	Ø A	Ø A1	Ø B	L	L2	M
D16 SFA06 150	Cyl-Shank	6	10	16	150	36	M5
D20 SFA06 150	Cyl-Shank	6	10	20	150	36	M5
D20 SFA08 150	Cyl-Shank	8	12	20	150	36	M6
D20 SFA10 150	Cyl-Shank	10	14	20	150	42	M8
D20 SFA12 150	Cyl-Shank	12	16	20	150	47	M10
D25 SFA08 150	Cyl-Shank	8	21	25	150	36	M6
D25 SFA10 150	Cyl-Shank	10	21	25	150	42	M8
D25 SFA12 150	Cyl-Shank	12	21	25	150	47	M10
D25 SFA14 150	Cyl-Shank	14	21	25	150	47	M10
D25 SFA16 150	Cyl-Shank	16	22	25	150	50	M12
D32 SFA10 150	Cyl-Shank	10	24	32	150	42	M8
D32 SFA12 150	Cyl-Shank	12	24	32	150	47	M10
D32 SFA14 150	Cyl-Shank	14	27	32	150	47	M10
D32 SFA16 150	Cyl-Shank	16	27	32	150	50	M12
D32 SFA18 150	Cyl-Shank	18	27	32	150	50	M12
D32 SFA20 150	Cyl-Shank	20	27	32	150	52	M16

Ordering Example :- D20 SFA10 L150 -2Nos

SWIFT CHANGE TAPPING CHUCK (SWFLK)

TYPE SWFLK / MORSE TAPER (DIN 228-B)

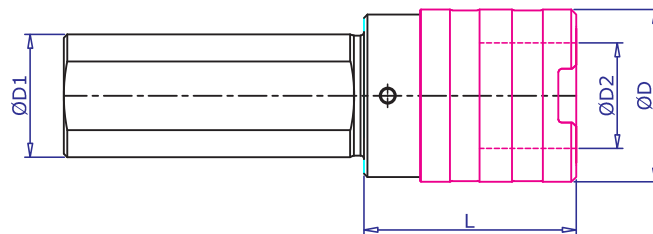


Morse Taper Shank (DIN228 B) (SWFLK)

Ordering Example :- SWFLK2 / MT2 -02Nos.

Item Description	Chuck Capacity	Suitable Adaptors	Length Comp.		Ø D1	Ø D2	MT 2 L	MT 3 L	MT 4 L	MT 5 L
			Compr	Expan						
SWFLK1/MT #	M3-M12	SWES1B / SWE1	7.50	7.50	36	19	47	47	-	-
SWFLK2/MT #	M8-M20	SWES2B / SWE2	12.50	12.50	53	31	-	71	72	-
SWFLK3/MT #	M14-M33	SWES3B / SWE3	20.00	20.00	78	48	-	-	105	105.5

TYPE SWFLK / CYLINDRICAL SHANK

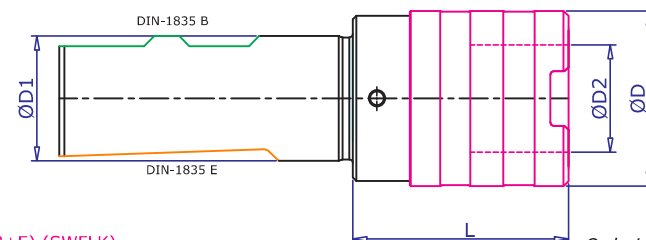


Cylindrical Shank (SWFLK)

Ordering Example :- SWFLK2 / DIA32 -02Nos.

Item Description	Chuck Capacity	Suitable Adaptors	Length Comp.		Ø D	Ø D1	Ø D2	L
			Compr.	Expan.				
SWFLK1/ DIA #	M3-M12	SWES1B / SWE1	7.50	7.50	36	20/25/32/40/3/4"/1"	19	40
SWFLK2/ DIA #	M8-M20	SWES2B / SWE2	12.50	12.50	53	25 / 32 / 40 / 1"	31	63
SWFLK3/ DIA #	M14-M33	SWES3B / SWE3	20.00	20.00	78	32 / 40 / 1-1/2"	48	125

TYPE SWFLK / CYLINDRICAL SHANK WELDON (DIN-1835 B+E)

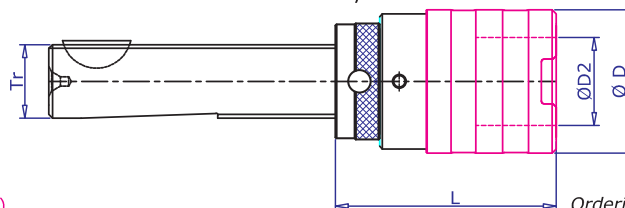


Cylindrical Shank (DIN-1835 B+E) (SWFLK)

Ordering Example :- SWFLK2 / DIA32 -02Nos.

Item Description	Chuck Capacity	Suitable Adaptors	Length Comp.		Ø D	Ø D1	Ø D2	L
			Compr.	Expan.				
SWFLK1/ DIA #	M3-M12	SWES1B / SWE1	7.50	7.50	36	20/25/32/40/3/4"/1"	19	40
SWFLK2/ DIA #	M8-M20	SWES2B / SWE2	12.50	12.50	53	25 / 32 / 40 / 1"	31	63
SWFLK3/ DIA #	M14-M33	SWES3B / SWE3	20.00	20.00	78	32 / 40 / 1-1/2"	48	125

TYPE SWFLK / Tr--DIN 6327



Tr Shank (DIN-6327) (SWFLK)

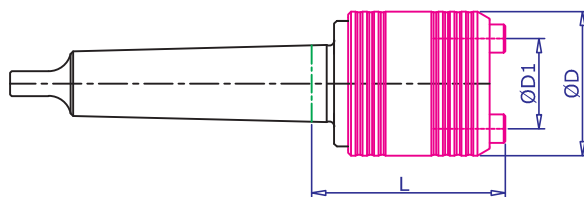
Ordering Example :- SWFLK2/ Tr-20X2 -02Nos.

Item Description	Chuck Capacity	Suitable Adaptors	Length Compens		Ø D	Ø D2	Tr16X1.5 L	Tr20X2 L	Tr28X2 L	Tr36X2 L	Tr48X2 L
			Compr	Expan							
SWFLK1/Tr #	M3-M12	SWES1B / SWE1	7.50	7.50	36	19	52	52	52	-	-
SWFLK2/Tr #	M8-M20	SWES2B / SWE2	12.50	12.50	53	31	-	-	76	78	-
SWFLK3/Tr #	M14-M33	SWES3B / SWE3	20.00	20.00	78	48	-	-	109	111	115

NOTE:- FOR TAP ADAPTORS AND TAP TECHNICAL SPECIFICATION PLEASE REFER PAGE NO. 164, 165, 166, 167

RIGID TAPPING CHUCK

SQ / MORSE TAPER

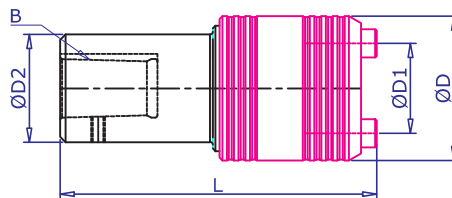


(Morse Taper Shank)

(No Compression & No Expansion)

Item Description	Chuck Capacity	Suitable Adaptors	Ø D	Ø D1	MT 1	MT 2	MT 3	MT 4
					L	L	L	L
SQ 3-12 / MT--	M3 - M12	SWES1B / SWE1	32.0	19	40	40	40	-
SQ 8-20 / MT--	M8 - M20	SWES2B / SWE2	50.0	31	-	61	61	62

SQ SHORT INTERNAL TAPER (B..)

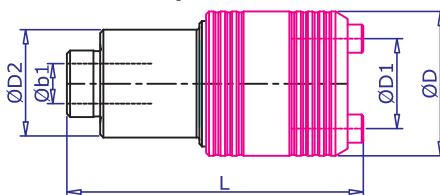


(Short Internal Taper)

(No Compression & No Expansion)

Item Description	Chuck Capacity	Suitable Adaptors	Ø D	Ø D1	Ø D2	B12	B16	B18
						L	L	L
SQ 3-12 / B--	M3 - M12	SWES1B / SWE1	32.0	19	27.9	59	65	73
SQ 8-20 / B--	M8 - M20	SWES2B / SWE2	50.0	31	44.8	-	80	88

SQ INTERNAL DIA

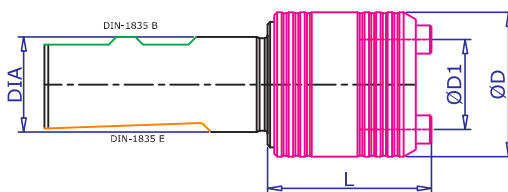


(Internal Dia)

(No Compression & No Expansion)

Item Description	Chuck Capacity	Suitable Adaptors	Ø D	Ø D1	Tr16	Tr20	Tr28	Tr36
					L	L	L	L
SQ 3-12 / Tr--	M3 - M12	SWES1B / SWE1	32.0	19	46	49	49	-
SQ 8-20 / Tr--	M8 - M20	SWES2B / SWE2	50.0	31	-	66	66	68

SQ CYLINDRICAL SHANK WELDON (DIN-1835 B+E)

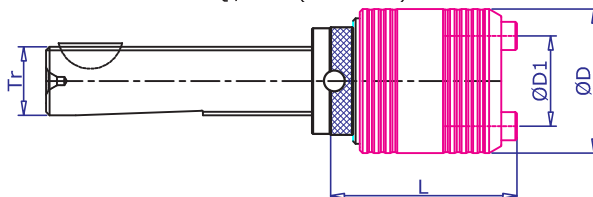


Cylindrical Shank (DIN-1835 B+E)

(No Compression & No Expansion)

Item Description	Chuck Capacity	Suitable Adaptors	Ø D	Ø D1	3/4"	1"	25mm	32mm
					L	L	L	L
SQ 3-12 / DIA--	M3 - M12	SWES1B / SWE1	32.0	19	44	44	44	44
SQ 8-20 / DIA--	M8 - M20	SWES2B / SWE2	50.0	31	-	61	61	61

SQ / TR.. (DIN 6327)



Adjustable Adapter Shank (DIN-6327)

(No Compression & No Expansion)

Item Description	Chuck Capacity	Suitable Adaptors	Ø D	Ø D1	Ø D2	Ø b1	L
SQ 8-20 / DIA 16	M8 - M20	SWES2B / SWE2	50.0	31	44.8	16	86.5
SQ 8-20 / DIA 25	M8 - M20	SWES2B / SWE2	50.0	31	44.8	25	103.0

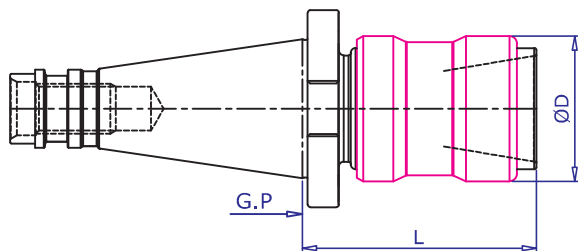
Precision Tool Holder

- Quick Change Drilling & Tapping Chucks
 - i) QCDTC Main Body
 - ii) QCDA Series Adaptors
- Key Less Drill Chuck & Arbor
- CNC High Speed Revolving Centers
- CNC Dead Centers
- CNC Sleeves

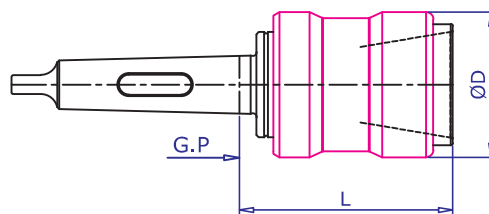
● INDEX ●

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03	Keyless Precision Drill Chuck * Type : Keyless Drill 0-65 * Type : Keyless Drill 1-13	130
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CHUCK TYPE SCDTC../ISO



CHUCK TYPE SCDTC../MT.



Vertical as well as Horizontal Applications
Drilling / Conuterboring /Chamfering
Reaming / Tapping Application

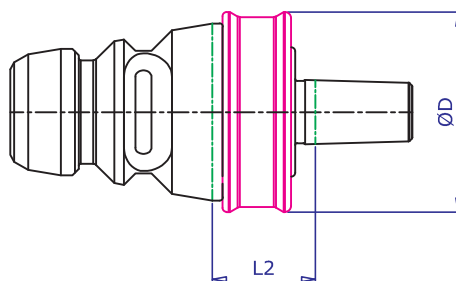
Taper Angle AT3 Class .

Item Description	Suitable Adaptor	Ø D	Morse Taper				ISO Taper	
			MT2 L	MT3 L	MT4 L	MT5 L	ISO 40 L	ISO 50 L
SCDTC 2 #	SIZE 2	50.0	75.0	75.0	—	—	96.0	—
SCDTC 3 #	SIZE 3	60.0	—	88.0	89.0	—	109.0	99.0

Ordering Example :-SIDDHI Chuck SCDTC 3/ISO50

Ordering Example :-SIDDHI Chuck SCDTC 3/MT-3

ADAPTOR TYPE --- Drill Chuck Arbor.

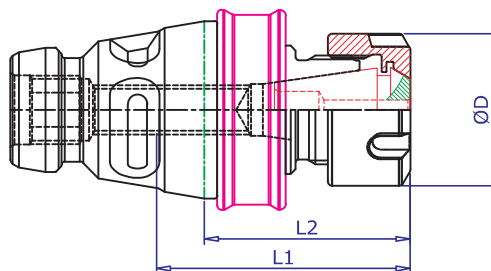


ADAPTOR TYPE SCDCA.../B

Item Description	Suitable Chuck	Ø D	Stub Taper Din 238 'L2'	
			B12	B16
SCDCA 2	SCDTC 2	42	21.5	26
SCDCA 3	SCDTC 3	50	26	26

Ordering Example :-SIDDHI Adaptor SCDCA 3/B16

ADAPTOR TYPE --- ER Collet Chuck.

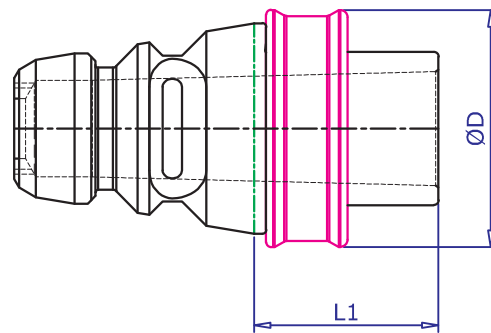


ADAPTOR TYPE SCCCA.../E

Item Description	Suitable Adaptor	Ø D	Tool Insertion Length L1		Er16 Collet 1-10 mm L2	ER32 Collet 3-30 mm L2	Suitable Spanner
			Min	Max			
SCCCA 2/ER16	SCDTC 2	42	30	50	42	-	GS25
SCCCA 3/ER---	SCDTC 3	50	40	60	42	51	E32

Ordering Example :-SIDDHI Adaptor SCCCA 3/ER32

ADAPTOR TYPE --- Morse Taper Drill Shank.

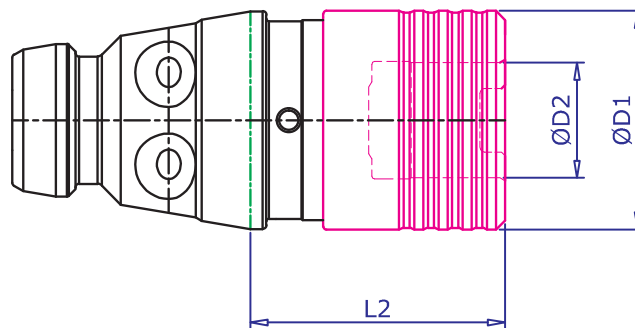


ADAPTOR TYPE SCDA.. /MT
WITH INTERNAL MORSE TAPER DIN-228

Item Description	Suitable Chuck	Ø D	Tool Location (Morse Taper)		
			MT1 (L1)	MT2 (L1)	MT3 (L1)
SCDA 2	SCDTC 2	42	18	30.5	-
SCDA 3	SCDTC 3	50	20.5	20.5	38.5

Ordering Example :-SIDDHI Adaptor SCDA 3/MT3

ADAPTOR TYPE --- Tapping Chuck.

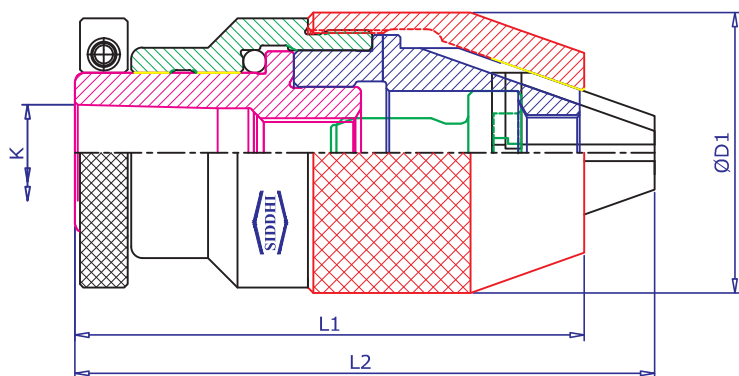


ADAPTOR TYPE SCTAH /...

