

TOOLTECH™

**'A GRADE'
MACHINE TOOL ACCESSORIES**

Centre of Attention



Product Catalogue



Revolving Centre
STD, HD, Extra HD, Jumbo HD
Range : M.T.-1 to 6



Revolving Centre
Carbide Tipped Point
Range : M.T.-1 to 6



CNC H.S. Revolving Centre
Copy Turning Centres (M.T.-3,4)
Range : M.T.-3,4,5



CNC Centre
91 Model Heavy Duty, with interchangeable point
Range : M.T.-3,4,5



Pipe Centre Tube Centre
Capacity : Blunt : 25-50 to 100-250mm
Pointed : 0-2" to 0-5"



Dead Centre
Plain / Carbide Tipped
Range : M.T.-1 to 6



Drill Sleeve
Range : M.T.-1-1 to 5-6



Extension Socket
Range : M.T.-1-1 to 5-5



Quick Change Chuck & Collet
Range : M.T.-2 to 5



Turret Socket
Range : M.T.-1 -4
3/4" to 2 1/2"



Tool Post Grinder
External with Internal Grinding Attachment
Range : 4" to 10"



Split Sleeves
Tap, Drill, Centre Drill
Range : M.T.-1,2,3



Drill Chuck Arbour
Range : M.T. - 1 to 5



Stub Milling Arbour
ISO - 30, 40, 50
Range : 16, 22, 27, 32, 40 mm



Stub Milling Arbour
M1TR / R8
Range : 16, 22, 27, 32, 40 mm



Stub Arbour
Morse Taper
Range : M.T.-3,4,5



Collet Adaptor
Type M1TR/R8 For 'E-40' - Sch/Tail
Range : M1TR/R8, M12x1.5



Milling Reduction Socket
ISO - 30, 40, 50
Range : M.T.-1, 2, 3, 4, 5



Drill Chuck Arbour
ISO - 30, 40
Range : J.T. - 2, 3, 6



Collet Adaptor
For 'E-40' - Sch/Tail
Range : ISO - 30, 40, 50



Collet Adaptor
For 'E-40' - Sch/Tail
Range : M.T. - 2, 3, 4, 5



Collet (Traub-Round, Hex, Square)
A-25
Range : 6 to 25 mm, 1/4" to 1"



Collet (Schaublin)
E-40
Range : 3 to 25 mm, 1/4" to 1"



Collet (Tail)
E-40
Range : 3 to 25 mm, 1/4" to 1"

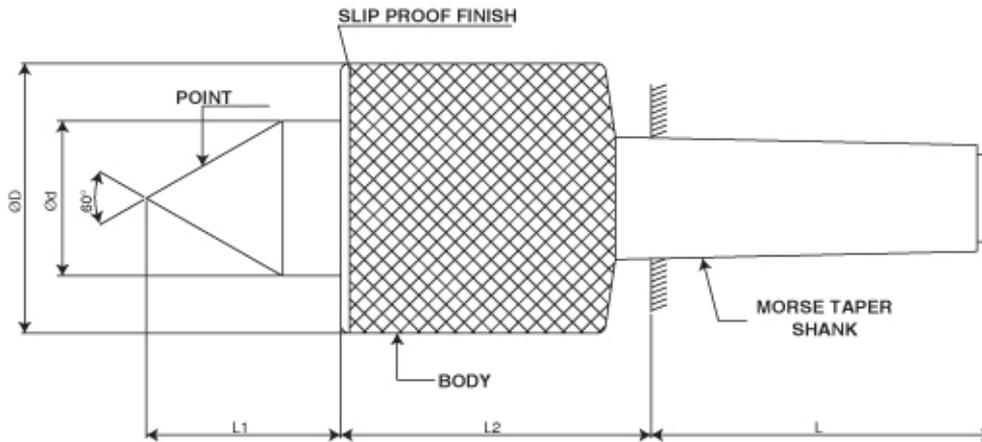
TOOLTECH Tool Post Grinders are specially suited for use on Lathe for cylindrical internal and external grinding. Other Operation like; radius grinding, face grinding, surface grinding and many more such operations could be performed economically by developing proper set-ups and mountings on lathe, Shapers and Planer Machines.

The spindle is made of alloy steel, hardened and precision ground. The Spindle is supported on four Precision Angular Contact Bearings to take radial and axial loads.

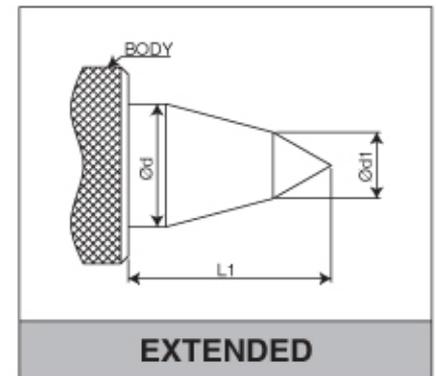
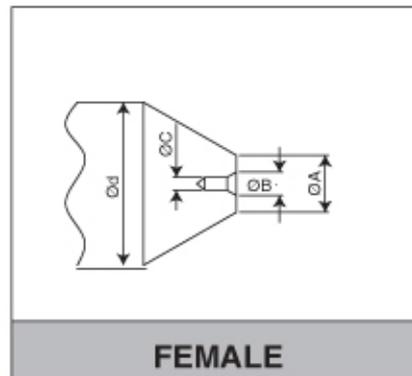
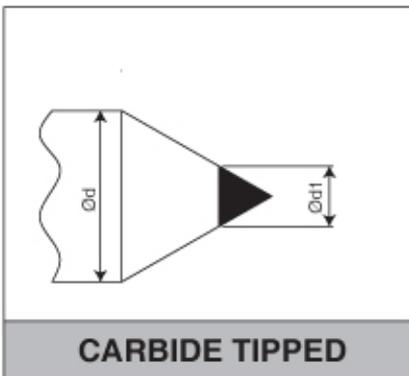
TOOLTECH Tool post Grinders are delivered complete with sturdy Guards, pulleys, Belts and Grinding Wheel for ready to use assembly.



SIZE	GRINDING WHEEL		MOTOR		SPINDLE SPEED RPM		HOU SING DIA. MM	INT. SPINDLE ARBOUR LENGTH	SPINDLE PULLEY DIA		MOTOR PULLEY DIA.	
	EXTERNAL	INTERNAL	HP	RPM	EXT.	INT.			EXT.	INT.	EXT.	INT.
6"	6"X3/4"X5/8" (1 1/4")	1 1/2 X 5/8" X 1/4"	1/2	2800	3000	16800	49.0	3 1/2" (MAX 5 1/2")	2"	1 1/4"	2 1/2"	7"
8"	8"X3/4"X3/4" (1 1/4")	1 1/2 X 5/8" X 1/4"	1	2800	2800	9700	59.5	4" (MAX 6")	2 1/2"	1 7/8"	2 1/2"	6"
10" Light Duty	10"X1"X3/4" (1 1/4")		1	2800	2800		59.5				2 1/2"	



- **TOOLTECH** offers India's largest range of live Centers to suit specific needs.
- All centers are provided with 'Coolant Sealing provision' to prevent entry of coolant and metal chips / swarf into Bearing assembly.
- Each live Center is provided with an inspection report covering all critical parameters like run out, correctness of morse Taper shank angle etc. (On Demand)
- Max. run out 0.015mm. lower run out provided against request.
- Body made from Alloy Steel case hardened and tempered to a hardness of 32-40 HRc. approx.
- Point made from Bearing Steel and hardened to 60 HRc. approx. for maximum wear resistance.
- Live Center broadly conform to IS 3793-1966.
- **Depending upon the load carrying capacity various models available are as under:**
- **Standard Three Bearings** : Recommended for all general purpose applications. Max. 1000 rpm.
- **Heavy Duty** : Four Bearing recommended for all heavy duty applications. Max 750 rpm.
- **Extra Heavy Duty** : Five Bearing recommended for all extra heavy duty applications Max 600rpm.
- **Jumbo Heavy Duty** : Heaviest design. Max 400 rpm. For roll turning, turning big shaft & axle.



