

KTA TOOL HOLDERS: TECHNICAL INFORMATION

All **KTA** Tool holders are manufactured according to **DIN norms** (these DIN norms provide the same classes of tolerance for the attachment DIN 2080, DIN69871 A/B, MAS BT I)

CONE'S TOLERANCE

According to the class AT 3

COLLET CHUCK'S RUN OUT ACCURACY

The norm DIN 6391 permit a run out error between external cone and internal cone /collet seat of 0,016. Our collet chucks have a run out accuracy which is largely below the requested one .

SHELL END MILL ADAPTOR'S RUN OUT ACCURACY

Our shell end mill adaptors meet the requirements of the norms DIN 6358 , which prescribes for $\varnothing 16,22,27,32$ a run out accuracy of: 0,01 for SK 30/40
0,015 for SK 50

Our Holders have a Run out accuracy which is largely below the requested one.

END MILL HOLDER'S RUN OUT

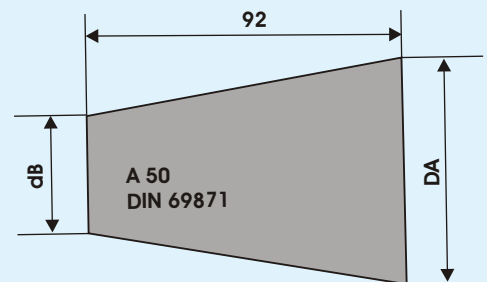
According to the Norm DIN 6359-1 end mill holders have to meet the following requirements bore :

H5/H6

Runout accuracy: **<0,01**

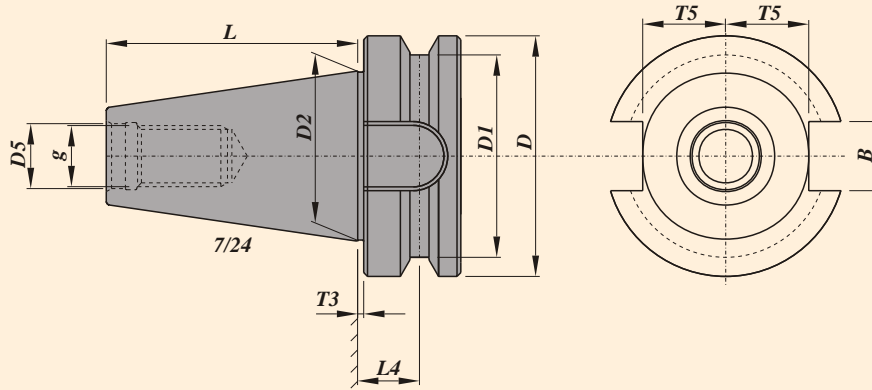
Our end mill holders ensure the prescribed hole's tolerance and have a run out accuracy which is largely below the requested one (normally 0,005).

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

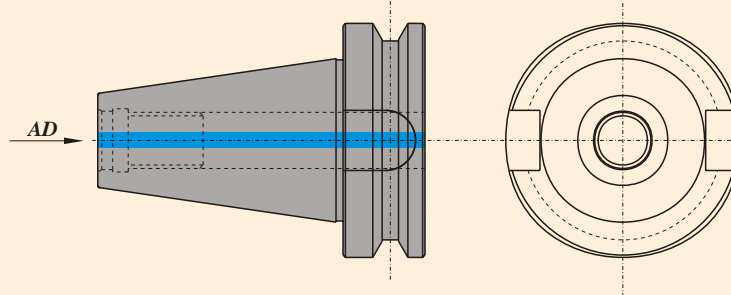
BT MAS 403



TAPER	D	D1	D2	L	D5	g	T5	B	T3	L4
30	46	38	31.75	48.4	12.5	M 12	16.3	16.1	2	13.6
35	53	43	38.1	56.5	13	M 12	19.3	14.1	2	13
35 MAS	53	43	38.1	56.5	12.5	M 12	19.6	16.1	2	14.6
40	63	53	44.45	65.4	17	M 16	2.6	16.1	2	16.6
45	85	73	57.15	82.8	21	M 20	29.1	19.3	3	21.2
50	100	85	69.85	101.8	25	M 24	35.4	25.7	3	23.2

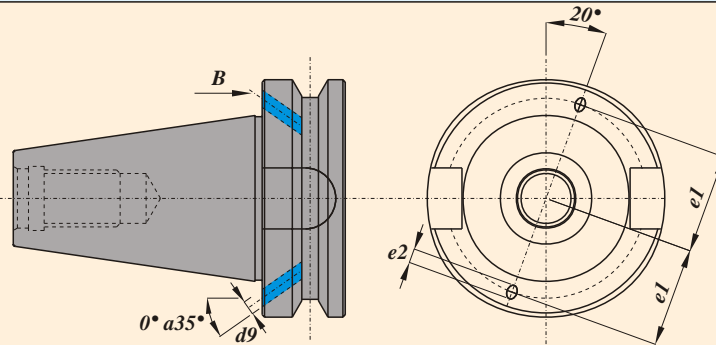
WITH COOLANT THROUGH CENTRE (FORM AD)

FORM AD



WITH COOLANT THROUGH FLANGE (FORM B)

FORM B

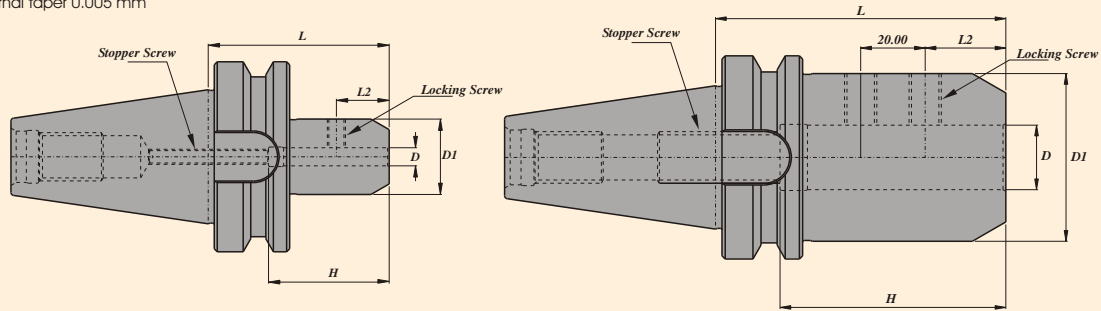


TAPER	d9	e1	e2
40	4	27	5
50	6	42	7

SIDE LOCK ADAPTOR FOR STRAIGHT SHANK TOOLS

BT MAS 403

Taper Angle Class AT3
Maximum runout of the internal ID in relation to the external taper 0.005 mm



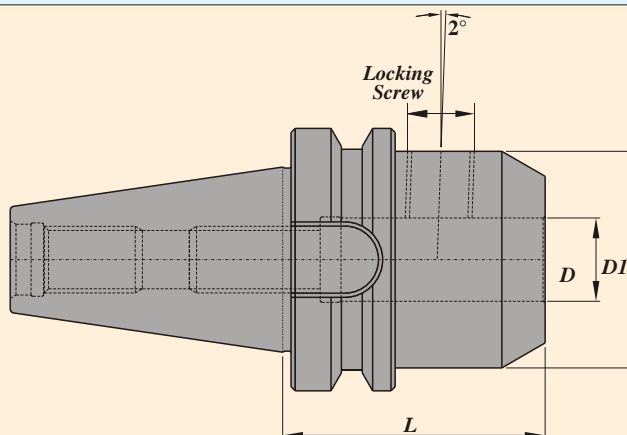
Description	BT	D	L	D1	L2	H	Stopper Screw	Locking Screw	Quantity
BT30SLA06065	30	6	65	20	15	40	M 5	M 6	1
BT30SLA08065	30	8	65	24	15	40	M 6	M 8	1
BT30SLA10065	30	10	65	30	16	44	M 8	M 10	1
BT30SLA12065	30	12	65	35	20	44	M 10	M 10	1
BT30SLA16065	30	16	65	40	23	52	M 12	M 10	1
BT30SLA20090	30	20	90	50	25	70	M 16	M 10	2
BT30SLA25090	30	25	90	50	25	70	M 20	M 10	2
BT40SLA06065	40	6	65	20	15	40	M 5	M 6	1
BT40SLA08065	40	8	65	24	15	40	M 6	M 8	1
BT40SLA10065	40	10	65	30	16	44	M 8	M 10	1
BT40SLA12065	40	12	65	35	20	44	M 10	M 10	1
BT40SLA16065	40	16	65	40	23	52	M 12	M 10	1
BT40SLA20090	40	20	90	50	25	70	M 16	M 10	2
BT40SLA25090	40	25	90	50	25	70	M 20	M 10	2
BT40SLA32090	40	32	90	60	30	70	M 20	M 10	2
BT40SLA40090	40	40	90	60	30	70	M 20	M 10	2
BT50SLA06075	50	6	75	20	15	40	M 5	M 6	1
BT50SLA08075	50	8	75	24	15	40	M 6	M 8	1
BT50SLA10075	50	10	75	30	16	44	M 8	M 10	1
BT50SLA12075	50	12	75	35	20	44	M 10	M 10	1
BT50SLA16075	50	16	75	40	23	52	M 12	M 10	1
BT50SLA20105	50	20	105	50	25	70	M 16	M 10	2
BT50SLA25105	50	25	105	50	25	70	M 20	M 10	2
BT50SLA32105	50	32	105	60	30	70	M 20	M 10	2
BT50SLA40105	50	40	105	60	30	70	M 20	M 10	2

Ordering Example :-
KTA BT40SLA06065 / Qty.- 2 Nos.