Item Description	Suitable Adaptor	Chuck Capacity	Suitable for Chuck	Length Compens		Ø D1	Ø D2	L2
				Comp	Exp			
SCTAH 2/1	SWE1/SWES 1B	M3-M12	SCDTC 2	7.5	7.5	36	19	42
SCTAH 2/2	SWE2/WES 2B	M8-M20	SCDTC 2	12.5	12.5	53	31	72
SCTAH 3/1	SWE1/WES 1B	M3-M12	SCDTC 3	7.5	7.5	36	19	42
SCTAH 3/2	SWE2/WES 2B	M8-M20	SCDTC 3	12.5	12.5	53	31	66
SCTAH 3/3	SWE3/WES 3B	M14-M33	SCDTC 3	20.0	20.0	78	48	126

Ordering Example :-SIDDHI Adaptor SCTAH 3/1

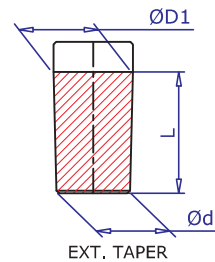
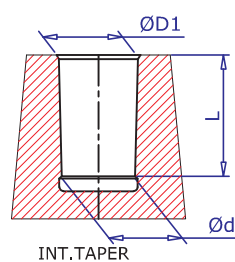
NOTE:- FOR TAP ADAPTORS AND TAP TECHNICAL SPECIFICATION PLEASE REFER PAGE NO. 164, 165, 166, 167



Item Description	Mounting Tapers 'K'	L1	L2	Ø D1	Wt.in Kg.
0 - 6.5 : 0- 1/4"	B12 / J1 / J2a	61.5	68	34	0.29
1- 13 : 1/32"- 1/2"	B16 / J6	90.5	103	50	0.945

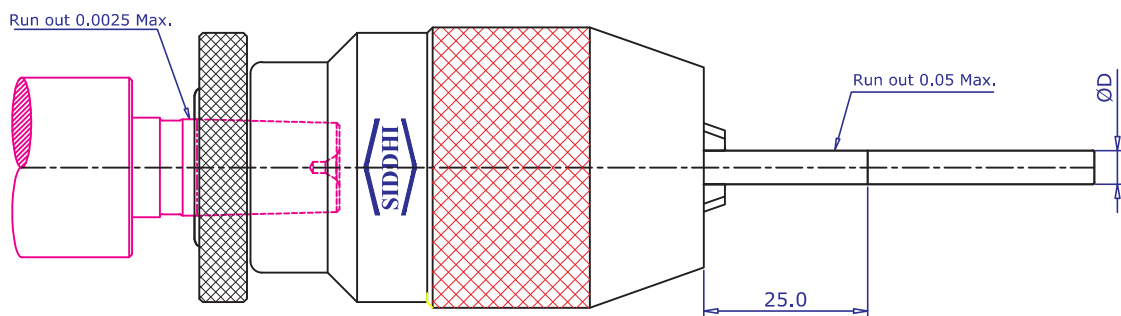
Ordering Example :-SIDDHI Keyless Drill Chuck 1-13 / B12 QTY -5 Nos

K	Ø D1	Ø d	L
B12	12.065	11.10	18.50
B16	15.733	14.50	24.0
J1	9.754	8.649	16.669
J6	17.170	15.852	25.400
J2a	13.940	12.386	19.050



MORSE TAPER ADAPTORS FOR DRILLS (EXTRA LONG)

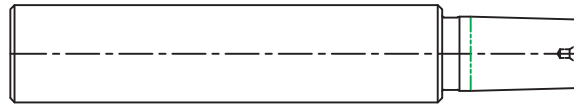
RUN OUT TESTING AS PER DIN-6349 PART 5



SIZE	Ø D
0.65	6
1.13	12

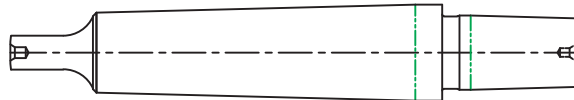
CYLINDRICAL ARBOR

CYLINDRICAL ARBORS FOR TURRETS
e.g 1"X2.5 : Lg.



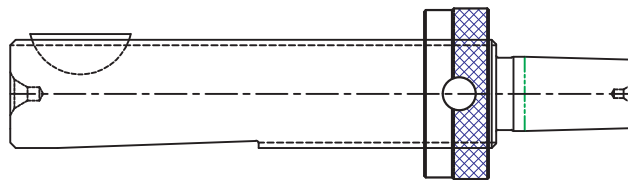
MORSE TAPER TANG TYPE ARBOR.

ARBORS TANG & DRAW TYPE IN
MT1, MT2, MT3, MT4 & MT5



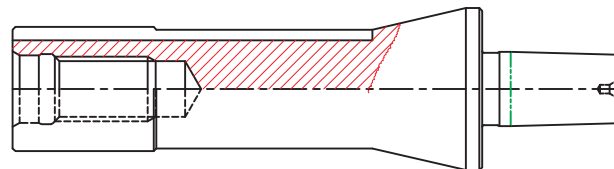
AUTOMOTIVE SHANK Tr/ACME ARBOR.

ADJUSTABLE ADAPTOR FOR
EASY "LENGTH ADJUSTMENT"



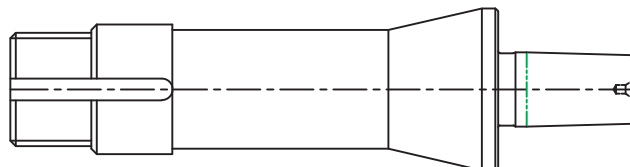
R8/M1TR ARBOR

ARBOR FOR MOUNTING ON M1TR,
BRIDGPORT TOOL MILLS.



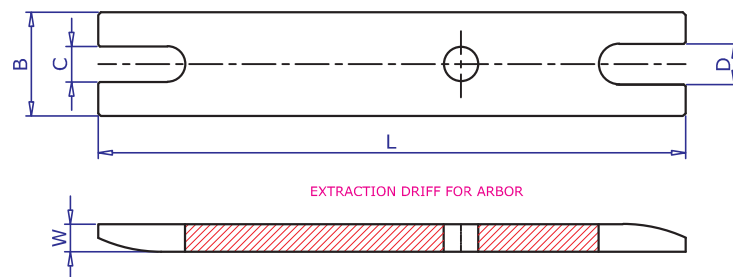
A3/A4 FOR TRAUB ARBOR.

COLLET TYPE ARBORS IN
A3 & A4 FOR TRAUB.



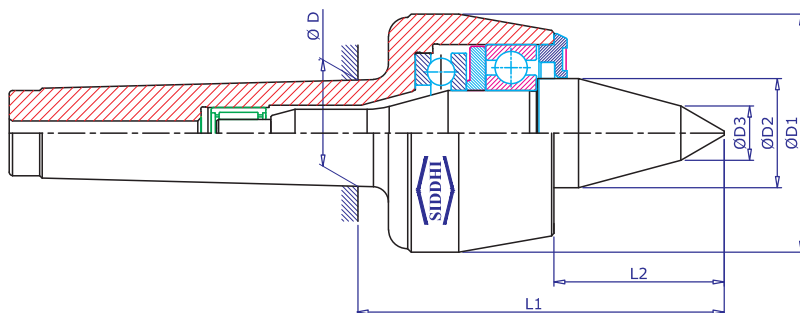
NOTE:- Run out of tapers is guaranteed within 0.005mm.
all above arbors are available in B12 and B16 tapers for 0.65 and 1.13 keyless drill chucks respectively.

SPECIAL DRIFT FOR EXTRACTING DRILL CHUCK FROM ARBOR.



Drift Key For Drill Chuck	L	B	C	D	W	G.g
0 - 6.5 : 0- 1/4"	170.0	30.0	10.3	12.5	8.0	0.25
1- 13 : 1/32"- 1/2"	121.0	40.0	16.0	18.0	10.0	0.5

EXTENDED CENTER POINT BULLET



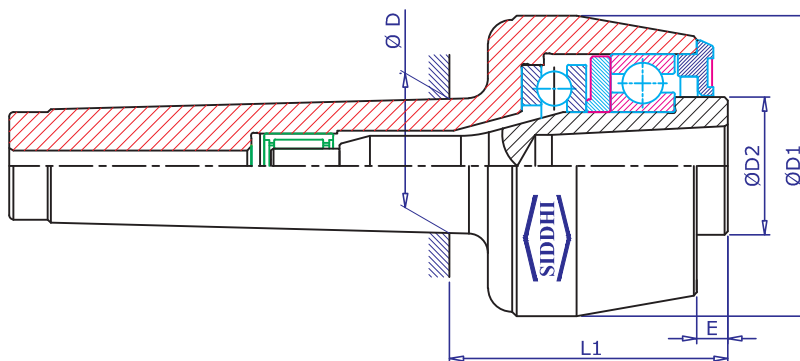
APPLICATION

For counter-clamping workpieces on turning and grinding machine.
Especially suited for cramped work area between center point and workpiece.

Maximum runout of MOUNTING Taper to 60° Angle 0.005mm

Item Description	Ø D 1	Ø D 2	Ø D 3	Ø D	L1	L2	Speed Max
MT3 Live Center With Bullet	58.5	25.0	12.0	23.825	95.50	47.0	5000
MT4 Live Center With Bullet	68.5	32.0	14.0	31.267	114.50	53.0	3800

INTERCHANGEABLE CENTER BULLET



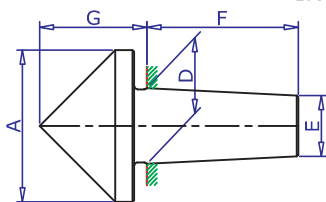
APPLICATION

For counter-clamping workpieces on turning and grinding machine.

Maximum runout of MOUNTING Taper to 60° Angle 0.005mm

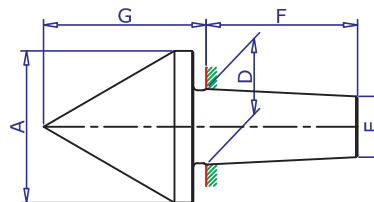
Item Description	Ø D 1	Ø D 2	Ø D	E	L1	Speed Max
MT3 Live Center With Int- Bullet	58.5	25.0	23.825	5.5	55.0	5000
MT4 Live Center With Int- Bullet	68.5	32.0	31.267	5.0	67.0	3800

INTERCHANGEABLE BULLETS



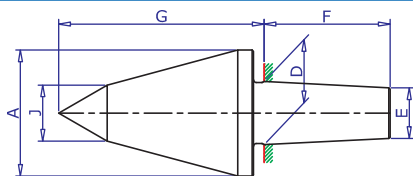
Interchangeable Bullet 90 °

Item Description	A mm	D mm	E mm	F mm	G mm
MT3 Live Center Int- Bullet.	24.0	12.0	9.6	24.0	19.0
MT4 Live Center Int- Bullet.	28.0	15.0	12.0	30.0	21.5



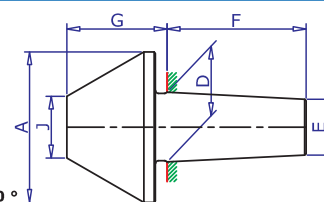
Interchangeable Bullet 60 °

Item Description	A mm	D mm	E mm	F mm	G mm
MT3 Live Center Int- Bullet.	24.0	12.0	9.6	24.0	22.5
MT4 Live Center Int- Bullet.	28.0	15.0	12.0	30.0	25.5



Interchangeable Bullet for tubular workpieces 60 °

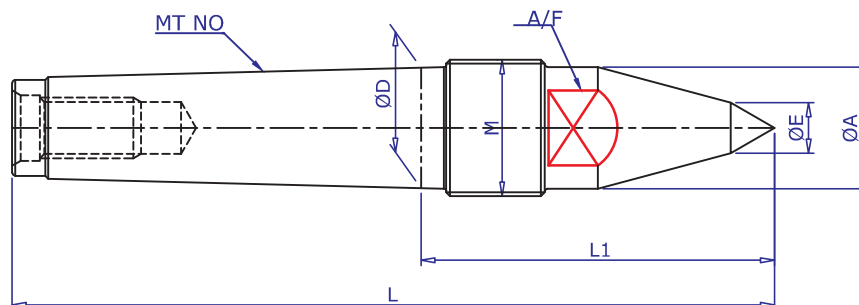
Item Description	A mm	D mm	E mm	F mm	G mm	J mm
MT3 Live Center Int- Bullet.	18.0	12.0	9.6	24.0	30.0	8.0
MT4 Live Center Int- Bullet.	26.0	15.0	12.0	30.0	43.0	12.0



Interchangeable Bullet for Pipe 60 °

Item Description	A mm	D mm	E mm	F mm	G mm	J mm
MT3 Live Center Int- Bullet.	45.0	12.0	9.6	24.0	27.0	25.0
MT4 Live Center Int- Bullet.	55.0	15.0	12.0	30.0	31.5	30.0

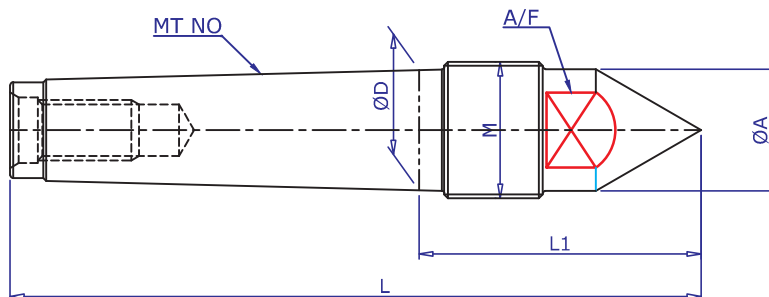
CNC DEAD CENTER WITH DRAW OFF NUT.



Maximum runout of MOUNTING Taper to 60° Angle 0.005mm

MT NO	Ø D	L	L1	Ø E	Ø A	M	A/F
MT2	17.78	118	54	10	18.0	M22X1.5P	14
MT3	23.825	148	67	10	24.10	M27X1.5P	19
MT4	31.267	186.5	84	14	36.60	M36X1.5P	27
MT5	44.399	242	112	16	44.70	M48X1.5P	36
MT6	63.348	330	148	20	63.80	M68X1.5P	55

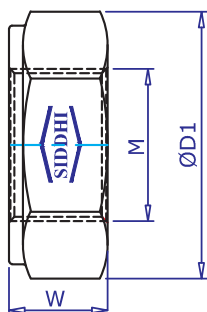
FULL MALE CENTER WITH DRAW OFF NUT.



Maximum runout of MOUNTING Taper to 60° Angle 0.005mm

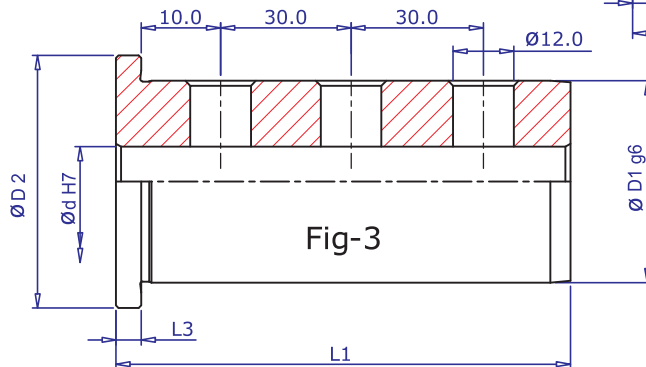
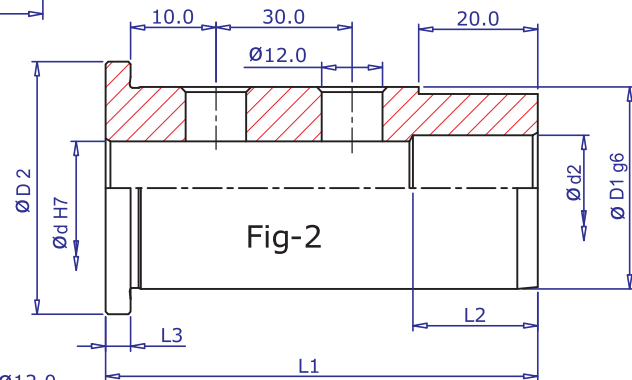
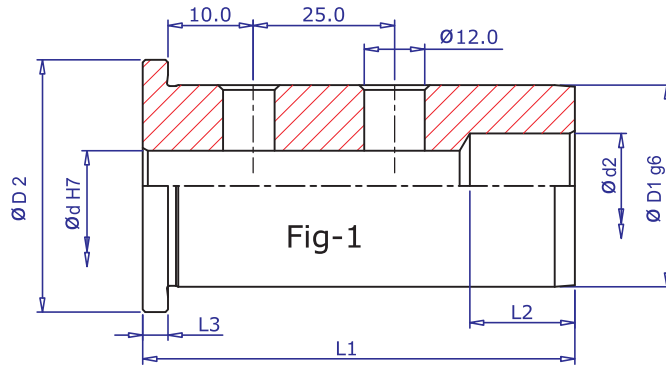
MT NO	Ø D	L	L1	Ø A	M	A/F
MT1	12.065	90	36.5	12.2	M16X1.5P	10
MT2	17.78	112	48.0	18.0	M22X1.5P	14
MT3	23.825	138	57.0	24.1	M27X1.5P	19
MT4	31.267	175	72.5	31.6	M36X1.5P	27
MT5	44.399	217	87.5	44.7	M48X1.5P	36
MT6	63.348	290	108.0	63.8	M68X1.5P	55

DRAW OFF NUT (DIN-807)



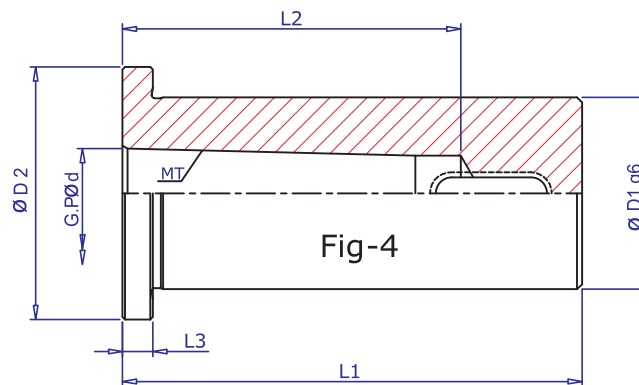
DRAW-OFF NUT(DIN-807)			
MT NO	W	Ø D1	M
MT1	12.0	25.0	M16X1.5P
MT2	15.5	32.0	M22X1.5P
MT3	17.5	41.0	M27X1.5P
MT4	21.0	55.0	M36X1.5P
MT5	23.0	75.0	M48X1.5P
MT6	25.5	100.0	M68X1.5P

CNC LATHE TURRET SLEEVE (TYPE-A)



Maximum runout of external dia to the internal dia 0.005mm

MORSE TAPER CNC SLEEVE. (TYPE-B)



Maximum runout of external dia. to internal taper 0.005mm.