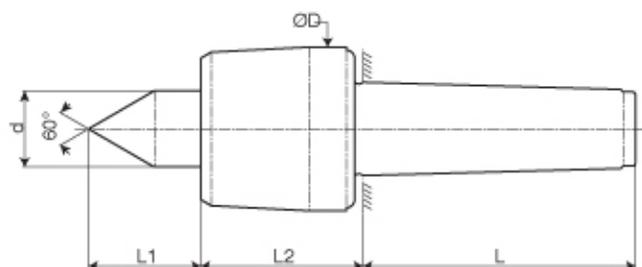
LIVE CENTER TECHNICAL SPECIFICATION							RATED LOAD AT. 100 rpm. - kg.	
MT No.	MODEL	Ød mm	ØD mm	L1 mm	L2 mm	L mm	AXIAL	RADIAL
							MT-1	STANDARD (3 BEARING)
MT-2	STANDARD (3 BEARING)	25.0	51.0	30	59.0	64.0	300	200
MT-3	STANDARD (3 BEARING)	29.0	61.0	35	70.0	81.0	600	400
MT-3	HEAVY DUTY (FOUR BEARING)	29.0	63.0	36	68.0	81.0	850	600
MT-4	STANDARD (3 BEARING)	32.0	63.0	38	74.5	102.5	800	600
MT-4	HEAVY DUTY (FOUR BEARING)	33.0	70.0	49	81.0	102.5	1200	850
MT-5	STANDARD (3 BEARING)	38.0	68.0	42	75.0	129.5	1100	850
MT-5	HEAVY DUTY (FOUR BEARING)	38.0	70.0	51	80.0	129.5	1700	1250
MT-5	EXTRA HEAVY DUTY	55.0	95.0	56	91.0	129.5	1900	1300
MT-6	STANDARD (3 BEARING)	55.0	100.0	56	91.0	182.0	2100	1500
MT-6	HEAVY DUTY	60.0	125.0	82	125.0	182.0	4000	2750
MT-6	EXTRA HEAVY DUTY	75.0	145.0	95	146.0	182.0	10000	4500
MT-6	JUMBO HEAVY DUTY	83.0	180.0	71	174.0	182.0	12500	5000

FEMALE HOLE SPECIFICATIONS

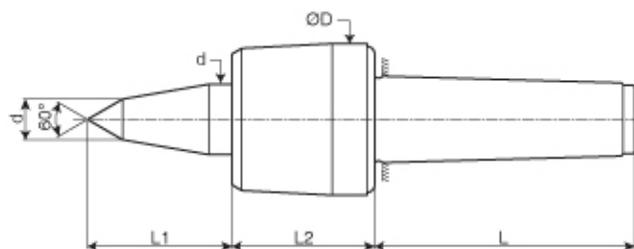
M.T. No.	Ød	ØA	CENTER DRILL		
			No.	ØB	ØC
1	18	5.5	BS-1	2.5	3/64"
2	23	8.0	BS-2	4	1/16"
3	26	9.0	BS-3	5	3/32"
4	30	11.0	BS-3	6	3/32"
5	34	14.0	BS-4	8	1/8"
6	50	17.0	BS-5	11	3/16"

EXTENDED & C.T. POINT SPECIFICATIONS

M.T. No.	1	2	3	4	5	6
Ød	18	23	26	30	34	50
Ød1	5	8	11	14	18	18
L1	39	45	48	52	57	86



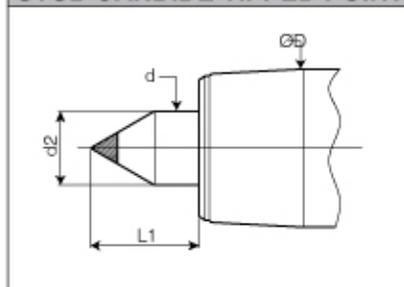
STUB POINT



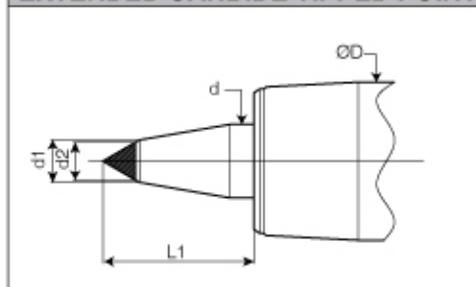
EXTENDED POINT

- Capable of withstanding very high rpm at high loads.
- Suitable for CNC and other high speed turning centers.
- Bearing used are of JAPAN / GARMANY make.
- Bearing lubricated for life using imported KLUBER make ISOFLEX NBU-15 Grease.
- Seals used for protecting Bearing from dirt and coolant.
- Copy Turning centers are not recommended and should be used only for medium speed and very low load applications.
- For higher speeds than specified special centers can be supplied on request.
- STUB POINTS ARE PROVIDED AS STANDARD FOR CNC CENTERS. Extended point can be provided on request at the same price. (Other special point shape available at 10% extra cost.)

STUB CARBIDE TIPPED POINT

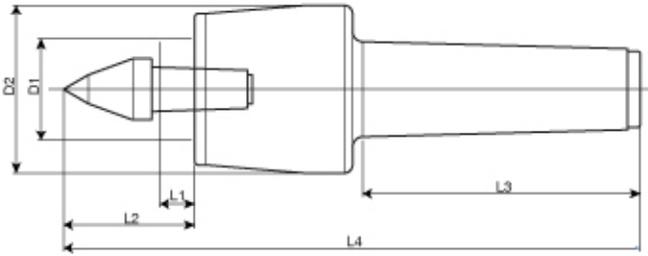


EXTENDED CARBIDE TIPPED POINT



LIVE CENTER TECHNICAL SPECIFICATION

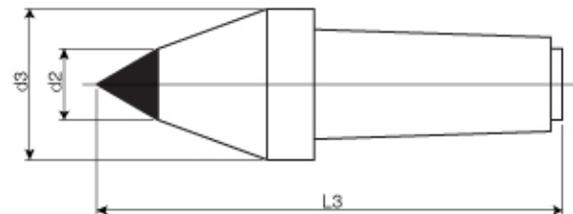
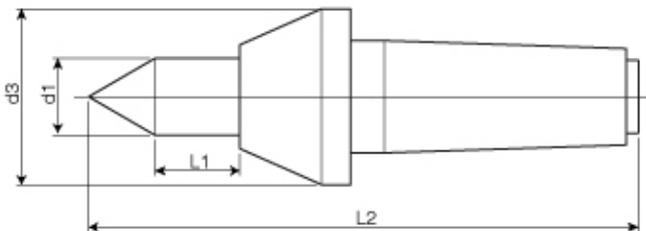
M.T. N.o.	MODEL	Ød1 mm	Ød2 mm	Ød mm	ØD mm	L1 mm	L2 mm	L mm	Max. Speed
MT-3	Copy Turning Extended	11	-	26	62	47	70.5	81.0	2200
MT-4	Copy Turning Extended	14	-	32	65	54	75.5	102.5	2000
MT-3	CNC Heavy Duty : Stub Point	-	-	28	58	34	60.5	81.0	4500
MT-3	CNC Heavy Duty : Stub C.T.point	-	11	28	58	34	60.5	81.0	4500
MT-3	CNC Heavy Duty : Extended point	12	-	28	58	47	60.5	81.0	4500
MT-4	CNC Heavy Duty : Stub point	-	-	32	68	41	63.5	102.5	3250
MT-4	CNC Heavy Duty : Stub C.T.point	-	14	32	68	41	63.5	102.5	3250
MT-4	CNC Heavy Duty : Extended point	14	-	32	68	53	63.5	102.5	3250
MT-4	CNC Heavy Duty : Extended C.T.point	17	14	32	68	53	63.5	102.5	3250
MT-5	CNC Heavy Duty : Stub point	-	-	38	76	54	72.0	135.0	3000
MT-5	CNC Heavy Duty : Extended point	19	-	38	76	63	72.0	135.0	3000



