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Quality!

TOOLTECH[®]
"A" GRADE

Manufactured By:

TOOLTECH INDUSTRIES

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TOOLTECH[®]
"A" GRADE

MACHINE TOOL
A C C E S S O R I E S

HARDENED AND GROUND

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PRODUCT CATALOGUE

COMPANY PROFILE

Tooltech Industries Tools Is India's Largest Manufacturing Company Of Tooling Suitable For CNC Lathes And Other Machine Tool Accessories.

Tooltech Industries Tools Also is One Of The Brand For Quality Since 1996. The Quality is Comparable With Some of The Best European Makes Of Germany And Italy.

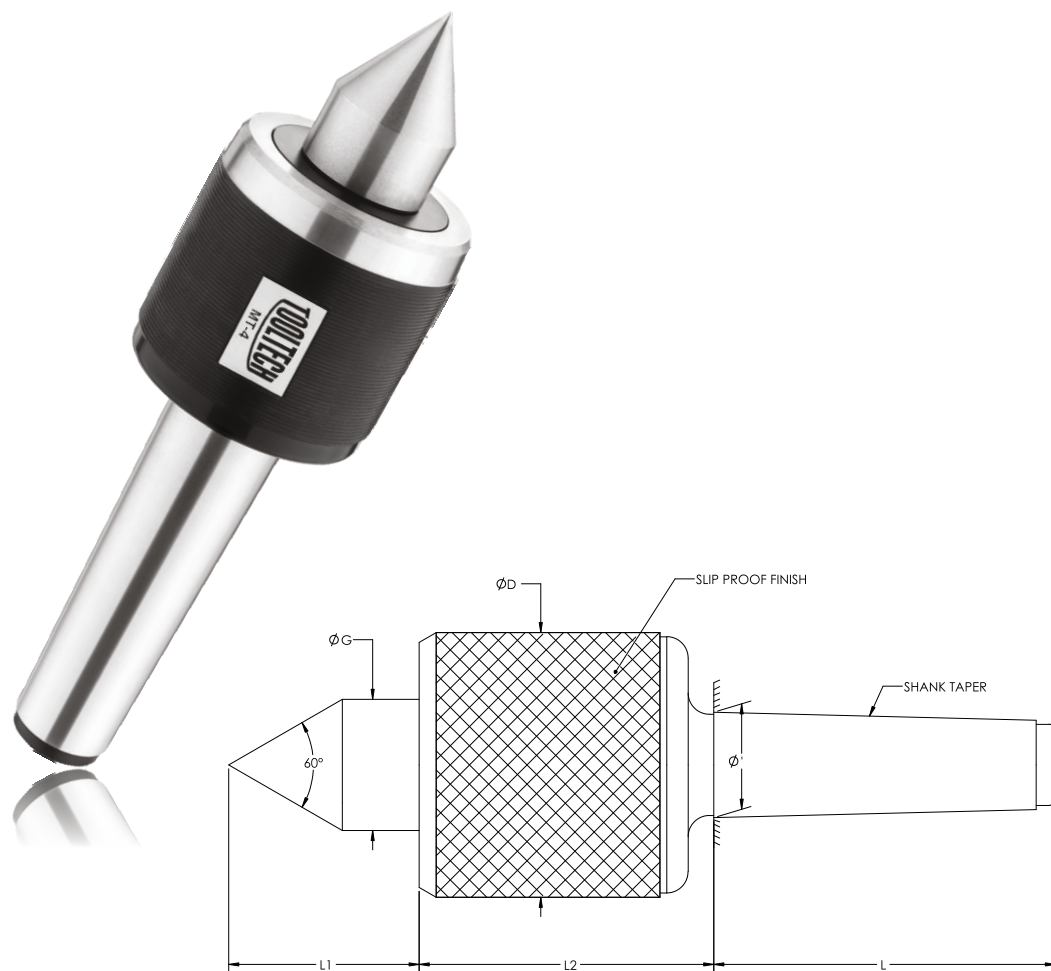
The Company Has Direct Exports To Many More Countries And More Countries Are Added Every Year As A Part Of Company's Vision To Be Amongst The World's Leading Revolving Center Manufacturing Company.

We Supply Our Products To Some Of The Leading Firms In The Engineering Sector, Automobile Sector And Government And Private Sector Companies.

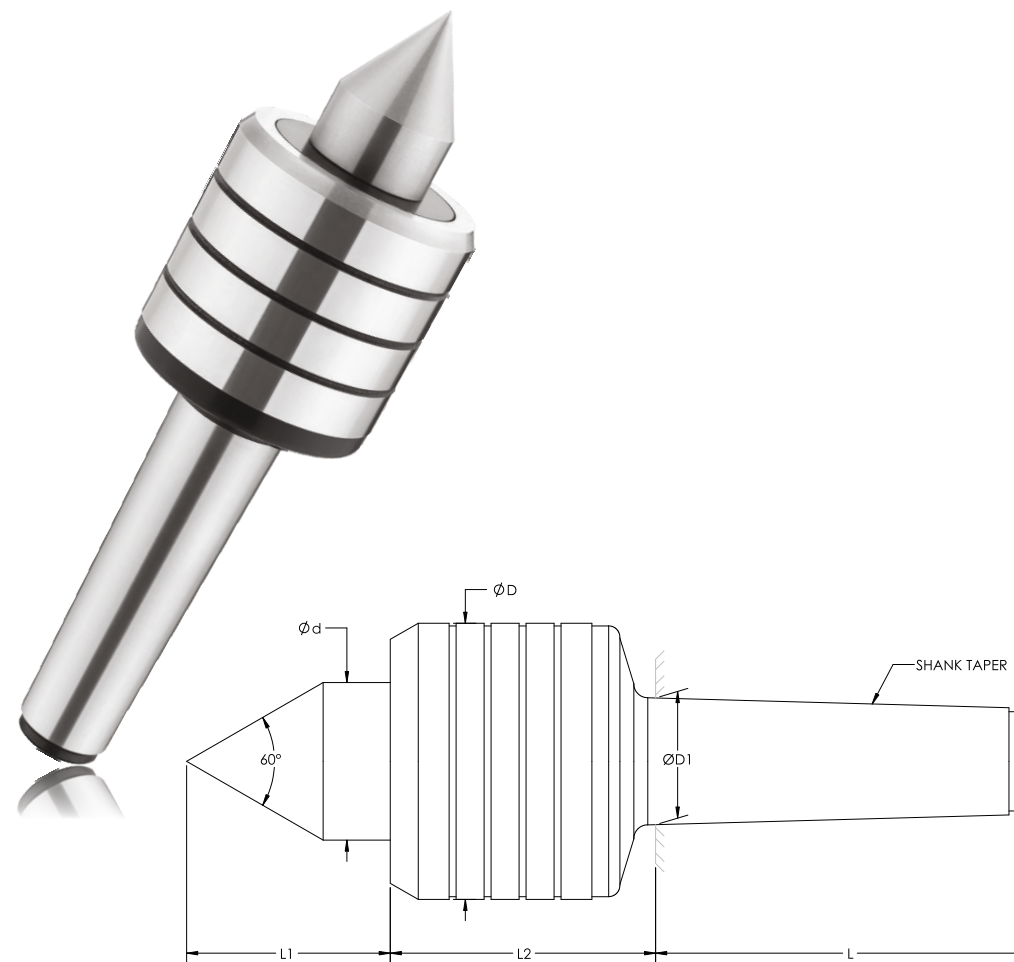


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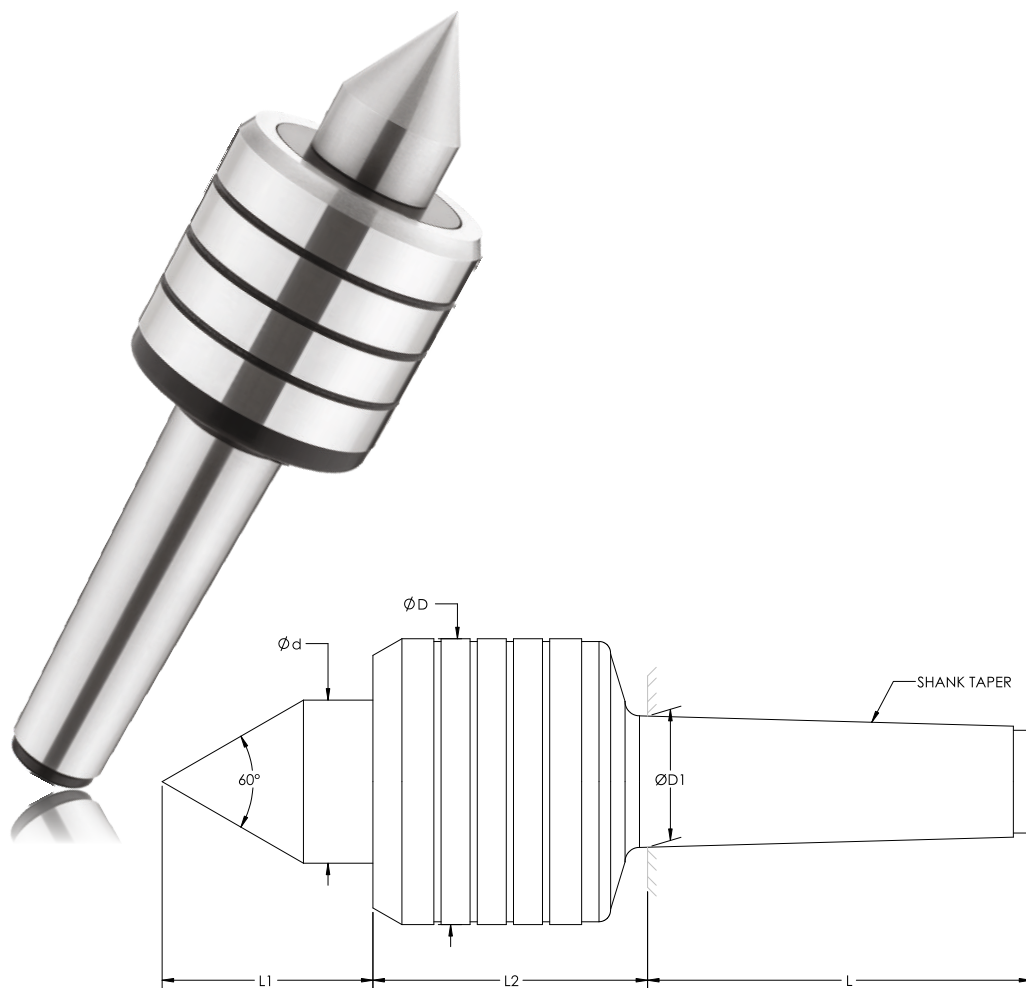
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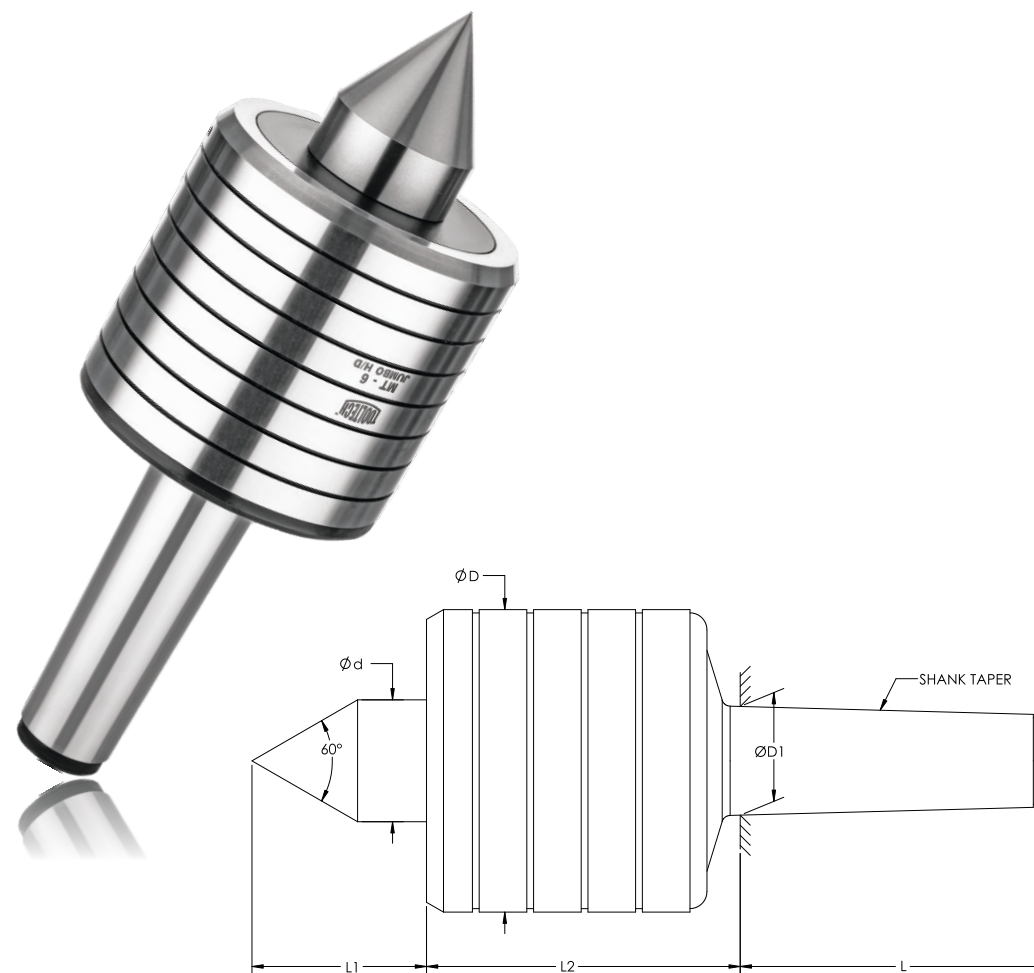
CODE	SHANK TAPER	Ød	ØD	ØD1	L1	L2	L	MAX JOB WT. KG	CONC. ERROR MM
RC01 SD	MT-1	25	45	12.065	30	46.5	53.5	25	0.015
RC02 SD	MT-2	25	52	17.780	40	59	64	50	0.015
RC03 SD	MT-3	30	62	23.825	44	68	81	75	0.015
RC04 SD	MT-4	33	64	31.267	48	70.5	102.5	100	0.015
RC05 SD	MT-5	40	70	44.399	52	78.5	129.5	150	0.015
RC06 SD	MT-6	54	105	63.348	71	90	182	200	0.015



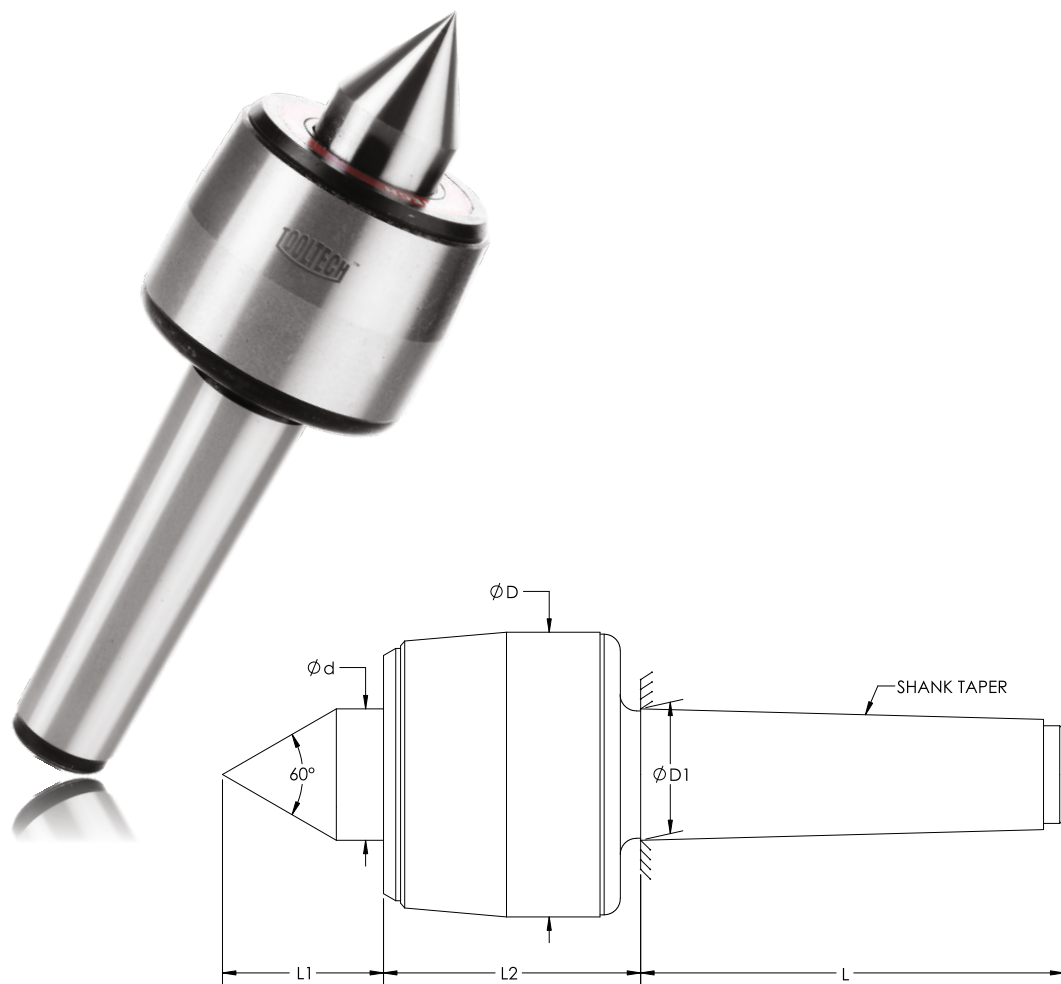
CODE	SHANK TAPER	Ød	ØD	ØD1	L1	L2	L	MAX JOB WT. KG	CONC. ERROR MM
RC03 HD	MT-3	33	68	23.82	50	72	81	350	0.015
RC04 HD	MT-4	34	70	31.26	50	80.5	102.5	500	0.015
RC05 HD	MT-5	40	79	44.39	54	80.5	129.5	1250	0.015
RC06 HD	MT-6	65	122	63.34	81	130	182	2000	0.015