SIDE LOCK ADAPTOR WELDON TYPE

**BT MAS 403
DIN1835E**

Taper Angle Class AT3
Maximum runout of the
internal ID in relation
to the external taper 0.005 mm



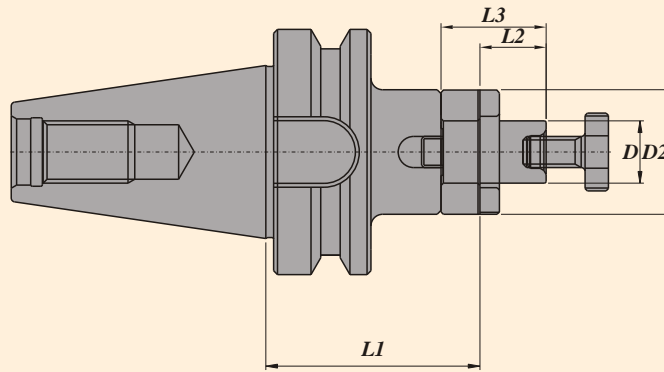
Description	ISO	D	L	D1	Locking Screw	Quantity	Stopper Screw
BT30WN06045	30	6	45	25	M6	1	M5
BT30WN08045	30	8	45	28	M8	1	M6
BT30WN10050	30	10	50	35	M10	1	M8
BT30WN12050	30	12	50	42	M12	1	M10
BT30WN16063	30	16	63	48	M14	1	M12
BT30WN20063	30	20	63	52	M16	1	M16
BT40WN06050	40	6	50	25	M6	1	M5
BT40WN08050	40	8	50	28	M8	1	M6
BT40WN10063	40	10	63	35	M10	1	M8
BT40WN12063	40	12	63	42	M12	1	M10
BT40WN16063	40	16	63	48	M14	1	M12
BT40WN20063	40	20	63	50	M16	1	M16
BT40WN25090	40	25	90	65	M18 X 2	2	M20
BT40WN32100	40	32	100	72	M20 X 2	2	M20
BT50WN06063	50	6	63	25	M6	1	M5
BT50WN08063	50	8	63	28	M8	1	M6
BT50WN10080	50	10	80	35	M10	1	M8
BT50WN12080	50	12	80	42	M12	1	M10
BT50WN16080	50	16	80	48	M14	1	M12
BT50WN20080	50	20	80	52	M16	1	M16
BT50WN25100	50	25	100	65	M18 X 2	2	M20
BT50WN32105	50	32	105	72	M20 X 2	2	M20
BT50WN40115	50	40	115	78	M 20 X 2	2	M20

Ordering Example :-
KTA BT40WN06050 / Qty.- 2 Nos.

COMBI SHELL MILL ADAPTOR

BT MAS 403 DIN 6358

Taper Angle Class AT3



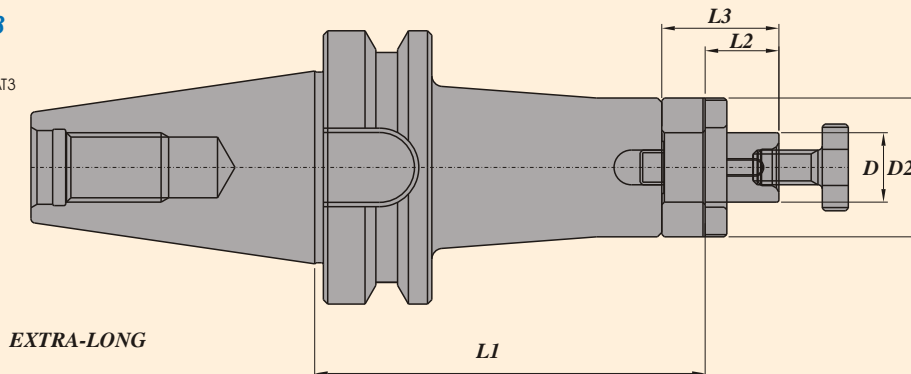
Description	ISO	D	L1	L2	L3	D2
BT30CSMA16050	30	16	50	17	27	32
BT30CSMA22050	30	22	50	19	31	40
BT30CSMA27055	30	27	55	21	33	48
BT40CSMA16055	40	16	55	17	27	32
BT40CSMA22055	40	22	55	19	31	40
BT40CSMA27055	40	27	55	21	33	48
BT40CSMA32060	40	32	60	24	38	58
BT40CSMA40060	40	40	60	27	41	70
BT50CSMA16065	50	16	65	17	27	32
BT50CSMA22065	50	22	65	19	31	40
BT50CSMA27065	50	27	65	21	33	48
BT50CSMA32080	50	32	80	24	38	58
BT50CSMA40080	50	40	80	27	41	70

Ordering Example :-
KTA BT40CSMA16055 / Qty.- 2 Nos.

COMBI SHELL MILL ADAPTOR (EXTRA LONG)

BT MAS 403 DIN 6358

Taper Angle Class AT3



Description	ISO	D	L1	L2	L3	D2
BT40CSMA16100	40	16	100	17	27	32
BT40CSMA22100	40	22	100	19	31	40
BT40CSMA27100	40	27	100	21	33	48
BT40CSMA32100	40	32	100	24	38	58
BT50CSMA16100	50	16	100	17	27	32
BT50CSMA22100	50	22	100	19	31	40
BT50CSMA27100	50	27	100	21	33	48
BT50CSMA32100	50	32	100	24	38	58
BT50CSMA40100	50	40	100	27	41	70

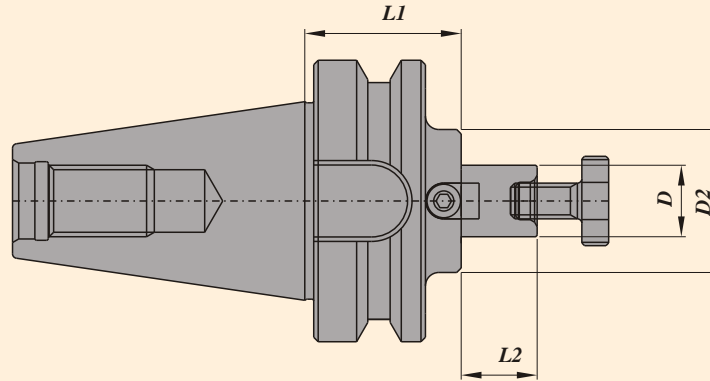
Driver Ring	Screw	Key	D	Driver Ring	Screw	Key W X L
			16	DR16 X 10	SCR16 X M8	KEY 4 X 20
			22	DR22 X 12	SCR22 X M10	KEY 6 X 25
			27	DR27 X 12	SCR27 X M12	KEY 7 X 25
			32	DR32 X 14	SCR32 X M16	KEY 8 X 30
			40	DR40 X 14	SCR40 X M20	KEY 10 X 30

Ordering Example :-
KTA BT50CSMA40100 Qty.- 2 Nos.

FACE MILL HOLDER TENNON DRIVER

BT MAS 403
DIN 3937

Taper Angle Class AT3



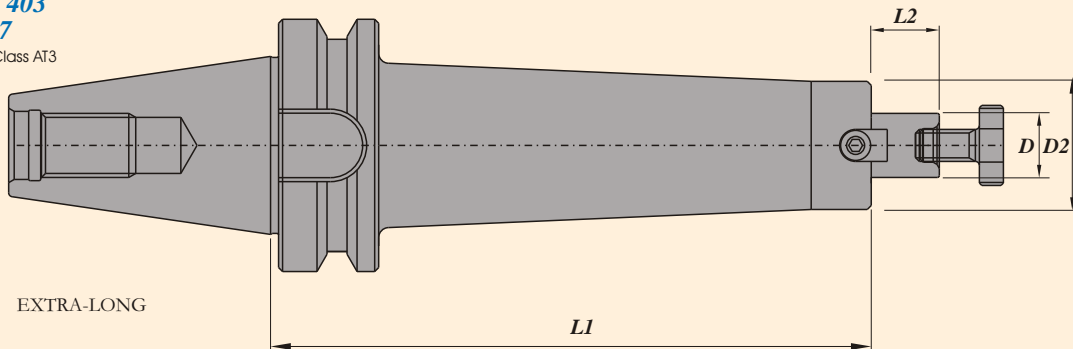
Description	ISO	D	L1	L2	D2
BT30FMH16040	30	16	40	17	38
BT30FMH22040	30	22	40	19	48
BT30FMH27040	30	27	40	21	58
BT40FMH16045	40	16	45	17	38
BT40FMH22045	40	22	45	19	48
BT40FMH27045	40	27	45	21	58
BT40FMH32050	40	32	50	24	78
BT40FMH40050	40	40	50	27	82
BT50FMH16055	50	16	55	17	38
BT50FMH22055	50	22	55	19	48
BT50FMH27055	50	27	55	21	58
BT50FMH32060	50	32	60	24	78
BT50FMH40060	50	40	60	27	82

Ordering Example :-
KTA BT40FMH16045 / Qty.- 2 Nos.