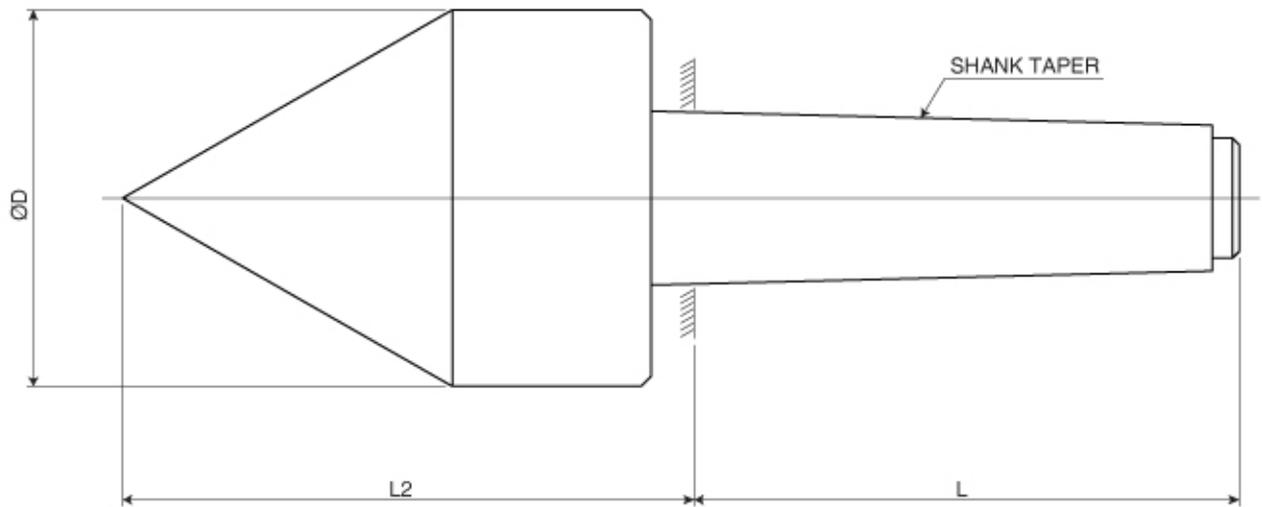
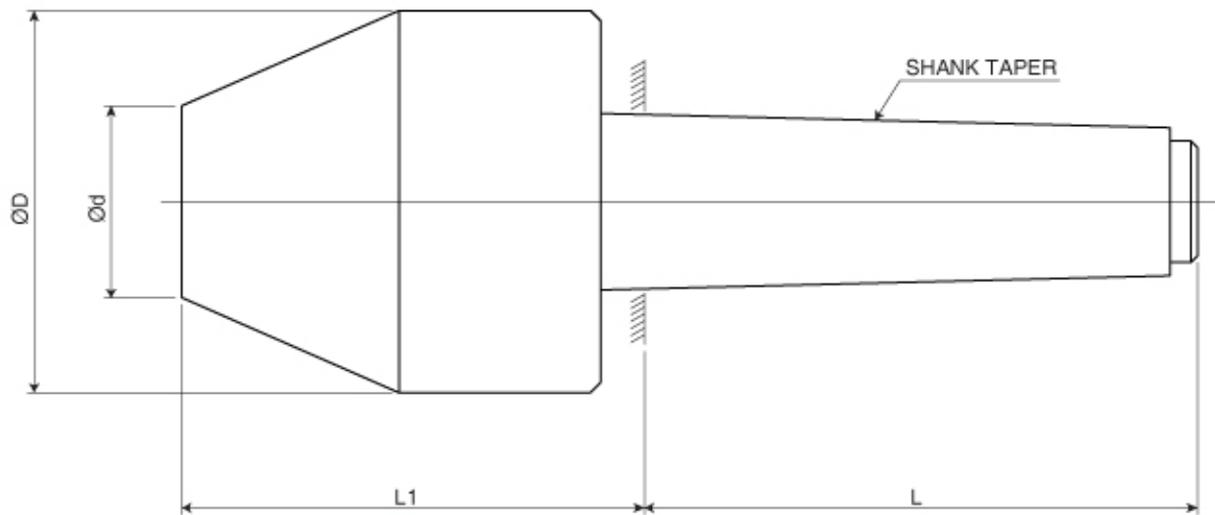
	D1	D2	L1	L2	L3	L4
MT-3	25	60	60	44	86	188
MT-4	29	68	14	53	109	220
MT-5	29	70	14	53	136	246



- Ideal for cost saving and rapid multi operations.
- Only you need to change point inserts for different requirements instead of entire Center.
- Faster operations without compromising machining quality.
- Capable of withstanding very high rpm at high loads like other conventional Centers.
- Suitable for high speed turning centers.
- Bearing used are of JAPAN / GARMANY make.
- Bearing lubricated for life using imported KLUBER make ISOFLEX NBU-15 Grease.
- Seals used for protecting Bearing from dirt and coolant.
- For higher speeds than specified special Interchangeable centers can be supplied on request.
- **STUB POINTS ARE PROVIDED AS STANDARD FOR CNC CENTERS.** Extended point can be provided on request at the same price. (Other special point shape available at 10% extra cost.)



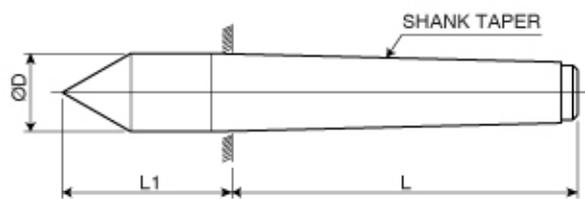
	d1	d2	d3	L1	L2	L3
MT-3 STD	9	-	-	6	59	-
MT-3 C.T.	-	8	22	-	-	59
MT-4 STD	11	-	26	8	77	-
MT-4 C.T.	-	11	26	-	-	79
MT-5 STD	11	-	28	8	77	-
MT-5 C.T.	-	11	28	-	-	79



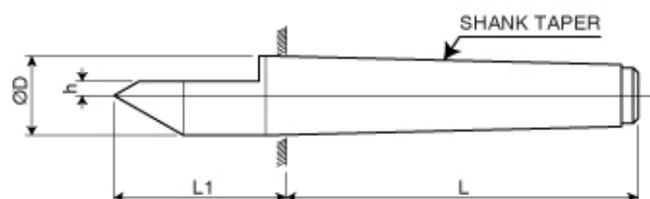
- Body made from Alloy Steel and hardened to 55-58 HRC, shank made of Alloy Steel and toughened.
- Application : In turning, grinding of pipes and tubes which cannot be held by ordinary centers because of small point diameters of live centers.
- Precision ground max radial meters 0.015 mm.
- Max speed : 700 rpm high speed pipe centers available on request.
- 60° angle as 2 basic types : Blunt & pointed.
- Dead pipe centers for grinding application (recommended) made on special order.