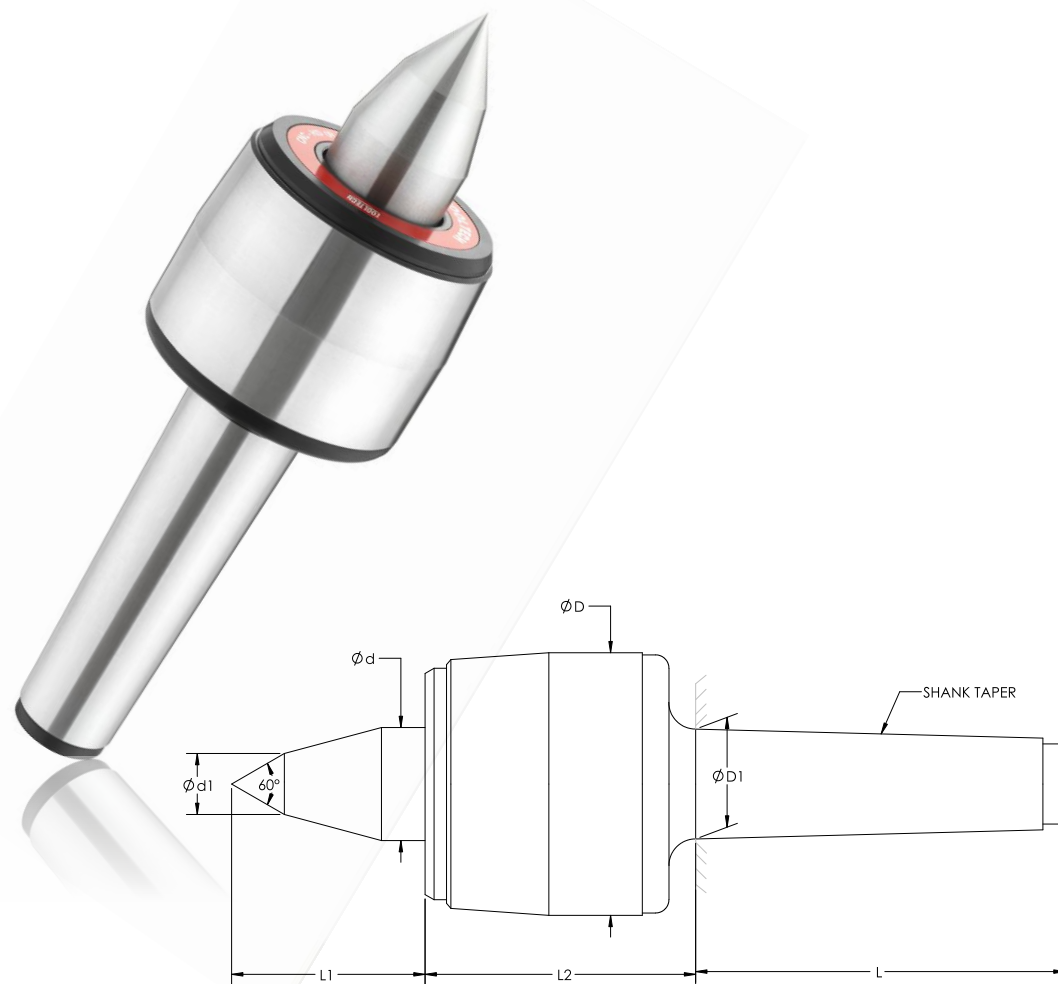
CODE	SHANK TAPER	Ød	ØD	ØD1	L1	L2	L	MAX JOB WT. KG	CONC. ERROR MM
RC05 EHD	MT-5	56	98	44.39	72	97.5	129.5	1750	0.015
RC06 EHD	MT-6	75	138	63.34	100	158	182	4000	0.015
RC07 EHD	MT-7	75	138	83.05	100	150	256	5000	0.015



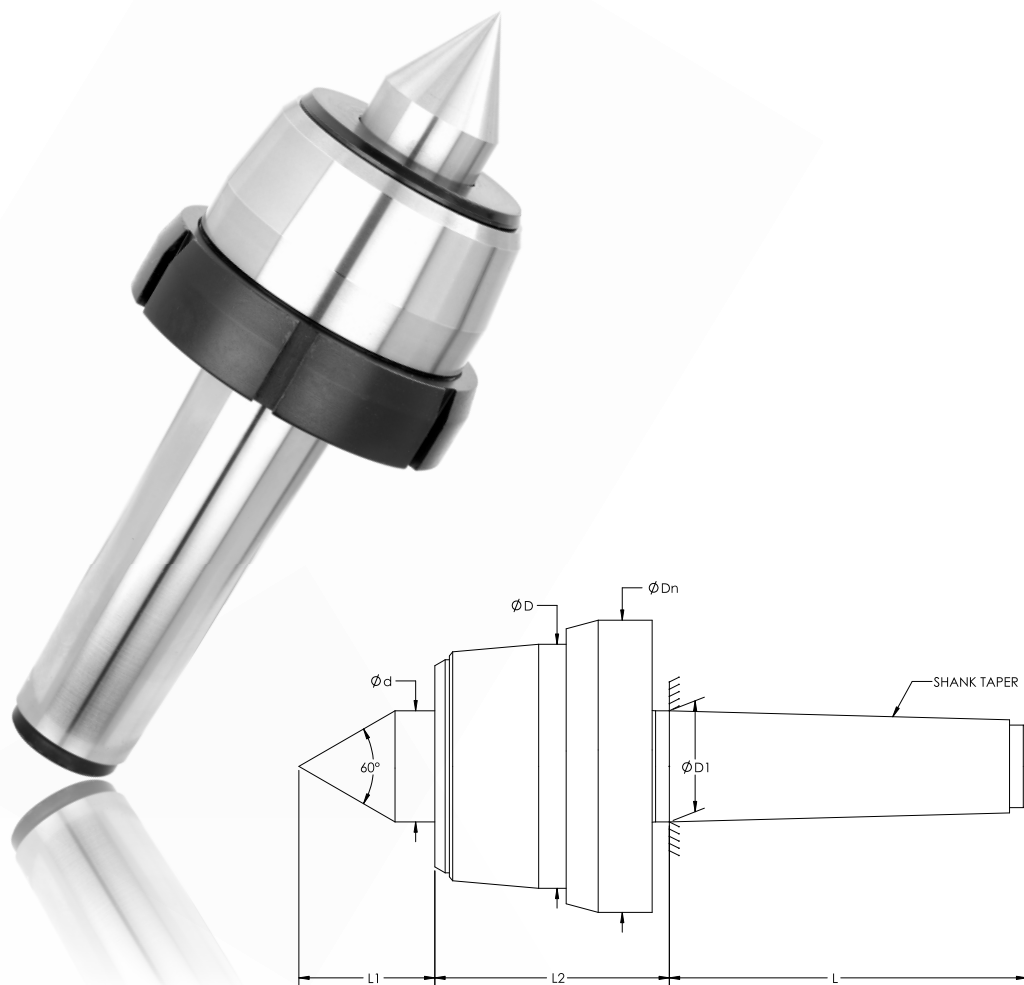
CODE	SHANK TAPER	Ød	ØD	ØD1	L1	L2	L	MAX JOB WT. KG	CONC. ERROR MM
RC06 J01	MT-6	80	178	63.34	100	175	182	5000	0.015
RC07 J01	MT-7	80	178	83.05	100	175	255	6500	0.015



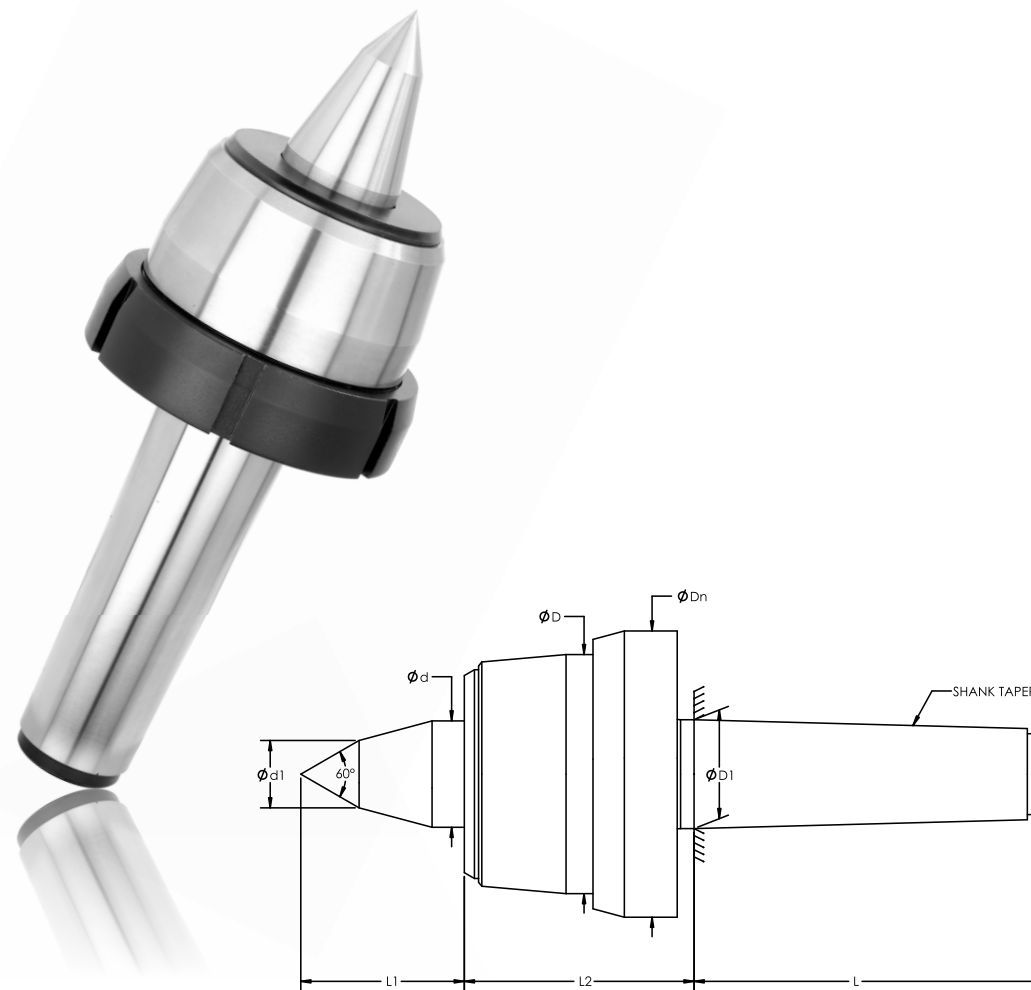
CODE	SHANK TAPER	Ød	ØD	ØD1	L1	L2	L	MAX JOB WT. KG	CONC. ERROR MM	MAX. RPM
RCC03 HS P01	MT-3	25	58	23.82	32	58	81	500	0.005	5000
RCC04 HS P01	MT-4	32	70	31.26	40	60.5	102.5	800	0.005	3800
RCC05 HS P01	MT-5	38	87	44.39	46	74.5	129.5	2000	0.005	3000
RCC06 HS P01	MT-6	55	123	63.34	78	114	182	3500	0.010	2600



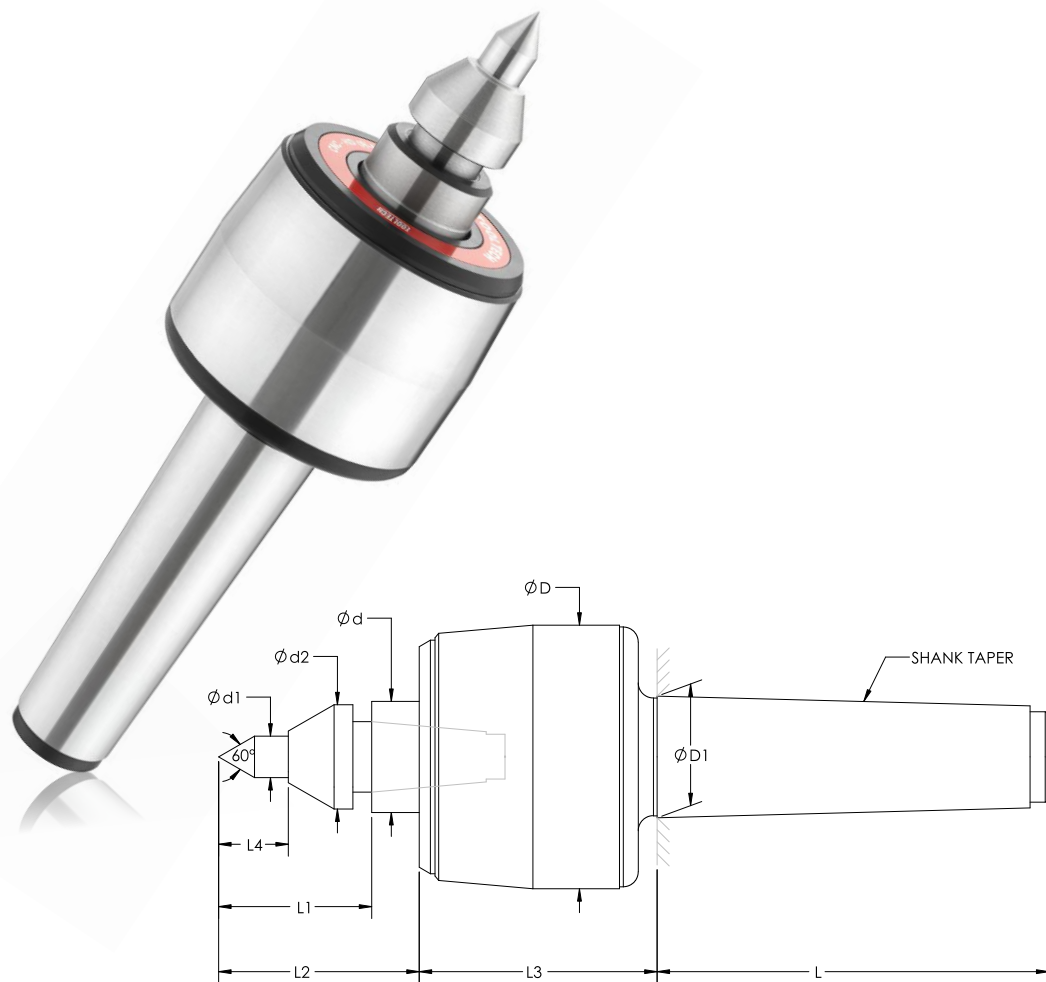
CODE	SHANK TAPER	Ød1	Ød	ØD	ØD1	L1	L2	L	MAX JOB WT. KG	CONC. ERROR MM	MAX. RPM
RCC03 HS P02	MT-3	13	25	58	23.82	43	58	81	400	0.005	5000
RCC04 HS P02	MT-4	20	32	70	31.26	55	60.5	102.5	500	0.005	3800
RCC05 HS P02	MT-5	21	38	87	44.39	56	74.5	129.5	1200	0.005	3000
RCC06 HS P02	MT-6	25	55	123	63.34	94	114	182	2500	0.010	2600



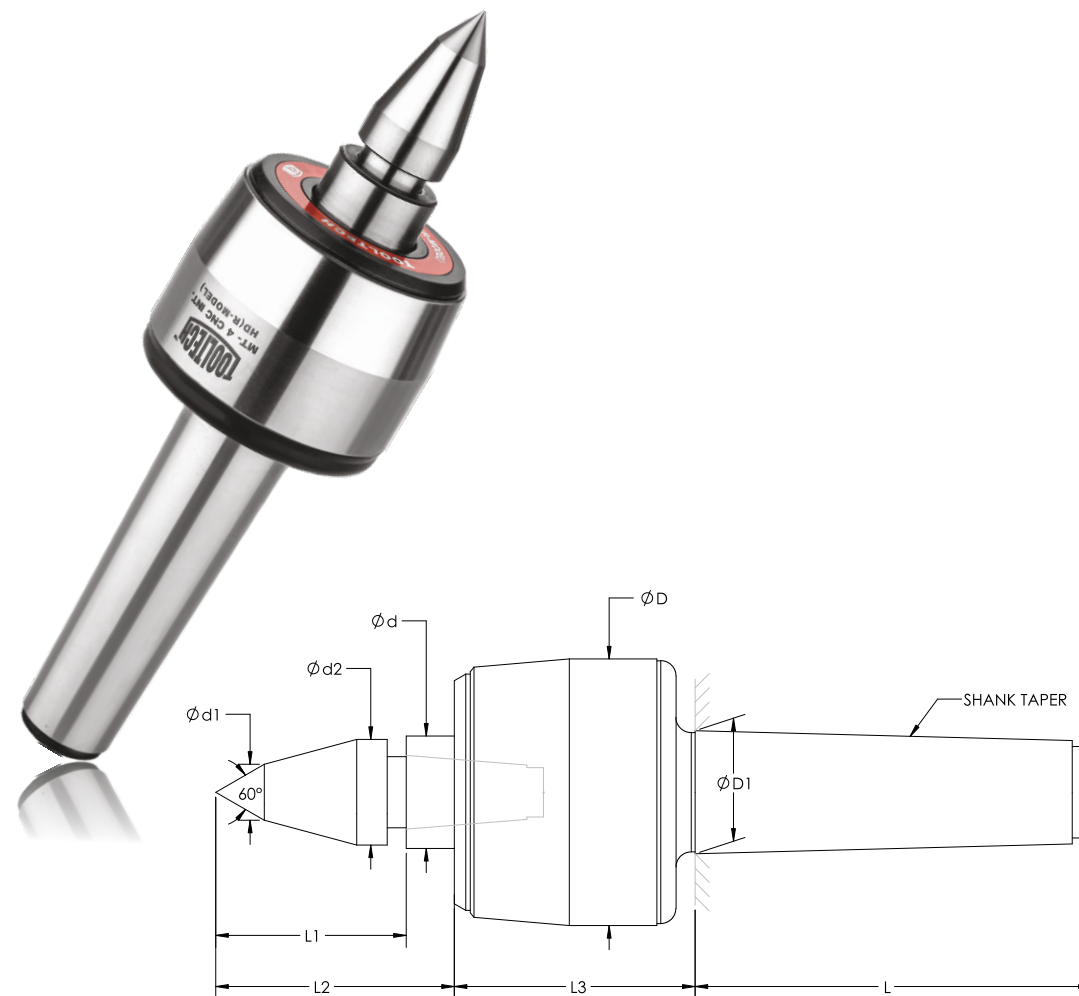
CODE	SHANK TAPER	Ød	ØD	ØD1	ØDn	L1	L2	L	MAX JOB WT. KG	CONC. ERROR MM	MAX. RPM
RCC04 HS P01DN	MT-4	32	70	31.26	85	40	69.5	102.5	800	0.005	3800
RCC05 HS P01DN	MT-5	38	87	44.39	104	46	76.5	129.5	2000	0.005	3000



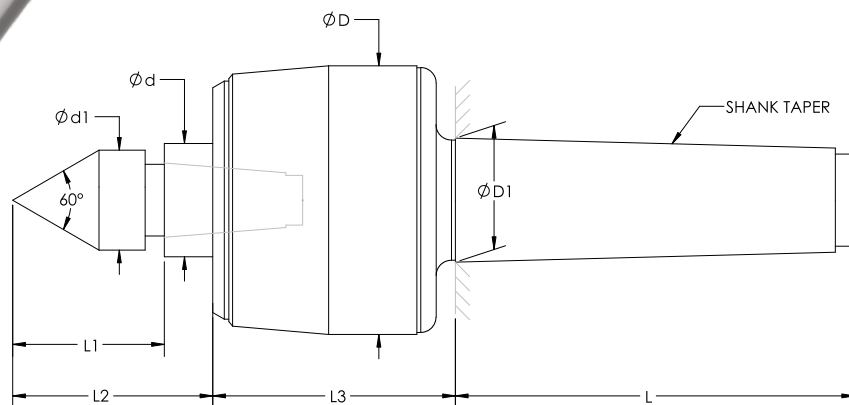
CODE	SHANK TAPER	Ød1	Ød	ØD	ØD1	ØDn	L1	L2	L	MAX JOB WT. KG	CONC. ERROR MM	MAX. RPM
RCC04 HS P02DN	MT-4	20	32	70	31.26	85	55	69.5	102.5	500	0.005	3800
RCC05 HS P02DN	MT-5	21	38	87	44.39	104	56	76.5	129.5	1200	0.005	3000