FACE MILL HOLDER TENNON DRIVER (EXTRA LONG)

BT MAS 403
DIN 3937

Taper Angle Class AT3



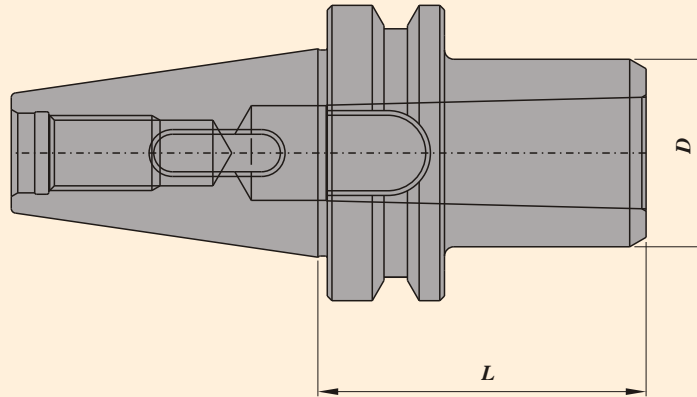
Description	ISO	D	L1	L2	D2
BT40FMH16120	40	16	120	17	38
BT40FMH22120	40	22	120	19	48
BT40FMH27120	40	27	120	21	58
BT40FMH32120	40	32	120	24	78
BT50FMH16150	50	16	150	17	38
BT50FMH22150	50	22	150	19	48
BT50FMH27150	50	27	150	21	58
BT50FMH32150	50	32	150	24	78
BT50FMH40150	50	40	150	27	82

Screw	Tennon	Allen Cap Screw	D	Screw	Tennon	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

MORSE TAPER ADAPTORS

BT MAS 403 DIN 288-2 Form D

Taper Angle Class AT3
Maximum runout of the
internal taper in relation
to the external taper 0.005 mm



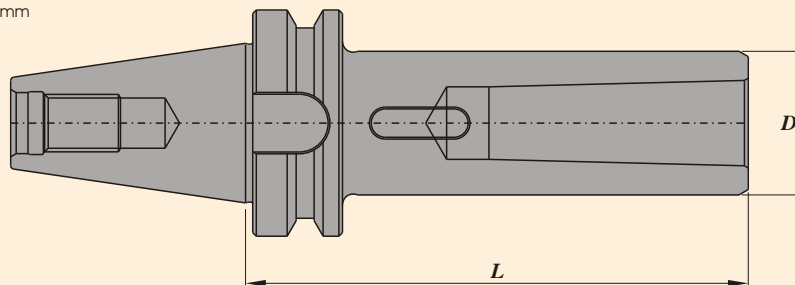
Description	ISO	MORSE	D	L
BT30MTA01050	30	1	25	50
BT30MTA02060	30	2	32	60
BT30MTA03075	30	3	40	75
BT40MTA01050	40	1	25	50
BT40MTA02050	40	2	32	50
BT40MTA03070	40	3	40	70
BT40MTA04095	40	4	48	95
BT50MTA01050	50	1	25	50
BT50MTA02060	50	2	32	60
BT50MTA03065	50	3	40	65
BT50MTA04095	50	4	48	95
BT50MTA05120	50	5	63	120

Ordering Example :-
KTA BT40MTA01050 / Qty.- 2 Nos.

MORSE TAPER ADAPTORS (EXTRA LONG)

BT MAS 403 DIN 288-2 Form D

Taper Angle Class AT3
Maximum runout of the
internal taper in relation
to the external taper 0.005 mm



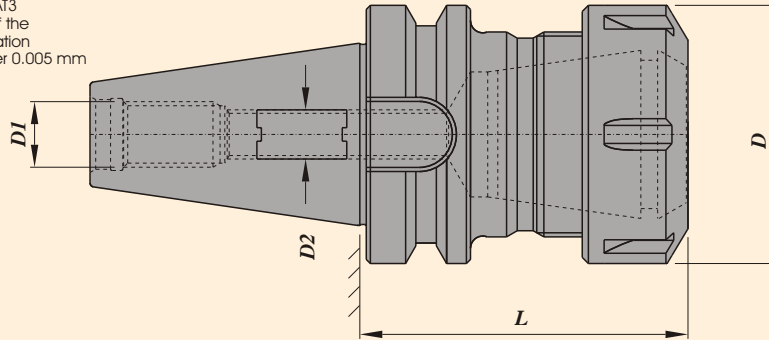
Description	ISO	MORSE	D	L
BT30MTA01110	30	1	25	110
BT30MTA02120	30	2	32	120
BT30MTA03140	30	3	40	140
BT40MTA01115	40	1	25	115
BT40MTA02125	40	2	32	125
BT40MTA03140	40	3	40	140
BT40MTA01120	50	1	25	120
BT50MTA02140	50	2	32	140
BT50MTA03150	50	3	40	150
BT50MTA04180	50	4	48	180
BT50MTA05220	50	5	63	220

Ordering Example :-
KTA BT40MTA01115 / Qty.- 2 Nos.

'ER' COLLET CHUCK

BT MAS 403
BT A / ER

Taper Angle Class AT3
Maximum runout of the
internal taper in relation
to the external taper 0.005 mm



Collet Chuck Designation	Suitable for Collet	Collet Clamping Capacity	L	D1	D2	Nut		Spanner Designation
						D	Designation	
BT 30 ER 16060	ER 16	0.5 - 10	60	M 12	M 10	28	UM/ER 16	GS 25
BT 30 ER 16100	ER 16	0.5 - 10	100	M 12	M 10	28	UM/ER 16	GS 25
BT 30 ER 20060	ER 20	1.0 - 13	60	M 12	M 10	34	UM/ER 20	E 20
BT 30 ER 20100	ER 20	1.0 - 13	100	M 12	M 10	34	UM/ER 20	E 20
BT 30 ER 25060	ER 25	1.0 - 16	60	M 12	M 12	42	UM/ER 25	E 25
BT 30 ER 25100	ER 25	1.0 - 16	100	M 12	M 12	42	UM/ER 25	E 25
BT 30 ER 32060	ER 32	2.0 - 20	60	M 12	M 12	50	UM/ER 32	E 32
BT 30 ER 32100	ER 32	2.0 - 20	100	M 12	M 12	50	UM/ER 32	E 32
BT 30 ER 40100	ER 40	3.0 - 26	100	M 12	M 16	63	UM/ER 40	E 40
BT 40 ER 16060	ER 16	0.5 - 10	60	M 16	M 10	28	UM/ER 16	GS 25
BT 40 ER 16100	ER 16	0.5 - 10	100	M 16	M 10	28	UM/ER 16	GS 25
BT 40 ER 16160	ER 16	0.5 - 10	160	M 16	M 10	28	UM/ER 16	GS 25
BT 40 ER 20060	ER 20	1.0 - 13	60	M 16	M 10	34	UM/ER 20	E 20
BT 40 ER 20100	ER 20	1.0 - 13	100	M 16	M 10	34	UM/ER 20	E 20
BT 40 ER 20160	ER 20	1.0 - 13	160	M 16	M 10	34	UM/ER 20	E 20
BT 40 ER 25060	ER 25	1.0 - 16	60	M 16	M 12	42	UM/ER 25	E 25
BT 40 ER 25100	ER 25	1.0 - 16	100	M 16	M 12	42	UM/ER 25	E 25
BT 40 ER 25160	ER 25	1.0 - 16	160	M 16	M 12	42	UM/ER 25	E 25
BT 40 ER 32070	ER 32	2.0 - 20	70	M 16	M 12	50	UM/ER 32	E 32
BT 40 ER 32100	ER 32	2.0 - 20	100	M 16	M 12	50	UM/ER 32	E 32
BT 40 ER 32160	ER 32	2.0 - 20	160	M 16	M 12	50	UM/ER 32	E 32
BT 40 ER 40080	ER 40	3.0 - 26	80	M 16	M 16	63	UM/ER 40	E 40
BT 40 ER 40100	ER 40	3.0 - 26	100	M 16	M 16	63	UM/ER 40	E 40
BT 40 ER 40160	ER 40	3.0 - 26	160	M 16	M 16	63	UM/ER 40	E 40
BT 50 ER 25065	ER 25	1.0 - 16	65	M 24	M 12	42	UM/ER 25	E 25
BT 50 ER 25100	ER 25	1.0 - 16	100	M 24	M 12	42	UM/ER 25	E 25
BT 50 ER 25160	ER 25	1.0 - 16	160	M 24	M 12	42	UM/ER 25	E 25
BT 50 ER 32070	ER 32	2.0 - 20	70	M 24	M 12	50	UM/ER 32	E 32
BT 50 ER 32100	ER 32	2.0 - 20	100	M 24	M 12	50	UM/ER 32	E 32
BT 50 ER 32160	ER 32	2.0 - 20	160	M 24	M 12	50	UM/ER 32	E 32
BT 50 ER 40080	ER 40	3.0 - 26	80	M 24	M 16	63	UM/ER 40	E 40
BT 50 ER 40100	ER 40	3.0 - 20	100	M 24	M 16	63	UM/ER 40	E 40
BT 50 ER 40160	ER 40	3.0 - 20	160	M 24	M 16	63	UM/ER 40	E 40
BT 50 ER 50100	ER 50	10.0 - 34	100	M 24	M 16	78	UM/ER 50	E 50
BT 50 ER 50160	ER 50	10.0 - 34	160	M 24	M 16	78	UM/ER 50	E 50