	SIZE		Ød mm	ØD mm	Lmm	L1mm	L2mm
	BLUNT	POINTED					
MT - 2	25 - 50	0 - 2"	25	55	64.0	66.0	89
MT - 2	30 - 65	0 - 2 1/2"	30	65	64.0	67.0	90
MT - 2	40 - 75	0 - 3"	40	77	64.0	70.0	102
MT - 3	25 - 50	0 - 2"	25	55	81.0	66.0	89
MT - 3	30 - 65	0 - 2 1/2"	30	65	81.0	67.0	90
MT - 3	40 - 75	0 - 3"	40	77	87.0	70.0	102
MT - 3	50 - 90	0 - 3 1/2"	50	90	81.0	70.5	112
MT - 3	65 - 100	0 - 4"	65	105	81.0	72.0	112
MT - 3	75 - 125	0 - 5"	75	127	81.0	97.0	169
MT - 4	25 - 50	0 - 2"	25	55	102.5	69.5	92.5
MT - 4	30 - 65	0 - 2 1/2"	30	65	102.5	70.5	93.5
MT - 4	40 - 75	0 - 3"	40	77	102.5	71.5	103.5
MT - 4	50 - 90	0 - 3 1/2"	50	90	102.5	72.0	113.5
MT - 4	65 - 100	0 - 4"	65	105	102.5	73.5	113.5
MT - 4	75 - 100	0 - 5"	75	127	102.5	91.5	156.5
MT - 4	75 - 150	-	75	153	102.5	91.5	-
MT - 4	100 - 175	-	100	178	102.5	120.5	-
MT - 4	100 - 200	-	100	204	102.5	123.5	-
MT - 5	25 - 50	0 - 2"	25	55	129.5	70.5	93.5
MT - 5	30 - 65	0 2 1/2"	30	65	129.5	71.5	94.5
MT - 5	40 - 75	0 - 3"	40	77	129.5	74.5	106.5
MT - 5	50 - 90	0 - 3 1/2"	50	90	129.5	75.0	116.5
MT - 5	65 - 100	0 - 4"	65	105	129.5	76.5	116.5
MT - 5	75 - 125	0 - 5"	75	127	129.5	94.5	159.5
MT - 5	75 - 150	-	75	153	129.5	94.5	-
MT - 5	100 - 175	-	100	178	129.5	121.0	-
MT - 5	100 - 200	-	100	204	129.5	124.0	-
MT - 5	100 - 250	-	100	231	129.5	146.0	-
MT - 6	65 - 100	0 - 4"	65	105	182.0	85.0	125
MT - 6	75 - 125	0 - 5"	75	127	182.0	103.0	168
MT - 6	100 - 175	-	75	153	182.0	103.0	-
MT - 6	100 - 175	-	100	178	182.0	116.0	-
MT - 6	100 - 200	-	100	204	182.0	119.0	-
MT - 6	100 - 250	-	100	231	182.0	141.0	-

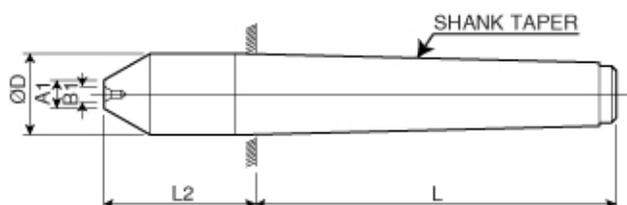
FULL (MALE)



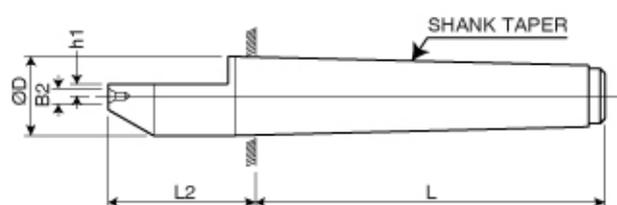
HALF (MALE)



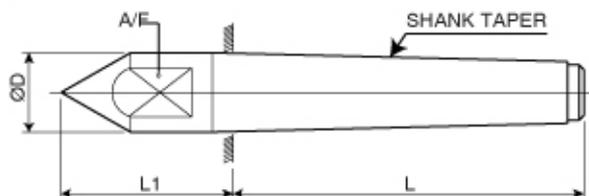
FULL (FEMALE)



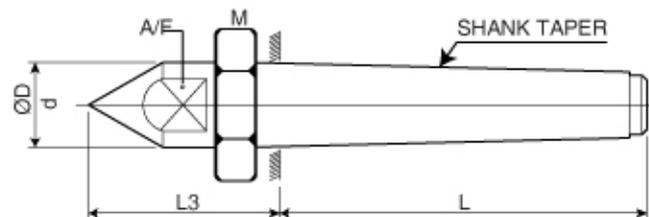
HALF (FEMALE)



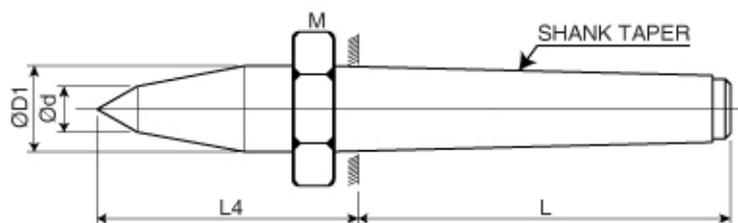
FULL (MALE WITH SPANNER FLAT)



FULL (MALE WITH DRAW OFF NUT)
(FEMALE DEAD CENTRE WITH DRAW OFF NUT AGAINST REQUEST)



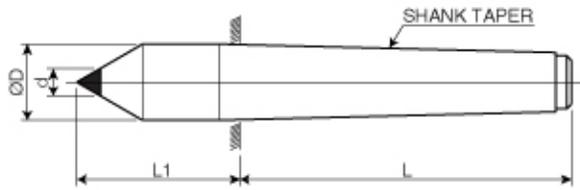
CNC DEAD CENTER FULL (MALE WITH DRAW OFF NUT)



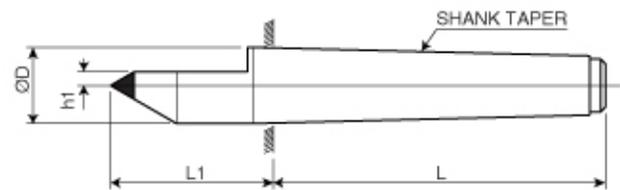
- Made from Bearing Steel EN-31 and thoroughly hardened to 58-60 HRc.
- Broadly confirms to is:2289-1976 (Equivalent to din:806-1961/iso:298)
- Precision ground tip run out within 0.015 mm W.R.T. Taper
- Standard point angle 60 (other angle like 75/90 etc. on request)
- TOOLTECH service & guarantee apply.

SHANK TAPER	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6
L mm	53.5	64.0	84.0	102.5	129.5	182.0
L1 mm	26.5	36.0	44.0	57.5	70.5	88.0
L2 mm	21.5	29.0	36.0	48.0	58.5	73.0
L3 mm	36.5	48.0	57.0	72.5	87.5	108.0
L4 mm	-	-	70.0	83.5	90.0	-
Ø D mm	12.2	18.0	24.1	31.6	44.7	63.8
Ø D1 mm	-	-	24.1	31.6	40.0	-
Ø d mm	-	-	11.0	14.0	18.0	-
h mm	2.0	2.6	3.450	5.2	11.650	10.1
h1 mm	-	3.0	4.0	5.0	5.5	-
A1 mm	5.5	8.0	9.0	11.0	14.0	17.0
B1 mm	2.5	4.0	5.0	6.0	8.0	11.0
B2 mm	-	2.5	3.0	4.0	5.0	-
A/F mm	10.0	14.0	19.0	27.0	36.0	55.0
M (THREAD)	16 x 1.5	22 x 1.5	27 x 1.5	36 x 1.5	48 x 1.5	68 x 1.5

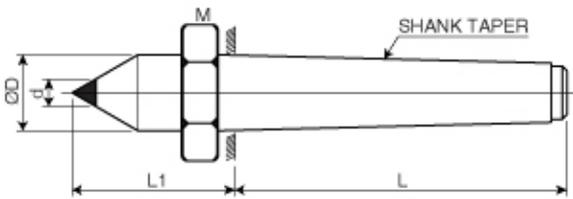
CARBIDE FULL



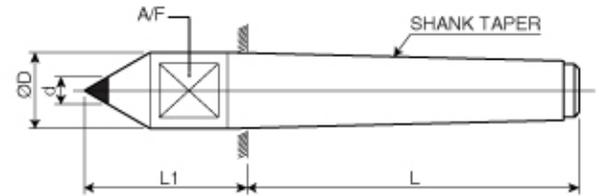
CARBIDE HALF



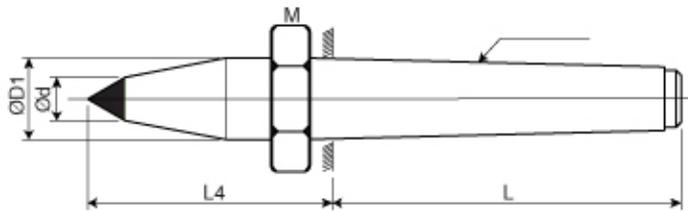
CARBIDE FULL WITH DRAW OFF NUT



CARBIDE FULL WITH SPANNER FLAT



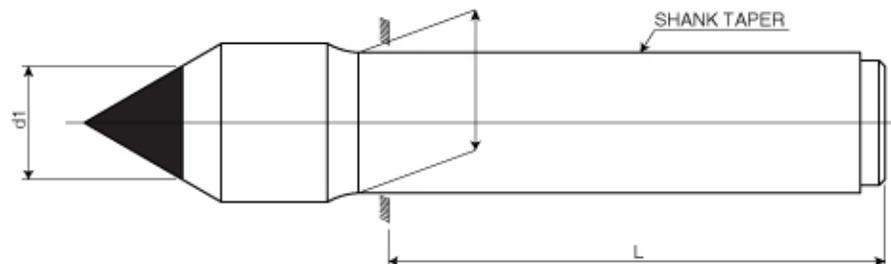
CNC DEAD CENTER : FULL (MALE WITH DRAW OFF NUT)