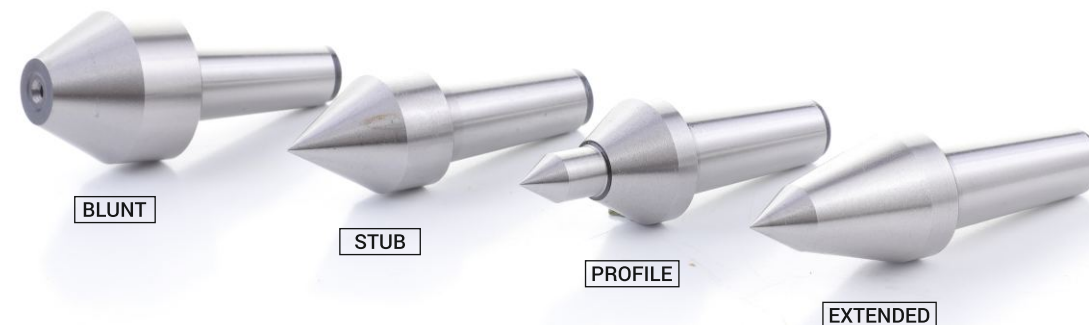
CODE	SHANK TAPER	Ød1	Ød2	Ød	ØD	ØD1	L1	L2	L3	L4	L	MAX JOB WT. KG	CONC. ERROR MM	MAX. RPM
RCC03 HD IC P01	MT-3	11	24	24	58	23.82	39	43	58	20	81	50	0.010	5000
RCC04 HD IC P01	MT-4	11	27	30	70	31.26	40	52	60.5	18	102.5	125	0.010	3800
RCC05 HD IC P01	MT-5	16	33	38	87	44.39	65	70	74.5	30	129.5	200	0.010	3000



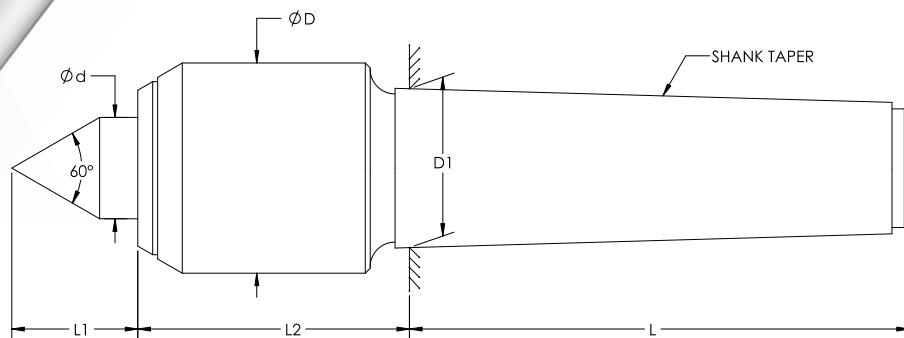
CODE	SHANK TAPER	Ød1	Ød2	Ød	ØD	ØD1	L1	L2	L3	L	MAX JOB WT. KG	CONC. ERROR MM	MAX. RPM
RCC03 HD IC P02	MT-3	14	24	24	58	23.82	42	46	58	81	100	0.010	5000
RCC04 HD IC P02	MT-4	14	27	30	70	31.26	50	62	60.5	102.5	200	0.010	3800
RCC05 HD IC P02	MT-5	18	32	38	87	44.39	53	58	74.5	129.5	400	0.010	3000



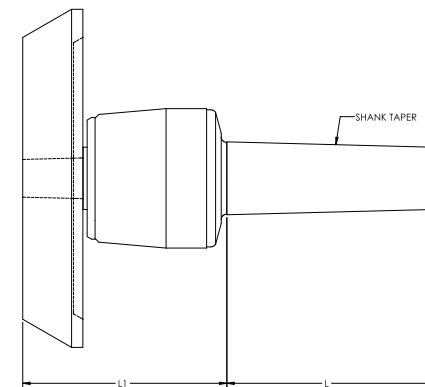
CODE	SHANK TAPER	ϕd_1	ϕd	ϕD	ϕD_1	L1	L2	L3	L	MAX JOB WT. KG	CONC. ERROR MM	MAX. RPM
RCC03 HD IC P03	MT-3	24	24	58	23.82	36	40	58	81	150	0.010	5000
RCC04 HD IC P03	MT-4	26	30	70	31.26	40	52	60.5	102.5	250	0.010	3800
RCC05 HD IC P03	MT-5	32	38	87	44.39	50	55	74.5	129.5	650	0.010	3000



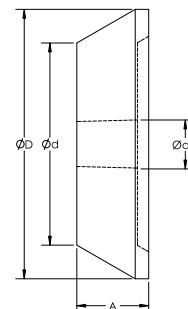
SHANK TAPER	MT-3	MT-4	MT-5
STUB POINT	R03 SP01	R04 SP01	R05 SP01
EXTENDED POINT	R03 SP02	R04 SP02	R05 SP02
PROFILE POINT	R03 SP03	R04 SP03	R05 SP03
LONG NOSE POINT	R03 SP04	R04 SP04	R05 SP04
BLUNT POINT	R03 SP05	R04 SP05	R05 SP05
STUB POINT C.T.	R03 SP06	R04 SP06	R05 SP06
EXTENDED POINT C.T.	R03 SP07	R04 SP07	R05 SP07
BLUNT POINT C.T.	R03 SP08	R04 SP08	R05 SP08
PROFILE POINT - FEMALE	R03 SP09	R04 SP09	R05 SP09
FEMALE ADJUSTA POINT	R03 SP10	R04 SP10	R05 SP10



CODE	SHANK TAPER	Ød	ØD	ØD1	L1	L2	L	MAX JOB WT. KG	CONC. ERROR MM	MAX. RPM
RC04 MD	MT-4	24	52	31.267	35	58	102.5	800	0.005	6300
RC05 MD	MT-5	24	58	44.399	35	58	129.5	1600	0.01	4300

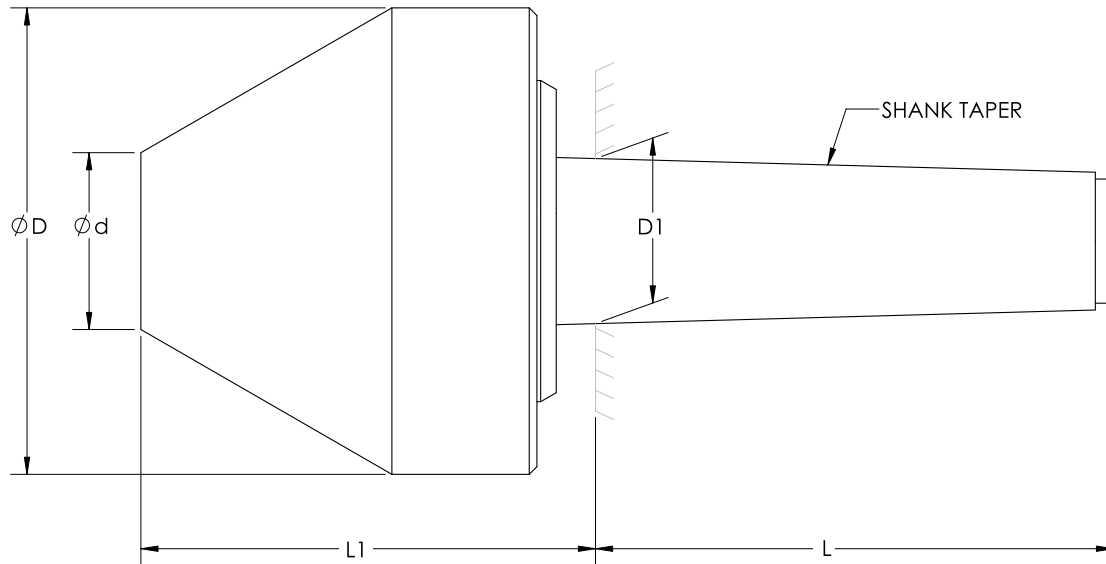


CODE	MT	PLATE	L	L1	CONICAL ERROR MM	MAX. RPM
RC04 PL	4	1	60	5	32.5	68
RC05 PL	5	2	100	45	32.5	45
RC06 PL	6	3	150	95	32.5	45



CODE	MT	SIZE	D	d	d1	A
PL04 S01	4	1	60	5	32.5	68
PL04 S02	4	2	100	50	32.5	45
PL04 S03	4	3	150	100	32.5	45
PL04 S04	4	4	200	150	32.5	45
PL04 S05	4	5	250	200	32.5	45
PL05 S02	5	1	100	50	37.7	43
PL05 S03	5	2	150	100	37.7	43
PL05 S04	5	3	200	150	37.7	43
PL05 S05	5	4	250	200	37.7	43
PL05 S06	5	5	300	250	37.7	43
PL06 S03	6	1	150	100	37.7	54
PL06 S04	6	2	200	150	37.7	54
PL06 S05	6	3	250	200	37.7	54
PL06 S06	6	4	300	250	37.7	54
PL06 S07	6	5	350	300	37.7	54

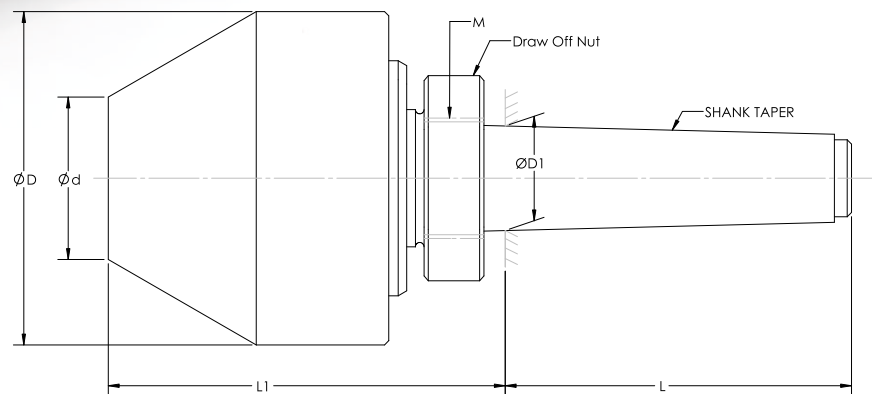
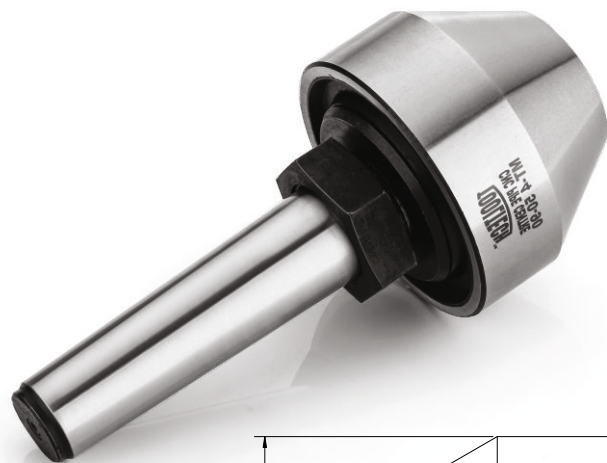
PIPE CENTER BLUNT (60°ANGLE REVOLVING CONE)



PIPE CENTER BLUNT (60°ANGLE REVOLVING CONE)

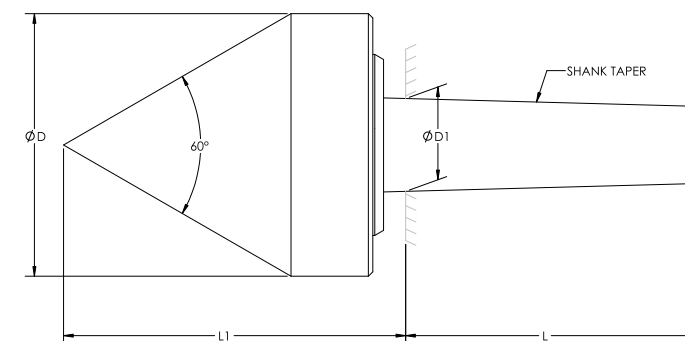
CODE	MODEL	SHANK TAPER	$\varnothing d$	$\varnothing D$	$\varnothing D1$	L	L1	CONC. ERROR	MAX. RPM
PC02 B01	MT-2 25-50	MT-2	25	50	17.780	64	70	0.015	750
PC02 B02	MT-2 30-65	MT-2	30	65	17.780	64	72	0.015	750
PC02 B03	MT-2 40-75	MT-2	40	75	17.780	64	75	0.015	600
PC03 B01	MT-3 25-50	MT-3	25	50	23.825	81	70	0.015	750
PC03 B02	MT-3 30-65	MT-3	30	65	23.825	81	72	0.015	750
PC03 B03	MT-3 40-75	MT-3	40	75	23.825	81	75	0.015	600
PC03 B04	MT-3 50-90	MT-3	50	90	23.825	81	75	0.015	600
PC03 B05	MT-3 65-100	MT-3	65	100	23.825	81	76	0.015	500
PC03 B06	MT-3 75-125	MT-3	75	125	23.825	81	98	0.015	350
PC03 B07	MT-3 75-150	MT-3	75	150	23.825	81	100	0.015	350
PC04 B01	MT-4 25-50	MT-4	25	50	31.267	102.5	71.5	0.015	750
PC04 B02	MT-4 30-65	MT-4	30	65	31.267	102.5	73.5	0.015	750
PC04 B03	MT-4 40-75	MT-4	40	75	31.267	102.5	76.5	0.015	600
PC04 B04	MT-4 50-90	MT-4	50	90	31.267	102.5	76.5	0.015	600
PC04 B05	MT-4 65-100	MT-4	65	100	31.267	102.5	77.5	0.015	500
PC04 B06	MT-4 75-125	MT-4	75	125	31.267	102.5	98.5	0.015	350
PC04 B07	MT-4 75-150	MT-4	75	150	31.267	102.5	101.5	0.015	300
PC04 B08	MT-4 100-175	MT-4	100	175	31.267	102.5	109.5	0.015	250
PC04 B09	MT-4 100-200	MT-4	100	200	31.267	102.5	112.5	0.015	250
PC05 B01	MT-5 25-50	MT-5	25	50	44.399	129.5	71.5	0.015	750
PC05 B02	MT-5 30-65	MT-5	30	65	44.399	129.5	73.5	0.015	750
PC05 B03	MT-5 40-75	MT-5	40	75	44.399	129.5	76.5	0.015	600
PC05 B04	MT-5 50-90	MT-5	50	90	44.399	129.5	76.5	0.015	600
PC05 B05	MT-5 65-100	MT-5	65	100	44.399	129.5	77.5	0.015	500
PC05 B06	MT-5 75-125	MT-5	75	125	44.399	129.5	98.5	0.015	350
PC05 B07	MT-5 75-150	MT-5	75	150	44.399	129.5	101.5	0.015	300
PC05 B08	MT-5 100-175	MT-5	100	175	44.399	129.5	109.5	0.015	250
PC05 B09	MT-5 100-200	MT-5	100	200	44.399	129.5	112.5	0.015	250
PC05 B10	MT-5 100-250	MT-5	100	250	44.399	129.5	160.5	0.015	200
PC06 B05	MT-6 65-100	MT-6	65	100	63.348	182	79	0.015	500
PC06 B06	MT-6 75-125	MT-6	75	125	63.348	182	100	0.015	350
PC06 B07	MT-6 75-150	MT-6	75	150	63.348	182	103	0.015	300
PC06 B08	MT-6 100-175	MT-6	100	175	63.348	182	111	0.015	250
PC06 B09	MT-6 100-200	MT-6	100	200	63.348	182	114	0.015	250
PC06 B10	MT-6 100-250	MT-6	100	250	63.348	182	164	0.015	200
PC06 B11	MT-6 200-275	MT-6	200	275	63.348	182	118	0.015	150

CNC PIPE CENTER BLUNT (60°ANGLE REVOLVING CONE)



CODE	MODEL	SHANK TAPER	Ød	ØD	ØD1	L	L1	MAX JOB WT. KG	MAX. RPM
PCC03 B03	MT-3 40-75	MT-3	40	75	23.824	81	91.5	150	3500
PCC04 B03	MT-4 40-75	MT-4	40	75	31.267	102.5	95	200	3500
PCC05 B03	MT-5 40-75	MT-5	40	75	44.399	129.5	95	300	3500
PCC03 B04	MT-3 50-90	MT-3	50	90	23.825	81	93	200	2250
PCC04 B04	MT-4 50-90	MT-4	50	90	31.267	102.5	98.5	300	2250
PCC05 B04	MT-5 50-90	MT-5	50	90	44.399	129.5	96.5	400	2250
PCC06 B04	MT-6 50-90	MT-6	50	90	63.348	182	98.5	400	2250
PCC04 B05	MT-4 65-100	MT-4	65	100	31.267	102.5	92	400	1750
PCC05 B05	MT-5 65-100	MT-5	65	100	44.399	129.5	93	500	1750
PCC06 B05	MT-6 65-100	MT-6	65	100	63.348	182	96.5	800	1750
PCC04 B06	MT-4 75-150	MT-4	75	150	31.267	102.5	115	500	1250
PCC05 B06	MT-5 75-150	MT-5	75	150	44.339	129.5	116	700	1250
PCC06 B06	MT-6 75-150	MT-6	75	150	63.348	182	119.5	1000	1250

PIPE CENTER POINTED (60°ANGLE REVOLVING CONE)