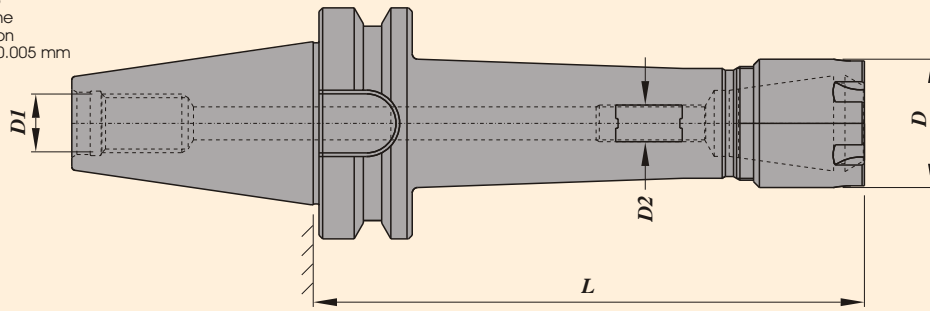
Ordering Example :-
KTA BT 40 ER 16100 / Qty.- 2 Nos.

For Ball Bearing Nut (KM/ER)
refer page no. 55

BT SHANK 'ER' COLLET HOLDER (EXTRA LONG) WITH M NUTS

BT MAS 403 BT A / ER M

Taper Angle Class AT3
Maximum runout of the
internal taper in relation
to the external taper 0.005 mm



Collet Chuck Designation	Suitable for Collet	Collet Clamping Capacity	L	D1	D2	Nut		Spanner Designation
						D	Designation	
BT 40 ER 16M060	ER 16	0.5 - 10	60	M 16	M 10	22	ER 16 M	E 16 M
BT 40 ER 16M120	ER 16	0.5 - 10	120	M 16	M 10	22	ER 16 M	E 16 M
BT 40 ER 16M160	ER 16	0.5 - 10	160	M 16	M 10	22	ER 16 M	E 16 M
BT 40 ER 20M060	ER 20	1.0 - 13	60	M 16	M 10	28	ER 20 M	E 20 M
BT 40 ER 20M120	ER 20	1.0 - 13	120	M 16	M 10	28	ER 20 M	E 20 M
BT 40 ER 20M160	ER 20	1.0 - 13	160	M 16	M 10	28	ER 20 M	E 20 M
BT 40 ER 25M070	ER 25	1.0 - 16	70	M 16	M 12	35	ER 25 M	E 25 M
BT 40 ER 25M120	ER 25	1.0 - 16	120	M 16	M 12	35	ER 25 M	E 25 M
BT 40 ER 25M160	ER 25	1.0 - 16	160	M 16	M 12	35	ER 25 M	E 25 M

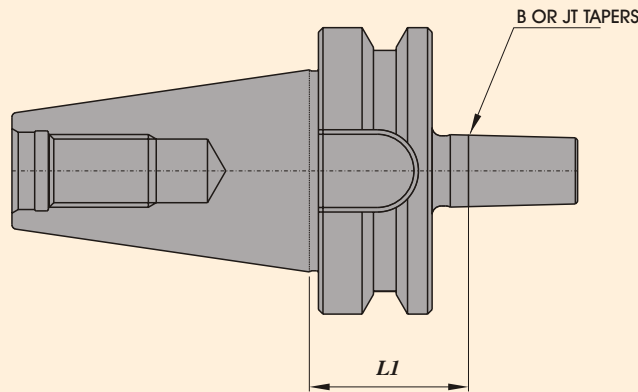
Ordering Example :-
KTA BT 40 ER 16M060 / Qty. - 2 Nos.

For 'ER/M' Nut
refer page no. 55,56

ARBOR

BT MAS 403 DIN 238

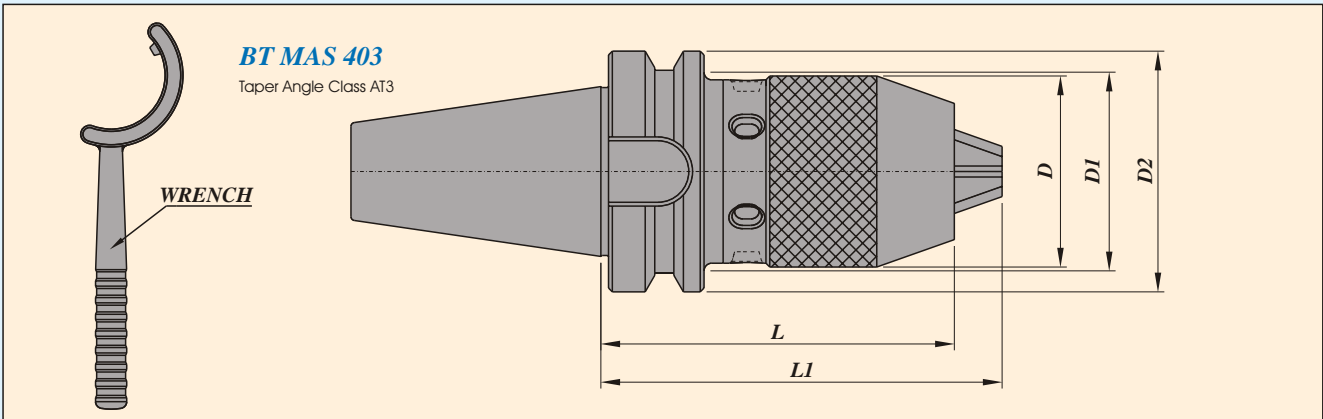
Taper Angle Class AT3
Concentricity of external tapers
is within 0.005 mm



Description	ISO	B	L1
BT30 B12	30	B12	26.5
BT30 B16	30	B16	26.5
BT40 J6	40	J6	35.5
BT40 B12	40	B12	35.5
BT40 B16	40	B16	35.5
BT50 J6	50	J6	46.5
BT50 B12	50	B12	46.5
BT50 B16	50	B16	46.5

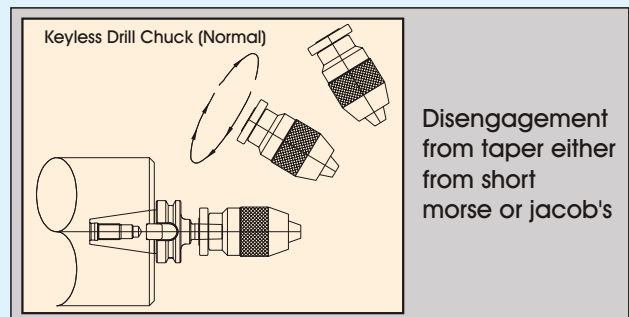
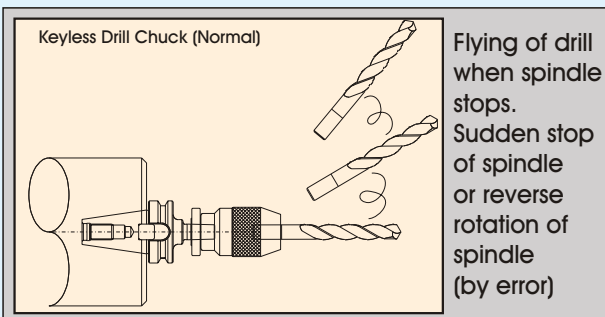
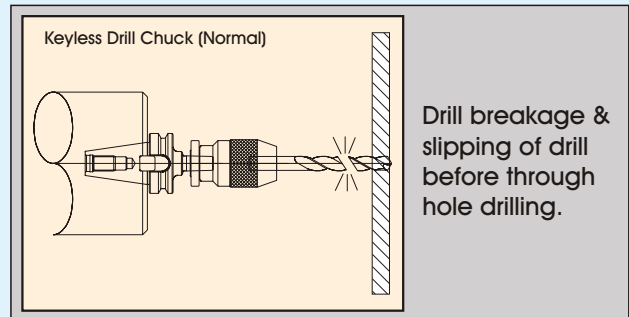
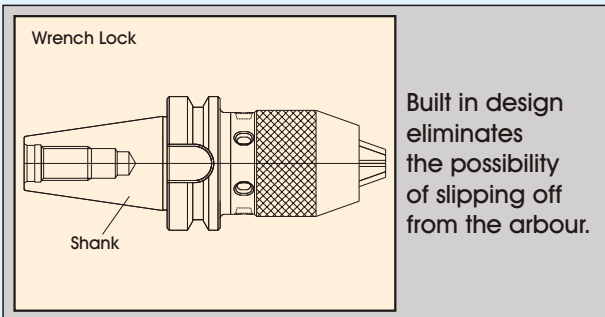
Ordering Example :-
KTA BT40 B16 /Qty. - 2 Nos.