WITH FULL 60° ANGLE AS CARBIDE



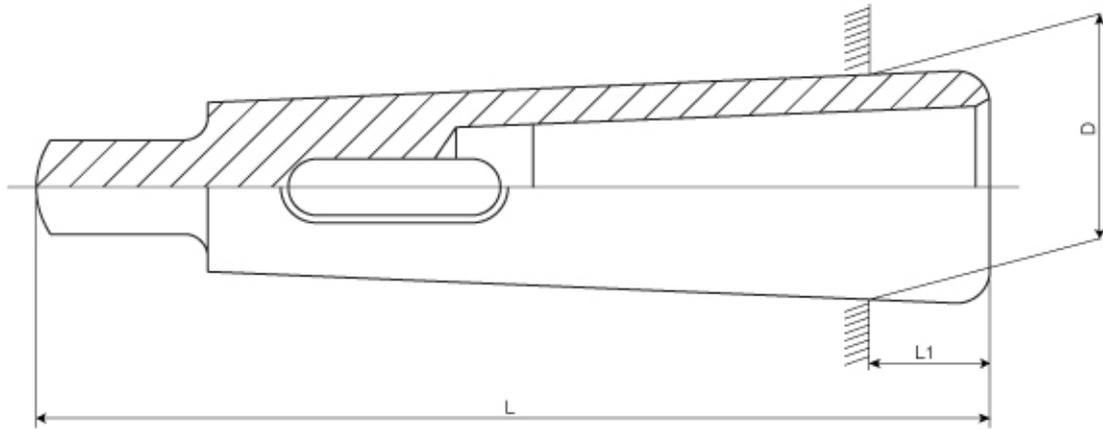
SPECIAL DEAD CENTRE WITH EXTRA LARGE TIP



- Tungsten Carbide tips brazed in front for higher wear resistance.
- Shank made of Alloy Steel appropriately toughened.
- Precision ground. Tip run out within 0.015 mm. W.R.T. Taper.
- Standard point angle 60 (other point angles like 90/75 on request)
- Broadly conform to is: 2534-1963 (Equivalent to din: 806-807)
- **TOOLTECH** service & guarantee apply.

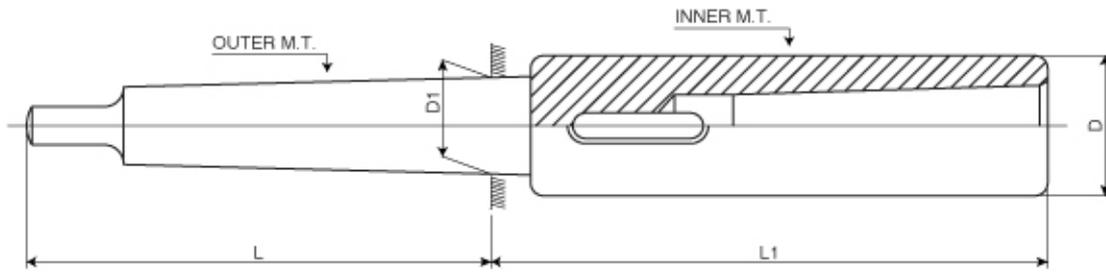
SHANK TAPER	MT-1	MT-2	MT-3	MT-4	MT-5	MT-6
L mm	53.5	64.0	81.0	102.5	129.5	182.0
L1 mm	26.5	36.0	44.0	57.5	70.5	88.0
L2 mm	36.5	48.0	57.0	72.5	87.5	108.0
L4 mm	-	-	70.0	83.5	90.0	-
Ø D mm	12.2	18.0	24.1	31.6	44.7	63.8
Ø D1mm	-	-	24.1	31.6	40.0	-
Ø d mm	AD-5	AD-8	AD-11	AD-14	AD-18	AD-18
Ø d1 mm	-	-	AD-14, 18, 22, 25, 28, 30, 32, 40	AD-18, 22 25, 28, 30, 32, 40	AD-22, 25, 28, 30, 32, 40, 45, 49, 52	AD-22, 25, 28 30, 32, 40, 45, 49, 52
h1 mm	3.15	5.6	7.0	8.7	10.7	11.1
A/F mm	10.0	14.0	19.0	27.0	36.0	55.0
M (THREAD)	16 x 1.5	22 x 1.5	27 x 1.5	36 x 1.5	48 x 1.5	68 x 1.5

- Designate dead center with large & extra large Carbide tips with their respective tips diameters.
Eg. Dead center mt-3 Carbide tipped 18mm



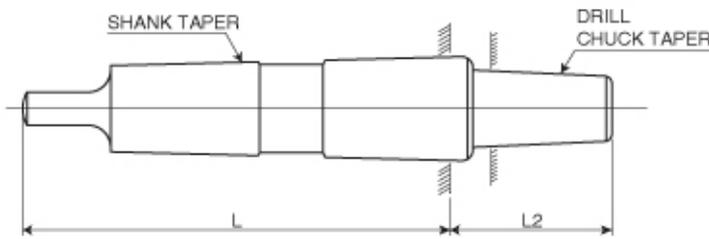
- Made from 16mnCr5, case hardened to 55-58 HRc.
- As per IS : 6702 - 1972 (Equivalent to Din : 2185-1972 & ISO : 238-1974)
- Precision ground externally & internally.
- Concentricity within .015 mm.
- TOOLTECH service & guarantee apply.

MODEL No.	INNER M.T.	OUTER M.T.	L	L1	D	WEIGHT KG.
MT0 - 1	0	1	80	14.0	12.065	0.040
MT1 - 2	1	2	91	17.0	17.780	0.100
MT1 - 3	1	3	98	5.0	23.825	0.215
MT1 - 4	1	4	123	6.5	31.267	0.515
MT1 - 5	1	5	155	6.5	44.399	1.460
MT1 - 6	1	6	217	8.0	63.348	4.600
MT2 - 3	2	3	111	18.0	23.825	0.185
MT2 - 4	2	4	123	6.5	31.267	0.445
MT2 - 5	2	5	155	6.5	44.399	1.410
MT2 - 6	2	6	217	8.0	63.348	4.700
MT3 - 4	3	4	137	22.5	31.267	0.380
MT3 - 5	3	5	155	6.5	44.399	1.230
MT3 - 6	3	6	217	8.0	63.348	4.400
MT4 - 5	4	5	170	21.5	44.399	1.100
MT4 - 6	4	6	217	8.0	63.348	4.000
MT5 - 6	5	6	217	8.0	63.348	3.100



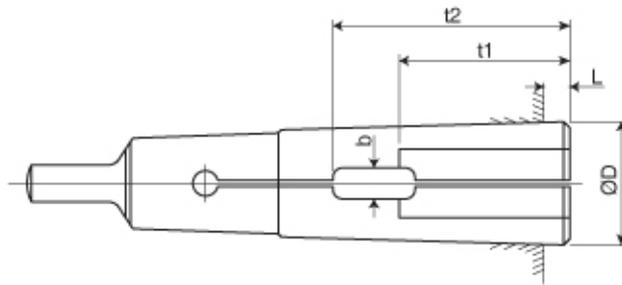
- Made from 16mnCr5, case hardened to 55-58 HRc.
- As per IS : 6682 - 1972 (Equivalent to Din : 2187 & ISO : 1080/1969)
- Precision ground externally & internally.
- Concentricity within .015 mm.
- TOOLTECH service & guarantee apply.