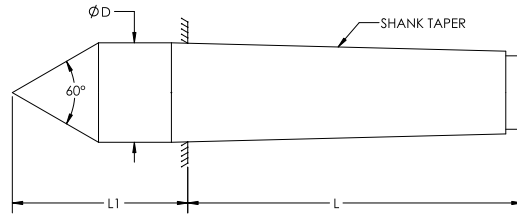
CODE	MODEL	SHANK TAPER	ØD	ØD1	L	L1	CONC. ERROR	MAX. RPM
PC02 P2	MT-2 0-2"	MT-2	50	17.780	64	92	0.015	750
PC02 P2A	MT-2 0-2 1/2"	MT-2	65	17.780	64	98	0.015	750
PC02 P3	MT-2 0-3"	MT-2	75	17.780	64	110	0.015	600
PC03 P2	MT-3 0-2"	MT-3	50	23.825	81	92	0.015	750
PC03 P2A	MT-3 0-2 1/2"	MT-3	65	23.825	81	98	0.015	750
PC03 P3	MT-3 0-3"	MT-3	75	23.825	81	110	0.015	600
PC03 P3A	MT-3 0-3 1/2"	MT-3	90	23.825	81	119	0.015	600
PC03 P4	MT-3 0-4"	MT-3	100	23.825	81	132	0.015	500
PC03 P5	MT-3 0-5"	MT-3	125	23.825	81	163	0.015	350
PC04 P2	MT-4 0-2"	MT-4	50	31.267	102.5	93.5	0.015	750
PC04 P2A	MT-4 0-2 1/2"	MT-4	65	31.267	102.5	99.5	0.015	750
PC04 P3	MT-4 0-3"	MT-4	75	31.267	102.5	111.5	0.015	600
PC04 P3A	MT-4 0-3 1/2"	MT-4	90	31.267	102.5	120.5	0.015	600
PC04 P4	MT-4 0-4"	MT-4	100	31.267	102.5	133.5	0.015	500
PC04 P5	MT-4 0-5"	MT-4	125	31.267	102.5	163.5	0.015	350
PC05 P2	MT-5 0-2"	MT-5	50	44.399	129.5	93.5	0.015	750
PC05 P2A	MT-5 0-2 1/2"	MT-5	65	44.399	129.5	99.5	0.015	750
PC05 P3A	MT-5 0-3"	MT-5	75	44.399	129.5	111.5	0.015	600
PC05 P3A	MT-5 0-3 1/2"	MT-5	90	44.399	129.5	120.5	0.015	600
PC05 P4	MT-5 0-4"	MT-5	100	44.399	129.5	133.5	0.015	500
PC05 P5	MT-5 30-65	MT-5	125	44.399	129.5	163.5	0.015	350
PC06 P4	MT-5 40-75	MT-6	100	63.348	182	135	0.015	500
PC06 P5	MT-5 50-90	MT-6	125	63.348	182	165	0.015	350

PLAIN DEAD CENTER



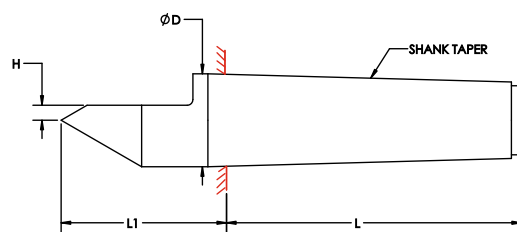
PLAIN DEAD CENTRE

CODE	MT	L	L1	ØD
DC1 P01	MT-1	53.5	26.5	12.2
DC2 P01	MT-2	64	36	18
DC3 P01	MT-3	84	44	24.1
DC4 P01	MT-4	102.5	57.5	31.6
DC5 P01	MT-5	129.5	70.5	44.7
DC6 P01	MT-6	182	88	63.8



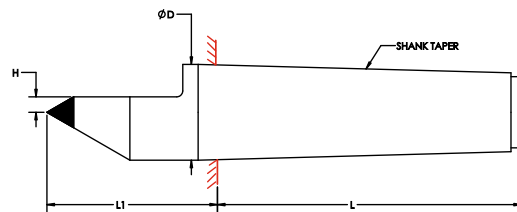
HALF DEAD CENTRE

CODE	MT	L	L1	ØD	H
DC1 H01	MT-1	53.5	26.5	12.2	2
DC2 H01	MT-2	64	36	18	2.6
DC3 H01	MT-3	84	44	24.1	3.45
DC4 H01	MT-4	102.5	57.5	31.6	5.2
DC5 H01	MT-5	129.5	70.5	44.7	11.65
DC6 H01	MT-6	182	88	63.8	10.1

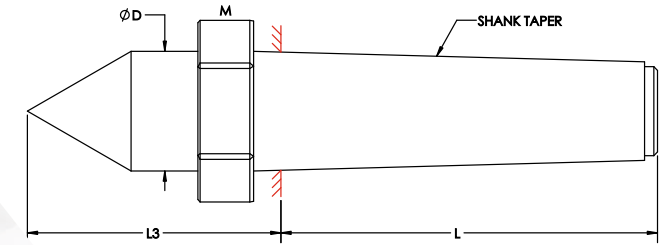
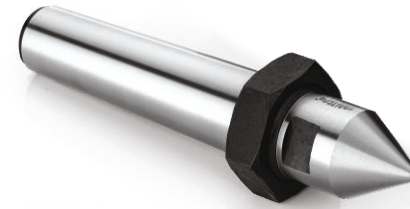


C.T. DEAD CENTRE HALF

CODE	MT	L	L1	ØD	H
DC1 H02 CT	MT-1	53.5	26.5	12.2	3.15
DC2 H02 CT	MT-2	64	36	18	5.6
DC3 H02 CT	MT-3	84	44	24.1	7
DC4 H02 CT	MT-4	102.5	57.5	31.6	8.7
DC5 H02 CT	MT-5	129.5	70.5	44.7	10.7
DC6 H02 CT	MT-6	182	88	63.8	11.1

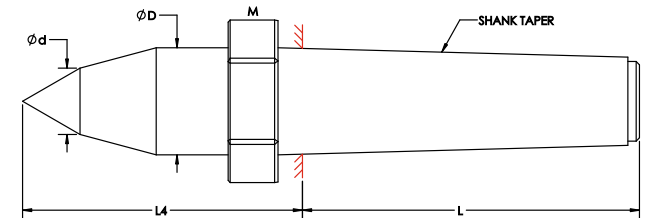


CNC DEAD CENTER



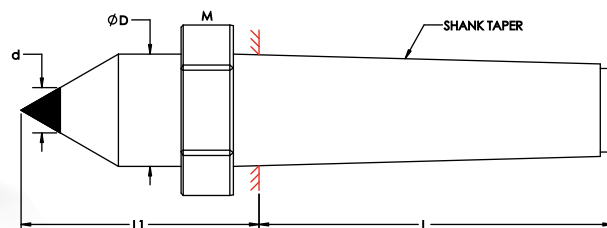
CNC DEAD CENTRE STUB

CODE	MT	L	L3	ØD	M
CDC2 S01 DN	MT-2	64	48	18	22x1.5
CDC3 S01 DN	MT-3	84	57	24.1	27x1.5
CDC4 S01 DN	MT-4	102.5	72.5	31.6	36x1.5
CDC5 S01 DN	MT-5	129.5	87.5	44.7	48x1.5
CDC6 S01 DN	MT-6	182	108	63.8	68x1.5



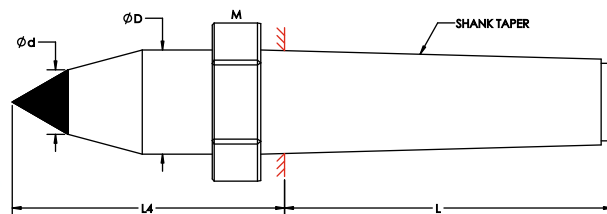
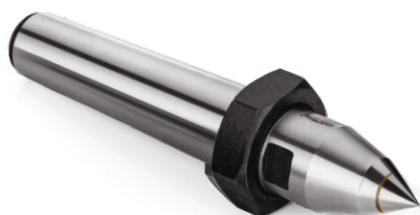
CNC DEAD CENTRE EXTENDED

CODE	MT	L	L4	ØD	Ød	M
CDC2 E01 DN	MT-2	64	61.5	18	10	22x1.5
CDC3 E01 DN	MT-3	84	70	24.1	11	27x1.5
CDC4 E01 DN	MT-4	102.5	83.5	31.6	14	36x1.5
CDC5 E01 DN	MT-5	129.5	90	44.7	18	48x1.5
CDC6 E01 DN	MT-6	182	124	63.8	24	68x1.5



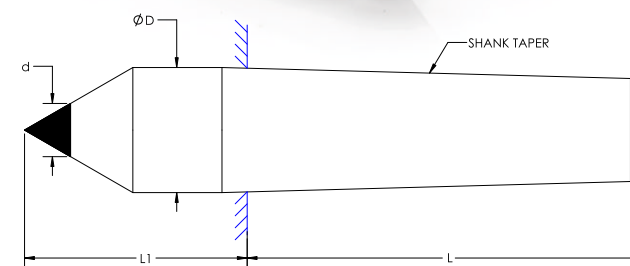
CNC DEAD CENTRE STUB

CODE	MT	L	L1	ØD	d	M
CDC3 S01 DN CT	MT-3	84	44	24.1	11	27x1.5
CDC4 S01 DN CT	MT-4	102.5	57.5	31.6	14	34x1.5
CDC5 S01 DN CT	MT-5	129.5	70.5	44.7	18	48x1.5
CDC6 S01 DN CT	MT-6	182	88	63.8	18	68x1.5



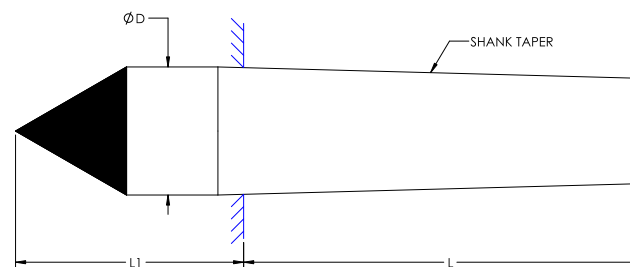
CNC DEAD CENTRE EXTENDED - CARBIDE TIPPED

CODE	MT	L	L4	ØD	d	M
CDC3 E02 DN CT	MT-3	84	70	24.1	11	27x1.5
CDC4 E02 DN CT	MT-4	102.5	83.5	31.6	14	36x1.5
CDC5 E02 DN CT	MT-5	129.5	90	44.7	18	48x1.5
CDC6 E02 DN CT	MT-6	182	124	63.8	18	68x1.5



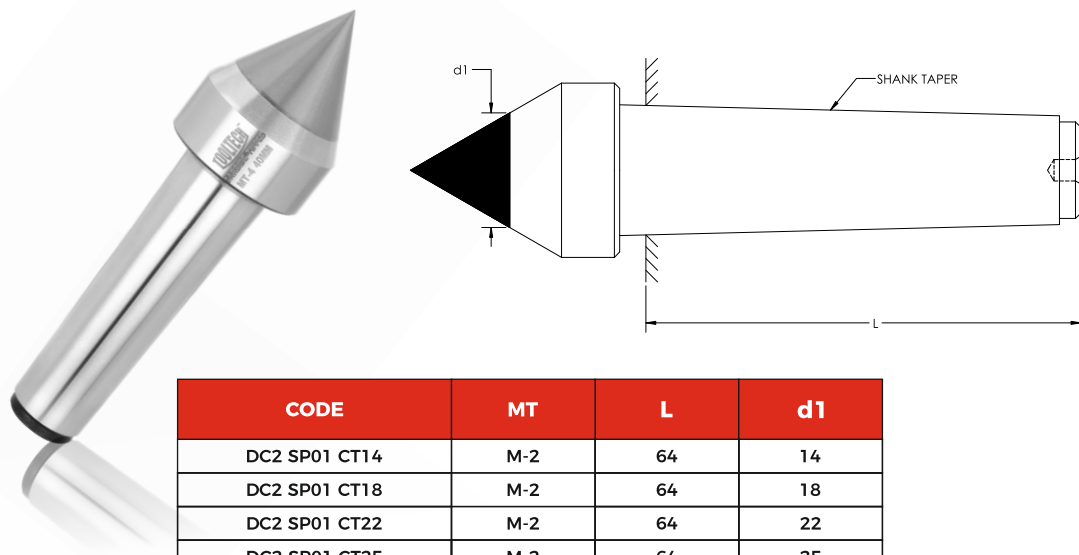
DEAD CENTER CARBIDE TIPPED

CODE	MT	L	L1	ØD	d
DC1 F02 CT	MT-1	53.5	26.5	12.2	5
DC2 F02 CT	MT-2	64	36	18	8
DC3 F02 CT	MT-3	84	44	24.1	11
DC4 F02 CT	MT-4	102.5	57.5	31.6	14
DC5 F02 CT	MT-5	129.5	70.5	44.7	18
DC6 F02 CT	MT-6	182	88	63.8	18

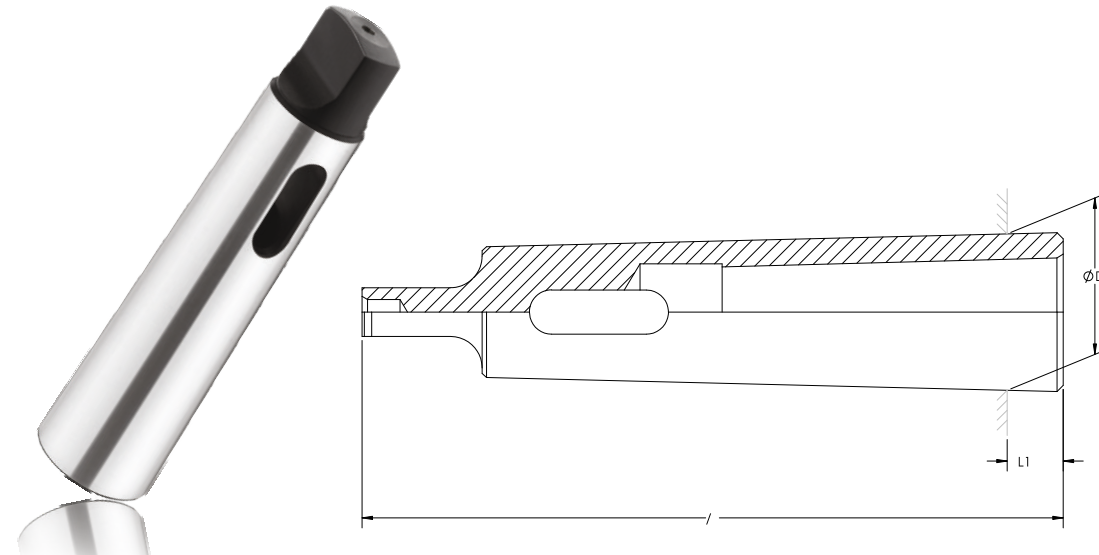


FULL CARBIDE TIPPED DEAD CENTRE

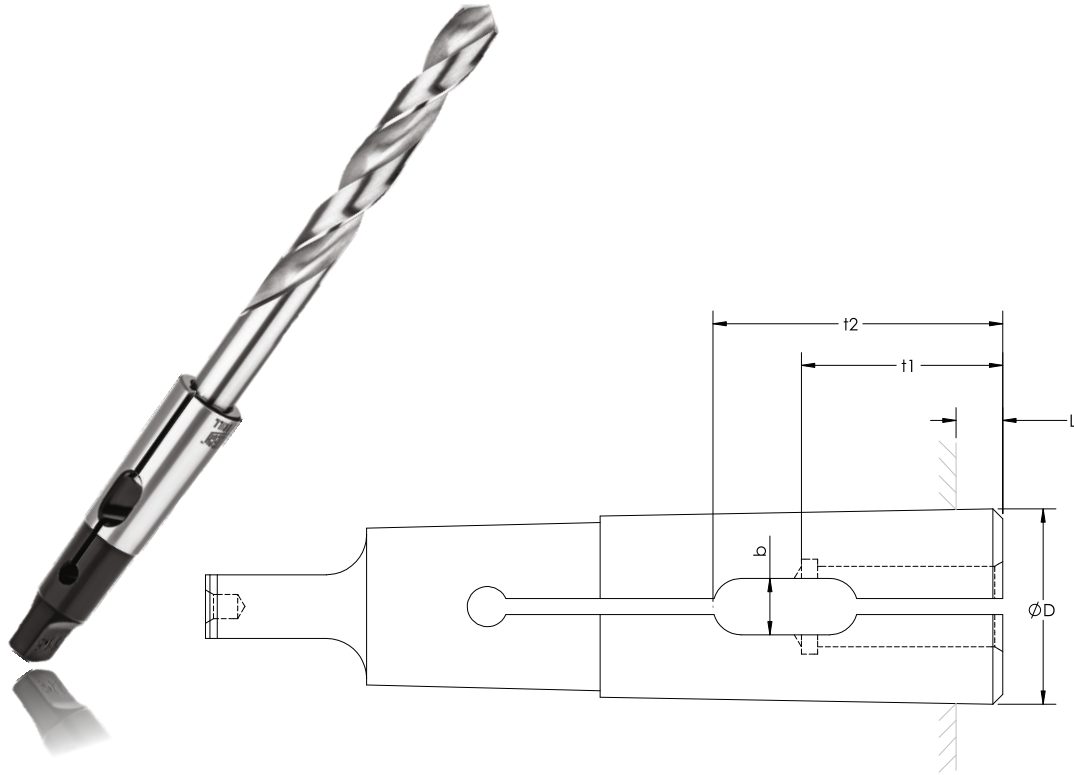
CODE	MT	L	L1	ØD
DC2 F01 CT	MT-2	64	36	18
DC3 F01 CT	MT-3	84	44	24.1
DC4 F01 CT	MT-4	102.5	57.5	31.6
DC5 F01 CT	MT-5	129.5	70.5	44.7



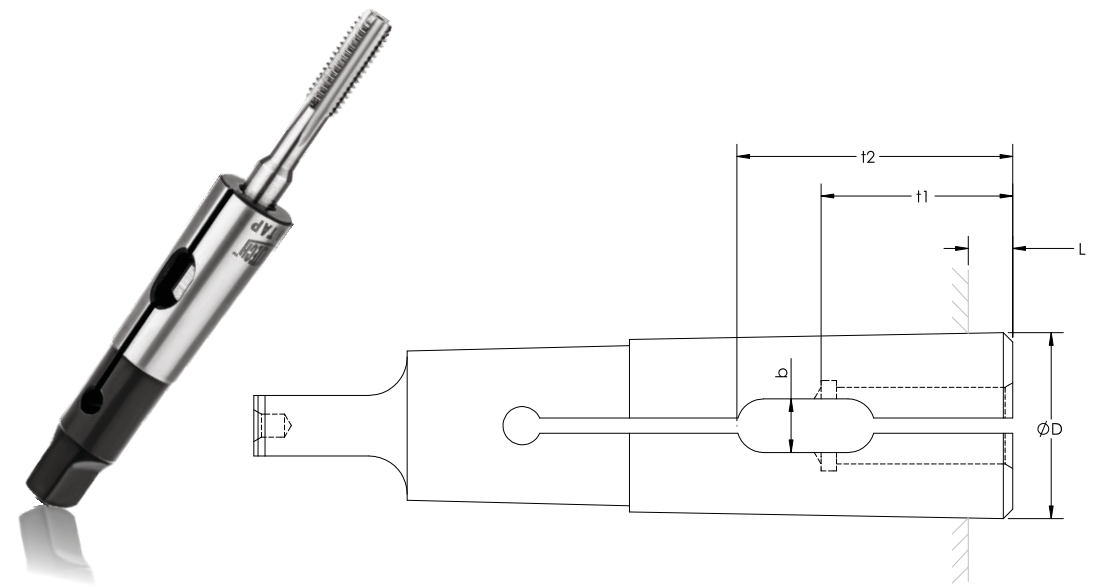
CODE	MT	L	d1
DC2 SP01 CT14	M-2	64	14
DC2 SP01 CT18	M-2	64	18
DC2 SP01 CT22	M-2	64	22
DC2 SP01 CT25	M-2	64	25
DC2 SP01 CT28	M-2	64	28
DC3 SP01 CT14	M-3	84	14
DC3 SP01 CT18	M-3	84	18
DC3 SP01 CT22	M-3	84	22
DC3 SP01 CT25	M-3	84	25
DC3 SP01 CT28	M-3	84	28
DC3 SP01 CT30	M-3	84	30
DC3 SP01 CT32	M-3	84	32
DC3 SP01 CT35	M-3	84	35
DC3 SP01 CT40	M-3	84	40
DC4 SP01 CT18	M-4	102.5	18
DC4 SP01 CT22	M-4	102.5	22
DC4 SP01 CT25	M-4	102.5	25
DC4 SP01 CT28	M-4	102.5	28
DC4 SP01 CT30	M-4	102.5	30
DC4 SP01 CT32	M-4	102.5	32
DC4 SP01 CT35	M-4	102.5	35
DC4 SP01 CT40	M-4	102.5	40
DC5 SP01 CT22	M-5	129.5	22
DC5 SP01 CT25	M-5	129.5	25
DC5 SP01 CT28	M-5	129.5	28
DC5 SP01 CT30	M-5	129.5	30
DC5 SP01 CT32	M-5	129.5	32
DC5 SP01 CT35	M-5	129.5	35
DC5 SP01 CT40	M-5	129.5	40