BT SHANK NC DRILL CHUCK

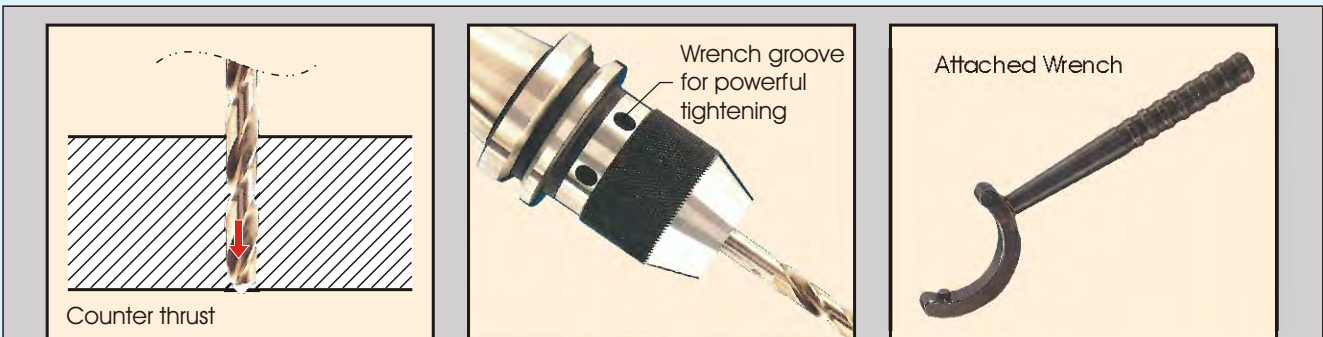


Type	D Ø	D1Ø	D2 Ø	L	L1
BT30XDC113	50	48	46	108.5	121
BT40XDC113	50	52	63	92.5	105
BT50XDC113	50	52	100	103.5	116

Ordering Example :-
KTA BT50XDC113 Qty. - 2 Nos.



3 Times Chucking Power



Comparison data of drill chuck tightening torque

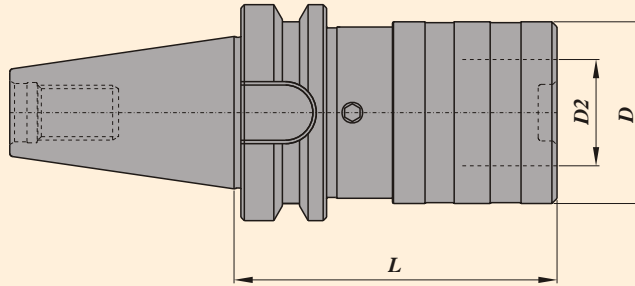
Type of drill chuck	Method of tightening	Twisting moment	Comparison %
KTA DC 113	By hand	6.9 Nm	100
KTA NC DC 113	By wrench	21.8 Nm	300

Concentricity 0.04 T.I.R.

KWFLK / BT / MAS 403 : TAPPING CHUCK

BT MAS 403

Taper Angle Class AT3



Chuck Designation Size	For Taps Size	Suitable Adaptors	Length Comp.		D dia.	D2 dia.	BT30 L	BT40 L	BCT45 L	BT50 L
			Compr.	Expan.						
KWFLK1/BT	M 3 - M 12	KWES1B / KWE1	7.50	7.50	36	19	64.0	67.5	73.5	77.0
KWFLK2BT	M 8 - M 20	KWES2B / KWE2	12.50	12.50	53	31	-	94.5	97.5	102.5
KWFLK3/BT	M 14 - M 33	KWES3B / KWE3	20.00	20.00	78	48	-	164.5	154.5	142.5

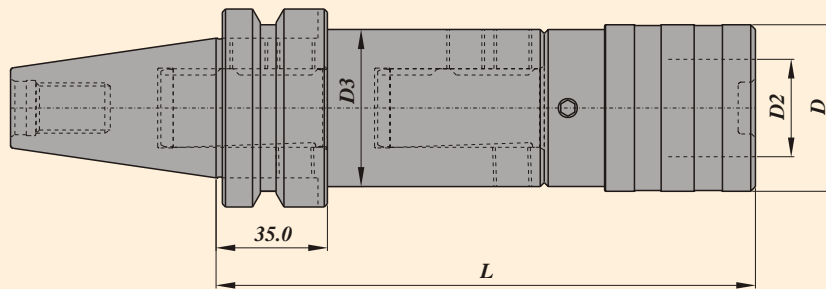
Ordering Example :-
KTA KWFLK3/BT Qty. - 2 Nos.

For Adaptors refer
page no. 13,14,15.

KWFLK / BT / MAS (EXTRA LONG SPECIAL) : TAPPING CHUCK

BT MAS 403

Taper Angle Class AT3



Chuck Designation Size	For Taps Size	Suitable Adaptors	Length Comp.		D dia.	D2 dia.	D3 dia.	CT40/L L	CT45/L L	CT50/L L
			Compr.	Expan.						
KWFLK1/BT	M 3 - M 12	KWES1B / KWE1	7.50	7.50	36	19	50	150 to 500	150 to 500	150 to 500
KWFLK2/BT	M 8 - M 20	KWES2B / KWE2	12.50	12.50	53	31	85	150 to 500	150 to 500	150 to 500
KWFLK3/BT	M 14 - M 33	KWES3B / KWE3	20.00	20.00	78	48	100	200 to 500	200 to 500	200 to 500

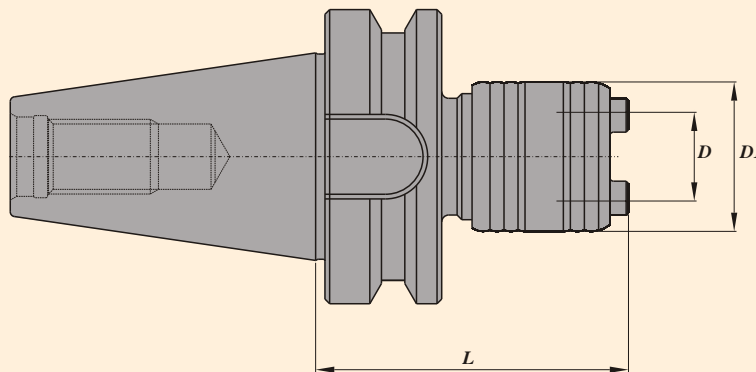
Ordering Example :-
KTA KWFLK3/BT Qty. - 2 Nos.

For Adaptors refer
page no. 13,14,15

RIGID TAPPING CHUCK Q / BT40

BT MAS 403

Taper Angle Class AT3

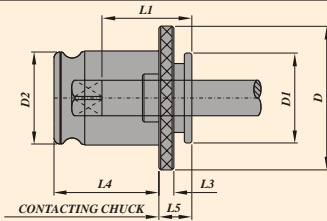


Chuck Designation	Capacity	Suitable Adaptors KWE & KWES B Size	D	D1	30	40	50
					L	L	L
Q 3-12 / BT	M3 - M12	KWE1/ KWES1B	32	19	61.5	67.0	77.0
Q 8-20 / BT	M8 - M20	KWE2/ KWES2B	50	31	84.5	90.0	100.0

Ordering Example :-
KTA Q 3-12 / BT40 / Qty. - 2 Nos.

For Adaptors refer
page no. 13,14,15.

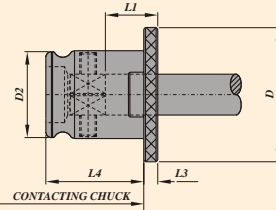
ADAPTOR TYPE KWE



Ordering Example :-
KTA TAP ADAPTOR : KWE1 Ø 6.3X5sq. / Qty. - 2 Nos.

Chuck Designation Size	For Taps	Shank Ø	Suitable for Chuck Size	D dia.	D1 dia.	D2 dia.	L1	L3	L4	L5
KWE1	M 3 - M 12	3.5 - 11.3	1	30	19	19	17	4	21.5	7
KWE2	M 8 - M 20	7.0 - 18.0	2	48	30	31	30	5	35.0	11
KWE3	M 14 - M 33	11.0 - 28.0	3	70	48	48	44	6	55.5	14

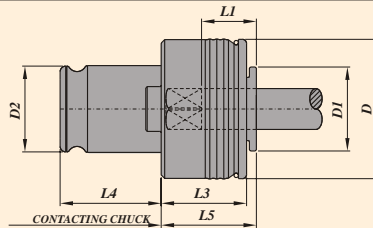
ADAPTOR TYPE KWEK (For Light Duty Application)



Ordering Example :-
KTA TAP ADAPTOR : KWEK2 Ø 20X16sq. / Qty. - 2 Nos.