CNC LATHE TURRET SLEEVE (TYPE-A)

Item Description	ΦD1 g6	ΦD2	Φ d H7	Φ d2	L1	L2	L3	FIG
CLY 32 / 8	32	39	8	10	85	45	5	1
CLY 32 / 10	32	39	10	12	85	45	5	1
CLY 32 / 12	32	39	12	14	85	45	5	1
CLY 32 / 16	32	39	16	18	85	35	5	2
CLY 32 / 20	32	39	20	-	85	-	5	3
CLY 32 / 25	32	39	25	-	85	-	5	3
CLY 40 / 8	40	47	8	10	85	45	5	1
CLY 40 / 10	40	47	10	12	85	45	5	1
CLY 40 / 12	40	47	12	14	85	45	5	1
CLY 40 / 16	40	47	16	18	85	35	5	2
CLY 40 / 20	40	47	20	-	90	-	5	3
CLY 40 / 25	40	47	25	-	90	-	5	3
CLY 40 / 32	40	47	32	-	90	-	5	3

MORSE TAPER CNC LATHE TURRET SLEEVE (TYPE-B)

Item Description	ΦD1 g6	ΦD2	G.P Φd	L1	L2	L3	Taper No	FIG
CLY 25 / MT-1	25	33	12.065	65	56	5	MT-1	4
CLY 25 / MT-2	25	33	17.780	75	67	10	MT-2	4
CLY 32 / MT-1	32	39	12.065	65	56	5	MT-1	4
CLY 32 / MT-2	32	39	17.780	75	67	10	MT-2	4
CLY 32 / MT-3	32	39	23.825	95	84	15	MT-3	4
CLY 40 / MT-1	40	50	12.065	91	56	6	MT-1	4
CLY 40 / MT-2	40	50	17.780	91	67	6	MT-2	4
CLY 40 / MT-3	40	50	23.825	95	84	10	MT-3	4
CLY 40 / MT-4	40	50	31.267	117	107	22	MT-4	4

Ordering Example :- DIA32 / 16 -2 Nos

Ordering Example :- DIA32 / MT-1 (2 Nos)

CNC LATHE TURRET SLEEVE (TYPE -C)

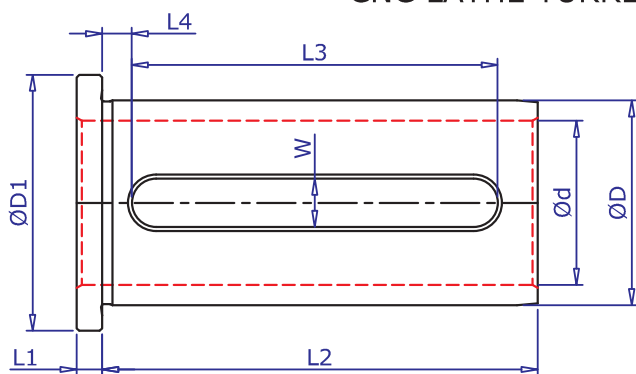


FIG-1

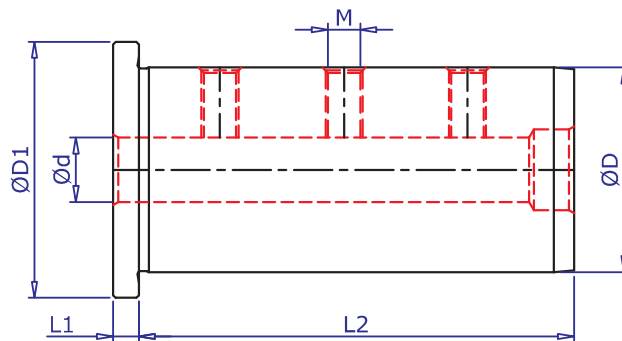


FIG-2

Maximum runout of external dia. to internal taper 0.005mm.

ΦD g6	Φ d H7	Φ D1	W	L1	L2	L3	L4	M	FIG
40	8, 10, 12	48	-	5	55	-	-	M6	2
40	16, 20, 25, 32	48	12	5	80	73	2	-	1
32	8, 10, 12	38	-	5	47	-	-	M6	2
32	16, 20, 25	38	10	5	60	52	3	-	1
25 *	8, 10, 12	33	-	5	50	-	-	M6	2
25 *	16	33	10	5	50	42	3	-	1
20 *	8, 10	28	-	5	50	-	-	M5	2
20 *	12	28	9	5	50	42	3	-	1
16 *	8	24	-	5	40	-	-	M4	2
16 *	10	24	7	5	40	32	3	-	1

* Marked items only manufactured against certain MOQ (minimum order quantity)

Ordering Example :- CLY40 / 25.0 -2 Nos

Drilling / Capstan Accessories For Precision and Productivity



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A-APPLICATION

PRECISION CUTTING TOOL HOLDING DEVICE FOR DRILLING / REAMING / COUNTER BORING IN VERTICAL OR HORIZONTAL POSITION WITH,

- 1) MULTI SPINDLE DRILL HEADS.
- 2) N/C AND CNC MACHINE
- 3) SPECIAL PURPOSE TRANSFER LINE MACHINE

B-ACHIEVEMENTS

- 1) ACCURATE DEPTH.
- 2) ACCURATE ADJUSTMENT.
- 3) SAVING OF CHANGE OVER TIME FOR TOOLS.

ORDERING

- 1) **SHORT ADJUSTABLE ADAPTOR WITH SHANK**
DIAMETER 'd' = 28 mm, MORSE TAPER NO. 2,
• AA28 X 2 I.S. 8919 - 1978 (PART-I)

- 2) **LONG ADJUSTABLE ADAPTOR WITH SHANK**

DIAMETER 'd' = 36 mm, MORSE TAPER NO. 3 & LENGTH 'L' = 108 mm.

• AA36 X 3 X 208 I.S. 8919-1978 (PART - II)

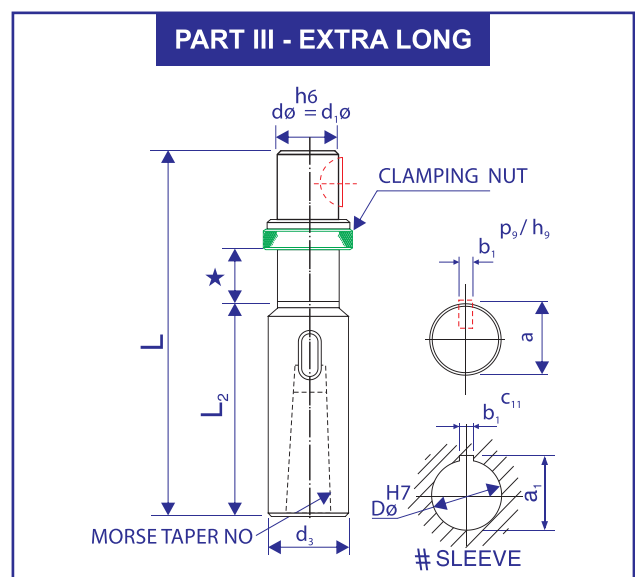
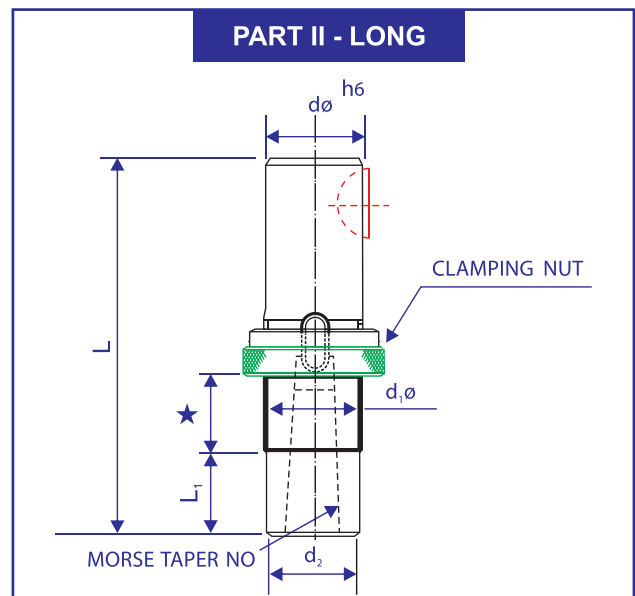
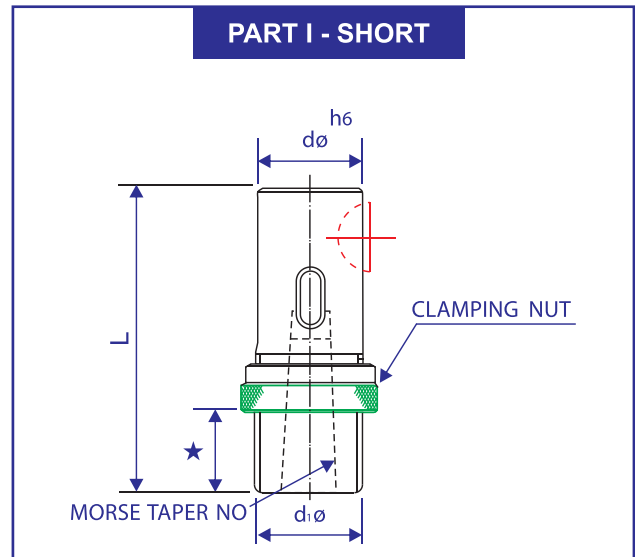
- 3) **EXTRA LONG ADJUSTABLE ADAPTOR WITH SHANK**

DIAMETER 'd' = 25 mm, MORSE TAPER NO. 3,
• AA25 X 3 I.S. 8919 - 1978 (PART - III).

• MATERIAL HEAT TREATMENT, ACCURACY AND OTHER DIMENSIONAL SPECIFICATION CONFIRMING TO I.S. 8919 - 1978.

• EACH ADJUSTABLE ADAPTOR CONSISTS OF WOODRUFF KEY & CLAMPING NUT WITH ALLEN GRUB SCREW.

• ADJUSTABLE ADAPTOR ARE SUITABLE FOR SPINDLE NOSE (SLEEVE) AS PER I.S. 8918 - 1978
SUGGESTED BORE IN THE SLEEVE FOR DIA 'd'
(+) = D^{H7}



PART I - SHORT

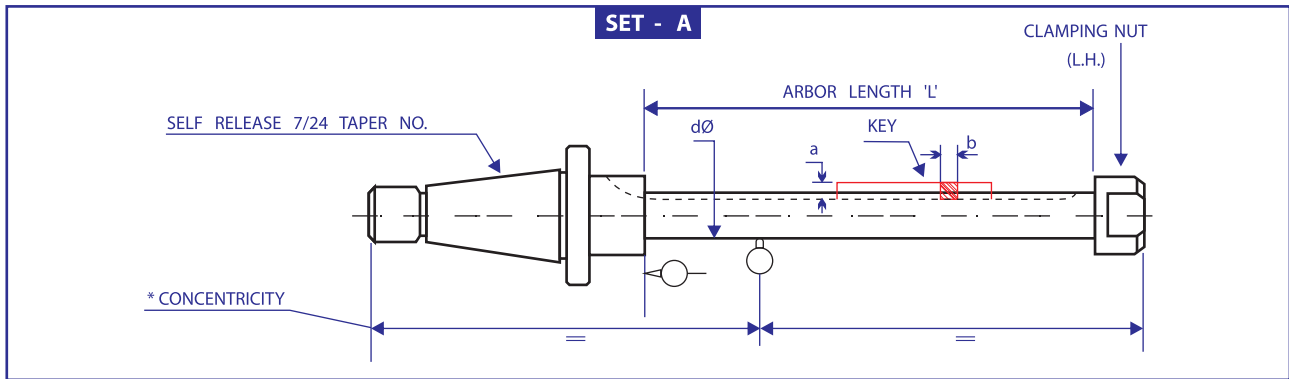
Designation	d $\varnothing$ +	d $_1$ $\varnothing$	MORSE TAPER No.	L	LENGTH OF ★ ADJ. MENT	d2	L1	d3	L2	KEYWAY IN A.A.		# KEYWAY IN sleeve	
										a	b	a $_1$	b $_1$
AA 16 X 0	16	Tr 16 X 1.5	MT - 0	85	28	--	--	--	--	17.1	5	17.3	5
AA 16 X 1			MT - 1										
AA 20 X 1	20	Tr 20 X 2	MT - 1	88	28	--	--	--	--	21.1	5	21.3	5
AA 25 X 1	25	Tr 25 X 2	MT - 1	95	30	--	--	--	--	26.5	6	26.7	6
AA 25 X 2			MT - 2										
AA 28 X 1	28	Tr 28 X 2	MT - 1	95	30	--	--	--	--	29.5	6	29.7	6
AA 28 X 2			MT - 2										
AA 36 X 2	36	Tr 36 X 2	MT - 2	118	36	--	--	--	--	37.5	8	37.7	8
AA 36 X 3			MT - 3										
AA 48 X 3	48	Tr 48 X 2	MT - 3	114	47	--	--	--	--	49.9	10	50.1	10
AA 48 X 4			MT - 4										

PART II - LONG

Designation	d $\varnothing$ +	d $_1$ $\varnothing$	MORSE TAPER No.	L	LENGTH OF ★ ADJ. MENT	d2	L1	d3	L2	KEYWAY IN A.A.		# KEYWAY IN sleeve	
										a	b	a $_1$	b $_1$
AA 16 X 0	16	Tr 16 X 1.5	MT - 0	110	28	14	25 50 75 100	--	--	17.1	5	17.3	5
AA 16 X 1			MT - 1	135									
				160									
				185									
AA 20 X 1	20	Tr 20 X 2	MT - 1	113 138 163 188	28	17	25 50 75 100	--	--	21.1	5	21.3	5
AA 25 X 1	25	Tr 25 X 2	MT - 1	120	30	22	25 50 75 100	--	--	26.5	6	26.7	6
AA 25 X 2			MT - 2	145									
				170									
				195									
AA 28 X 1	28	Tr 28 X 2	MT - 1	120	30	25	25 50 75 100	--	--	29.5	6	29.7	6
AA 28 X 2			MT - 2	145									
				170									
				195									
AA 36 X 2	36	Tr 36 X 2	MT - 2	148	36	33	30 60 90 120	--	--	37.5	8	37.7	8
AA 36 X 3			MT - 3	178									
				208									
				238									
AA 48 X 3	48	Tr 48 X 2	MT - 3	184	47	45	40 80 120 160	--	--	49.9	10	50.1	10
				224									
				264									
AA 48 X 4			MT - 4	304									

PART III - EXTRA LONG

Designation	d $\varnothing$ +	d $_1$ $\varnothing$	MORSE TAPER No.	L	LENGTH OF ★ ADJ. MENT	d2	L1	d3	L2	KEYWAY IN A.A.		# KEYWAY IN sleeve	
										a	b	a $_1$	b $_1$
AA 16 X 1	16	Tr 16 X 1.5	MT - 1	182	28	--	--	28	94	17.1	5	17.3	5
AA 16 X 2			MT - 2										
AA 20 X 2	20	Tr 20 X 2	MT - 2	182	28	--	--	28	94	21.1	5	21.3	5
AA 25 X 3	25	Tr 25 X 2	MT - 3	212	30	--	--	36	117	26.5	6	26.7	6
AA 28 X 3	28	Tr 28 X 2	MT - 3	212	30	--	--	36	117	29.5	6	29.7	6
AA 36 X 4	36	Tr 36 X 2	MT - 4	264	36	--	--	48	146	37.5	8	37.7	8