CODE	MODEL NO.	INNER M.T.	OUTER M.T.	L	L1	D	WEIGHT KG.
DS 0-1	MT 0-1	0	1	80	14	12.065	0.040
DS 1-2	MT 1-2	1	2	91	17	17.780	0.100
DS 1-3	MT 1-3	1	3	98	5	23.825	0.215
DS 1-4	MT 1-4	1	4	123	6.5	31.267	0.515
DS 1-5	MT 1-5	1	5	155	6.5	44.399	1.58
DS 1-6	MT 1-6	1	6	217	8	63.348	4.600
DS 2-3	MT 2-3	2	3	111	18	23.825	0.185
DS 2-4	MT 2-4	2	4	123	6.5	31.267	0.445
DS 2-5	MT 2-5	2	5	155	6.5	44.399	1.410
DS 2-6	MT 2-6	2	6	217	8	63.348	4.700
DS 3-4	MT 3-4	3	4	137	22.5	31.267	0.37
DS 3-5	MT 3-5	3	5	155	6.5	44.399	1.230
DS 3-6	MT 3-6	3	6	217	8	63.348	4.400
DS 4-5	MT 4-5	4	5	170	21.5	44.399	1.100
DS 4-6	MT 4-6	4	6	217	8	63.348	4.000
DS 5-6	MT 5-6	5	6	217	8	63.348	3.100
DS 5-7	MT 5-7	5	7	292	9.5	83.05	8.8
DS 6-7	MT 6-7	6	7	292	9.5	83.05	5.8



CODE		SSD01			SSD02			SSD03		
ØD RANGE		M1			M2			M3		
ABOVE	UPTO	b	t1	t2	b	t1	t2	b	t1	t2
2.9	3.5		20	25						
3.5	4.0									
4.0	4.5			26						
4.5	5.5									
5.0	6.5		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				5.3	28	37	5.3	28	37
11	13				6.3		39	6.3		39
13	15							7.4	32	44
15	18							8.4		46
L		3.5			5			5		



CODE		SST01			SST02			SST03		
ØD RANGE		M1			M2			M3		
ABOVE	UPTO	b	t1	t2	b	t1	t2	b	t1	t2
3.0	3.35	2.6	18	22						
3.35	3.75	2.9								
3.75	4.25	3.3	19	24						
4.25	4.75	3.7								
4.75	5.30	4.2		25						
5.30	6.00	4.7			4.7	19	25			
6.00	6.70	5.2			5.2	22	28			
6.70	7.5	5.8	22	28	5.8					
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
L		3.5			5			5		

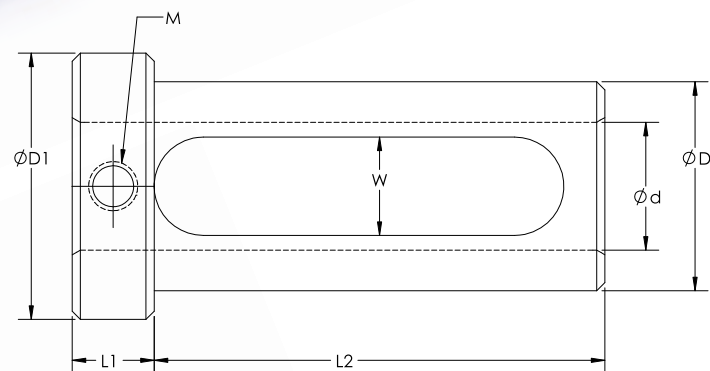
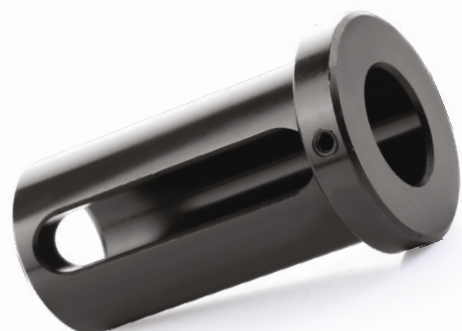


FIG - 1

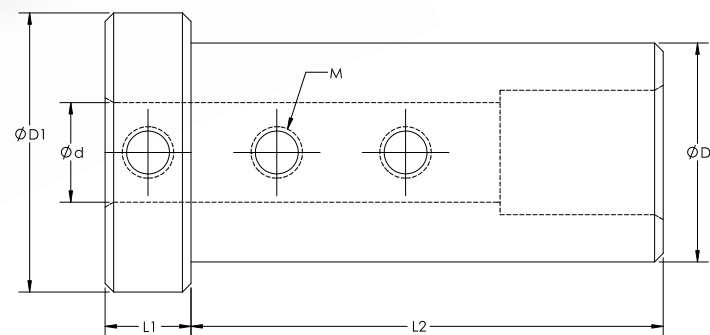
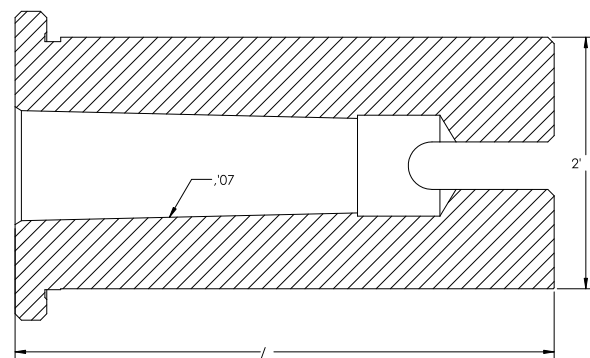
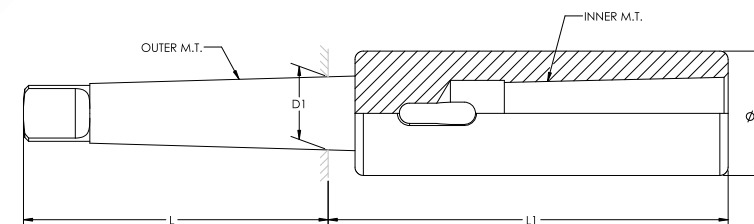


FIG - 2

CODE	SIZE	ØD	Ød	ØD1	W	L1	L2	M	FIG.
TS16 08	16x8	16	8	22	-	10	55	M6	2
TS16 10	16x10	16	10	22	-	10	55	M6	2
TS20 08	20x8	20	8	26	-	10	55	M6	2
TS20 10	20x10	20	10	26	-	10	55	M6	2
TS20 12	20x12	20	12	26	-	10	55	M6	2
TS25 08	25x8	25	8	32	-	10	55	M6	2
TS25 10	25x10	25	10	32	-	10	55	M6	2
TS25 12	25x12	25	12	32	-	10	55	M6	2
TS25 16	25x16	25	16	32	12	10	55	M6	1
TS32 08	32x8	32	8	39	-	10	55	M6	2
TS32 10	32x10	32	10	39	-	10	55	M6	2
TS32 12	32x12	32	12	39	-	10	55	M6	2
TS32 16	32x16	32	16	39	12	10	55	M6	1
TS32 20	32x20	32	20	39	12	10	55	M6	1
TS32 25	32x25	32	25	39	12	10	55	M6	1
TS40 08	40x8	40	8	48	-	10	80	M6	2
TS40 10	40x10	40	10	48	-	10	80	M6	2
TS40 12	40x12	40	12	48	-	10	80	M6	2
TS40 16	40x16	40	16	48	12	10	80	M6	1
TS40 20	40x20	40	20	48	12	10	80	M6	1
TS40 25	40x25	40	25	48	12	10	80	M6	1
TS40 32	40x32	40	32	48	12	10	80	M6	1
TS50 08	50x8	50	8	58	-	10	85	M6	2
TS50 10	50x10	50	10	58	-	10	85	M6	2
TS50 12	50x12	50	12	58	-	10	85	M6	2
TS50 16	50x16	50	16	58	12	10	85	M6	1
TS50 20	50x20	50	20	58	12	10	85	M6	1
TS50 25	50x25	50	25	58	12	10	85	M6	1
TS50 32	50x32	50	32	58	12	10	85	M6	1
TS50 40	50x40	50	40	58	12	10	85	M6	1

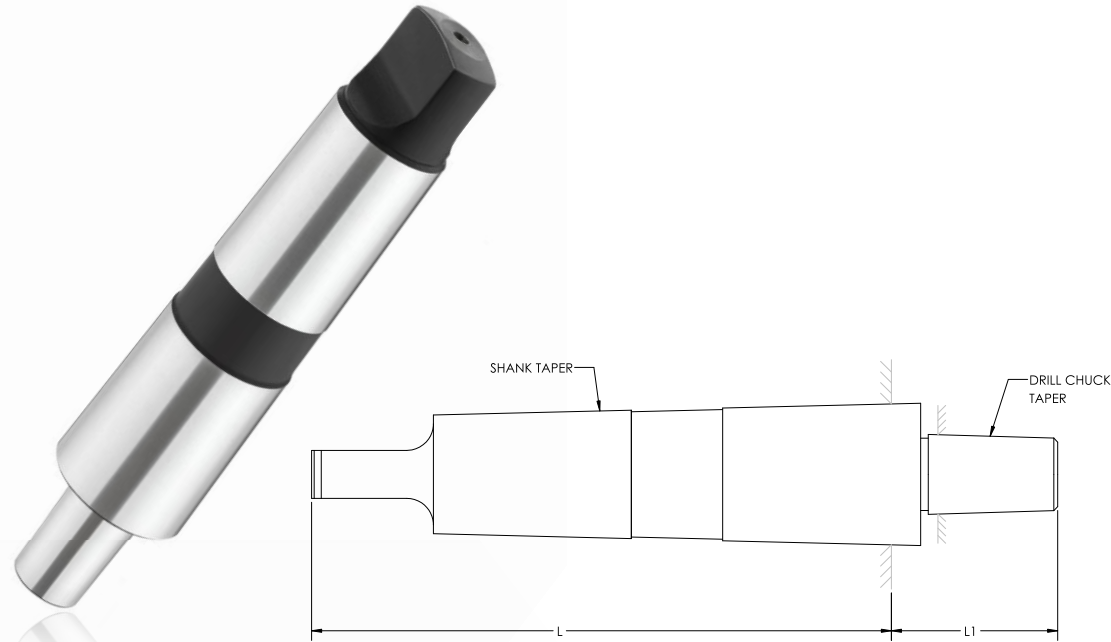


CODE	OD	ID(MT)	LENGTH
TS25 MT1	Ø25	MT-1	70
TS25 MT2	Ø25	MT-2	80
TS32 MT1	Ø32	MT-1	80
TS32 MT2	Ø32	MT-2	85
TS32 MT3	Ø32	MT-3	100
TS40 MT1	Ø40	MT-1	85
TS40 MT2.	Ø40	MT-2	85
TS40 MT3	Ø40	MT-3	90
TS40 MT4	Ø40	MT-4	120
TS50 MT1	Ø50	MT-1	90
TS50 MT2	Ø50	MT-2	90
TS50 MT3	Ø50	MT-3	96
TS50 MT4	Ø50	MT-4	120
TS50 MT5	Ø50	MT-5	150



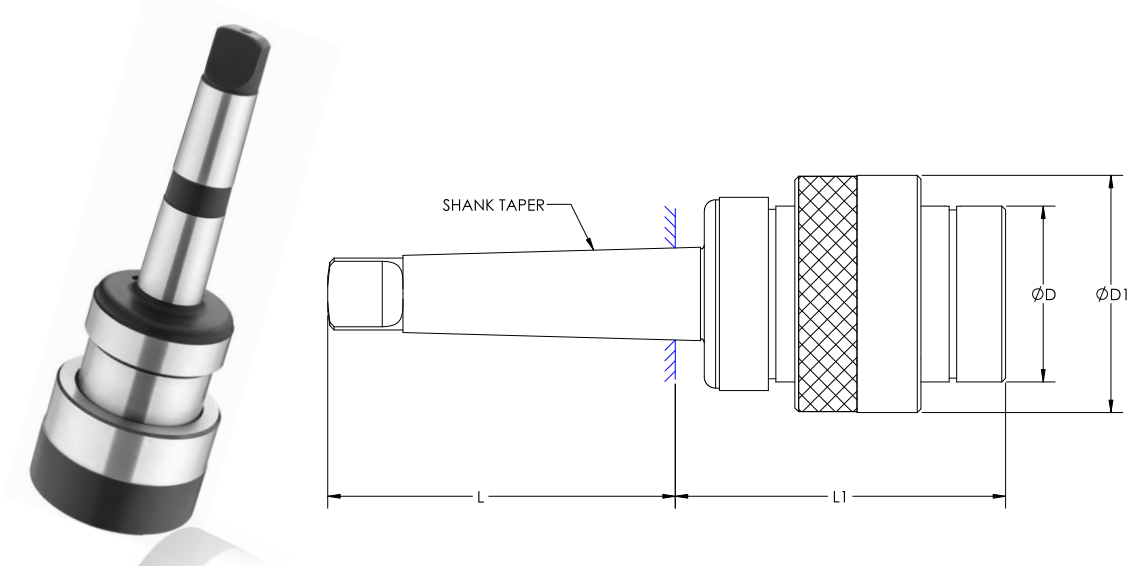
CODE	MODEL NO	OUTER M.T.	INNER M.T.	ØD	ØD1	L	L1	WEIGHT KG.
ES 1-1	1-1	1	1	20	12.065	62	83	0.225
ES 1-2	1-2	1	2	30	12.065	62	98	0.460
ES 2-1	2-1	2	1	20	17.780	75	85	0.310
ES 2-2	2-2	2	2	30	17.780	75	100	0.535
ES 2-3	2-3	2	3	36	17.780	75	121	0.800
ES 3-1	3-1	3	1	20	23.825	94	79	0.475
ES 3-2	3-2	3	2	30	23.825	94	100	0.740
ES 3-3	3-3	3	3	36	23.825	94	121	0.985
ES 3-4	3-4	3	4	48	23.825	94	146	1.690
ES 4-1	4-1	4	1	20	31.267	117.5	82.5	0.805
ES 4-2	4-2	4	2	30	31.267	117.5	97.5	1.060
ES 4-3	4-3	4	3	36	31.267	117.5	122.5	1.315
ES 4-4	4-4	4	4	48	31.267	117.5	147.5	2.095
ES 4-5	4-5	4	5	63	31.267	117.5	182.5	3.500
ES 5-1	5-1	5	1	20	44.399	149.5	82.5	1.800
ES 5-2	5-2	5	2	30	44.399	149.5	97.5	1.990
ES 5-3	5-3	5	3	36	44.399	149.5	118.5	2.275
ES 5-4	5-4	5	4	48	44.399	149.5	150.5	3.300
ES 5-5	5-5	5	5	63	44.399	149.5	185.5	4.800
ES 5-6	5-6	5	6	83	44.399	149.5	247.5	8.100
ES 6-2	6-2	6	2	30	63.348	210	99	5.200
ES 6-3	6-3	6	3	36	63.348	210	120	6.000
ES 6-4	6-4	6	4	48	63.348	210	145	6.300
ES 6-5	6-5	6	5	61	63.348	210	180	7.500

DRILL CHUCK ARBOUR



CODE	MODEL NO	SHANK TAPER	DRILL CHUCK TAPER	L	L1	WEIGHT KG.
DCA01 JT1	1/4" (J)	MT-1	JT-1	62	24	0.062
DCA01 JT2	3/8" (J)	MT-1	JT-2	62	33	0.085
DCA01 JT6	1/2" (J)	MT-1	JT-6	62	32	0.095
DCA02 JT1	1/4" (J)	MT-2	JT-1	75	25	0.155
DCA02 JT2	3/8" (J)	MT-2	JT-2	75	32	0.155
DCA02 JT3	1/2" (J)	MT-2	JT-6	75	33	0.21
DCA02 JT6	3/8" (J)	MT-2	JT-3	75	41	0.21
DCA03 JT3	1/2" (J)	MT-3	JT-6	94	33	0.317
DCA03 JT6	3/8" (J)	MT-3	JT-3	94	41	0.36
DCA04 JT3	1/2" (J)	MT-4	JT-6	117.5	34.5	0.635
DCA04 JT6	3/8" (J)	MT-4	JT-3	117.5	42.5	0.68
DCA05 JT3	1/2" (J)	MT-5	JT-6	149.5	34.5	1.645
DCA05 JT6	3/8" (J)	MT-5	JT-3	149.5	42.5	1.69

QUICK CHANGE CHUCK



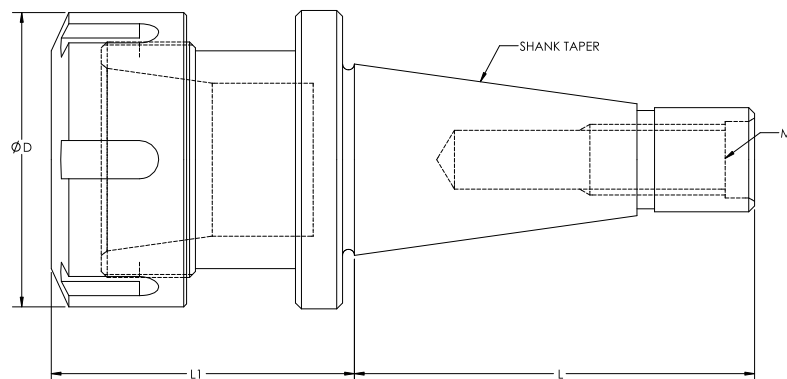
CODE	MODEL NO.	L	L1	BORE SIZE	ØD	ØD1	SUITABLE FOR COLLETS / FR	WEIGHT KG.
QCC2	Q.C.C. MT-2	75	75	26	36	48	CO- 21,22 / FR-21,22	0.73
QCC3	Q.C.C. MT-3	94	86	34	46	61	CO-31, 32, 33 / FR- 31, 32, 33	1.4
QCC4	Q.C.C. MT-4	117.5	97.5	46	62	85	CO-41,42,43,44 / FR-41,42,43,44	2.9
QCC5	Q.C.C. MT-5	149.5	122.5	60	80	104	CO-51,52,53,54,55 / FR-51,52,53,54,55	9.1