Chuck Designation Size	For Taps	Shank Ø	Suitable for Chuck Size	D dia.	D2 dia.	L1	L3	L4
KWEK1	M16	>11.3 - 12	1	30	19	13	4	21.5
KWEK2	M 27 - M 30	>18.0 - 22	2	48	31	20	5	35.0
KWEK3	M 39 - M 48	>28.0 - 36	3	70	48	36	6	55.5

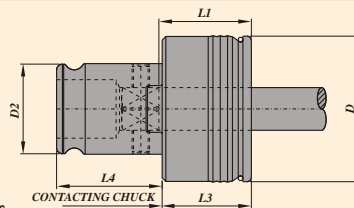
ADAPTOR TYPE KWES / B



Ordering Example :-
KTA TAP ADAPTOR : KWES/1B M8 Ø 10X8sq. / Qty. - 2 Nos.

Chuck Designation Size	For Taps	Shank Ø	Suitable for Chuck Size	D dia.	D1 dia.	D2 dia.	L1	L3	L4	L5
KWES / 1B	M 3 - M 12	3.5 - 11.3	1	32	19	19	17	25	21.5	25
KWES / 2B	M 8 - M 20	7.0 - 18.0	2	50	30	31	30	31	35.0	34
KWES / 3B	M 14 - M 33	11.0 - 28.0	3	72	48	48	44	41	55.5	45

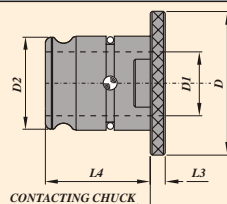
ADAPTOR TYPE KWESK/B (For Light Duty Application)



Ordering Example :-
KTA TAP ADAPTOR : KWESK/1B M16X1 / Ø 12.5X10sq. / Qty. - 2 Nos.

Chuck Designation Size	For Taps	Shank Ø	Suitable for Chuck Size	D dia.	D2 dia.	L1	L3	L4
KWESK /1B	M16	>11.3 - 12	1	32	19	27.5	25	21.5
KWESK /2B	M 27 - M 30	>18.0 - 22	2	50	31	32.5	31	35.0
KWESK /3B	M 39 - M 48	>28.0 - 36	3	72	48	40.0	41	55.5

ADAPTOR TYPE KWRE (Reduction Socket)



Ordering Example :-
KTA REDUCER : KWRE 2/1 / Qty. - 2 Nos.

Chuck Designation Size	Suitable for Chuck Size	Adaptor Size	D dia.	D1 dia.	D2 dia.	L3	L4
KWRE 2/1	2	1	48	19	31	5	35
KWRE 3/2	3	2	70	31	48	6	55.5

TECHNICAL INFORMATION
Tap Shank Dimensions 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
3.15 x 2.5	M4	M3	-	No. 4-40	-	No. 4-48	-	-	-	-	-	No. 5
	-	-	No. 8-32	No. 5-40	No. 8-36	No. 5-44	-	-	-	-	No. 3	-
3.55 x 2.8	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	M 4	No. 12-24	No. 6-32	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 x 4	-	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 Dimensions 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	-	-	M 10	-	-	-	-
11 x 9	M 14	G 1/4"	-	M14	M 14	-	9/16"
12 X 9	M 16	G 3/8"	-	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)

Tap Shank Dimensions ANSI (US Standards)					Tap Shank Dimensions (JIS Standards)							
Dimension in Inch. Dia. x Square		Metric Conversions		Tap Size	Dimension in Inch. Dia. x Square		Metric Conversions		Tap Size	Dimension in mm. Dia. x Square		Tap Size
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
0.255	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	23.17	M 30

Recommended Torque Valves

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	BSP Taper	BA	PG	NPT Taper	UNC	UNF	
0.5	M3	-	-	-	-	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	M4	-	-	-	-	-	-	-	No. 6	No. 8	1.6
2.0	-	5/32"	-	-	-	No. 3	-	-	No. 8	-	2.0
2.5	M5	-	-	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	M8	-	-	-	-	-	-	-	-	-	10
12	-	5/16"	-	3/8"	-	-	PG 7	-	5/16"	7/16"	12
16	-	-	-	-	-	-	-	-	-	1/2"	16
18	M10	3/8"	G 1/4"	7/16"	1/8"	-	-	-	3/8"	-	18
20	-	-	-	-	-	-	PG9	1/8"	-	-	20
22	-	-	-	-	-	-	PG11	-	-	9/16"	22
25	-	-	-	1/2"	-	-	PG 13.5	-	-	5/8"	25
28	M 12	7/16"	G 3/8"	-	-	-	PG 16	-	7/16"	-	28
32	-	-	-	9/16"	-	-	-	-	-	-	32
36	-	-	-	-	-	-	-	-	-	3/4"	36
40	-	-	-	5/8"	-	-	-	-	1/2"	-	40
45	M 14	1/2"	-	11/16"	-	-	PG 21	-	-	-	45
50	M 16	-	G 1/2"	-	1/4"	-	-	-	9/16"	-	50
56	-	-	G 5/8"	-	-	-	-	1/4"	-	7/8"	56
63	-	5/8"	-	-	3/8"	-	PG 29	-	5/8"	-	63
70	-	-	G 3/4"	3/4"	-0	-	-	3/8"	-	-	70
80	M 18	-	G 7/8"	13/16"	-	-	PG 36	-	-	-	80
90	M 20	3/4"	-	7/8"	-	-	PG 42	-	3/4"	1"	90
100	M22	-	-	-	-	-	PG 48	-	-	1 1/8"	100
110	-	-	-	-	-	-	-	-	-	1 1/4"	110
125	-	7/8"	-	1"	-	-	-	-	7/8"	1 3/8"	125
140	-	-	G 1"	-	-	-	-	-	-	1 1/2"	140
160	M24	-	G 1 1/8"	-	1/2"	-	-	1/2"	-	-	160
180	M 27	-	G 1 1/4"	1 1/8"	-	-	-	-	-	-	180
200	-	1"	G 1 3/8"	1 1/4"	3/4"	-	-	3/4"	1"	-	200
220	-	-	G 1 1/2"	-	-	-	-	-	-	-	220
240	-	-	G 1 3/4"	-	-	-	-	-	-	-	240
260	-	-	G 2"	1 3/8"	-	-	-	-	-	-	260
280	M 30	1 1/8"	-	-	-	-	-	-	1 1/8"	-	280
300	-	-	G 2 1/4"	1 1/2"	-	-	-	-	-	-	300
320	M 33	1 1/4"	-	1 5/8"	-	-	-	-	1 1/4"	-	320
340	-	-	G 2 1/4"	-	1"	-	-	1"	-	-	340
360	-	-	G 2 3/4"	-	-	-	-	-	-	-	360
400	-	-	G 3"	-	-	-	-	-	-	-	400
420	M 36	-	G 3 1/4"	-	-	-	-	-	-	-	420
450	-	-	G 3 1/2"	1 3/4"	1 1/4"	-	-	1 1/4"	-	-	450
480	M 39	1 3/8"	G 3 3/4"	-	-	-	-	-	1 3/8"	-	480
500	-	1 1/2"	G 4"	2"	-	-	-	-	1 1/2"	-	500
560	-	-	-	-	1 1/2"	-	-	1 1/2"	-	-	560
630	M 42	-	-	-	-	-	-	-	-	-	630
710	M 45	-	-	2 1/4"	2"	-	-	2"	-	-	710
800	-	1 5/8"	-	2 1/2"	-	-	-	-	-	-	800
900	M 48	1 3/4"	-	2 3/4"	-	-	-	-	1 3/4"	-	900

The given torque values are for tapping & cold forming operations. They pertain to material with a tensile strength of 1000 N/mm².

The torque values for tapping include a wear factor of 100%.

If necessary, these values can be increased by up to 20% for tapping & up to 50% for cold forming.

HEX DRIVE NEW RIGID TAPPING SYSTEM

HEX DRIVE BT SHANK ER/TC RIGID TAPPING CHUCK

TECHNICAL INFORMATION ON HEX DRIVE

It is the most Universal Rigid Tapping Chuck. There is a Hexagon provided inside the main collet chuck and there is outside Hexagon provided for Rigid Tapping adaptor.

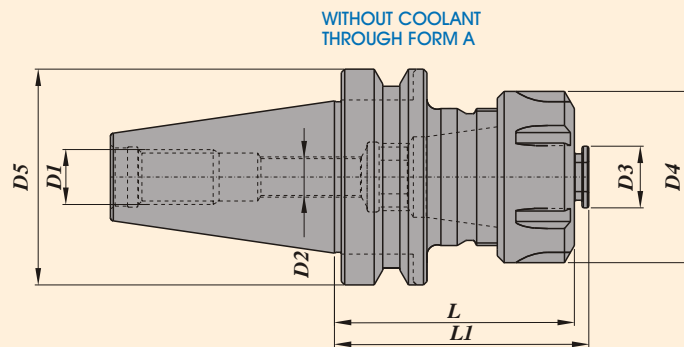
After inserting the Hex Drive Tap Adaptor inside the holder, it becomes most positive driving Mechanism.

Secondly there is a square & diameter provided in the Rigid Tap Adaptor, which holds the Tap firmly & because of square drive, the tap is driven positively, without any slippage.

The biggest advantage is quick changing of the tap, just press the bush & remove the tap & insert the new tap with same geometry & start the machine.