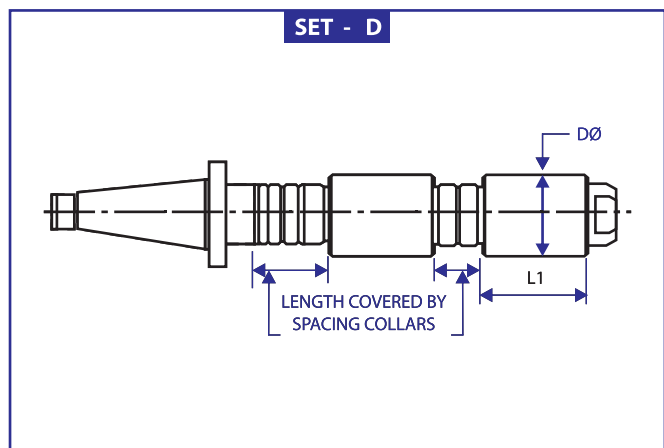
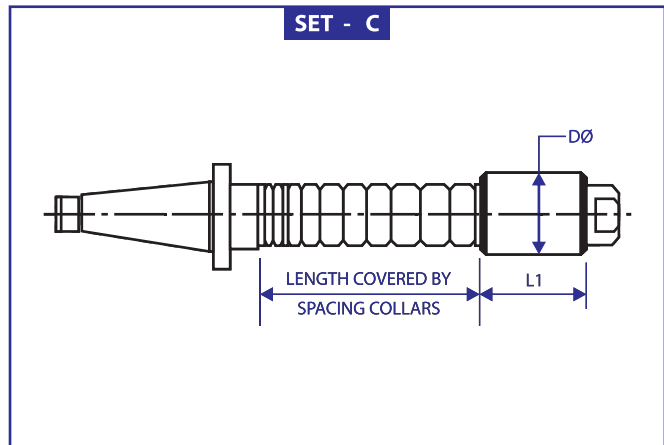
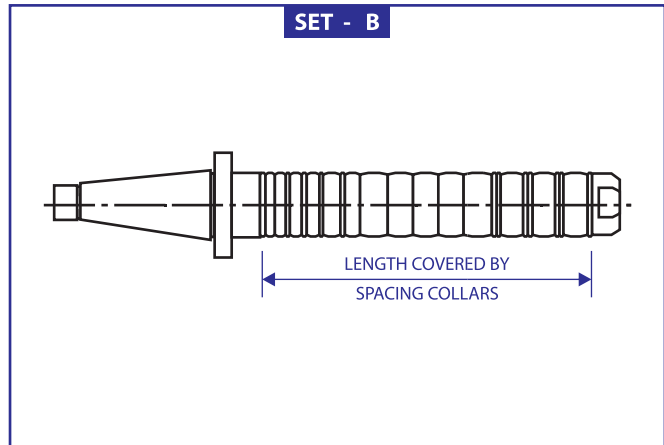


RANGE OF MANUFACTURE

- ISO - 40 IN LENGTH 'L' = 250 TO 630 IN STEPS
- ISO - 50 IN LENGTH 'L' = 250 TO 1000 IN STEPS
- SPACING COLLARS / BEARING COLLARS FOR ARBORS
- SPECIAL OR OTHER SIZE ARBORS ON REQUEST
- SIDDHI OFFERS LONG MILLING ARBORS WITH 7/24 SELF RELEASE TAPER NO. 40 & 50 TO MEET YOUR REQUIREMENT OF PRECISION MILLING OPERATION AS DETAILED IN CATALOGUE.
- THIS CAN BE AVAILABLE IN SET A,B,C & D AND ARE MANUFACTURED TO I.S. 8611-1977.
- EACH ARBOR IS SUPPLIED WITH KEY. (KEYWAY MANUFACTURED TO I.S. 6285-171) & NUT.
- SPACING COLLARS, BEARING COLLAR AND CLAMPING NUTS ARE CONFIRMING TO I.S. 8618, 8619 & 8620 -1977 RESPECTIVELY
- MATERIAL CASE HARDENED STEEL HARDNESS- 45 TO 52 HRC

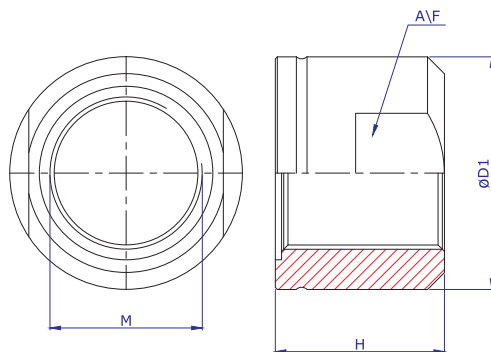
ORDERING EXAMPLE

- 1) SET - A - 7/24 TAPER NO 40, ARBOR DIA 'd' = 22 AND LENGTH 'L' = 250
7/24 TAPER 40X 22X 250 SET A
- 2) SET - B-7/24 TAPER NO. 40, ARBOR DIA 'd' = 22 AND LENGTH 250 WITH SET OF SPACING COLLARS. **7/24 TAPER 40 X 22 X 250 - SET B**
- 3) SET - C - 7/24 TAPER NO. 40, ARBOR DIA 'd' = 22 AND LENGTH 250, SET OF SPACING COLLARS WITH ONE BEARING COLLAR.
7/24 TAPER 40 X 22 X 250 & BEARING COLLAR 22 X 48 X 70 - SET C
- 4) SET - D - 7/24 TAPER No. 40, ARBOR DIA 'd' = 22 AND LENGTH 250, SET OF SPACING COLLAR AND TWO BEARING COLLARS.
7/24 TAPER 40 X 22 X 250 & BEARING COLLAR 22 X 48 X 70 - SET D



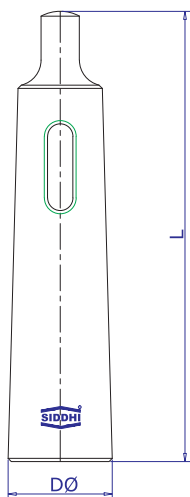
Arbor Length 'L'	Set	Arbor Diameters d Ø								Bearing Collars DØ X L1						Spacing Collar Thickness 't'	* Conc. IN µm	PARALLEL KEY a x b x l
		• 22	27	32	40	50	60	80	100	• 48 X 70	56 X 80	70 X 100	85 X 120	110 X 140	140 X 160			
• 250	A	•	•	•						-						1,2,3,	15	6X6X70
	B	•	•	•					250						6,10,			
	C	•	•						180	170	-	-	-	-	20,30			
	D	•	•						110	-	-	-	-	-				
315	A	•	•	•	•					-						1,2,3,	15	7X7X90
	B	•	•	•	•				315						6,10,			
	C	•	•	•	•				245	235	215	-	-	-	20,30			
	D	•	•	•	•				175	155	115	-	-	-				
400	A	•	•	•	•	•	•			-						1,2,3,	20	8X7X90
	B	•	•	•	•	•	•		400						6,10,			
	C	•	•	•	•	•			330	320	300	280	-	-	20,30			
	D	•	•	•	•	•			260	240	200	-	-	-				
500	A	•	•	•	•	•	•			-						1,2,3,	25	10X8X100
	B	•	•	•	•	•	•		500						6,10,			
	C	•	•	•	•	•			430	420	400	380	-	-	20,30	12X8X100		
	D	•	•	•	•	•			360	340	300	260	-	-				
630	A	•	•	•	•	•	•			-						1,2,3,	30	14X9X125
	B	•	•	•	•	•	•		630						6,10,20,			
	C	•	•	•	•	•	•		-	550	530	510	490	-	30,60			
	D	•	•	•	•	•	•		490	470	430	390	350	-				
800	A		•	•	•	•	•	•	•	-						1,2,3,	35	18X11X140
	B		•	•	•	•	•	•	•	800						6,10,20,		
	C		•	•	•	•	•	•	•	-	720	700	680	660	640	30,60		
	D		•	•	•	•	•	•	•	-	600	600	560	520	480			
1000	A			•	•	•	•	•	•	-						1,2,3,	40	25X14X180
	B			•	•	•	•	•	•	1000						6,10,20,		
	C			•	•	•	•	•	•	-	920	900	880	860	840	30,60		
	D			•	•	•	•	•	•	-	840	800	760	720	680			

LONG MILLING ARBOR NUT (DIN-2082)



Designation	ØD1	H	M	A/F
LMA Ø16	27	16	M16 X 1.5P	22
LMA Ø22	34	22	M20 X 1.5P	27
LMA Ø27	40	28	M24 X 1.5P	32
LMA Ø32	47	32	M30 X 1.5P	41
LMA Ø40	55	40	M36 X 2P	46
LMA Ø50	68	46	M42 X 2P	55
LMA Ø60	80	56	M52 X 2P	65
LMA Ø80	105	70	M68 X 3P	85
LMA Ø100	134	80	M80 X 4P	105

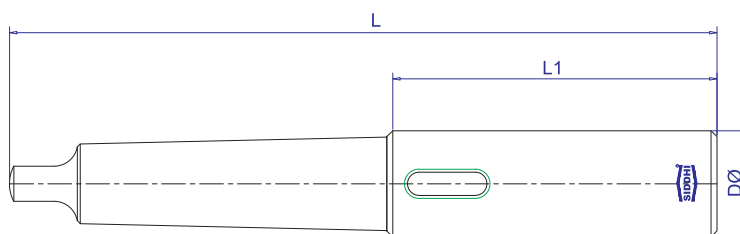
REDUCTION SLEEVES (R.S.)



Designation	Outer M.T.	Inner M.T.	'L'	DØ
21	2	1	91	18.6
31	3	1	98	24.1
32	3	2	111	24.8
41	4	1	123	31.6
42	4	2	123	31.6
43	4	3	139	32.3
52	5	2	155	44.7
53	5	3	155	44.7
54	5	4	170	45.4
63	6	3	217	63.8
64	6	4	217	63.8
65	6	5	217	63.8

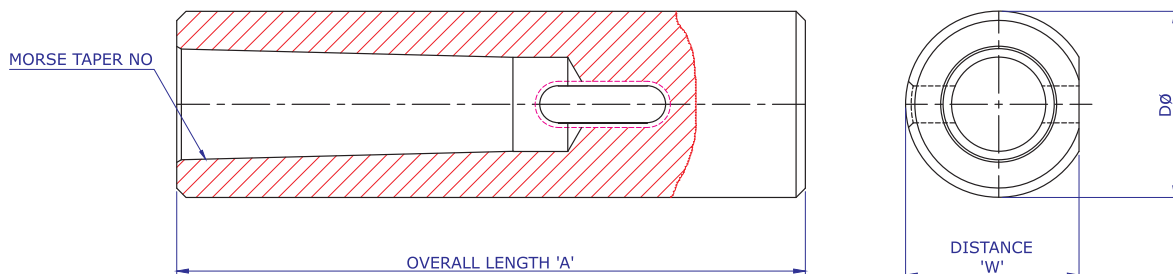
Maximum runout of MOUNTING taper to LOCATING INTERNAL taper 0.005mm.

EXTENSION SLEEVES (E.S.)



Designation	11	12	21	22	23	31	32	33	34	41	42	43	44	45	51	52	53	54	55
Outer M.T.	1	1	2	2	2	3	3	3	3	4	4	4	4	4	5	5	5	5	5
Inner M.T.	1	2	1	2	3	1	2	3	4	1	2	3	4	5	1	2	3	4	5
DØ	20	30	20	30	36	20	30	36	48	20	30	36	48	63	20	30	36	48	63
L-1	76	91	76	91	112	76	91	112	137	76	91	112	137	172	76	91	112	137	172
L	145	160	160	175	196	175	194	215	240	200	215	240	265	300	232	247	268	300	335

Maximum runout of MOUNTING taper to LOCATING INTERNAL taper 0.005mm.



Maximum runout of MOUNTING dia to LOCATING INTERNAL taper 0.005mm

MORSE TAPER NO.	INCH SERIES DØ						OVER ALL LENGTH 'A'
	1"Ø	1¼"Ø	1½"Ø	1¾"Ø	2"Ø	2⅞"Ø	
MT-1	•	•	•	•	•	•	3½"
MT-2	•	•	•	•	•	•	4"
MT-3	-	•	•	•	•	•	4¾"
MT-4	-	•	•	•	•	•	6"
MT-5	-	-	-	-	-	-	8"
DISTANCE 'W'	24	30.5	37	43.5	50	53	

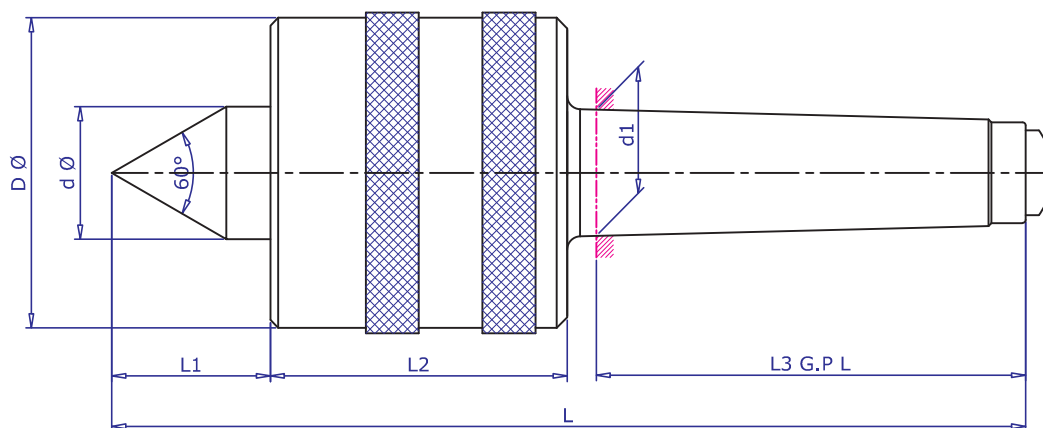
MORSE TAPER NO.	METRIC SERIES DØ						I.S. 11949 - 1987
	16Ø	20Ø	25Ø	30Ø	40Ø	50Ø	
MT-1	•	•	•	•	-	-	-
MT-2	-	-	•	•	•	-	-
MT-3	-	-	-	•	•	•	•
MT-4	-	-	-	-	•	•	•
MT-5	-	-	-	-	-	-	•
OVER ALL LENGTH 'A'	80	90	95	115	135	175	
DISTANCE 'W'	15.3	19	24.3	29	39.3	49.2	

- SIDDHI TURRET SOCKETS ARE EXTENSIVELY USED IN ALL MAKES AND TYPES OF CAPSTANS AND TURRETS.
- MADE FROM CASE HARDENED ALLOY STEEL 16 Mn Cr 5 AND GROUND TO CLOSE TOLERANCE.
- GUARANTEED ACCURACY 15 MICRONS BETWEEN OD TO ID BORE.
FLAT PROVIDED ON OD FOR EXTRA LOCKING.
- SPECIAL TURRET SOCKET AGAINST ORDER TO CUSTOMERS SPECIFICATION ALSO CAN BE SUPPLIED.

LATHE ACCESSORIES FOR PRECISION & PRODUCTIVITY



LATHE REVOLVING CENTERS



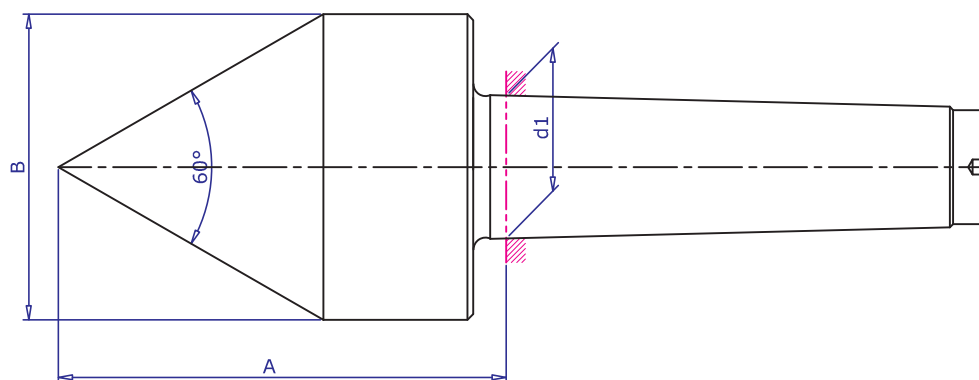
TYPE

- I) STD REV-CENTER.
- II) HEAVY DUTY REV-CENTER.
- III) EXTRA HEAVY DUTY REV-CENTER.