CODE	SIZE
QCCC 01	CO - 21
QCCC 02	CO - 22
QCCC 03	CO - 31
QCCC 04	CO - 32
QCCC 05	CO - 33

QCCC 06	CO - 41
QCCC 07	CO - 42
QCCC 08	CO - 43
QCCC 09	CO - 44
QCCC 10	CO - 52
QCCC 11	CO - 53
QCCC 12	CO - 54
QCCC 13	CO - 55

COLLET ADAPTOR 'E' TYPE ISO TAPER



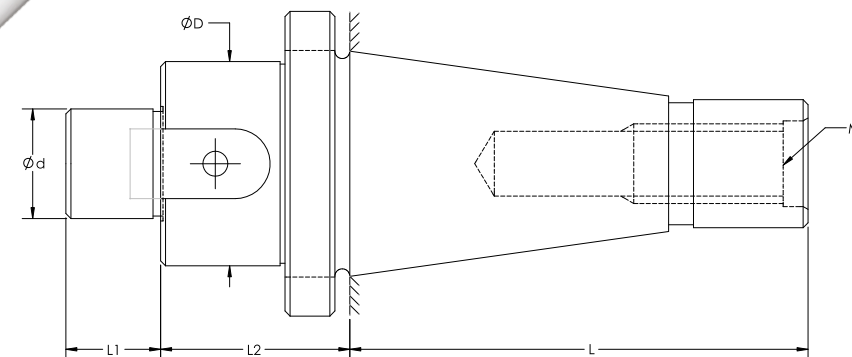
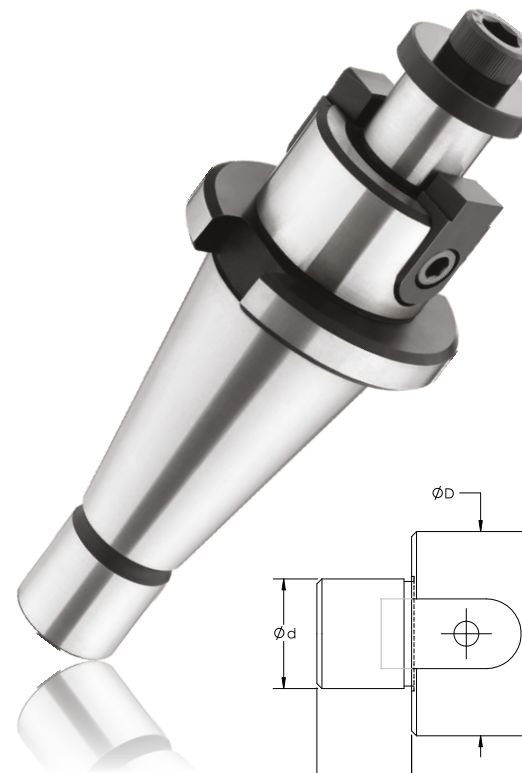
COLLET ADAPTOR 'E' TYPE ISO TAPER

CODE	MODEL	SHANK TAPER	SUITABLE COLLET	L	L1	ØD	M
CCA30 E40	ISO-30 E-40	ISO-30	E-40	68.4	90	65	M12
CCA40 E40	ISO-40 E-40	ISO-40	E-40	93.4	55	65	M16
CCA50 E40	ISO-50 E-40	ISO-50	E-40	126.8	55	65	M24
CCA40 E45	ISO-40 E-45	ISO-40	E-45	93.4	70	71	M16
CCA50 E45	ISO-50 E-45	ISO-50	E-45	126.8	70	74	M24

COLLET ADAPTOR 'ER' TYPE ISO TAPER

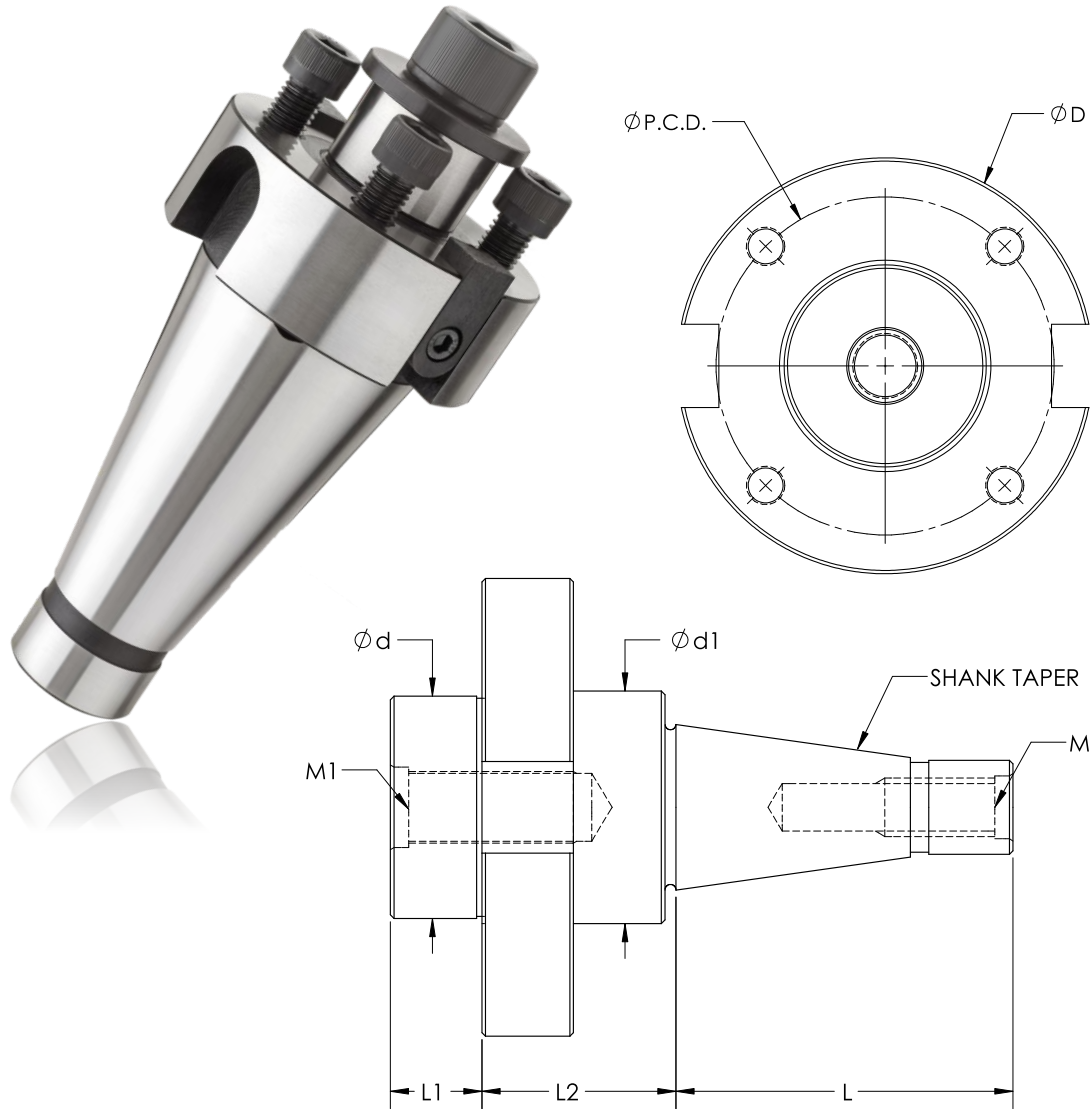
CODE	MODEL	SHANK TAPER	SUITABLE COLLET	L	L1	ØD	M
CCA30 ER32	ISO-30 ER-32	ISO-30	E-32	68.4	50	50	M12
CCA30 ER40	ISO-30 ER-40	ISO-30	E-40	68.4	70	63	M12
CCA40 ER32	ISO-40 ER-32	ISO-40	E-32	93.4	50	50	M16
CCA40 ER40	ISO-40 ER-40	ISO-40	E-40	93.4	70	63	M16
CCA50 ER32	ISO-50 ER-32	ISO-50	E-32	126.8	50	50	M24
CCA50 ER40	ISO-40 ER-40	ISO-50	E-40	126.8	70	63	M24

STUB MILLING ARBOUR (ISO TAPER)



CODE	SHANK TAPER	SIZE	Ød	ØD	L1	L2	L	M
SMA30 16	ISO-30	16	16	32	17	34.6	68.4	M-12
SMA30 22	ISO-30	22	22	40	19	34.6	68.4	M-12
SMA30 27	ISO-30	27	27	48	21	34.6	68.4	M-12
SMA40 16	ISO-40	16	16	32	17	34.6	93.4	M-16
SMA40 22	ISO-40	22	22	40	19	34.6	93.4	M-16
SMA40 27	ISO-40	27	27	48	21	34.6	93.4	M-16
SMA40 32	ISO-40	32	32	58	24	51.6	93.4	M-16
SMA50 16	ISO-50	16	16	32	17	40.2	126.8	M-24
SMA50 22	ISO-50	22	22	40	19	40.2	126.8	M-24
SMA50 27	ISO-50	27	27	48	21	55.2	126.8	M-24
SMA50 32	ISO-50	32	32	58	24	55.2	126.8	M-24
SMA50 40	ISO-50	40	40	70	27	55.2	126.8	M-24

STUB MILLING ARBOUR FLANGE TYPE (ISO TAPER)



CODE	SHANK TAPER	SIZE	Ød	Ød1	ØD	ØPCD	L1	L2	L	M1	M
SMA40 40FL	ISO-40	40	40	63	100	66.7	25	50	95	M12	M20
SMA40 60FL	ISO-40	60	60	63	125	101.6	25	50	95	M16	M21
SMA50 40FL	ISO-50	40	40	100	110	66.7	25	55	130	M12	M22
SMA50 60FL	ISO-50	60	60	100	125	101.6	25	53	130	M16	M23

SIDE LOCK HOLDER (ISO TAPER)

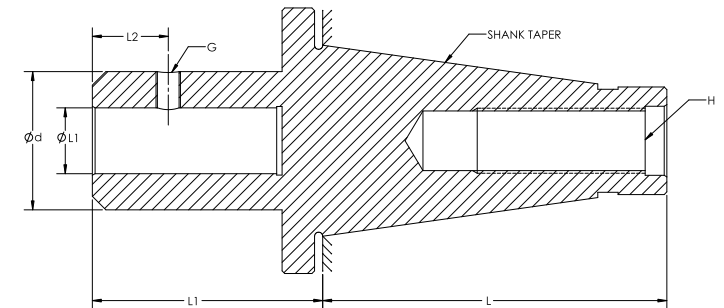


FIG - 1

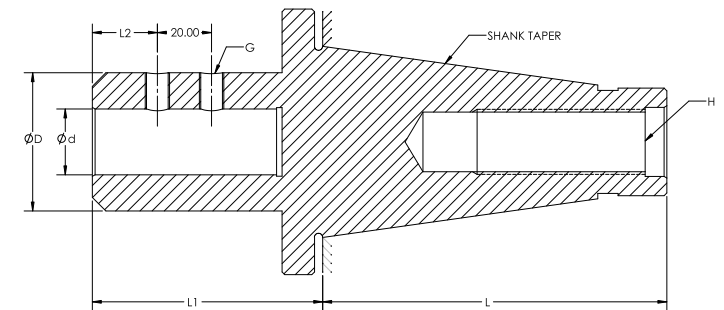


FIG - 2

CODE	SHANK TAPER	SIZE	Ød	ØD	L	L1	L2	G	H	FIG
SLH40 12	ISO-40	12	12	35	93.4	59.5	16	M10	M16	1
SLH40 16	ISO-40	16	16	40	93.4	59.5	23	M10	M16	1
SLH40 20	ISO-40	20	20	50	93.4	64.5	25	M12	M16	2
SLH40 25	ISO-40	25	25	50	93.4	76.5	25	M12	M16	2
SLH40 32	ISO-40	32	32	60	93.4	81.5	30	M16	M16	2
SLH40 40	ISO-40	40	40	60	93.4	96.5	30	M16	M16	2
SLH50 12	ISO-50	12	12	35	126.8	63	16	M10	M24	1
SLH50 16	ISO-50	16	16	40	126.8	63	23	M10	M24	1
SLH50 20	ISO-50	20	20	50	126.8	68	25	M12	M24	2
SLH50 25	ISO-50	25	25	50	126.8	80	25	M12	M24	2
SLH50 32	ISO-50	32	32	60	126.8	80	30	M16	M24	2
SLH50 40	ISO-50	40	40	60	126.8	80	30	M16	M24	2

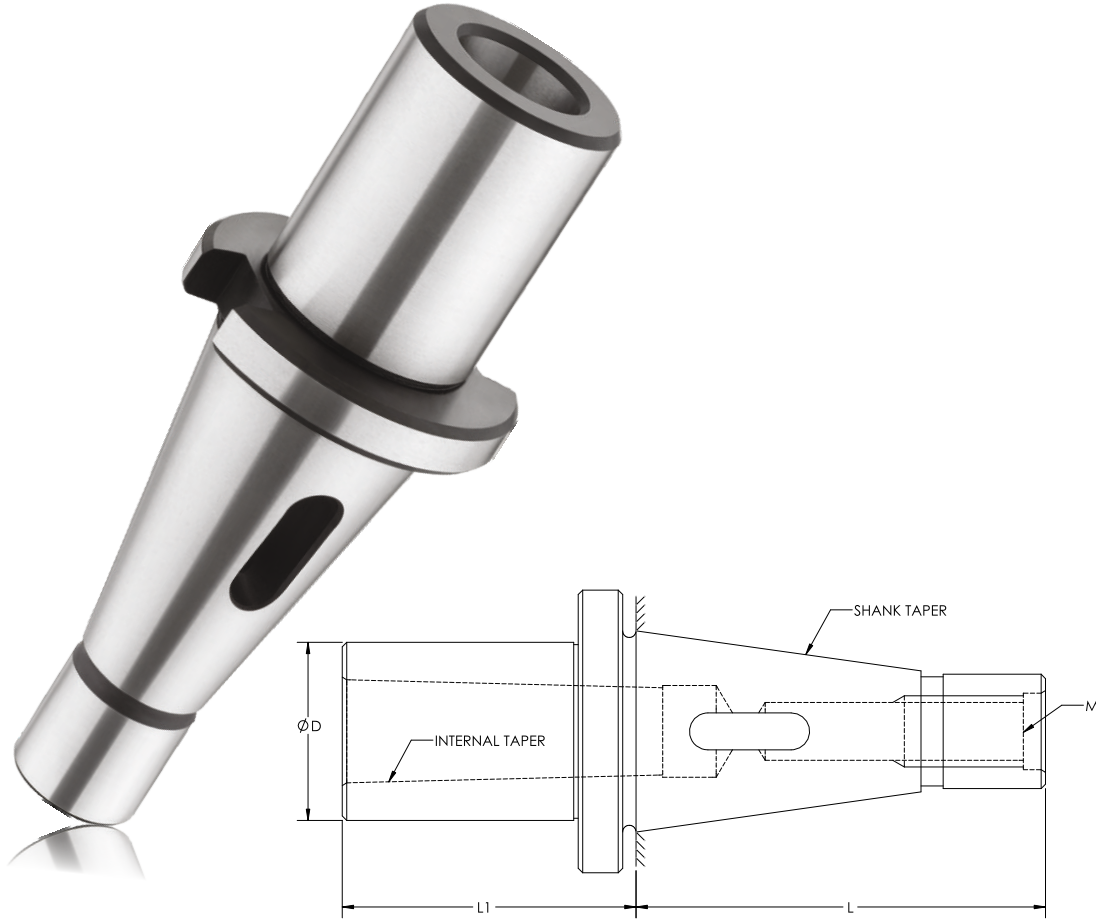


FIG - 1

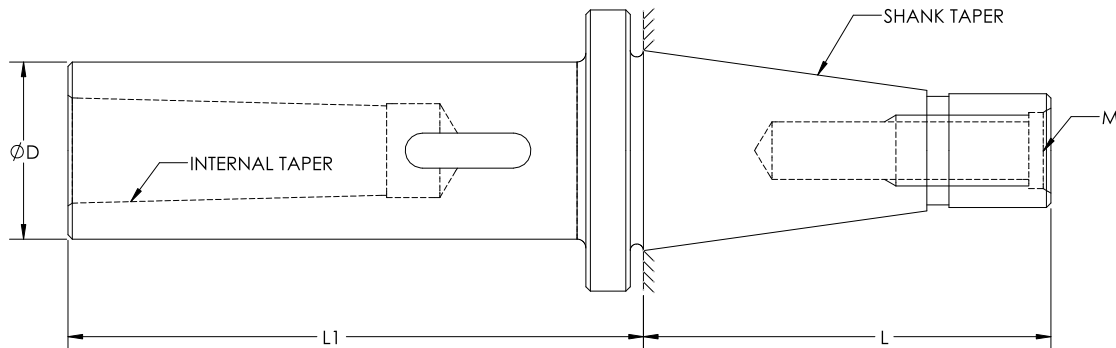
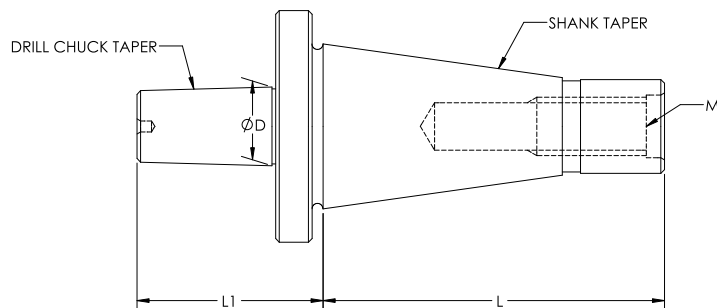