HEX DRIVE BT SHANK ER/TC RIGID TAPPING CHUCK

**BT A / ER
BT MAS 403**

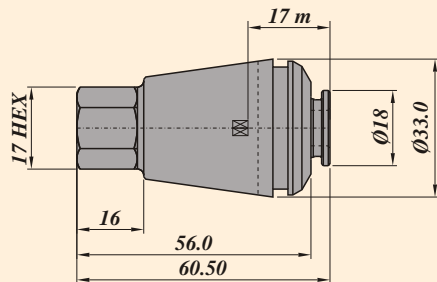


Collet Chuck Designation	Suitable TAP Collet	Tap Clamping Capacity	Tap Holding Range upto	D1	D2	D3	D5	L	L1	Nut		Spanner Designation
										D4	Designation	
HEX DRIVE BT 30 A ER 32070	ER 32 / TC1	M3 - M 12	Ø 12 x □ 9 mm	M 12	M12	18	46	70	74	50	UM/ER 32	E 32
HEX DRIVE BT 40 A ER 32070	ER 32 / TC1	M3 - M 12	Ø 12 x □ 9 mm	M 16	M12	18	63	70	74	50	UM/ER 32	E 32
HEX DRIVE BT 40 A ER 40080	ER 40 / TC2	M8 - M 20	Ø 16 x □ 12.5 mm	M 16	M16	30	63	70	74	63	UM/ER 40	E 40
HEX DRIVE BT 50 A ER 32100	ER 32 / TC1	M3 - M 12	Ø 12 x □ 9 mm	M 24	M12	18	100	100	104	50	UM/ER 32	E 32
HEX DRIVE BT 50 A ER 40100	ER 40 / TC2	M8 - M 20	Ø 16 x □ 12.5 mm	M 24	M16	30	100	100	104	63	UM/ER 40	E 40

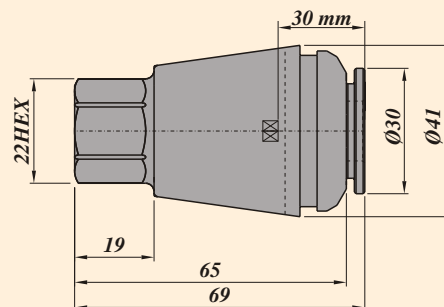
Ordering Example :-
KTA HEX DRIVE BT 30 A ER 32 Without coolant / Qty. - 2 Nos.

For Ball Bearing Nut (KM/ER)
refer page no. 55 ,56

HEX DRIVE ER/TC RIGID TAPPING COLLET



ER32/TC1 M3 TO M12
SPECIFY SHANK & SQUARE SIZE WHILE ORDERING
FOR EXAMPLE 9.0 X 7.1 SQ.



ER40/TC2 M8 TO M20
SPECIFY SHANK & SQUARE SIZE WHILE ORDERING
FOR EXAMPLE 11.2 X 9.0 SQ.

FOR TAP ADAPTOR DETAILS REFER PAGE NO. 13

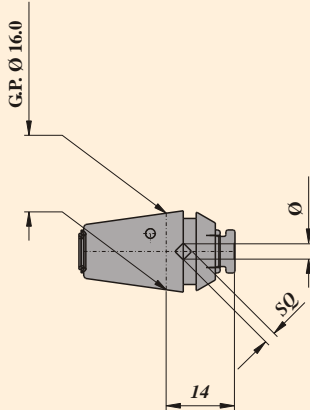
ERT QUICK CHANGE TAPPING COLLETS WITH AXIAL COMPENSATION

This system is to be used along with ER Collet chucks on CNC machines & SPM's Recommendations

Rapid approach, then feed the tap with approximately 95% of the pitch value, this gives positive start to the tapping. This uses 20% to 30% of the compensation stroke.

When the spindle rotation & the feed movement are simultaneously reversed. Return feed must be made 100% of the pitch value. Which maintains the sleeve of the tapping collet in the expansion stroke upto the tap disengagement. When tapping with very high speed, an appropriate programming, compensation may be necessary to balance the differences of inertia between the spindle & the feed movement on reverse. Never disturb the axial compensation. Use external coolant supply only.

ERT 16 COLLET

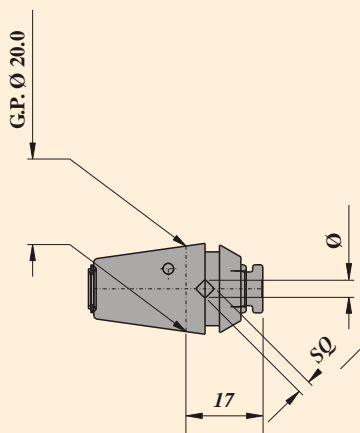


FOR ERT 16 COLLET CHUCKS

HOLDING RANGE
FROM Ø 2.8 X □ 1.8 mm
TO Ø 5.0 X □ 4.0 mm

ONLY EXPANSION 7 mm

ERT 20 COLLET



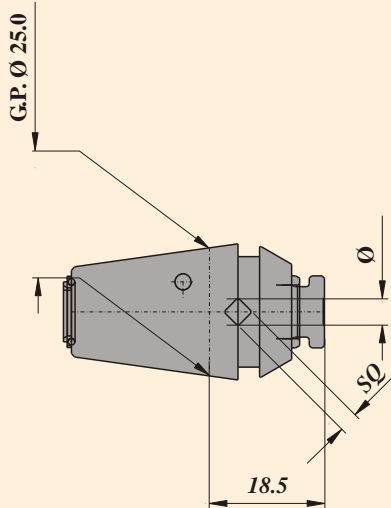
FOR ERT 20 COLLET CHUCKS

HOLDING RANGE
FROM Ø 2.8 X □ 1.8 mm
TO Ø 7.1 X □ 5.6 mm

ONLY EXPANSION 7.5 mm

FOR TAP ADAPTOR DETAILS REFER PAGE NO. 13

ERT 25 COLLET

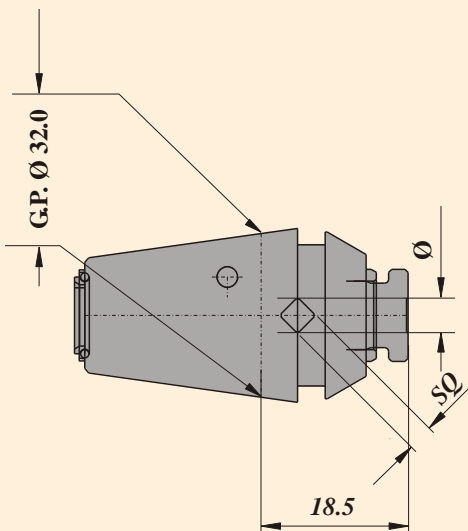


FOR ERT 25 COLLET CHUCKS

HOLDING RANGE
FROM Ø 2.8 X □ 1.8 mm
TO Ø 9.0 X □ 7.3 mm

ONLY EXPANSION 8 mm

ERT 32 COLLET

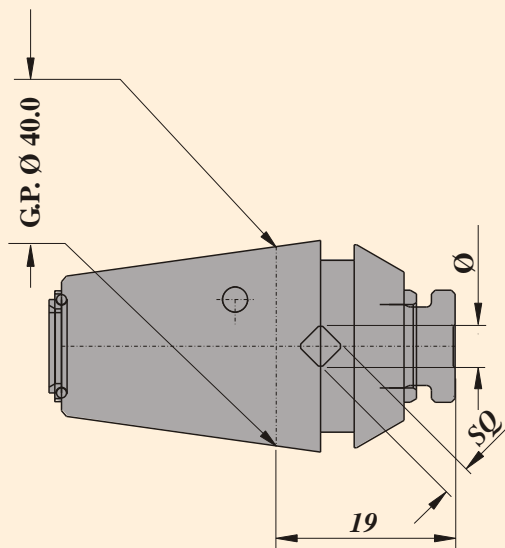


FOR ERT 32 COLLET CHUCKS

HOLDING RANGE
FROM Ø 2.8 X □ 1.8 mm
TO Ø 12.0 X □ 9.0 mm

ONLY EXPANSION 10 mm

ERT 40 COLLET



FOR ERT 40 COLLET CHUCKS

HOLDING RANGE
FROM Ø 2.8 X □ 1.8 mm
TO Ø 16.0 X □ 12.5 mm

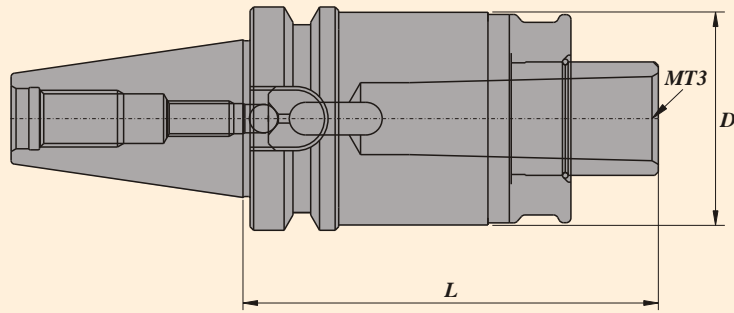
ONLY EXPANSION 12 mm

FOR TAP ADAPTOR DETAILS REFER PAGE NO. 13

BT FLOTING REMAR HOLDER

BT MAS 403

Taper Angle Class AT3



Collet Chuck Designation	L	D	Radial Parallel Float
BT 40 FRH / MT3	117	60	1.5
BT 50 FRH / MT3	86	60	1.5