Maximum runout of MOUNTING taper to 60° Angle 0.005mm

Item Description	More Taper Shank	D Ø	d Ø	d1	L1	L2	L3	L
LC 12	MT-2	48	25	17.780	24	46.5	64	140
LC 13	MT-3	60	25	23.825	28	56	81	170
LC 14	MT-4	70	30	31.267	36.5	75	102.5	220
LC 15	MT-5	75	36	44.399	40	82	129.5	255

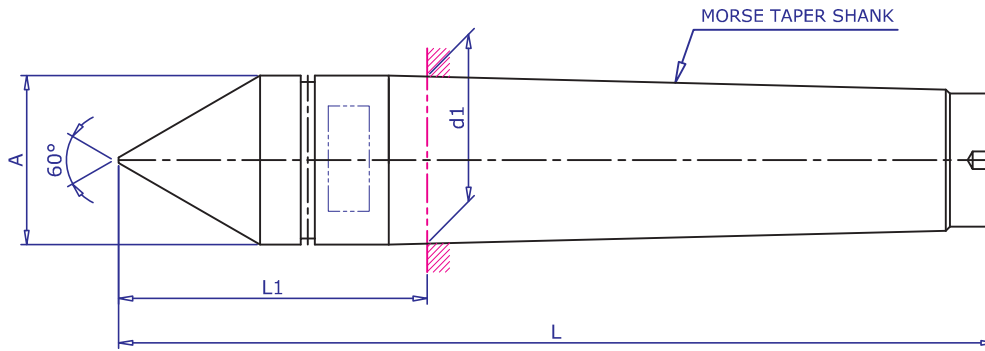
PIPE CENTERS



Maximum runout of MOUNTING taper to 60° Angle 0.005mm

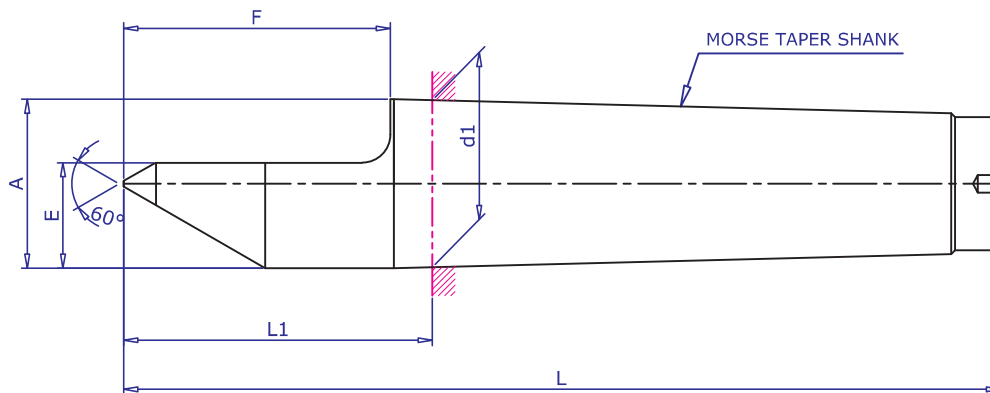
Item Description	More Taper Shank	A	B	d1
PC 12	MT-2	61	42	17.780
PC 13	MT-3	79	56	23.825
PC 14	MT-4	100	64	31.267
PC 15	MT-5	155.5	78	44.399
PC 16	MT-6	153	105	63.348

FULL POINT PLANE DEAD CENTER (DIN-806)



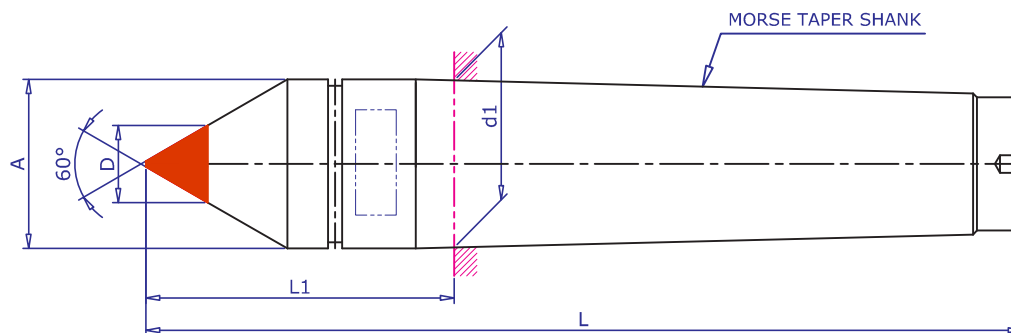
Item Description	More Taper Shank	A	L	d1	L1
DC 00	MT-0	9.2	70	9.045	20
DC 11	MT-1	12.2	80	12.065	26.5
DC 12	MT-2	18.0	100	17.780	36
DC 13	MT-3	24.1	125	23.825	44
DC 14	MT-4	31.6	160	31.267	57.5
DC 15	MT-5	44.7	200	44.399	70.5
DC 16	MT-6	63.8	270	63.348	88

HALF POINT PLANE DEAD CENTER (DIN-806)



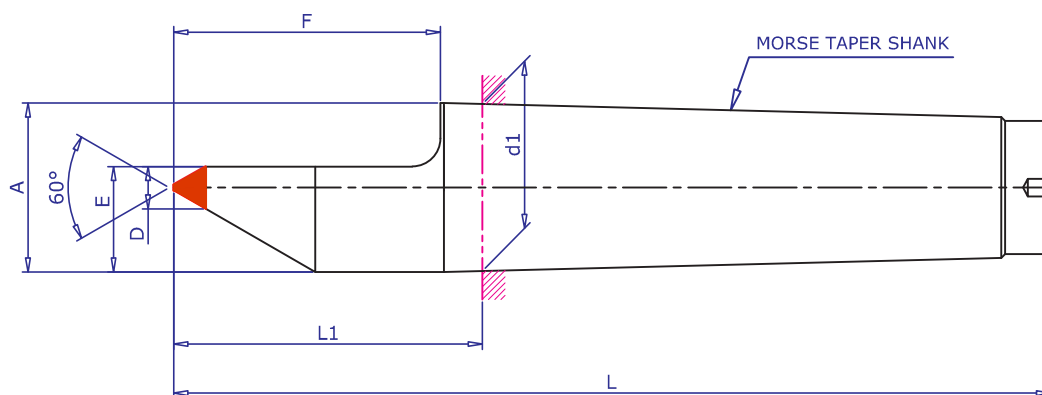
Item Description	Morse Taper Shank	A	L	E	F	d1	L1
HDC 11	MT-1	12.2	80	7.6	22	12.065	26.5
HDC 12	MT-2	18.0	100	11	30	17.780	36
HDC 13	MT-3	24.1	125	15	38	23.825	44
HDC 14	MT-4	31.6	160	21	50	31.267	57.5
HDC 15	MT-5	44.7	200	29.4	63	44.399	70.5
HDC 16	MT-6	63.8	270	42	79	63.348	88

FULL POINT CARBIDE DEAD CENTERS (DIN-806)



Item Description	Morse Taper Shank	A	L	D	d1	L1
CDC 00	MT-0	9.2	70	5	9.045	20
CDC 11	MT-1	12.2	80	7	12.065	26.5
CDC 12	MT-2	18.0	100	7	17.780	36
CDC 13	MT-3	24.1	125	11	23.825	44
CDC 14	MT-4	31.6	160	14	31.267	57.5
CDC 15	MT-5	44.7	200	18	44.399	70.5
CDC 16	MT-6	63.8	270	18	63.348	88

HALF POINT CARBIDE DEAD CENTERS (DIN-806)



Item Description	Morse Taper Shank	A	L	D	E	F	d1	L1
HCDC 11	MT-1	12.2	80	7	7.6	22	12.065	26.5
HCDC 12	MT-2	18.0	100	7	11	30	17.780	36
HCDC 13	MT-3	24.1	125	11	15	38	23.825	44
HCDC 14	MT-4	31.6	160	14	21	50	31.267	57.5
HCDC 15	MT-5	44.7	200	18	29.4	63	44.399	70.5

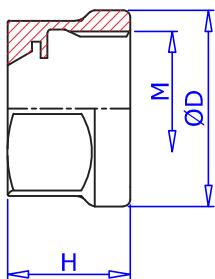
ACCESSORIES

Accessories For
Precision Tool Holder
&
Tapping Chuck Adaptor

● INDEX ●

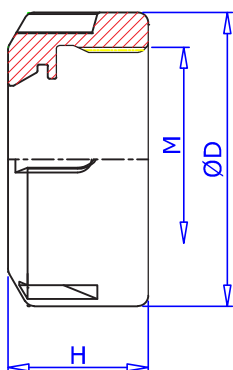
Sr.No.	CONTENTS	PAGE
01	<i>ER Series Nuts For Collet Chuck (DIN 6499)</i> <i>* Type : Hexagonal Nut</i> <i>* Type : Slotted Nut</i> <i>* Type : Mini Nut</i> <i>* Type : UM ER A Nut</i>	150
02	<i>ER Series Spanners For Collet Chuck</i> <i>* Type : E (Slotted Nut)</i> <i>* Type : EM (Mini Nut)</i> <i>* Type : GS (Hexagonal Nut)</i> <i>Drill Chuck Spanners (NCDC)</i>	151~152
03	<i>ER Collet (Din-6499)</i> <i>* ER Coolant Sealing Collet</i> <i>* ER Tapping Collet</i>	153~154
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14	<i>Quick Change Tap Adaptors (SWE / SWES)</i>	164~167
15	<i>Technical Information & Recommended Torque Values.</i>	

HEXAGONAL NUT FOR 'ER' COLLET CHUCK (DIN 6499)



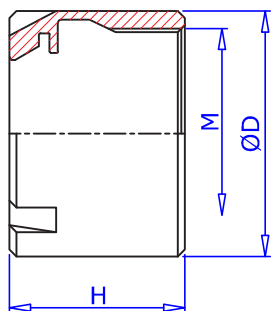
Item Description	H	Ø D	M	Spanner To Be Used
UM/ ER11	11.30	19.0	M14 x 0.75P	GS17
UM/ ER16	17.50	28.0	M22 x 1.5P	GS25
UM/ ER20	19.00	34.0	M25 x 1.5P	GS30

SLOTTED NUT FOR 'ER' COLLET CHUCK (DIN 6499)



Item Description	H	Ø D	M	Spanner To Be Used
UM/ ER20	19.0	34	M25 x 1.5P	E 20
UM/ ER25	20.0	42	M32 x 1.5P	E 25
UM/ ER32	22.5	50	M40 x 1.5P	E 32
UM/ ER40	25.5	63	M50 x 1.5P	E 40
UM/ ER50	35.3	78	M64 x 2.0P	E 50

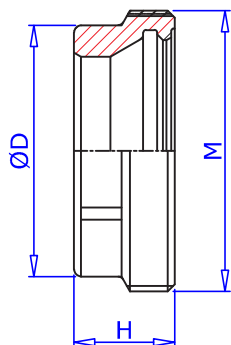
MINI NUT FOR 'ER' COLLET CHUCK (DIN 6499)



Item Description	H	Ø D	M	Spanner To Be Used
UM/ ER8M	10.80	12	M10 x 0.75P	E8 M
UM/ ER11M	11.30	16	M13 x 0.75P	E11 M
UM/ ER16M	17.0	22	M19 x 1P	E16 M
UM/ ER20M	19.0	28	M24 x 1P	E20 M
UM/ ER25M	20.0	35	M30 X1P	E25 M

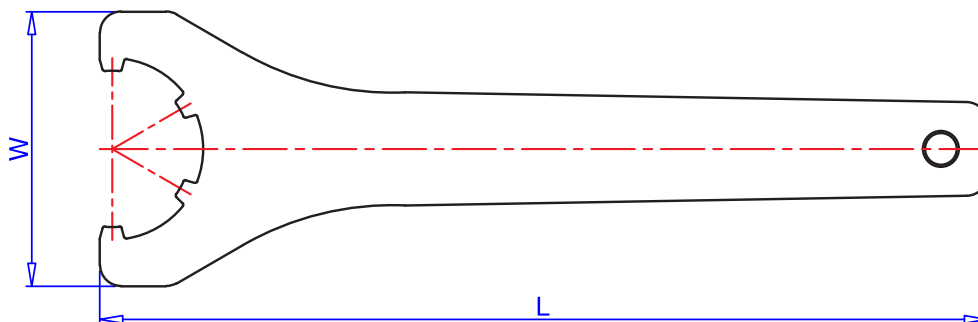
For minimum external diameter.

UM ER A NUT FOR 'ER' COLLET CHUCK (DIN 6499)



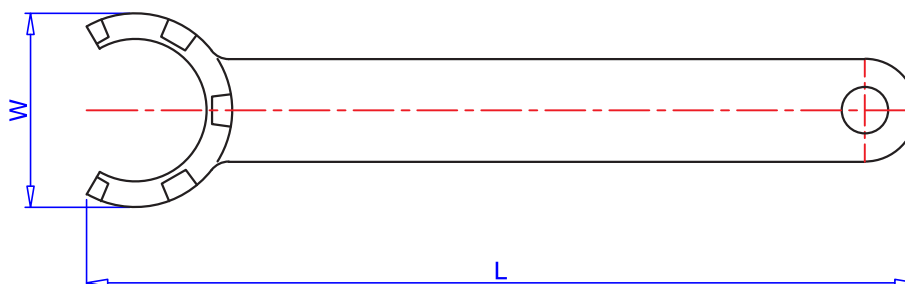
Item Description	H	Ø D	M	Spanner To Be Used
UM/ ER25 A	12.5	29.5	M32 x 1.5P	E25 A
UM/ER 32 A	18.5	37	M40 x 1.5P	E32 A

SPANNER TYPE:E



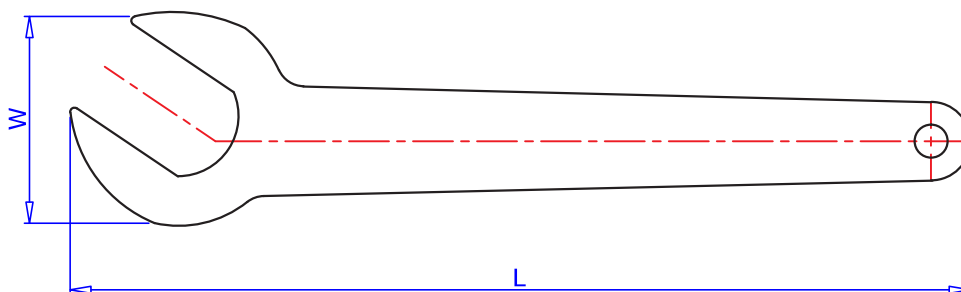
Spanner Type	L	W	Suitable Nut
E 20	180	55.0	UM/ ER20
E 25	210	65.0	UM/ ER25
E 32	250	75.0	UM/ ER32
E 40	290	90.0	UM/ ER40
E 50	350	110.0	UM/ ER50

SPANNER TYPE:EM(MINI)



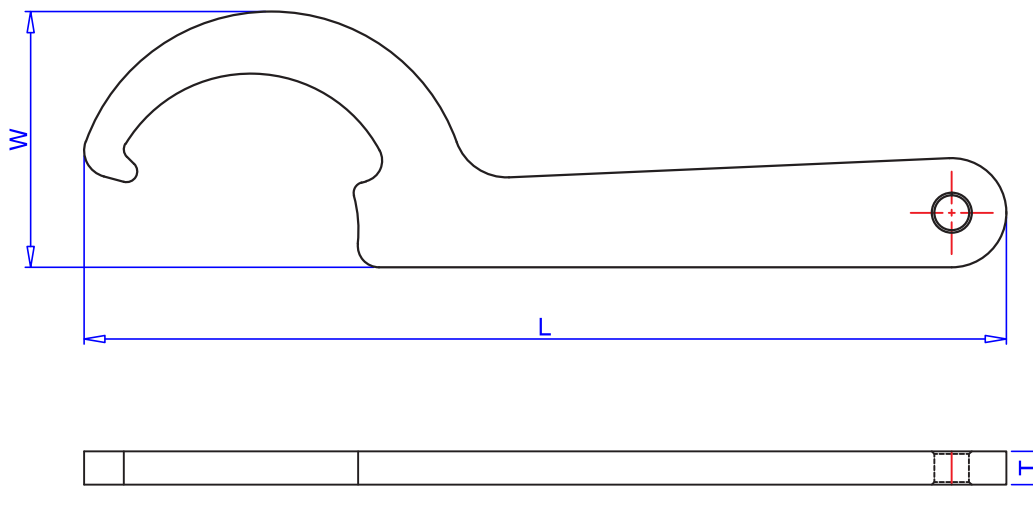
Spanner Type	L	W	Suitable Nut
E8M	70	12.4	UM/ ER8M
E11M	90	16.8	UM/ ER11M
E16M	110	22.5	UM/ ER16M
E20M	120	29.0	UM/ ER20M
E25M	130	36.0	UM/ ER25M

SPANNER TYPE : GS



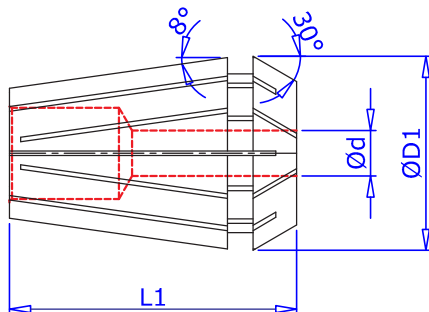
Spanner Type	L	W	Suitable Nut
GS 17	155	36.0	UM/ ER11
GS 25	218	50.0	UM/ ER16
GS 30	265	63.0	UM/ ER20

SPANNER FOR NC DRILL CHUCK (NCDC)