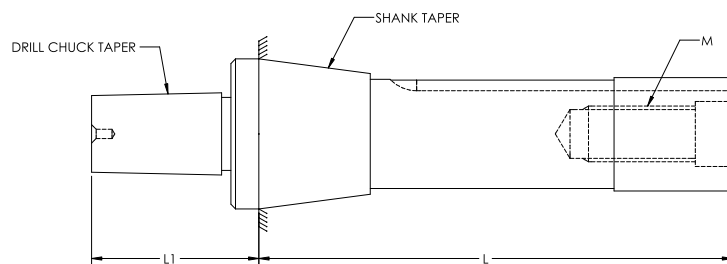
FIG - 2

CODE	SHANK TAPER	MODEL	INTERNAL TAPER	ØD	L1	L	M	FIG
MRS30 01	ISO-30	MT-1 A	MT-1	25	68.4	50	M12	1
MRS30 01E	ISO-30	MT-1 A (EXTENDED)	MT-1	25	68.4	92	M12	2
MRS30 02	ISO-30	MT-2 A	MT-2	32	68.4	50	M12	1
MRS30 02E	ISO-30	MT-2 A (EXTENDED)	MT-2	32	68.4	105	M12	2
MRS30 03	ISO-30	MT-3 A	MT-3	40	68.4	70	M12	1
MRS30 03E	ISO-30	MT-3 A (EXTENDED)	MT-3	40	68.4	125	M12	2
MRS40 01	ISO-40	MT-1 A	MT-1	25	93.4	50	M16	1
MRS40 01E	ISO-40	MT-1 A (EXTENDED)	MT-1	25	93.4	95	M16	2
MRS40 02	ISO-40	MT-2 A	MT-2	32	93.4	50	M16	1
MRS40 02E	ISO-40	MT-2 A (EXTENDED)	MT-2	32	93.4	108	M16	2
MRS40 03	ISO-40	MT-3 A	MT-3	40	93.4	65	M16	1
MRS40 03E	ISO-40	MT-3 A (EXTENDED)	MT-3	40	93.4	130	M16	2
MRS40 04	ISO-40	MT-4 A	MT-4	28	93.4	95	M16	1
MRS40 04E	ISO-40	MT-4 A (EXTENDED)	MT-4	28	93.4	155	M16	2
MRS50 01	ISO-50	MT-1 A	MT-1	25	126.8	50	M24	1
MRS50 01E	ISO-50	MT-1 A (EXTENDED)	MT-1	25	126.8	100	M24	2
MRS50 02	ISO-50	MT-2 A	MT-2	32	126.8	60	M24	1
MRS50 02E	ISO-50	MT-2 A (EXTENDED)	MT-2	32	126.8	113	M24	2
MRS50 03	ISO-50	MT-3 A	MT-3	40	126.8	65	M24	1
MRS50 03E	ISO-50	MT-3 A (EXTENDED)	MT-3	40	126.8	135	M24	2
MRS50 04	ISO-50	MT-4 A	MT-4	48	126.8	70	M24	1
MRS50 04E	ISO-50	MT-4 A (EXTENDED)	MT-4	48	126.8	160	M24	2
MRS50 05	ISO-50	MT-5 A	MT-5	63	126.8	105	M24	1
MRS50 05E	ISO-50	MT-5 A (EXTENDED)	MT-5	63	126.8	190	M24	2

DRILL CHUCK ARBOUR - ISO / - M1TR/R8 TAPER

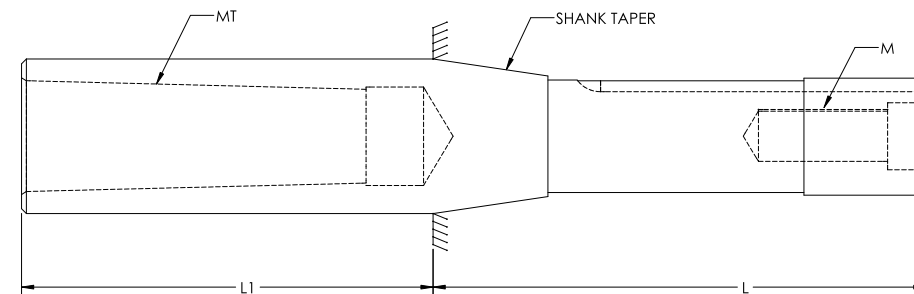


CODE	SHANK TAPER	DRILL CHUCK TAPER	D	L1	L	M
DCA30 JT2	ISO 30	JT-2	14.2	35	68.4	M12
DCA30 JT6	ISO 30	JT-6	17.17	38	68.4	M12
DCA40 JT2	ISO 30	JT-2	14.2	35	93.4	M16
DCA40 JT3	ISO 30	JT-3	20.6	45	93.4	M16
DCA40 JT6	ISO 30	JT-6	17.17	38	93.4	M16



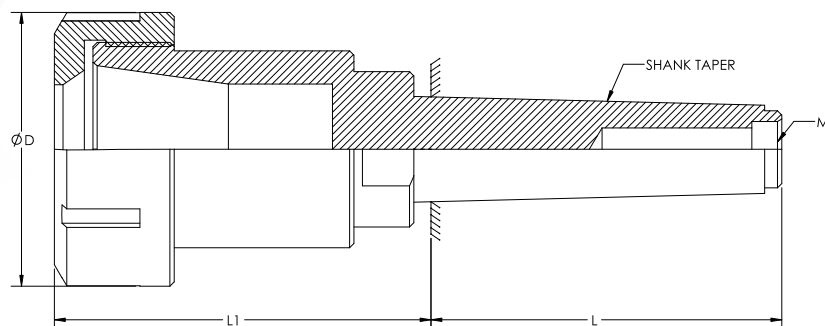
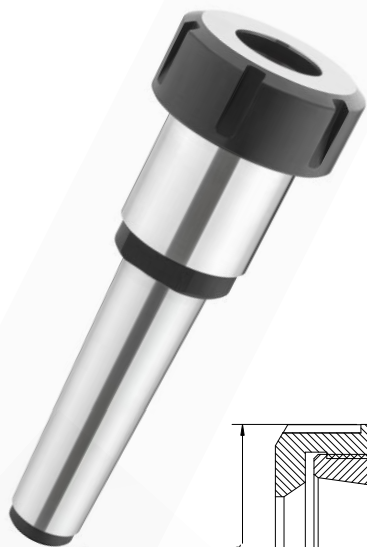
SHANK TAPER	DRILLCHUCK TAPER	L1	L	M
M1TR/R8	JT-6	36	102.3	M12

MILLING REDUCTION SOCKET - M1TR/R8 TAPER



SIZE	SHANK TAPER	MT	ØD	L1	L
M1TR/R8 X MT-1	M1TR/R8	MT-1	32	8.7	102.3
M1TR/R8 X MT-2	M1TR/R8	MT-2	32	8.7	102.3
M1TR/R8 X MT-3	M1TR/R8	MT-3	32	86.7	102.3

COLLET ADAPTOR 'E' & 'ER' TYPE MORSE TAPER

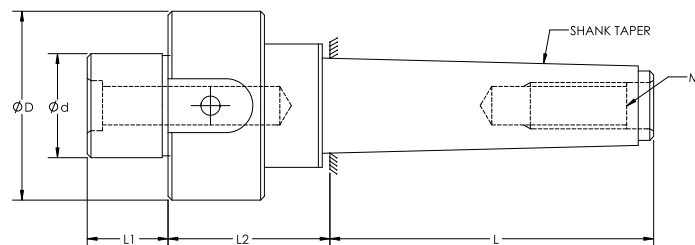


CODE	MODEL	SHANK TAPER	SUITABLE COLLET	ØD	L1	L	M
CCA MT2 E40D	MT-2 X E40	MT-2 DRAWBOLT	E-40	65	90	64	M10
CCA MT3 E40D	MT-3 X E40	MT-3 DRAWBOLT	E-40	65	87	84	M12
CCA MT4 E40D	MT-4 X E40	MT-4 DRAWBOLT	E-40	65	91.5	102.5	M16
CCA MT5 E40D	MT-5 X E40	MT-5 DRAWBOLT	E-40	65	91.5	129.5	M20
CCA MT6 E40D	MT-6 X E40	MT-6 DRAWBOLT	E-40	65	93	182	M24
CCA MT6 E45D	MT-6 X E45	MT-6 DRAWBOLT	E-45	75	93	182	M24
CCA MT3 E40T	MT-3 X E40	MT-3 TANG	E-40	65	87	89	-
CCA MT4 E40T	MT-4 X E40	MT-4 TANG	E-40	65	85	128	-
CCA MT5 E40T	MT-5 X E40	MT-5 TANG	E-40	65	80	156	-
CCA MT5 E45T	MT-5 X E45	MT-5 TANG	E-45	75	85	156	-
CCA MT6 E40T	MT-6 X E40	MT-6 TANG	E-40	65	85	217	-
CCA MT6 E45T	MT-6 X E45	MT-6 TANG	E-45	75	85	217	-

COLLET ADAPTOR 'E' & 'ER' TYPE MORSE TAPER

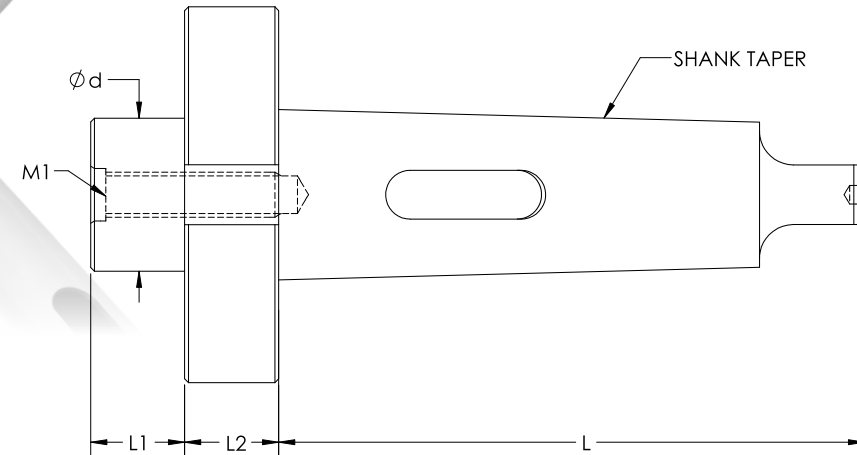
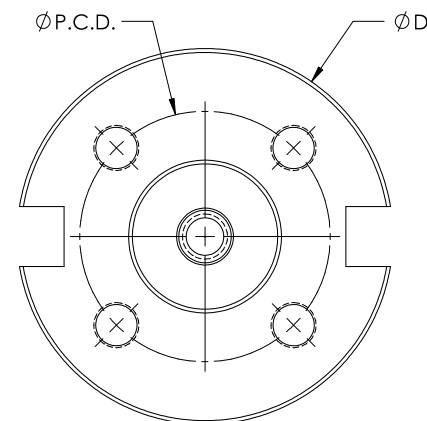
CODE	MODEL	SHANK TAPER	SUITABLE COLLET	ØD	L1	L	M
CCA MT2 ER16D	MT-2 ER-16	MT-2 DRAWBOLT	E-16	28	39	64	M10
CCA MT2 ER20D	MT-2 ER-20	MT-2 DRAWBOLT	E-20	34	46	64	M10
CCA MT2 ER25D	MT-2 ER-25	MT-2 DRAWBOLT	E-25	42	46	64	M10
CCA MT2 ER32D	MT-2 ER-32	MT-2 DRAWBOLT	E-32	50	59	64	M10
CCA MT2 ER40D	MT-2 ER-40	MT-2 DRAWBOLT	E-40	63	90	64	M10
CCA MT3 ER16D	MT-3 ER-16	MT-3 DRAWBOLT	E-16	28	36	84	M12
CCA MT3 ER20D	MT-3 ER-20	MT-3 DRAWBOLT	E-20	34	4	84	M12
CCA MT3 ER25D	MT-3 ER-25	MT-3 DRAWBOLT	E-25	42	42	84	M12
CCA MT3 ER32D	MT-3 ER-32	MT-3 DRAWBOLT	E-32	50	56	84	M12
CCA MT3 ER40D	MT-3 ER-40	MT-3 DRAWBOLT	E-40	63	87	84	M12
CCA MT4 ER16D	MT-4 ER-16	MT-4 DRAWBOLT	E-16	28	40.5	102.5	M16
CCA MT4 ER20D	MT-4 ER-20	MT-4 DRAWBOLT	E-20	34	47.5	102.5	M16
CCA MT4 ER25D	MT-4 ER-25	MT-4 DRAWBOLT	E-25	42	46.5	102.5	M16
CCA MT4 ER32D	MT-4 ER-32	MT-4 DRAWBOLT	E-32	50	70.5	102.5	M16
CCA MT4 ER40D	MT-4 ER-40	MT-4 DRAWBOLT	E-40	63	91.5	102.5	M16
CCA MT5 ER16D	MT-5 ER-16	MT-5 DRAWBOLT	E-16	28	40.5	129.5	M20
CCA MT5 ER20D	MT-5 ER-20	MT-5 DRAWBOLT	E-20	34	47.5	129.5	M20
CCA MT5 ER25D	MT-5 ER-25	MT-5 DRAWBOLT	E-25	42	46.5	129.5	M20
CCA MT5 ER32D	MT-5 ER-32	MT-5 DRAWBOLT	E-32	50	70.5	129.5	M20
CCA MT5 ER40D	MT-5 ER-40	MT-5 DRAWBOLT	E-40	63	91.5	129.5	M20
CCA MT2 ER16T	MT-2 ER-16	MT-2 TANG	E-16	28	42	75	-
CCA MT2 ER20T	MT-2 ER-20	MT-2 TANG	E-20	34	49	75	-
CCA MT2 ER25T	MT-2 ER-25	MT-2 TANG	E-25	42	48	75	-
CCA MT2 ER32T	MT-2 ER-32	MT-2 TANG	E-32	50	62	75	-
CCA MT2 ER40T	MT-2 ER-40	MT-2 TANG	E-40	63	93	75	-
CCA MT3 ER16T	MT-3 ER-16	MT-3 TANG	E-16	28	39	94	-
CCA MT3 ER20T	MT-3 ER-20	MT-3 TANG	E-20	34	47	94	-
CCA MT3 ER25T	MT-3 ER-25	MT-3 TANG	E-25	42	46	94	-
CCA MT3 ER32T	MT-3 ER-32	MT-3 TANG	E-32	50	59	94	-
CCA MT3 ER40T	MT-3 ER-40	MT-3 TANG	E-40	63	90	94	-
CCA MT4 ER16T	MT-4 ER-16	MT-4 TANG	E-16	28	40.5	117.5	-
CCA MT4 ER20T	MT-4 ER-20	MT-4 TANG	E-20	34	47.5	117.5	-
CCA MT4 ER25T	MT-4 ER-25	MT-4 TANG	E-25	42	46.5	117.5	-
CCA MT4 ER32T	MT-4 ER-32	MT-4 TANG	E-32	50	61.5	117.5	-
CCA MT4 ER40T	MT-4 ER-40	MT-4 TANG	E-40	63	91.5	117.5	-

STUB MILLING ARBOUR (MORSE TAPER)



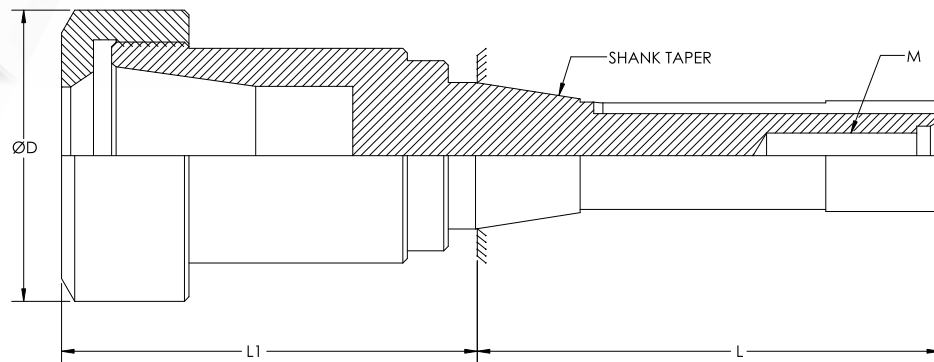
CODE	SHANK TAPER	SIZE	Ød	ØD	L1	L2	L	M
SMA MT-3D 16	MT-3 DRAWNBOLT	16	16	32	17	42	84	M-12
SMA MT-3D 22	MT-3 DRAWNBOLT	22	22	40	19	42	84	M-12
SMA MT-3D 27	MT-3 DRAWNBOLT	27	27	48	21	42	84	M-12
SMA MT-4D 16	MT-4 DRAWNBOLT	16	16	32	17	46.5	102.5	M-16
SMA MT-4D 22	MT-4 DRAWNBOLT	22	22	40	19	46.5	102.5	M-16
SMA MT-4D 27	MT-4 DRAWNBOLT	27	27	48	21	46.5	102.5	M-16
SMA MT-4D 32	MT-4 DRAWNBOLT	32	32	58	24	46.5	102.5	M-16
SMA MT-4D 40	MT-4 DRAWNBOLT	40	40	70	27	46.5	102.5	M-16
SMA MT-5D 16	MT-5 DRAWNBOLT	16	16	32	17	46.5	129.5	M-20
SMA MT-5D 22	MT-5 DRAWNBOLT	22	22	40	19	46.5	129.5	M-20
SMA MT-5D 27	MT-5 DRAWNBOLT	27	27	48	21	46.5	129.5	M-20
SMA MT-5D 32	MT-5 DRAWNBOLT	32	32	58	24	46.5	129.5	M-20
SMA MT-5D 40	MT-5 DRAWNBOLT	40	40	70	27	46.5	129.5	M-20
SMA MT-4T 22	MT-4TANG & COTTER	22	22	41	19	-	117.5	-
SMA MT-4T 27	MT-4TANG & COTTER	27	27	48	21	50.5	117.5	-
SMA MT-4T 32	MT-4TANG & COTTER	32	32	56	24	65.5	117.5	-
SMA MT-4T 40	MT-4TANG & COTTER	40	40	70	27	65.5	117.5	-
SMA MT-5T 16	MT-5TANG & COTTER	16	16	32	17	31.5	149.5	-
SMA MT-5T 22	MT-5TANG & COTTER	22	22	41	19	31.5	149.5	-
SMA MT-5T 27	MT-5TANG & COTTER	27	27	48	21	63.5	149.5	-
SMA MT-5T 32	MT-5TANG & COTTER	32	32	58	24	50.5	149.5	-
SMA MT-5T 40	MT-5TANG & COTTER	40	40	70	27	56.5	149.5	-
SMA MT-6T 27	MT-6TANG & COTTER	27	27	48	27	47	210	-
SMA MT-6T 32	MT-6TANG & COTTER	32	32	58	24	47	210	-
SMA MT-6T 40	MT-6TANG & COTTER	40	40	70	24	62	210	-
SMA R8 16	M1TR/R8	16	16	32	17	29.7	102.3	M-12
SMA R8 22	M1TR/R8	22	22	40	19	30.7	102.3	M-12
SMA R8 27	M1TR/R8	27	27	48	21	30.7	102.3	M-12

STUB MILLING ARBOUR FLANGE TYPE (MORSE TAPER)



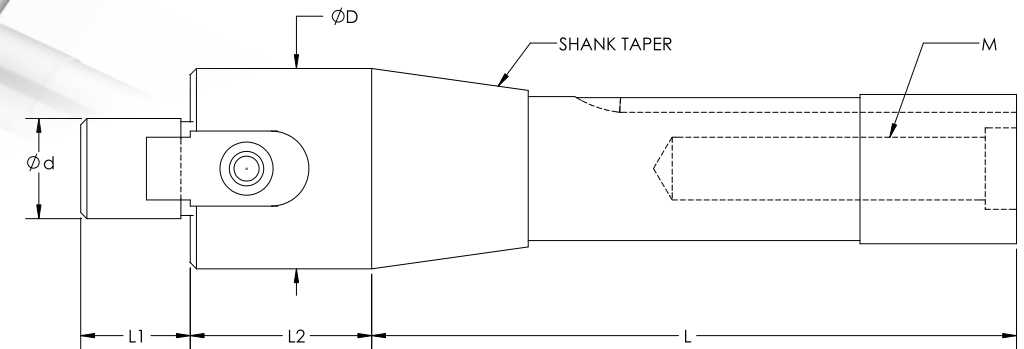
STUB MILLING ARBOUR - FLANGE TYPE (MORSE TAPER)									
CODE	SHANK TAPER	SIZE	Ød	ØD	ØPCD	L1	L2	L	M1
SMA MT-5 40FL	MT-5	40	40	100	66.7	25	25	156	M12
SMA MT-5 60FL	MT-5	60	60	125	101.6	25	25	156	M16
SMA MT-6 40FL	MT-6	40	40	100	66.7	25	25	217	M12
SMA MT-6 60FL	MT-6	60	60	125	101.6	25	25	217	M16