MODEL No.	OUTER M.T.	INNER M.T.	$\varnothing D$ mm	$\varnothing D1$ mm	L mm	L1 mm	WEIGHT Kg.
1-1	1	1	20	12.065	62.0	83.0	0.225
1-2	1	2	30	12.065	62.0	98.0	0.460
2-1	2	1	20	17.780	75.0	85.0	0.310
2-2	2	2	30	17.780	75.0	100.0	0.535
2-3	2	3	36	17.780	75.0	121.0	0.800
3-1	3	1	20	23.825	96.0	79.0	0.475
3-2	3	2	30	23.825	94.0	100.0	0.740
3-3	3	3	36	23.825	94.0	121.0	0.985
3-4	3	4	48	23.825	94.0	146.0	1.690
4-1	4	1	20	31.267	117.5	82.5	0.805
4-2	4	2	30	31.267	117.5	97.5	1.060
4-3	4	3	36	31.267	117.5	122.5	1.315
4-4	4	4	48	31.267	117.5	147.5	2.095
4-5	4	5	63	31.267	117.5	182.5	3.500
5-1	5	1	20	44.399	149.5	82.5	1.800
5-2	5	2	30	44.399	149.5	97.5	1.990
5-3	5	3	36	44.399	149.5	118.5	2.275
5-4	5	4	48	44.399	149.5	150.5	3.300
5-5	5	5	63	44.399	149.5	185.5	4.800
5-6	5	6	83	44.399	149.5	247.5	8.100
6-2	6	2	30	63.348	210.0	99.0	5.200
6-3	6	3	36	63.348	210.0	120.0	6.000
6-4	6	4	48	63.348	210.0	145.0	6.300
6-5	6	5	61	63.348	210.0	180.0	7.500



MODEL No.	SHANK TAPER	DRILL CHUCK TAPER	L	L1	L2	WEIGHT Kg.
1/4" (J)	MT - 1	JT - 1	62.0	24.0	16.67	0.062
3/8" (J)	MT - 1	JT - 2	62.0	33.0	22.22	0.085
1/2" (J)	MT - 1	JT - 6	62.0	32.0	24.50	0.095
1/4" (J)	MT - 2	JT - 1	75.0	25.0	16.67	0.155
3/8" (J)	MT - 2	JT - 2	75.0	34.0	22.22	0.155
1/2" (J)	MT - 2	JT - 6	75.0	33.0	24.50	0.210
3/4" (J)	MT - 2	JT - 3	75.0	41.0	30.96	0.210
1/2" (J)	MT - 3	JT - 6	94.0	33.0	24.50	0.317
3/4" (J)	MT - 3	JT - 3	94.0	41.0	30.96	0.360
1/2" (J)	MT - 4	JT - 6	117.5	34.5	24.50	0.635
3/4" (J)	MT - 4	JT - 3	117.5	42.5	30.96	0.680
1/2" (J)	MT - 5	JT - 6	149.5	34.5	24.50	1.645
3/4" (J)	MT - 5	JT - 3	149.5	42.5	30.96	1.690

- Made from 16MnCr5, case hardened to 55-58 HRC.
- As per IS : 9097 (i) - 1979
- Precision ground run out 0.015 mm max.
- TOOLTECH service & guarantee apply.



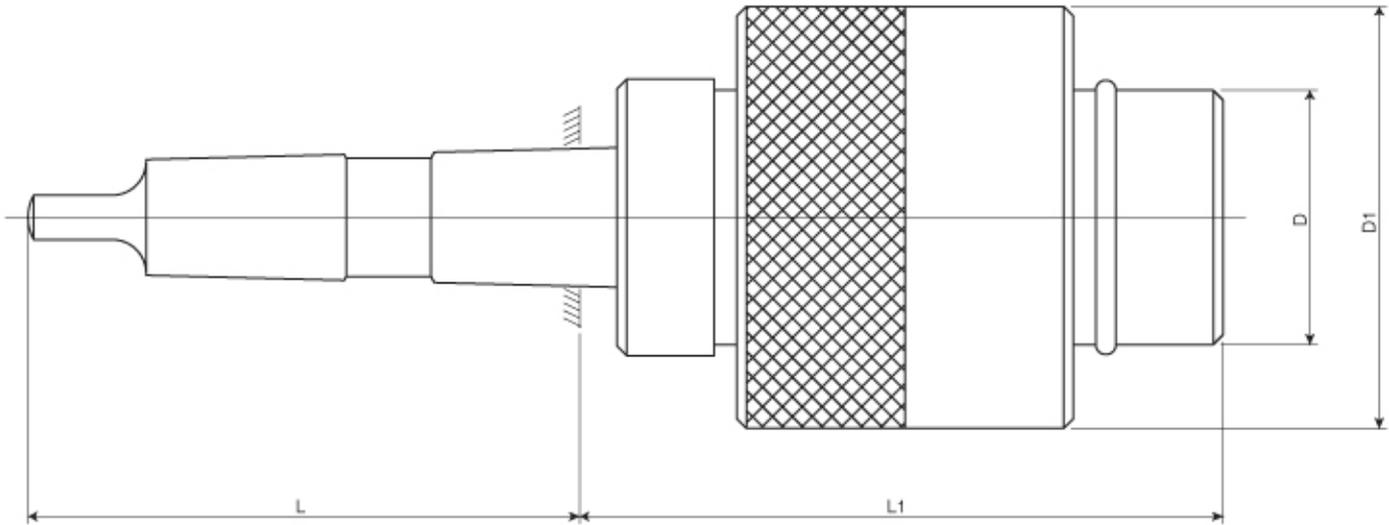
Model : Split Sleeves Drill (IS 10514)

ØD Range		MT-1			MT-2			MT-3		
above	upto	b	t1	t2	b	t1	t2	n	t1	t2
2.9	3.5	1.8	20	25						
3.5	4.0	2.2								
4.0	4.5	2.4			26					
4.5	5.5	2.7								
5.5	6.5	3.2	22	29	3.2	22	29			
6.5	8.0	3.8			3.8					
8.0	9.5				4.8	25	33	4.8	25	33
9.5	11.0				5.3	28	37	5.3	28	37
11.0	13.0				6.3		39	6.3		39
13	15.0							7.4		44
15	18							8.4	32	46
L			3.5			5			5	

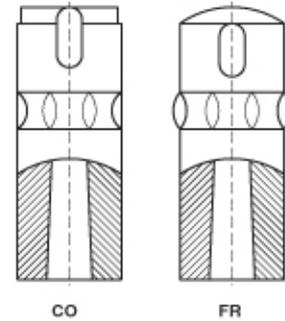
TOOLTECH Split Sleeves are suitable for taps as per IS-6175 (Part III) and can be used for inch & mm size taps, drill & central drill, also having shank and square of same size as the metric taps. Every piece is thoroughly inspected before it's dispatch.