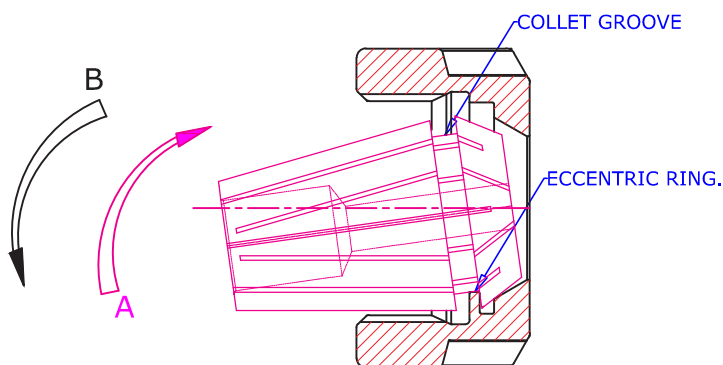
Spanner Type	L	W	T	Suitable Chuck
NCDC 113	176.0	48.0	5.0	NCDC 1-13

Technical Information ER COLLET (DIN 6499)

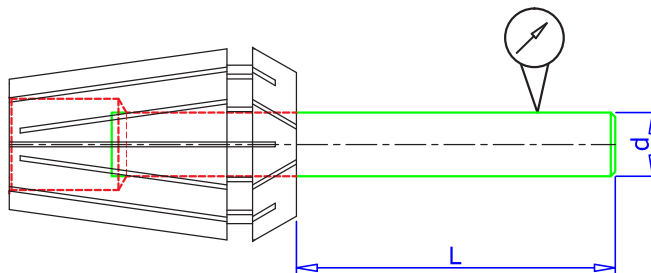


Item Description	Clamping Range Ø 'd'		Collapse Range mm	ØD1mm	L1 mm
	From mm	To			
Collet ER8	0.5	5	0.5	8.5	13.5
Collet ER11	0.5	7	0.5	11.5	18.0
Collet ER16	1.0	10	1.0	17.0	27.5
Collet ER20	1.0	13	1.0	21.0	34.5
Collet ER25	1.0	16	1.0	26.0	35.0
Collet ER32	2.0	20	1.0	33.0	40.0
Collet ER40	3.0	26	1.0	41.0	46.0
Collet ER50	10.0	34	2.0	52.0	60.0

THE COLLET MUST ALWAYS BE INSERTED IN TO THE NUT BEFORE SETTING THE TOOL IN TO THE COLLET. THE COLLET IS FITTED INSIDE THE NUT BY APPLYING SLIGHT PRESSURE **A**. IT IS REMOVED BY APPLYING **B** TO THE COLLET. NEVER TIGHTEN THE CHUCK WITHOUT A CORRECT SIZE TOOL SHANK BEING PRESENT IN THE COLLET

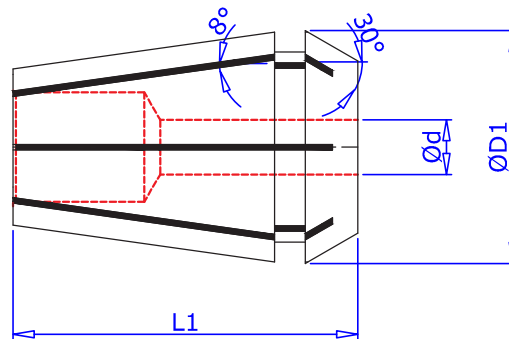


CONCENTRICITY (T.I.R) OF COLLETS (DIN-6499 FROM B)



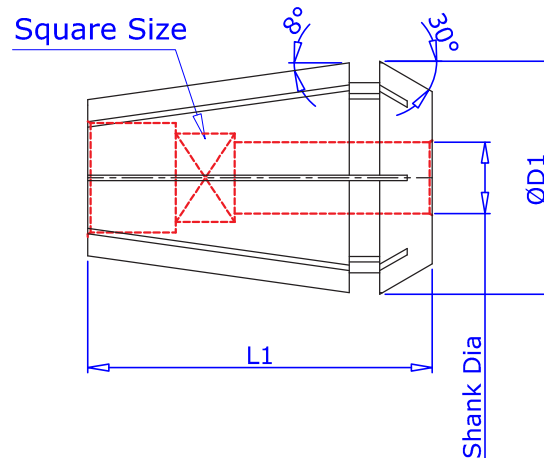
Concentricity					
Clamping Range mm		L	T.I.R mm	ER	ER-UP
From Ød	To Ød		DIN	(Standard)	(Ultra Precision)
1.0	1.6	6	0.015	0.010	0.005
1.6	3	10			
3.0	6	16			
6.0	10	25			
10.0	18	40	0.020	0.010	0.005
18.0	26	50			
26.0	34	60	0.025	0.015	0.01

ER COOLANT SEALING COLLET



Item Description	Clamping Range Ø 'd'		Collapse Range mm	ØD1mm	L1 mm
	From mm	To			
Sealing Collet ER11	3.0	7	1.0	11.5	18.0
Sealing Collet ER16	3.0	10	1.0	17.0	27.5
Sealing Collet ER20	3.0	13	1.0	21.0	34.5
Sealing Collet ER25	3.0	16	1.0	26.0	35.0
Sealing Collet ER32	3.0	20	1.0	33.0	40.0
Sealing Collet ER40	4.0	26	1.0	41.0	46.0

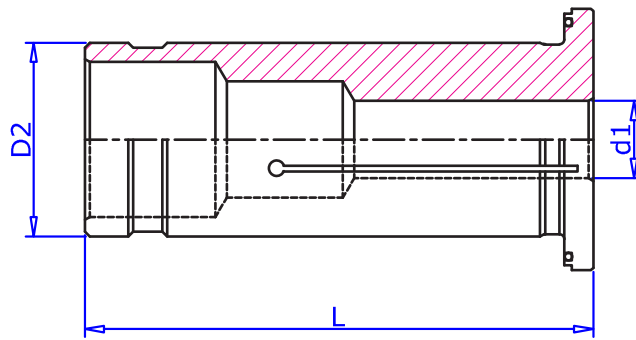
ER TAPPING COLLET



Item Description	Collet Tapping Capacity	Shank Dia	Square Size	Suitable Collet	D1	L1
TAP COLLET ER16	M3 - M12	> 3.5 - 10.0	> 2.7 - 8.0	ER16	17.0	27.5
TAP COLLET ER20	M3 - M16	> 3.5 - 12.0	> 2.7 - 9.0	ER20	21.0	31.5
TAP COLLET ER25	M3 - M20	> 3.5 - 16.0	> 2.7 - 12.0	ER25	26.0	34.0
TAP COLLET ER32	M3 - M30	> 3.5 - 20.0	> 2.7 - 16.0	ER32	33.0	40.0
TAP COLLET ER40	M3 - M36	> 3.5 - 25.0	> 2.7 - 20.0	ER40	41.0	46.0

NOTE:- FOR TAP ADAPTORS AND TAP TECHNICAL SPECIFICATION PLEASE REFER PAGE NO. 164, 165, 166, 167

HYDRAULIC CHUCK REDUCTION SLEEVE



- * Clamping of all h6 tool shank.
- * Clamping diameters 3.0 mm to 25.0 mm.
- * Clamping in seconds without peripheral equipment.
- * Response various tool shank by using a sleeve.

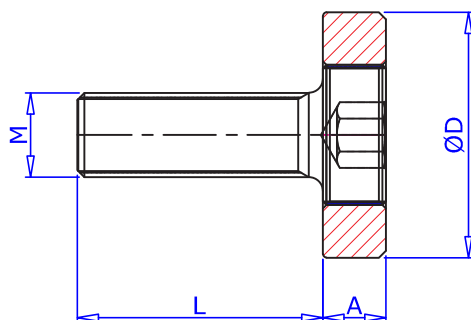
Maximum runout of MOUNTING dia to INTERNAL dia 0.003mm

Availability :- In-Stock

Item Description	Tool Shank	d1	D2	L
D12 HCRS 03	D12 Sleeve	3	12	42
D12 HCRS04	D12 Sleeve	4	12	42
D12 HCRS 05	D12 Sleeve	5	12	42
D12 HCRS 06	D12 Sleeve	6	12	42
D12 HCRS 08	D12 Sleeve	8	12	42
D12 HCRS 10	D12 Sleeve	10	12	42
D20 HCRS 06	D20 Sleeve	6	20	57
D20 HCRS 08	D20 Sleeve	8	20	57
D20 HCRS 10	D20 Sleeve	10	20	57
D20 HCRS12	D20 Sleeve	12	20	57
D20 HCRS 14	D20 Sleeve	14	20	57
D20 HCRS 16	D20 Sleeve	16	20	57
D32 HCRS 06	D32 Sleeve	6	32	65
D32 HCRS 08	D32 Sleeve	8	32	65
D32 HCRS 10	D32 Sleeve	10	32	65
D32 HCRS 12	D32 Sleeve	12	32	65
D32 HCRS 14	D32 Sleeve	14	32	65
D32 HCRS 16	D32 Sleeve	16	32	65
D32 HCRS 18	D32 Sleeve	18	32	65
D32 HCRS 20	D32 Sleeve	20	32	65
D32 HCRS 25	D32 Sleeve	25	32	65

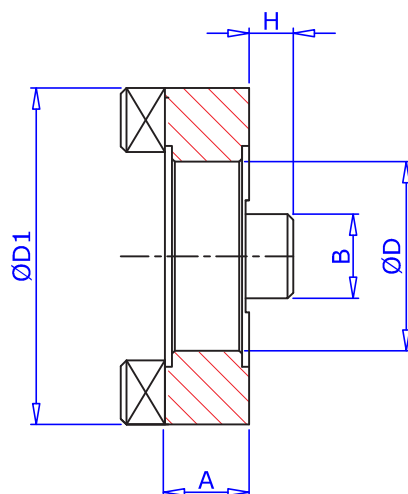
Ordering Example :- D20 HCRS12 - 2 Nos.

CUTTER CLAMPING SCREW FOR CSMH / FMH (DIN 6367)



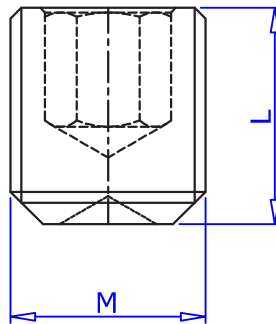
CLAMPING SCREW	Ø D	A	L	M
FMH/CSMA16	20.0	7.0	25.0	M8
FMH/CSMA22	28.0	8.0	25.0	M10
FMH/CSMA27	35.0	9.0	35.0	M12
FMH/CSMA32	42.0	10.0	35.0	M16
FMH/CSMA40	52.0	11.0	40.0	M20

DRIVER RINGS FOR CSMA (DIN 6366)



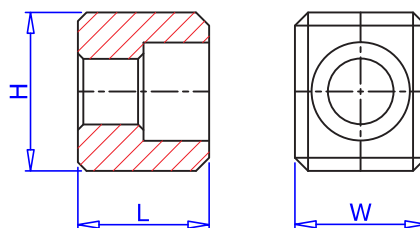
DRIVER RINGS	Ø D1	Ø D	A	B	H
CSMA16	32	16	10	8	5.0
CSMA22	40	22	12	10	5.6
CSMA27	48	27	12	12	6.3
CSMA32	58	32	14	14	7.0
CSMA40	78	40	14	16	8.0

WN LOCKING SCREW (DIN-1835 B+E)



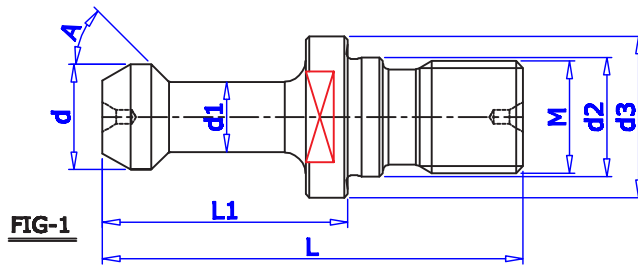
WN	LOCKING SCREW	M	L
6	M6	M6	10
8	M8	M8	10
10	M10	M10	12
12	M12	M12	14
14	M12	M12	14
16	M14	M14	16
18	M14	M14	16
20	M16	M16	16
25	M18X2P	M18X2P	20
32	M20x2P	M20x2P	20
40			20
50	M24x2P	M24x2P	25
63			31

FMH TENON.



TENON	H	L	W
FMH16	10.0	8.0	8.0
FMH22	12.0	10.0	10.0
FMH27	14.5	12.0	12.0
FMH32	22.0	14.0	14.0
FMH40	23.0	16.0	16.0

PULL STUDS WITH BT (DIN ISO 7388-2)



**PULL STUDS BT MAS
WITHOUT THROUGH COOLANT.**

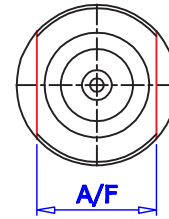
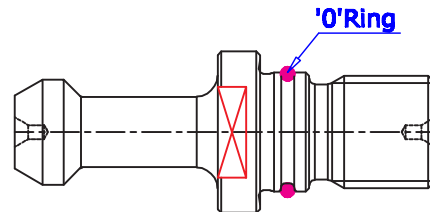
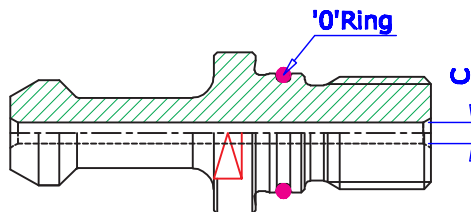


FIG-2



**PULL STUDS BT MAS
WITHOUT THROUGH COOLANT WITH 'O' RING.**

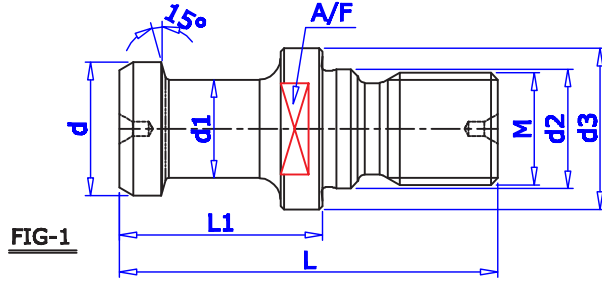
FIG-3



**PULL STUDS BT MAS
THROUGH COOLANT WITH 'O' RING.**

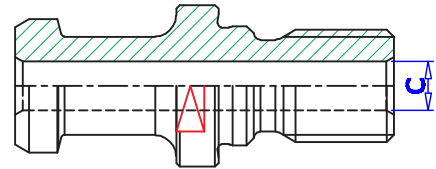
Item Description	Tool Shank	M	L	L1	d	d1	d2	d3	A	C	A/F	FIG
BT 30 PS 45° P1 W/TC	BT 30	M 12	43	23	11	7	12.5	16.5	45°	-	13	1
BT 30 PS 60° P2 W/TC	BT 30	M 12	43	23	11	7	12.5	16.5	60°	-	13	1
BT 30 PS 90° P3 W/TC	BT 30	M 12	43	23	11	7	12.5	16.5	90°	-	13	1
BT40 PS 45° P1 W/TC	BT 40	M 16	60	35	15	10	17	23	45°	-	19	1
BT40 PS 45° P1 W/TC WITH 'O' TING	BT 40	M 16	60	35	15	10	17	23	45°	-	19	2
BT40 PS 45° P1 TC WITH 'O' TING	BT 40	M 16	60	35	15	10	17	23	45°	3	19	3
BT40 PS 60° P1 W/TC	BT 40	M 16	60	35	15	10	17	23	60°	-	19	1
BT40 PS 60° P1 W/TC WITH 'O' TING	BT 40	M 16	60	35	15	10	17	23	60°	-	19	2
BT40 PS 60° P1 TC WITH 'O' TING	BT 40	M 16	60	35	15	10	17	23	60°	3	19	3
BT40 PS 90° P1 W/TC	BT 40	M 16	60	35	15	10	17	23	90°	-	19	1
BT40 PS 90° P1 W/TC WITH 'O' TING	BT 40	M 16	60	35	15	10	17	23	90°	-	19	2
BT40 PS 90° P1 TC WITH 'O' TING	BT 40	M 16	60	35	15	10	17	23	90°	3	19	3
BT50 PS 45° P1 W/TC	BT 50	M 24	85	45	23	17	25	38	45°	-	30	1
BT50 PS 45° P1 W/TC WITH 'O' TING	BT 50	M 24	85	45	23	17	25	38	45°	-	30	2
BT50 PS 45° P1 TC WITH 'O' TING	BT 50	M 24	85	45	23	17	25	38	45°	7	30	3
BT50 PS 60° P1 W/TC	BT 50	M 24	85	45	23	17	25	38	60°	-	30	1
BT50 PS 60° P1 W/TC WITH 'O' TING	BT 50	M 24	85	45	23	17	25	38	60°	-	30	2
BT50 PS 60° P1 TC WITH 'O' TING	BT 50	M 24	85	45	23	17	25	38	60°	7	30	3
BT50 PS 90° P1 W/TC	BT 50	M 24	85	45	23	17	25	38	90°	-	30	1
BT50 PS 90° P1 W/TC WITH 'O' TING	BT 50	M 24	85	45	23	17	25	38	90°	-	30	2
BT50 PS 90° P1 TC WITH 'O' TING	BT 50	M 24	85	45	23	17	25	38	90°	7	30	3

PULL STUDS WITH JIS B 6339



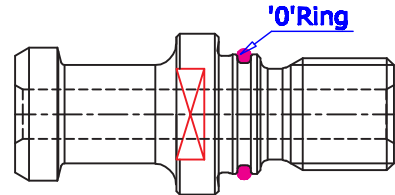
**PULL STUDS JIS B 6339
WITHOUT THROUGH COOLANT.**