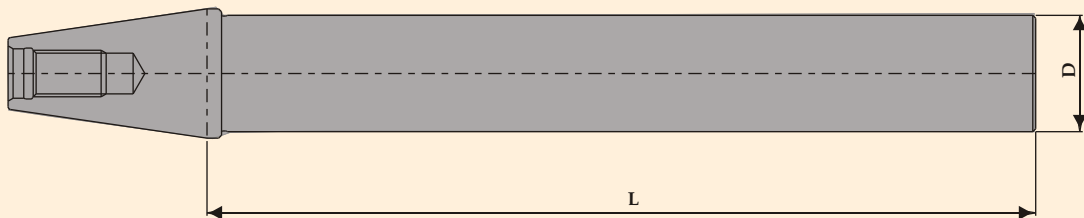
MASTER MANDREL

BT MAS 403

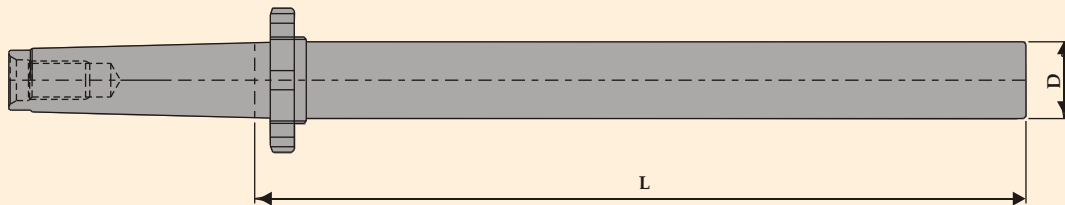
Taper Angle Class AT3

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



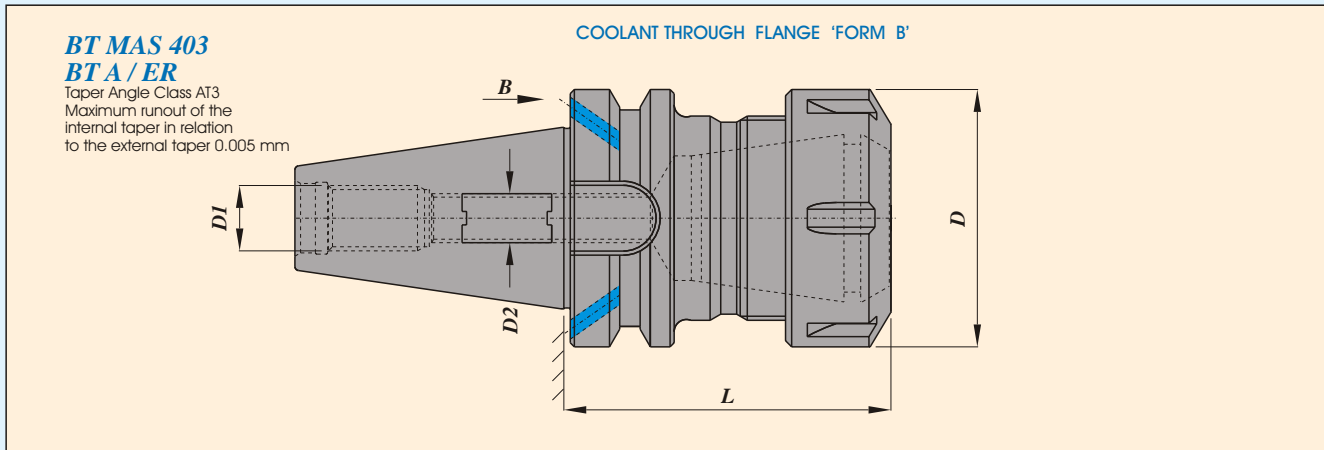
BT30 ØD 32 L=250
BT40 ØD 40 L=300
BT 50 ØD 50 L=350



MT2 ØD 24 L=150
MT4 ØD 40 L=300

MT3 ØD 32 L=200
MT5 ØD 40 L=300

ER COLLET CHUCK



Collet Chuck Designation	Suitable for Collet	Collet Clamping Capacity	L	D1	D2	Nut		Spanner Designation
						D	Designation	
BT 30 ER 16060ADB	ER 16	0.5 - 10	60	M 12	M 10	28	UM/ER 16	GS 25
BT 30 ER 16100ADB	ER 16	0.5 - 10	100	M 12	M 10	28	UM/ER 16	GS 25
BT 30 ER 20060ADB	ER 20	1.0 - 13	60	M 12	M 10	34	UM/ER 20	E 20
BT 30 ER 20100ADB	ER 20	1.0 - 13	100	M 12	M 10	34	UM/ER 20	E 20
BT 30 ER 25060ADB	ER 25	1.0 - 16	60	M 12	M 12	42	UM/ER 25	E 25
BT 30 ER 25100ADB	ER 25	1.0 - 16	100	M 12	M 12	42	UM/ER 25	E 25
BT 30 ER 32060ADB	ER 32	2.0 - 20	60	M 12	M 12	50	UM/ER 32	E 32
BT 30 ER 32100ADB	ER 32	2.0 - 20	100	M 12	M 12	50	UM/ER 32	E 32
BT 30 ER 40100ADB	ER 40	3.0 - 26	100	M 12	M 16	63	UM/ER 40	E 40
BT 40 ER 16060ADB	ER 16	0.5 - 10	60	M 16	M 10	28	UM/ER 16	GS 25
BT 40 ER 16100ADB	ER 16	0.5 - 10	100	M 16	M 10	28	UM/ER 16	GS 25
BT 40 ER 16160ADB	ER 16	0.5 - 10	160	M 16	M 10	28	UM/ER 16	GS 25
BT 40 ER 20060ADB	ER 20	1.0 - 13	60	M 16	M 10	34	UM/ER 20	E 20
BT 40 ER 20100ADB	ER 20	1.0 - 13	100	M 16	M 10	34	UM/ER 20	E 20
BT 40 ER 20160ADB	ER 20	1.0 - 13	160	M 16	M 10	34	UM/ER 20	E 20
BT 40 ER 25060ADB	ER 25	1.0 - 16	60	M 16	M 12	42	UM/ER 25	E 25
BT 40 ER 25100ADB	ER 25	1.0 - 16	100	M 16	M 12	42	UM/ER 25	E 25
BT 40 ER 25160ADB	ER 25	1.0 - 16	160	M 16	M 12	42	UM/ER 25	E 25
BT 40 ER 32070ADB	ER 32	2.0 - 20	70	M 16	M 12	50	UM/ER 32	E 32
BT 40 ER 32100ADB	ER 32	2.0 - 20	100	M 16	M 12	50	UM/ER 32	E 32
BT 40 ER 32160ADB	ER 32	2.0 - 20	160	M 16	M 12	50	UM/ER 32	E 32
BT 40 ER 40080ADB	ER 40	3.0 - 26	80	M 16	M 16	63	UM/ER 40	E 40
BT 40 ER 40100ADB	ER 40	3.0 - 26	100	M 16	M 16	63	UM/ER 40	E 40
BT 40 ER 40160ADB	ER 40	3.0 - 26	160	M 16	M 16	63	UM/ER 40	E 40
BT 50 ER 25065ADB	ER 25	1.0 - 16	65	M 24	M 12	42	UM/ER 25	E 25
BT 50 ER 25100ADB	ER 25	1.0 - 16	100	M 24	M 12	42	UM/ER 25	E 25
BT 50 ER 25160ADB	ER 25	1.0 - 16	160	M 24	M 12	42	UM/ER 25	E 25
BT 50 ER 32070ADB	ER 32	2.0 - 20	70	M 24	M 12	50	UM/ER 32	E 32
BT 50 ER 32100ADB	ER 32	2.0 - 20	100	M 24	M 12	50	UM/ER 32	E 32
BT 50 ER 32160ADB	ER 32	2.0 - 20	160	M 24	M 12	50	UM/ER 32	E 32
BT 50 ER 40080ADB	ER 40	3.0 - 26	80	M 24	M 16	63	UM/ER 40	E 40
BT 50 ER 40100ADB	ER 40	3.0 - 20	100	M 24	M 16	63	UM/ER 40	E 40
BT 50 ER 40160ADB	ER 40	3.0 - 20	160	M 24	M 16	63	UM/ER 40	E 40
BT 50 ER 50100ADB	ER 50	10.0 - 34	100	M 24	M 16	78	UM/ER 50	E 50
BT 50 ER 50160ADB	ER 50	10.0 - 34	160	M 24	M 16	78	UM/ER 50	E 50

Ordering Example :-
KTA BT 40 ER 16060 ADB / Qty.- 2 Nos.

For Ball Bearing Nut (KM/ER)
refer page no. 55 ,56.