Model : Split Sleeves TAP (IS 10571)

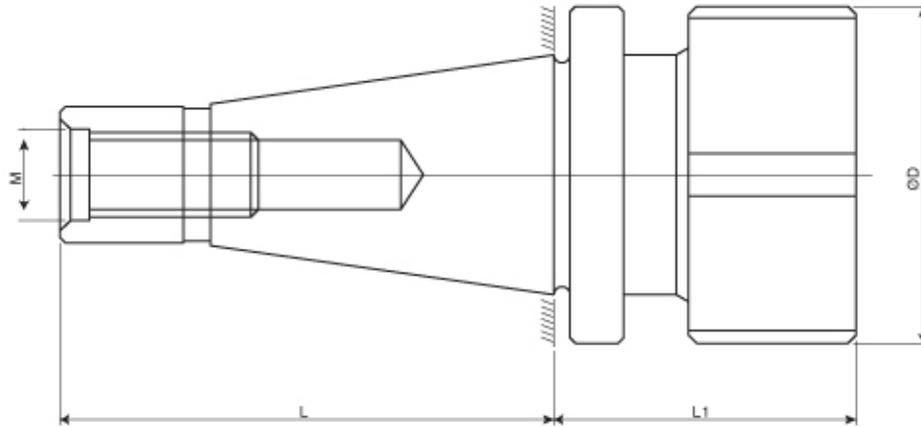
ØD Range		MT - 1			MT - 2			MT - 3			
above	upto	b	t1	t2	b	t1	t2	n	t1	t2	
3.0	3.35	2.6	18	22							
3.35	3.75	2.9									
3.75	4.25	3.3				24					
4.25	4.75	3.7	19	25							
4.75	5.30	4.2				4.7	19	25			
5.30	6.0	4.7				5.2	22	28			
6.00	6.7	5.2				5.8					
6.70	7.5	5.8	22	28	5.8	22	28				
7.60	8.5	6.5	23	30	6.5	23	30	6.5	23	30	
8.50	9.5				7.4	24	32	7.4	24	32	
9.50	10.6				8.3	23		8.3	23		
10.6	11.8				9.3	26	36	9.3	26	36	
11.8	13.2				10.3			10.3			
13.2	15.0							11.5	29	40	
15.0	17.0							12.8	32	45	
17.0	19.0							14.4	36	50	



- Made from 20MnCr.5, case hardened to 55-58 HRc.
- As per IS : 7824 - 1975
- Precision ground externally & internally.
- Concentricity within 0.015 mm.
- TOOLTECH service & guarantee apply.



MODEL No.	L mm	L1 mm	BORE SIZE mm	D mm	D1 mm	SUITABLE FOR COLLETS / FR	WEIGHT Kg.
Q.C.C. MT - 2	75.0	75.0	26.0	36.0	48.0	CO - 21, 22 FR - 21, 22	0.730
Q.C.C. MT - 3	94.0	86.0	34.0	46.0	61.0	CO - 31, 32, 33 FR - 31, 32, 33	1.400
Q.C.C. MT - 4	117.5	97.5	46.0	62.0	85.0	CO - 41, 42, 43, 44 FR - 41, 42, 43, 44	2.900
Q.C.C. MT - 5	149.5	122.5	60.0	80.0	104.0	CO - 51, 52, 53, 54, 55 FR - 51, 52, 53, 54, 55	9.100



- Made from 16MnCr5, case hardened to 55-58 HRc.
- Precision ground to an accuracy of 0.15 mm TIR.
- For best result : Always insist on TOOLTECH make Collets.
- Suitable for Tail & Schaublin and ER type Collets.

MODEL No.	SHANK TAPPER	SUITABLE FOR COLLET	L	L1	D	DRAW BOLT THREAD M
ISO - 30 E - 40	ISO - 30	E - 40	68.4	90	65	M - 12
ISO - 40 E - 40	ISO - 40	E - 40	93.4	55	65	M - 16
ISO - 50 E - 40	ISO - 50	E - 40	126.8	55	65	M - 24
ISO - 40 E - 45	ISO - 40	E - 45	93.4	70	71	M - 16
ISO - 50 E - 45	ISO - 50	E - 45	126.8	70	74	M - 24

COLLET CHUCKS
(Morse taper shank)

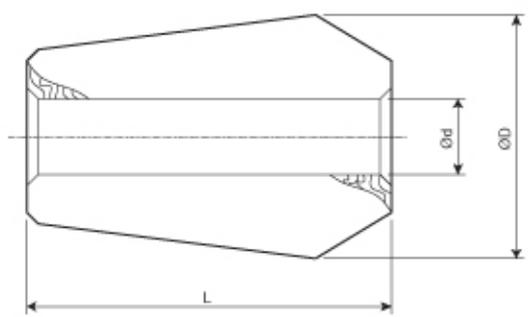


SUITABLE FOR COLLET
E-40 ER-40
MT-2 MT-3 MT-4 MT-5

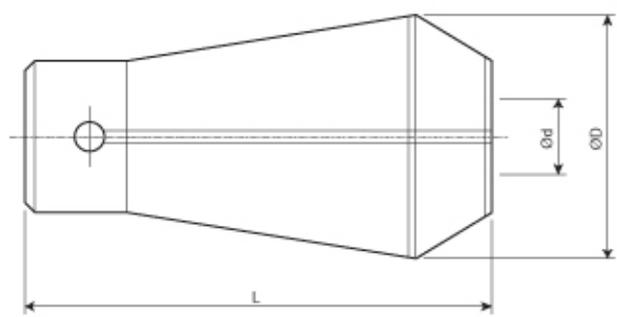
COLLET CHUCKS
(R8 shank)



SUITABLE FOR COLLET
E-40 ER-40



(SCHAUBLIN TYPE)



(TAIL TYPE)

- Made from best quality Spring Steel EN-47 and appropriately hardened.
- Collets are fragile, handle them with care.
- Collets falling from hand may lead to their breakage.
- Use correct bore size of Collet.

MODEL NO.	D	L	Bore Size D
E - 40 SCHAUBLIN	40	46	3 - 25 mm IN STEPS OF 1 mm 1/4" - 1" IN STEPS OF 1/16"
E - 40 TAIL	40	61	3 - 25 mm IN STEPS OF 1 mm 1/4" - 1" IN STEPS OF 1/16"

M1TR - R8 COLLETS

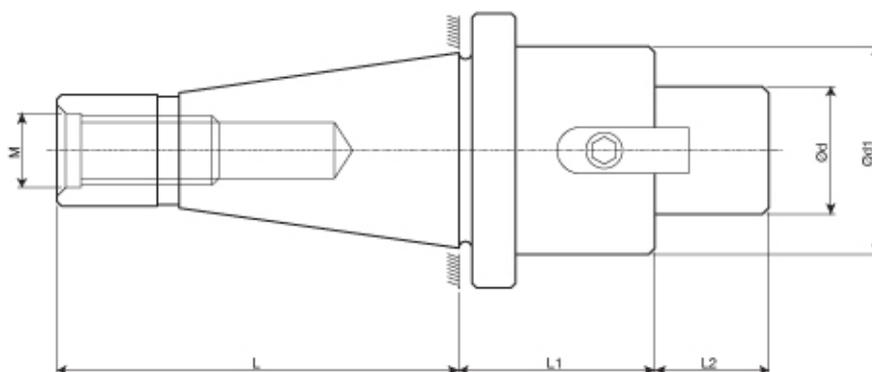
Range : 3 mm to 22 & 1/4" to 3/4"
MT-1 MT-2 MT-3

M1TR - R8 DRILL CHUCK ARBOR

Range : JT-1, JT-3, JT-6

M1TR - R8 REDUCTION SOCKET

Range : MT-1, MT-2, MT-3



- Precision ground to an accuracy of 0.15 mm TIR.
- Made from 16MnCr5 & case hardened to 55-58 HRc.
- Specifications confirm to IS : 8615 - 1977.