FIG-2



**PULL STUDS JIS B 6339
THROUGH COOLANT**

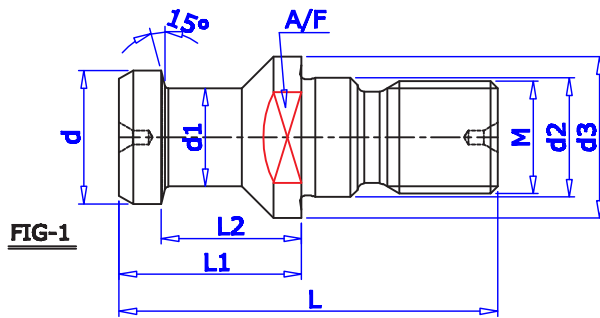
FIG-3



**PULL STUDS JIS B 6339
THROUGH COOLANT WITH 'O' RING.**

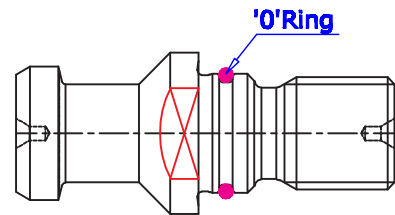
Item Description	Tool Shank	M	L	L1	d	d1	d2	d3	C	A/F	FIG
BT30 JIS B6339 P1 W/TC	BT30	M 12	43	23.4	12	8	12.5	17	-	14	1
BT40 JIS B6339 P1 W/TC	BT40	M 16	54	29	19	14	17	23	-	19	1
BT40 JIS B6339 P2 TC	BT40	M 16	54	29	19	14	17	23	7	19	2
BT40 JIS B6339 P3 TC WITH 'O' RING	BT40	M 16	54	29	19	14	17	23	7	19	3
BT50 JIS B6339 P1 W/TC	BT50	M24	74	34	28	21	25	36	-	30	1
BT50 JIS B6339 P2 TC	BT50	M 24	74	34	28	21	25	36	10	30	2
BT50 JIS B6339 P3 TC WITH 'O' RING	BT50	M 24	74	34	28	21	25	36	10	30	3

PULL STUDS WITH DIN ISO 7388-1



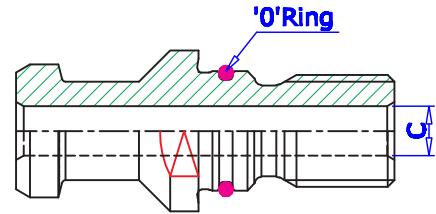
**PULL STUDS DIN ISO 7388-1
WITHOUT THROUGH COOLANT.**

FIG-2



**PULL STUDS DIN ISO 7388-1
WITHOUT THROUGH COOLANT WITH 'O' RING.**

FIG-3



**PULL STUDS DIN ISO 7388-1
THROUGH COOLANT WITH 'O' RING.**

Item Description	Tool Shank	M	L	L1	L2	d	d1	d2	d3	C	A/F	FIG
SK30 DIN ISO 7388-1 P1 W/TC	SK30	M 12	44	24	19	13	9	13	17	-	14	1
SK30 DIN ISO 7388-1 P2 W/TC WITH 'O' RING	SK30	M 12	44	24	19	13	9	13	17	-	14	1
SK40 DIN ISO 7388-1 P1 W/TC	SK40	M 16	54	26	20	19	14	17	23	-	19	1
SK40 DIN ISO 7388-1 P2 W/TC WITH 'O' RING	SK40	M 16	54	26	20	19	14	17	23	-	19	2
SK40 DIN ISO 7388-1 P3 TC WITH 'O' RING	SK40	M 16	54	26	20	19	14	17	23	7	19	3
SK50 DIN ISO 7388-1 P1 W/TC	SK50	M 24	74	34	25	28	21	25	36	-	30	1
SK50 DIN ISO 7388-1 P2 W/TC WITH 'O' RING	SK50	M 24	74	34	25	28	21	25	36	-	30	2
SK50 DIN ISO 7388-1 P3 TC WITH 'O' RING	SK50	M 24	74	34	25	28	21	25	36	11.5	30	3

PULL STUDS WITH DIN ISO 7388-B

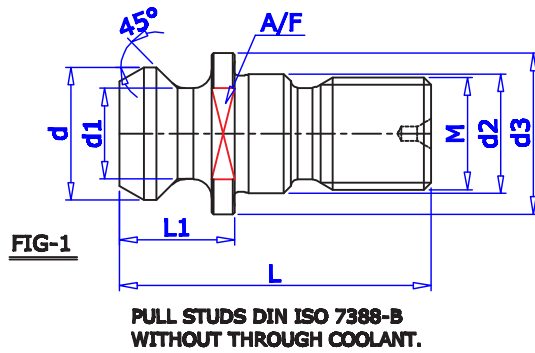


FIG-2

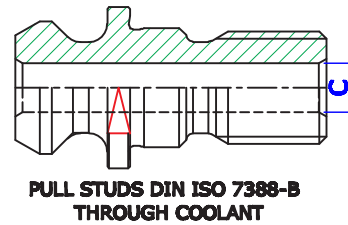
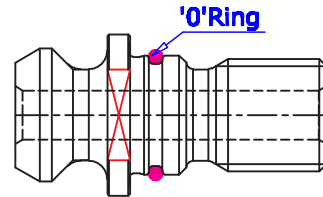
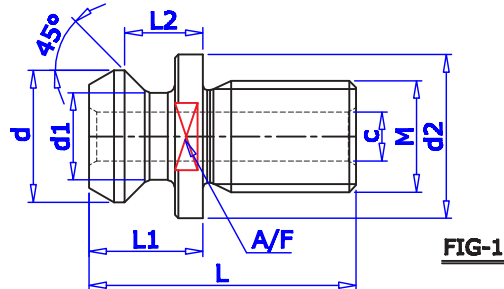


FIG-3



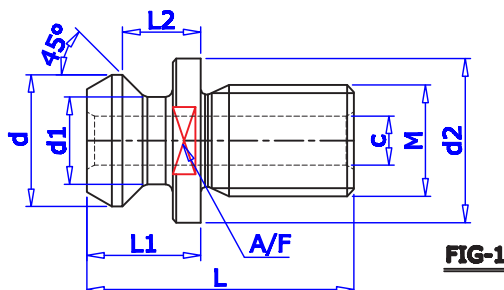
Item Description	Tool Shank	M	L	L1	d	d1	d2	d3	C	A/F	FIG
DIN ISO 7388-B P1 W/TC	CAT 40	M 16	44.4	16.4	18.95	12.95	17	22.5	-	18	1
DIN ISO 7388-B P2 TC	CAT 40	M 16	44.4	16.4	18.95	12.95	17	22.5	7.3	18	2
DIN ISO 7388-B P3 TC WITH 'O' RING	CAT 40	M 16	44.4	16.4	18.95	12.95	17	22.5	7.3	18	3
DIN ISO 7388-B P1 W/TC	CAT 50	M 24	65.55	25.55	29.1	19.6	25	37	-	30	1
DIN ISO 7388-B P2 TC	CAT 50	M 24	65.55	25.55	29.1	19.6	25	37	11.5	30	2
DIN ISO 7388-B P3 TC WITH 'O' RING	CAT 50	M 24	65.55	25.55	29.1	19.6	25	37	11.5	30	3

PULL STUDS CAT ANSI-5.50 (METRIC)



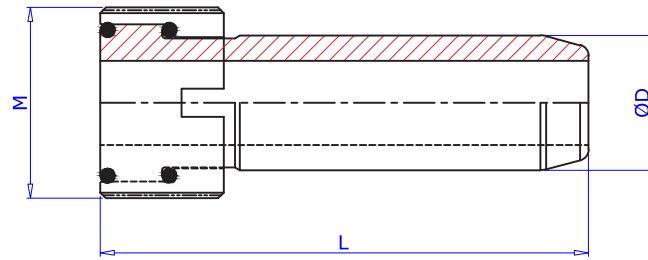
Item Description	Tool Shank	M	L	L1	L2	d	d1	d2	C	A/F	FIG
CAT 40 PS 45 P1	CAT 40	M 16	38.10	16.30	11.20	18.80	12.40	22.5	6.95	19	1
CAT 50 PS 45 P1	CAT 50	M 24	60.00	25.55	17.95	29.10	19.60	37.0	11.50	30	1

PULL STUDS CAT ANSI-5.50 (INCH)



Item Description	Tool Shank	M	L	L1	L2	d	d1	d2	C	A/F	FIG
CAT 40 PS 45 P1	CAT 40	5/8" 11	1.500"	0.640"	0.440"	0.740"	0.490"	0.900"	0.281"	0.750"	1
CAT 50 PS 45 P1	CAT 50	1.00" 8	2.300"	1.000"	0.700"	1.140"	0.820"	1.400"	0.500"	1.250"	1

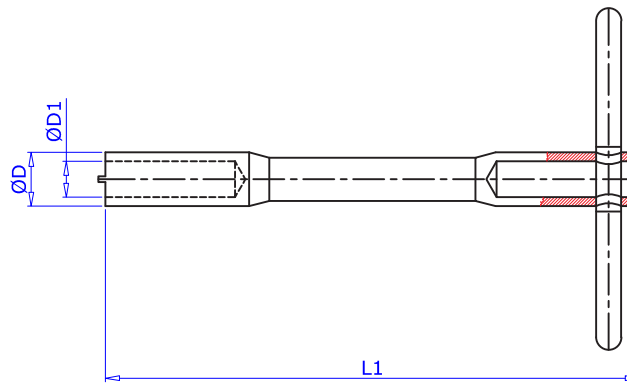
COOLANT TUBE FOR HSK-A (DIN 69893-1) TOOL HOLDERS



NOTE:- The Coolant tubes are sealed with O-Rings and are built With an angular freedom of $\pm 1^\circ$ about the neutral axis along Which it normally stays.

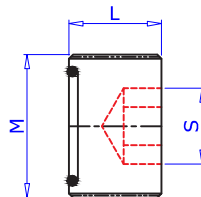
Item Description	M	L	Ø D
HSK-A 50 CT	M16X1	33.0	10.0
HSK-A 63 CT	M18X1	34.0	12.0
HSK-A 100 CT	M24X1.5P	44.0	16.0

SPANNER FOR FOR HSK-A (DIN 69893-1) COOLANT TUBES



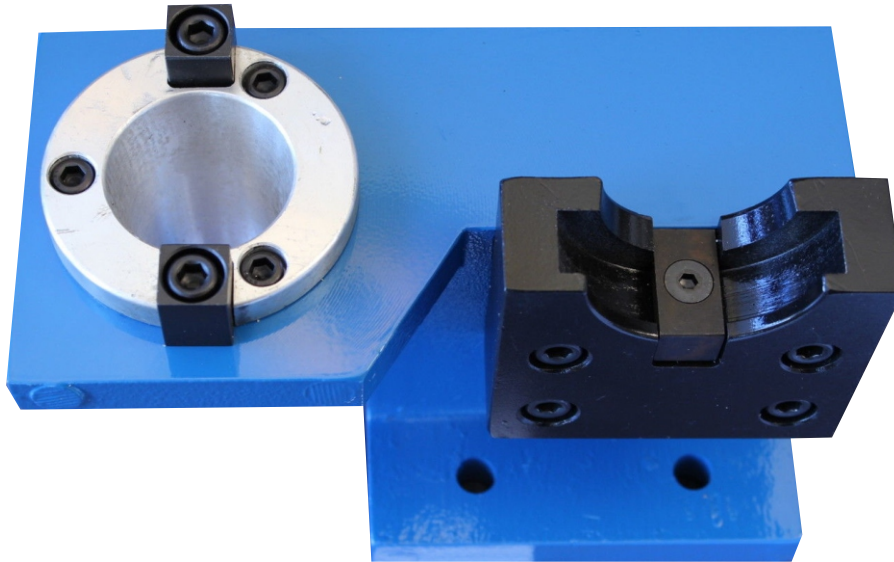
Item Description	Ø D1	L1	Ø D
HSK-A 50 CTS	10.2	115.0	14.5
HSK-A 63 CTS	12.2	136.0	16.5
HSK-A 100 CTS	16.2	136.0	22.0

HSK-A (DIN 69893-1) SEALING PLUG.



Item Description	M	L	S
SEALING PLUG FOR HSK-A 50	M16X1	10	5
SEALING PLUG FOR HSK-A 63	M18X1	12	6
SEALING PLUG FOR HSK-A 100	M24X1.5P	16	10

TOOL BOY



Suitable For:

TOOL CLAMPING DEVICE

BT-30 Tool Shank
BT-40 Tool Shank
BT-50 Tool Shank

Availability :- In-Stock

PRECISION HYDRAULIC VISE.



1. The clamp body with precision machined from high toughness ductile iron.
2. Guide surface of hardening hardness Hrc 50-60.
3. The two jaws parallel 0.025mm /100mm.
Two jaws of the vertical guide surface 0.025mm.
4. The original mechanical clamping process performance, based on the increase
Built by hydraulic power system, in a very small force, the clamping force can have a multiplier.
5. according to the size of the workpiece, moving nut location opening width can implement four

Availability :- In-Stock

Item Description	Jaw Width	Jaw Depth	Max-opening	L x W x H	Clamping Force	Weight	Model
HVA-150V	150	51	300	620 x 240 x 133	4500 K.g	50 K.g	HP-6V

NBH2084 FINE PRECISION BORING TOOL (SET)



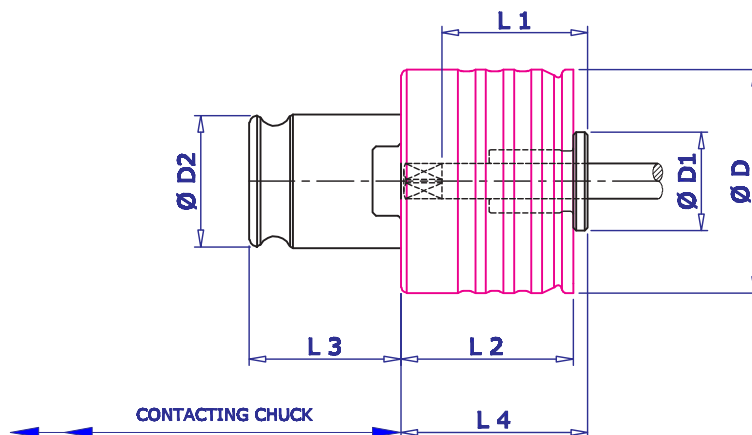
Item Description	Boring Range Min - Max	Model
● MAS-403 BT40 NBH2084	8.0 - 280	BT40 -NBH-50
● MAS-403 BT50 NBH2084	8.0 - 280	BT50 -NBH-50
○ DIN-63871-1 SK40 NBH2084	8.0 - 280	SK40 -NBH-50
○ DIN-63871-1 SK50 NBH2084	8.0 - 280	SK50 -NBH-50
○ DIN-2080 ISO40 NBH2084	8.0 - 280	ISO40 -NBH-50
○ DIN-2080 ISO50 NBH2084	8.0 - 280	ISO50 -NBH-50
○ DIN-228A MT4 NBH2084	8.0 - 280	MT-4 -NBH-50
○ DIN-228A MT5 NBH2084	8.0 - 280	MT-5 -NBH-50

Availability :- ● Stock ○ 08-10 Weeks

Tool Kit Box



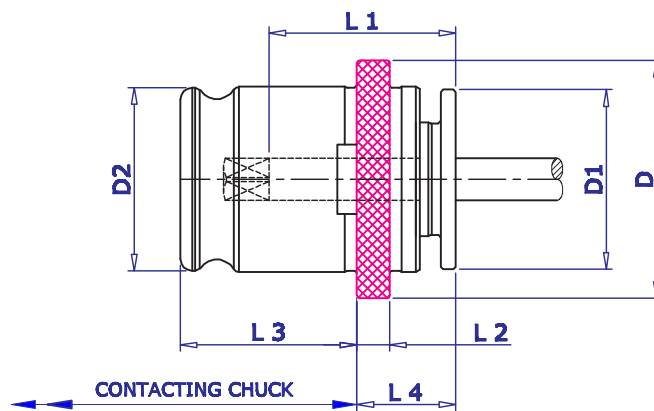
TAP ADAPTOR (WITH SAFETY CLUTCH) TYPE SWES / B



Item Description	Capacity	Shank Dia	Suitable For Chuck Size.	$\varnothing D$	$\varnothing D1$	$\varnothing D2$	L1	L2	L3	L4
SWES1B	M 3 - M 12	3.5 - 11.3	1	32	19	19	17	25	21.5	25
SWES2B	M 8 - M 20	7.0 - 18.0	2	50	30	31	30	31	35.0	34
SWES3B	M 14 - M 33	11.0 - 28.0	3	72	48	48	44	41	55.5	45

Ordering Example :- SWES 1B M8 $\varnothing 10 \times 8$ SQ. QTY. : 2 NOS.

TAP ADAPTOR (WITHOUT SAFETY CLUTCH) TYPE SWE



Item Description	Capacity	Shank Dia	Suitable For Chuck Size	$\varnothing D$	$\varnothing D1$	$\varnothing D2$	L1	L2	L3	L4
SWE 1	M 3 - M 12	3.5 - 11.3	1	30	19	19	17	4	21.5	7
SWE 2	M 8 - M 20	7.0 - 18.0	2	48	30	31	30	5	35.0	11
SWE 3	M 14 - M 33	11.0 - 28.0	3	70	48	48	44	6	55.5	14

Ordering Example :- SWE1 $\varnothing 6.3 \times 5$ SQ. QTY. : 2 NOS.

Tap Shank Dimension ISO 529-1975

Dimension Dia x Square	Metric		UNC		UNF		BSW		BSF		BA	
		Shank dia enlarged.		Shank dia enlarged.		Shank dia enlarged.		Shank dia enlarged.		Shank dia enlarged.		Shank dia enlarged.
3.15X2.5	M4	M3	-	No. 4-40	-	No. 4-48	-	-	-	-	-	No. 5
	-	-	No. 8-32	No. 5-40	No. 8-36	No. 5-44	-	-	-	-	No. 3	-
3.55X2.8	M 4.5	M 3.5	No. 10-24	No. 6-32	No. 10-32	No. 6-40	3/16"-24	-	3/16"-32	-	No. 2	No. 4
4 X 3.15	M 5	M4	No. 12-24	-	No. 12-28	-	-	-	7/32"-28	-	No. 1	-
4.5 X 3.55	M 6	-	1/4"-20	No. 8-32	1/4"-28	No. 3-36	1/4"-20	-	1/4"-26	-	No. 0	No. 3
5 X4	-	M 5	-	No.10-24	-	No.10-32	-	3/16"-24	-	3/16"-32	-	NO. 2
5.6 X 4.5	-	-	-	No. 12-24	-	No. 12-28	-	-	9/32"-26	7/32"-28	-	No. 1
6.3 X 5	M 8	M 6	5/16"-18	1/4"-20	5/16"-24	1/4"-28	5/16"-18	1/4"-20	5/16"-22	1/4"-26	-	No. 0
7.1 X 5.6	-	-	3/8"-16	-	3/8"-24	-	3/8"-16	-	3/8"-20	9/32"-36	-	-
8 X 6.3	M 10	M 8	7/16"-14	5/16"-18	7/16"-20	-	7/16"-14	5/16"-18	7/16"-18	5/16"-22	-	-
9 X 7.1	M 12	-	1/2"-13	-	1/2"-20	-	1/2"-12	-	1/2"-12	-	-	-
10 X 8	-	M 10	-	3/8"-16	-	3/8"-24	-	3/8"-16	-	3/8"-20	-	-
11.2 X 9	M 14	-	9/16"-12	-	9/16"-18	-	9/16"-12	-	9/16"-16	-	-	-
12.5 X 10	M 16	-	5/8"-11	-	5/8"-18	-	5/8"-11	-	3/8"-14	-	-	-
14 X 11.2	M 18	-	3/4"-10	-	3/4"-16	-	11/16"-11	-	11/16"-14	-	-	-
	M 20	-	-	-	-	-	3/4"-10	-	3/4"-12	-	-	-
16 X 12.5	M 22	-	7/8"-9	-	7/8"-14	-	7/8"-9	-	7/8"-11	-	-	-
18 X 14	M 24	-	1"-8	-	1"-12	-	1"-8	-	1"-10	-	-	-
20 X 16	M 27	-	1 1/8"-7	-	1 1/8"-12	-	1 1/8"-7	-	1 1/8"-9	-	-	-
	M 30	-	-	-	-	-	-	-	-	-	-	-
22.4 X 18	M 33	-	1 1/4"-4	-	1 1/4"-12	-	1 1/4"-7	-	1 1/4"-9	-	-	-
25 X 20	M 36	-	1 3/8"-6	-	1 3/8"-12	-	-	-	1 3/8"-8	-	-	-
28 X 22.4	M 39	-	1 1/2"-6	-	1 1/2"-12	-	1 1/2"-6	-	1 1/2"-8	-	-	-
	M 42	-	-	-	-	-	-	-	1 5/8"-8	-	-	-
31.5 X 25	M 45	-	1 3/4"-5	-	-	-	1 3/4"-5	-	1 3/4"-7	-	-	-
	M 48	-	-	-	-	-	-	-	-	-	-	-

Tap Shank Dimension DIN							
Dimension Dia x Square	DIN 352	DIN 353	DIN 371	DIN 374	DIN 376	DIN 2182	DIN 2183
3.5 X 2.7	M 3	-	M 3	M 5	M 5	1/8"	-
4 X 3	M 4	-	M 3.5	-	-	-	-
4.5 X 3.4	M 4	-	M 4	M 6	M 6	5/32"	1/4"
6 X 4.9	M 5	-	M 5	-	-	7/32"	-
	M 6	-	M 6	-	-	-	-
	M 8	-	-	M 8	M 8	-	-
7 X 5.5	M 10	G 1/8"	-	M 10	M 10	1/4"	3/8"
8 X 6.2	-	-	M 8	-	-	5/16"	7/16"
9 X 7	M 12	-	-	M 12	M 12	3/8"	1/2"
10 X 8	-	-	M10	-	-	-	-
11 X 9	M 14	G 1/4"	-	M 14	M 14	-	9/16"
12 X 9	M 16	G 1/8"	-	M 16	M 16	-	5/8"
14 X 11	M 18	-	-	M 18	M 18	-	11/16"
16 X 12	M 20	G 1/2"	-	M 20	M 20	-	13/16"
18 X 14.5	M 22	G 5/8"	-	M 22	M 22	-	7/8"
	M 24	-	-	M 24	M 24	-	15/16"
20 X 16	M 27	G 3/4"	-	M 27	M 27	-	1"
22 X 18	M 30	G 7/8"	-	M 30	M 30	-	1 1/8"
25 X 20	M 33	G 1"	-	M 33	M 33	-	1 1/4"
28 X 22	M 36	G 1 1/8"	-	M 36	M 36	-	1 3/8"
32 X 24	M 39	G 1 1/8"	-	M 39	M 39	-	1 1/2"
	M 42	-	-	M 42	M 42	-	1 5/8"
36 X 29	M 45	G 3/8"	-	M 45	M 45	-	1 3/4"
	M 48	G 1 1/2"	-	M 48	M 48	-	1 7/8"
	-	G 1 3/4"	-	-	-	-	-
	-	G 2"	-	-	-	-	-

Tap Shank Dimensions					ANSI (US Standards)					Tap Shank Dimensions (JIS Standards)		
Dimension in Inch.		Metric Conversion		Tap Size	Dimension in Inch.		Metric Conversion		Tap Size	Dimension in Inch.		Tap Size
dia	x Square				Dia	x Square				dia	x Square	
0.141	0.110	3.59	2.80	1/8" No. 6	0.590	0.442	14.99	11.23	3/4"	4.0	3.0	M 3 & M 3.5
0.168	0.131	4.27	3.33	5/32" No. 8	0.652	0.489	16.57	12.43	M 20	5.0	4.0	M 4 & M 4.5
0.194	0.152	4.93	3.87	3/16" No. 10	0.688	0.515	17.47	13.09	1/2" Ps	5.5	4.5	M 5
0.220	0.165	5.59	4.20	No. 12	0.697	0.523	17.71	13.29	7/8"	6.0	4.5	M 6
0.225	0.191	6.48	4.86	1/4" No. 14	0.700	0.531	17.78	13.49	3/8" Ps	6.2	5.0	M 7 & M 8
0.312	0.234	7.94	5.95	1/16" Ps 1/8" Ps	0.760	0.570	19.31	14.48	M 24	7.0	5.5	M 9 & M 10
0.318	0.238	8.08	6.05	5/16" 3/8"	0.800	0.600	20.32	15.24	1"	8.0	6.2	M 11
0.323	0.242	8.21	6.15	5/16" 7/16"	0.896	0.672	22.76	17.07	1 1/8"	8.5	6.5	M 12
0.367	0.275	9.33	6.99	1/2"	0.906	0.679	23.02	17.25	3/4" P	10.5	8.0	M 14
0.381	0.286	9.68	7.27	3/8"	1.021	0.766	25.94	19.46	1 1/4"	12.5	10.0	M 16
0.429	0.322	10.90	8.18	9/16"	1.108	0.833	28.15	21.11	1 3/8"	14.0	11.0	M 18
0.438	0.328	11.12	8.34	1/8" Ps	1.125	0.843	28.58	21.42	1"P	15.0	12.0	M 20
0.480	0.360	12.20	9.15	5/8"	1.233	0.925	31.32	23.50	1 1/2"	17.0	13.0	M 22
0.542	0.406	13.77	10.31	11/16"	1.132	0.984	33.34	25.00	1 1/4" P	19.0	15.0	M 24
0.563	0.421	14.29	10.70	1/4" Ps	1.430	1.072	36.33	27.23	1 3/4"	20.0	15.0	M 27
										23.0	17.0	M 30

RECOMMENDED TORQUE VALUES

RECOMMENDED TORQUE VALUES

For Safety Clutch adjustment for Tapping & Cold Forming (Rolling)
For material upto 1000 N/mm2

Torque Setting NM	Threads										Torque Setting NM
	Metric	Whitworth BSW	BSP Whitworth Pipe	BSF	BSF Taper	BA	PG	NPT Taper	UNC	UNF	
0.5	M 3	-	-	-	-	No. 7	-	-	-	-	0.5
0.6	-	-	-	-	-	No. 6	-	-	No. 3	No. 4	0.6
0.8	M 3.5	-	-	-	-	No. 5	-	-	No. 4	No. 5	0.8
1.0	-	1/8"	-	-	-	-	-	-	No. 5	-	1.0
1.2	-	-	-	-	-	No. 4	-	-	-	No. 6	1.2
1.6	M 4	-	-	-	-	-	-	-	No. 6	No. 8	1.6
2.0	-	5/32"	-	-	-	No. 3	-	-	No. 8	-	2.0
2.5	M 5	-	-	3/16"	-	No. 2	-	-	-	No. 10	2.5
3.0	-	-	-	-	-	-	-	-	-	No. 12	3.0
4.0	-	3/16"	-	7/32"	-	No. 1	-	-	No. 10	1/4"	4.0
5.0	M6	7/32"	-	1/4"	-	No. 0	-	-	No. 12	-	5.0
6.0	-	-	G 1/8"	9/32"	-	-	-	-	-	5/16"	6.0
8.0	-	1/4"	-	5/16"	-	-	-	-	1/4"	3/8"	8.0
10.0	M 8	-	-	-	-	-	-	-	-	-	10.0
12.0	-	5/16"	-	3/8"	-	-	PG 7	-	5/16"	7/16"	12.0
16.0	-	-	-	-	-	-	-	-	-	1/2"	16.0
18.0	M 10	3/8"	G 1/4"	7/16"	1/8"	-	-	-	3/8"	-	18.0
20.0	-	-	-	-	-	-	PG 9	1/8"	-	-	20.0
22.0	-	-	-	-	-	-	PG 11	-	-	9/16"	22.0
25.0	-	-	-	1/2"	-	-	PG 13.5	-	-	5/8"	25.0
28.0	M 12	7/16"	G 3/8"	-	-	-	PG 16	-	7/16"	-	28.0
32.0	-	-	-	9/16"	-	-	-	-	-	-	32.0
36.0	-	-	-	-	-	-	-	-	-	3/4"	36.0
40.0	-	-	-	5/8"	-	-	-	-	1/2"	-	40.0
45.0	M 14	1/2"	-	11/16"	-	-	PG 21	-	-	-	45.0
50.0	M 16	-	G 1/2"	-	1/4"	-	-	-	9/16"	-	50.0
56.0	-	-	G 5/8"	-	-	-	-	1/4"	-	7/8"	56.0
63.0	-	5/8"	-	-	3/8"	-	PG 29	-	5/8"	-	63.0
70.0	-	-	G 3/4"	3/4"	- 0	-	-	3/8"	-	-	70.0
80.0	M 18	-	G 3/8"	13/16"	-	-	PG 36	-	-	-	80.0
90.0	M 20	3/4"	-	7/8"	-	-	PG 42	-	3/4"	1"	90.0
100.0	M 22	-	-	-	-	-	PG 48	-	-	1 1/8"	100.0
110.0	-	-	-	-	-	-	-	-	-	1 1/4"	110.0
125.0	-	7/8"	-	1"	-	-	-	-	7/8"	1 3/8"	125.0
140.0	-	-	G 1"	-	-	-	-	-	-	1 1/2"	140.0
160.0	M 24	-	G 1 1/8"	-	1/2"	-	-	1/2"	-	-	160.0
180.0	M 27	-	G 1 1/4"	1 1.8"	-	-	-	-	-	-	180.0
200.0	-	1"	G 1 3/8"	1 1/4"	3/4"	-	-	3/4"	1"	-	200.0
220.0	-	-	G 1 1/2"	-	-	-	-	-	-	-	220.0
240.0	-	-	G 1 3/4"	-	-	-	-	-	-	-	240.0
260.0	-	-	G 2"	1 3/8"	-	-	-	-	-	-	260.0
280.0	M 30	1 1/8"	-	-	-	-	-	-	1 1/8"	-	280.0
300.0	-	-	G 2 1/4"	1 1/2"	-	-	-	-	-	-	300.0
320.0	M 33	1 1/4"	-	1 5/8"	-	-	-	-	1 1/4"	-	320.0
340.0	-	-	G 1 1/4"	-	1"	-	-	1"	-	-	340.0
360.0	-	-	G 2 3/4"	-	-	-	-	-	-	-	360.0
400.0	-	-	G 3"	-	-	-	-	-	-	-	400.0
420.0	M 36	-	G 3 1/4"	-	-	-	-	-	-	-	420.0
450.0	-	-	G 3 1/2"	1 3/4"	1 1/4"	-	-	1 1/4"	-	-	450.0
480.0	M 39	1 3/8"	G 3 3/4"	-	-	-	-	-	1 3/8"	-	480.0
500.0	-	1 1/2"	G 4"	2"	-	-	-	-	1 1/2"	-	550.0
560.0	-	-	-	-	1 1/2"	-	-	1 1/2"	-	-	560.0
630.0	M 42	-	-	-	-	-	-	-	-	-	630.0
710.0	M 45	-	-	2 1/4"	2"	-	-	2"	-	-	710.0
800.0	-	1 5/8"	-	2 1/4"	-	-	-	-	-	-	800.0
900.0	M 48	1 3/4"	-	2 3/4"	-	-	-	-	1 3/4"	-	900.0

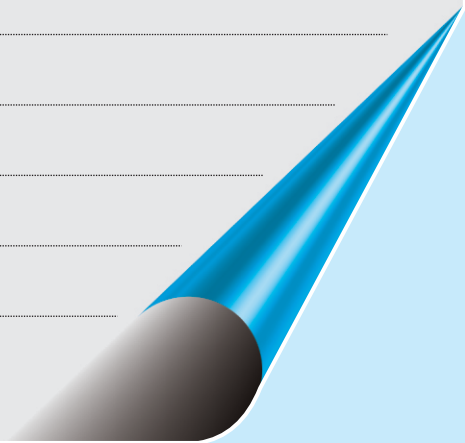
The given torque values are for tapping & cold forming operation. They pertain to material with a tensile strength of 1000 N/mm2. The torque values for tapping include a wear factor 100% if necessary, these values can be increased by up to 20% for tapping & up to cold forming.

NOTE : BELIVES THE INFORMATION GIVEN IN THE CATLOGUE IS TURE ANDCORRECT EVEN THEN WE HAVE NO RESPONSIBILITY FOR ANY ERROR OF ANY TYPE. OUR PRODUCTS ARE UNDER DEVELOPMENT FOR IMPROVEMENTS AND WE KEEP THE RIGHT TO CHANGE THE CATLOGUE MATTER WITHOUT KEEPING YOU INFORMED PLEASE.

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Company Overview

The Siddhi Group is a Consortium of enterprises that specialize in Manufacturing of forging and Machined Components for the automotive and general engineering industries.

By understanding the needs and concerns of clients, we offer customized solutions with focus on timely delivery. Ever since our inception in 1995, we have been bringing tangible value to customers with our exceptional dedication to quality, service and cost control.

Backed by our solid experience in the Forging and Manufacturing of precision components, we have come up with our new venture **Siddhi Precision Tooling Pvt. Ltd.** to manufacture Machine Tool Accessories, including CNC Tooling Systems.

With state-of-the-art ,manufacturing Facilities, including hi-tech testing equipment and a reliable Quality Assurance system, we are fully equipped to deliver world class quality norms and effectively met.

We have an in-house Design and Development Center for machine tool accessories, featuring the latest cad-cam design software.

Our team of engineers, designers and technicians, led by our visionary Directors, work passionately to create high performance products that are reliable, durable and cost-optimized.

Infrastructure highlights

- Premises of 12800 sq. Meters
- Modern manufacturing plant of 3000 sq. Meters
- Dedicated facilities for design, testing and prototyping
- Conveniently located in Ahmednagar MIDC

The technology edge :

We use cutting-edge German technology, ensuring a higher degree of precision. While German-made air gauging equipments are employed to manufacture tool holders, their balancing is done using German balancing machines.

Note : Due to continuous design improvement, technical specifications are subject to change without prior notice.

Siddhi Precision Tooling Pvt. Ltd.

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Dealer