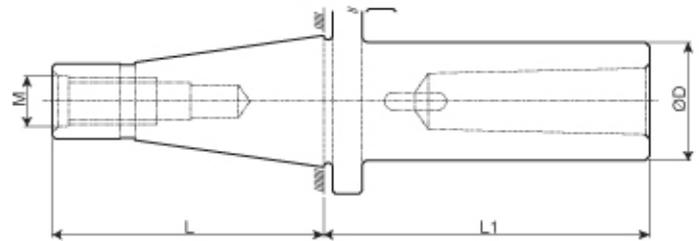
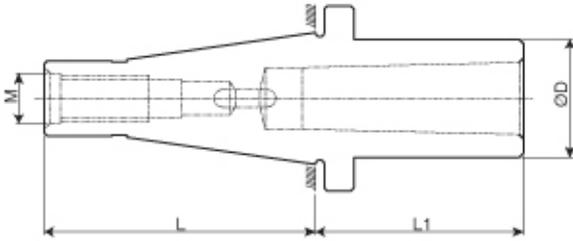
MODEL NO.	SHANK TAPPER	L	L1	L2	D h 6	D1	Draw Bolt M
ISO - 30 x 16 mm	ISO - 30	68.4	34.6	17	16	32	M12
ISO - 30 X 22 mm	ISO - 30	68.4	34.6	19	22	40	M12
ISO - 30 x 27 mm	ISO - 30	68.4	34.6	21	27	48	M12
ISO - 40 x 16 mm	ISO - 40	93.4	36.6	17	16	32	M16
ISO - 40 x 22 mm	ISO - 40	93.4	36.6	19	22	40	M16
ISO - 40 x 27 mm	ISO - 40	93.4	36.6	21	27	48	M16
ISO - 40 x 32 mm	ISO - 40	93.4	51.6	24	32	58	M16
ISO - 50 x 16 mm	ISO - 50	126.8	40.2	17	16	32	M24
ISO - 50 x 22 mm	ISO - 50	126.8	40.2	19	22	40	M24
ISO - 50 x 27 mm	ISO - 50	126.8	55.2	21	27	48	M24
ISO - 50 x 32 mm	ISO - 50	126.8	55.2	24	32	58	M24
ISO - 50 x 40 mm	ISO - 50	126.8	55.2	27	40	70	M24

STUB ARBOUR
(Type - M1TR R8)



COLLET CHUCKS
(R8 shank)





- Made from 16MnCr15 Case Hardened to 55-58 HRc
- Precision Ground to an Accuracy of 0.15 mm TIR.
- Ad per IS 5927 - 1981.
- Type B available on request.

Application : Suitable to hold Morse Taper Shank Tools with Tang.

MODEL NO.	L	L1	D	INTERNAL TAPER	DRAW BOLT THREAD M
ISO - 30 MT - 1 A	68.4	50	25	MT - 1	M12
ISO - 30 MT - 1 A (Extended)	68.4	92	25	MT - 1	M12
ISO - 30 MT - 2 A	68.4	50	32	MT - 2	M12
ISO - 30 MT - 2 A (Extended)	68.4	105	32	MT - 2	M12
ISO - 30 MT - 3 A	68.4	70	40	MT - 3	M12
ISO - 30 MT - 3 A (Extended)	68.4	125	40	MT - 3	M12
ISO - 40 MT - 1 A	93.4	50	25	MT - 1	M16
ISO - 40 MT - 1 A (Extended)	93.4	95	25	MT - 1	M16
ISO - 40 MT - 2 A	93.4	50	32	MT - 2	M16
ISO - 40 MT - 2 A (Extended)	93.4	108	32	MT - 2	M16
ISO - 40 MT - 3 A	93.4	65	40	MT - 3	M16
ISO - 40 MT - 3 A (Extended)	93.4	130	40	MT - 3	M16
ISO - 40 MT - 4 A	93.4	95	48	MT - 4	M16
ISO - 40 MT - 4 A(Extended)	93.4	155	48	MT - 4	M16
ISO - 50 MT - 1 A	126.8	50	25	MT - 1	M24
ISO - 50 MT - 1 A (Extended)	126.8	100	25	MT - 1	M24
ISO - 50 MT - 2 A	126.8	60	32	MT - 2	M24
ISO - 50 MT - 2 A (Extended)	126.8	113	32	MT - 2	M24
ISO - 50 MT - 3 A	126.8	65	40	MT - 3	M24
ISO - 50 MT - 3 A (Extended)	126.8	135	40	MT - 3	M24
ISO - 50 MT - 4 A	126.8	70	48	MT - 4	M24
ISO - 50 MT - 4 A (Extended)	126.8	160	48	MT - 4	M24
ISO - 50 MT - 5 A	126.8	105	63	MT - 5	M24
ISO - 50 MT - 5 A (Extended)	126.8	190	63	MT - 5	M24

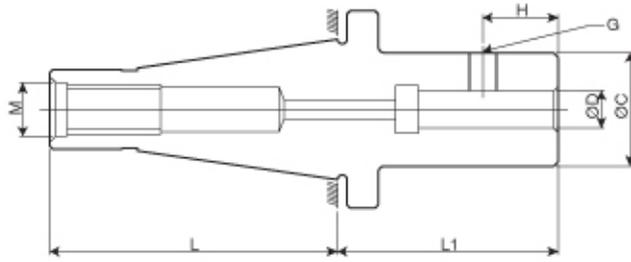


FIG. : 1

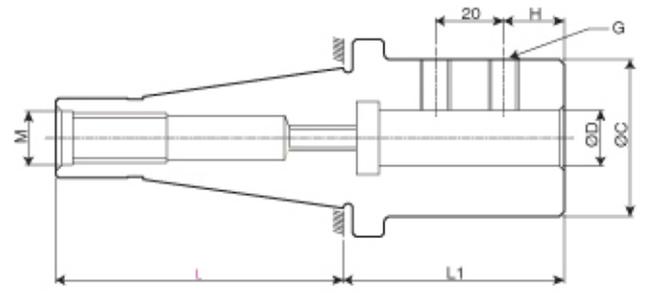


FIG. : 2

MODEL NO.	L	L1	ØD	ØC	H	G	M	Fig.
ISO - 30 x 12 mm	68.4	57.5	12	35	16	M10	M12	1
ISO - 30 x 16 mm	68.4	57.5	16	40	23	M10	M12	1
ISO - 30 x 20 mm	68.4	72.5	20	50	25	M10	M12	2
ISO - 30 x 25 mm	68.4	87.5	25	50	25	M10	M12	2
ISO - 30 x 32 mm	68.4	94.5	32	60	30	M10	M12	2
ISO - 30 x 40 mm	68.4	94.5	40	60	30	M10	M12	2
ISO - 40 x 12 mm	93.4	59.5	12	35	16	M10	M16	1
ISO - 40 x 16 mm	93.4	59.5	16	40	23	M10	M16	1
ISO - 40 x 20 mm	93.4	64.5	20	50	25	M10	M16	2
ISO - 40 x 25 mm	93.4	76.5	25	50	25	M10	M16	2
ISO - 40 x 32 mm	93.4	81.5	32	60	30	M10	M16	2
ISO - 40 x 40 mm	93.4	96.5	40	60	30	M10	M16	2
ISO - 50 x 12 mm	126.8	63.0	12	35	16	M10	M24	1
ISO - 50 x 16 mm	126.8	63	16	40	23	M10	M24	1
ISO - 50 x 20 mm	126.8	68	20	50	25	M10	M24	2
ISO - 50 x 25 mm	126.8	80	25	50	25	M10	M24	2
ISO - 50 x 32 mm	126.8	80	32	60	30	M10	M24	2
ISO - 50 x 40 mm	126.8	80	40	60	30	M10	M24	2

L & T - Mumbai

Bharat Forge - Satara

Tata Motors - Pune

Mahindra & Mahindra - Nasik

Ashok Layland - Channai

Indian Railway - Kolkatta

Shanthi Gears - Coimbatore

Hindustan Aeronautics - Hyderabad

Hero Honda - Gudgaon

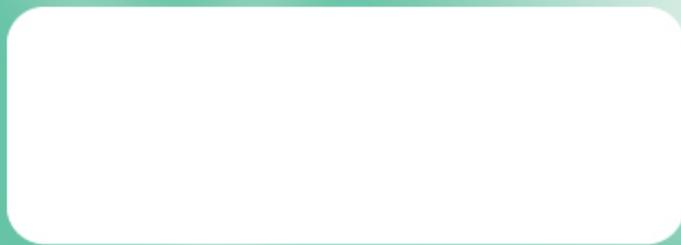
Mahindra Sar Auto Ltd. - Rajkot

Mac Power CNC Machines - Rajkot

Godrej - Mumbai

Hero Cycles - Ludhiana





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