COLLET ADAPTOR - M1TR/R8 TAPER

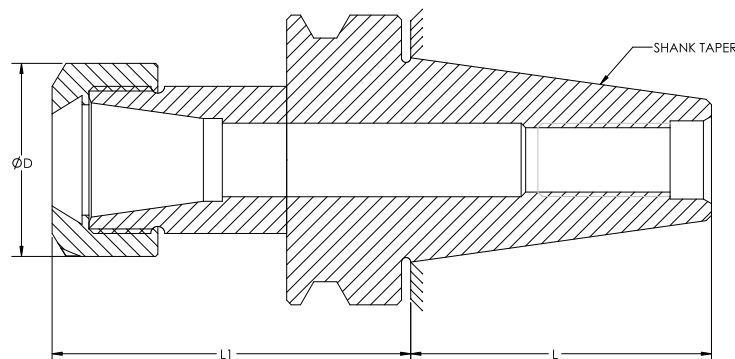


SHANK TAPER	SUITABLE COLLET	ØD	L1	L	M
M1TR/R8	ER-32	50	72	102.3	M12
M1TR/R8	ER-40	63	83	102.3	M12
M1TR/R8	E-40	65	88	102.3	M12

STUB MILLING ARBOUR (M1TR/R8 TYPE)

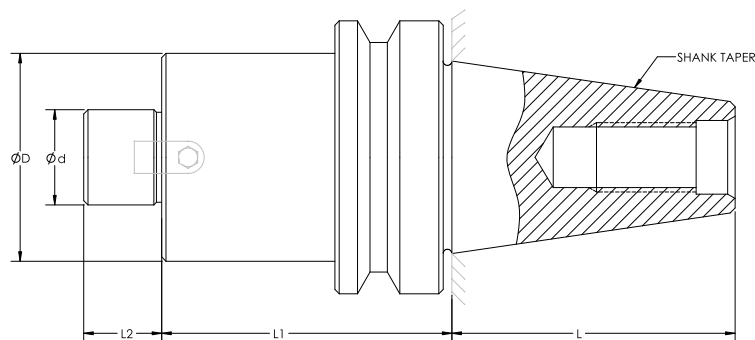


SHANK TAPER	SIZE	Ød	ØD	L1	L2	L	M
M1TR/R8	16	16	32	17	30.7	102.3	M12
M1TR/R8	22	22	40	19	30.7	102.3	M12
M1TR/R8	27	27	48	21	30.7	102.3	M12



CODE	SHANK TAPER	SIZE	SUITABLE COLLET	L1	L	ØD	NUT
CCA BT30 ER11 70	BT-30	ER11 X 70	ER11	70	48.4	19	A (Hex. Type)
CCA BT30 ER11 100	BT-30	ER11 X 100	ER11	100	48.4	19	A (Hex. Type)
CCA BT30 ER16 70	BT-30	ER16 X 70	ER16	70	48.4	28	A (Hex. Type)
CCA BT30 ER16 100	BT-30	ER16 X 100	ER16	100	48.4	28	A (Hex. Type)
CCA BT30 ER20 70	BT-30	ER20 X 70	ER20	70	48.4	34	A (Hex. Type)
CCA BT30 ER20 100	BT-30	ER20 X 100	ER20	100	48.4	34	A (Hex. Type)
CCA BT30 ER25 70	BT-30	ER25 X 70	ER25	70	48.4	42	UM (Round type)
CCA BT30 ER25 100	BT-30	ER25 X 100	ER25	100	48.4	42	UM (Round type)
CCA BT30 ER32 70	BT-30	ER32 X 70	ER32	70	48.4	50	UM (Round type)
CCA BT30 ER32 100	BT-30	ER32 X 100	ER32	100	48.4	50	UM (Round type)
CCA BT30 ER40 80	BT-30	ER40 X 80	ER40	80	48.4	63	UM (Round type)
CCA BT30 ER40 100	BT-30	ER40 X 100	ER40	100	48.4	63	UM (Round type)
CCA BT40 ER11A 70	BT-40	ER11A X 70	ER11	70	65.4	19	A (Hex. Type)
CCA BT40 ER11A 100	BT-40	ER11A X 100	ER11	100	65.4	19	A (Hex. Type)
CCA BT40 ER11A 150	BT-40	ER11A X 150	ER11	150	65.4	19	A (Hex. Type)
CCA BT40 ER16A 70	BT-40	ER16A/M X 70	ER16	70	65.4	28	A/M (Hex/Mini type)
CCA BT40 ER16A 100	BT-40	ER16A/M X 100	ER16	100	65.4	28	A/M (Hex/Mini type)
CCA BT40 ER16 120	BT-40	ER16 X 120	ER16	120	65.4	28	A (Hex. Type)
CCA BT40 ER16A 150	BT-40	ER16A/M X 150	ER16	150	65.4	28	A/M (Hex/Mini type)
CCA BT40 ER16 200	BT-40	ER16 X 200	ER16	200	65.4	28	A (Hex. Type)
CCA BT40 ER20 70	BT-40	ER20 X 70	ER20	70	65.4	34	A (Hex. Type)
CCA BT40 ER20 100	BT-40	ER20 X 100	ER20	100	65.4	34	A (Hex. Type)

CODE	SHANK TAPER	SIZE	SUITABLE COLLET	L1	L	ØD	NUT
CCA BT40 ER20 120	BT-40	ER20 X 120	ER20	120	65.4	34	A (Hex. Type)
CCA BT40 ER20 150	BT-40	ER20 X 150	ER20	150	65.4	34	A (Hex. Type)
CCA BT40 ER25 70	BT-40	ER25 X 70	ER25	70	65.4	42	UM (Round type)
CCA BT40 ER25 100	BT-40	ER25 X 100	ER25	100	65.4	42	UM (Round type)
CCA BT40 ER25 120	BT-40	ER25 X 120	ER25	120	65.4	42	UM (Round type)
CCA BT40 ER25 150	BT-40	ER25 X 150	ER25	150	65.4	42	UM (Round type)
CCA BT40 ER25 200	BT-40	ER25 X 200	ER25	200	65.4	42	UM (Round type)
CCA BT40 ER32 70	BT-40	ER32 X 70	ER32	70	65.4	50	UM (Round type)
CCA BT40 ER32 100	BT-40	ER32 X 100	ER32	100	65.4	50	UM (Round type)
CCA BT40 ER32 120	BT-40	ER32 X 120	ER32	120	65.4	50	UM (Round type)
CCA BT40 ER32 150	BT-40	ER32 X 150	ER32	150	65.4	50	UM (Round type)
CCA BT40 ER32 200	BT-40	ER32 X 200	ER32	200	65.4	50	UM (Round type)
CCA BT40 ER32 250	BT-40	ER32 X 250	ER32	250	65.4	50	UM (Round type)
CCA BT40 ER32 300	BT-40	ER32 X 300	ER32	300	65.4	50	UM (Round type)
CCA BT40 ER40 80	BT-40	ER40 X 80	ER40	80	65.4	63	UM (Round type)
CCA BT40 ER40 100	BT-40	ER40 X 100	ER40	100	65.4	63	UM (Round type)
CCA BT40 ER40 120	BT-40	ER40 X 120	ER40	120	65.4	63	UM (Round type)
CCA BT40 ER40 150	BT-40	ER40 X 150	ER40	150	65.4	63	UM (Round type)
CCA BT40 ER40 200	BT-40	ER40 X 200	ER40	200	65.4	63	UM (Round type)
CCA BT40 ER40 250	BT-40	ER40 X 250	ER40	250	65.4	63	UM (Round type)
CCA BT50 ER16 100	BT-50	ER16 X 100	ER16	100	101.8	28	A (Hex. Type)
CCA BT50 ER16 150	BT-50	ER16 X 150	ER16	150	101.8	28	A (Hex. Type)
CCA BT50 ER20 100	BT-50	ER20 X 100	ER20	100	101.8	34	A (Hex. Type)
CCA BT50 ER20 150	BT-50	ER20 X 150	ER20	150	101.8	34	A (Hex. Type)
CCA BT50 ER25 100	BT-50	ER25 X 100	ER25	100	101.8	42	UM (Round type)
CCA BT50 ER25 150	BT-50	ER25 X 150	ER25	150	101.8	42	UM (Round type)
CCA BT50 ER25 200	BT-50	ER25 X 200	ER25	200	101.8	42	UM (Round type)
CCA BT50 ER25 250	BT-50	ER25 X 250	ER25	250	101.8	42	UM (Round type)
CCA BT50 ER32 100	BT-50	ER32 X 100	ER32	100	101.8	50	UM (Round type)
CCA BT50 ER32 150	BT-50	ER32 X 150	ER32	150	101.8	50	UM (Round type)
CCA BT50 ER32 200	BT-50	ER32 X 200	ER32	200	101.8	50	UM (Round type)
CCA BT50 ER32 250	BT-50	ER32 X 250	ER32	250	101.8	50	UM (Round type)
CCA BT50 ER40 100	BT-50	ER40 X 100	ER40	100	101.8	63	UM (Round type)
CCA BT50 ER40 150	BT-50	ER40 X 150	ER40	150	101.8	63	UM (Round type)
CCA BT50 ER40 200	BT-50	ER40 X 200	ER40	200	101.8	63	UM (Round type)
CCA BT50 ER40 250	BT-50	ER40 X 250	ER40	250	101.8	63	UM (Round type)



CODE	SHANK TAPER	SIZE	Ød	ØD	L1	L2	L
SMA BT30 16 40	BT-30	16 X 40	16	35	40	17	48.4
SMA BT30 16 80	BT-30	16 X 80	16	35	80	17	48.4
SMA BT30 22 45	BT-30	22 X 45	22	45	45	19	48.4
SMA BT30 22 90	BT-30	22 X 90	22	45	90	19	48.4
SMA BT30 27 45	BT-30	27 X 45	27	52	45	21	48.4
SMA BT30 27 90	BT-30	27 X 90	27	52	90	21	48.4
SMA BT30 32 90	BT-30	32 X 90	32	58	90	21	48.4
SMA BT40 16 60	BT-40	16 X 60	16	35	60	17	65.4
SMA BT40 16 100	BT-40	16 X 100	16	35	100	17	65.4
SMA BT40 16 150	BT-40	16 X 150	16	35	150	17	65.4
SMA BT40 16 200	BT-40	16 X 200	16	35	200	17	65.4
SMA BT40 22 50	BT-40	22 X 50	22	45	50	19	65.4
SMA BT40 22 100	BT-40	22 X 100	22	45	100	19	65.4
SMA BT40 22 150	BT-40	22 X 150	22	45	150	19	65.4
SMA BT40 22 200	BT-40	22 X 200	22	45	200	19	65.4
SMA BT40 22 250	BT-40	22 X 250	22	45	250	19	65.4
SMA BT40 22 300	BT-40	22 X 300	22	45	300	19	65.4
SMA BT40 22 350	BT-40	22 X 350	22	45	350	19	65.4
SMA BT40 27 60	BT-40	27 X 60	27	52	60	21	65.4
SMA BT40 27 100	BT-40	27 X 100	27	52	100	21	65.4
SMA BT40 27 150	BT-40	27 X 150	27	52	150	21	65.4
SMA BT40 27 200	BT-40	27 X 200	27	52	200	21	65.4

CODE	SHANK TAPER	SIZE	Ød	ØD	L1	L2	L
SMA BT40 27 250	BT-40	27 X 250	27	52	250	21	65.4
SMA BT40 27 300	BT-40	27 X 300	27	52	300	21	65.4
SMA BT40 32 70	BT-40	32 X 70	32	58	70	24	65.4
SMA BT40 32 100	BT-40	32 X 100	32	58	100	24	65.4
SMA BT40 32 150	BT-40	32 X 150	32	58	150	24	65.4
SMA BT40 40 70	BT-40	40 X 70	40	63	70	27	65.4
SMA BT40 40 100	BT-40	40 X 100	40	63	100	27	65.4
SMA BT40 40 150	BT-40	40 X 150	40	63	150	27	65.4
SMA BT50 16 60	BT-50	16 X 60	16	35	60	17	101.8
SMA BT50 16 100	BT-50	16 X 100	16	35	100	17	101.8
SMA BT50 16 150	BT-50	16 X 150	16	35	150	17	101.8
SMA BT50 16 200	BT-50	16 X 200	16	35	200	17	101.8
SMA BT50 22 60	BT-50	22 X 60	22	45	60	19	101.8
SMA BT50 22 100	BT-50	22 X 100	22	45	100	19	101.8
SMA BT50 22 150	BT-50	22 X 150	22	45	150	19	101.8
SMA BT50 22 200	BT-50	22 X 200	22	45	200	19	101.8
SMA BT50 22 250	BT-50	22 X 250	22	45	250	19	101.8
SMA BT50 22 300	BT-50	22 X 300	22	45	300	19	101.8
SMA BT50 27 60	BT-50	27 X 60	27	52	60	21	101.8
SMA BT50 27 100	BT-50	27 X 100	27	52	100	21	101.8
SMA BT50 27 150	BT-50	27 X 150	27	52	150	21	101.8
SMA BT50 27 200	BT-50	27 X 200	27	52	200	21	101.8
SMA BT50 27 250	BT-50	27 X 250	27	52	250	21	101.8
SMA BT50 27 300	BT-50	27 X 300	27	52	300	21	101.8
SMA BT50 32 75	BT-50	32 X 75	32	58	75	24	101.8
SMA BT50 32 100	BT-50	32 X 100	32	58	100	24	101.8
SMA BT50 32 150	BT-50	32 X 150	32	58	150	24	101.8
SMA BT50 32 200	BT-50	32 X 200	32	58	200	24	101.8
SMA BT50 32 250	BT-50	32 X 250	32	58	250	24	101.8
SMA BT50 40 70	BT-50	40 X 70	40	70	70	27	101.8
SMA BT50 40 100	BT-50	40 X 100	40	70	100	27	101.8
SMA BT50 40 150	BT-50	40 X 150	40	70	150	27	101.8
SMA BT50 40 200	BT-50	40 X 200	40	70	200	27	101.8
SMA BT50 40 250	BT-50	40 X 250	40	70	250	27	101.8

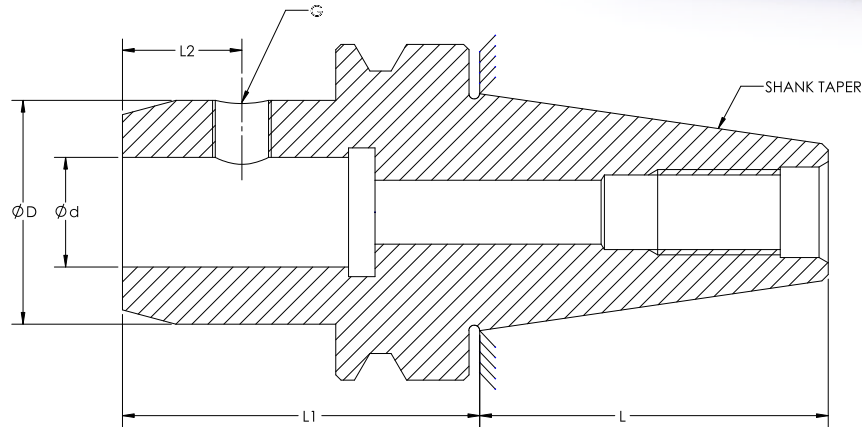


FIG - 1

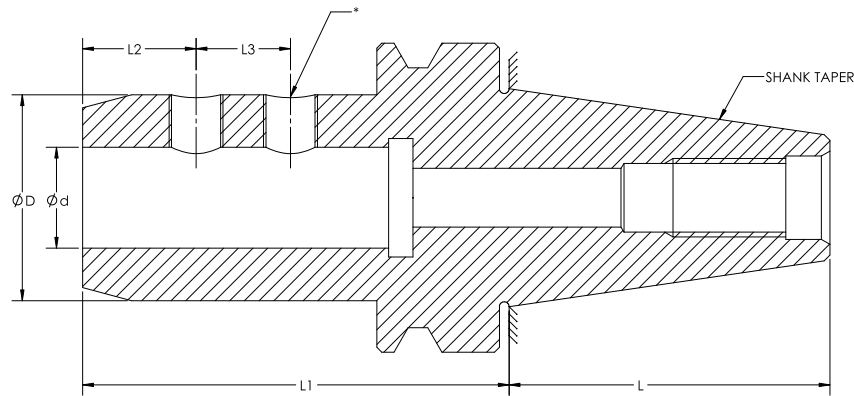
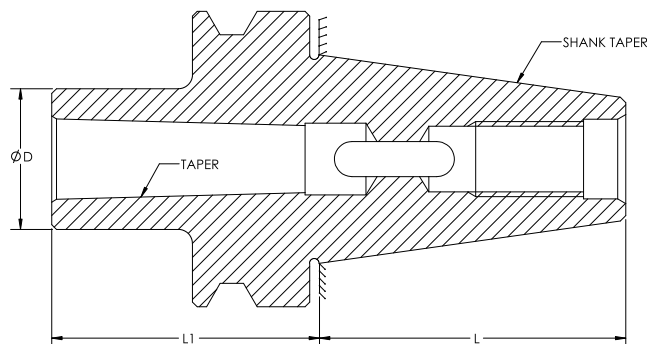


FIG - 2

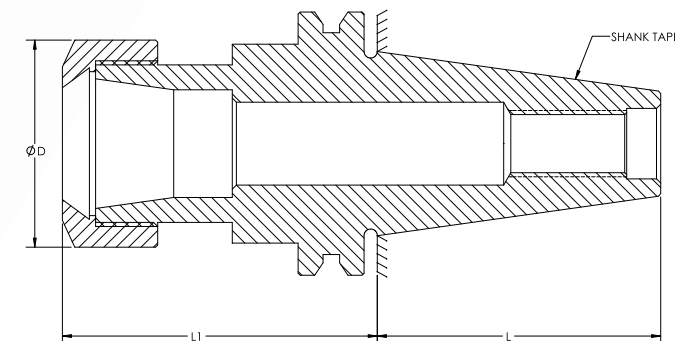
CODE	SHANK TAPER	SIZE	Ød	ØD	L	L1	L2	L3	G	FIG.
SLH BT30 12 L01	BT-30	12 X 50	12	42	48.4	50	22	-	M10	1
SLH BT30 16 L01	BT-30	16 X 63	16	48	48.4	63	23	-	M16	1
SLH BT30 20 L01	BT-30	20 X 63	20	52	48.4	63	24	-	M16	1
SLH BT30 25 L01	BT-30	25 X 80	25	65	48.4	80	24	-	M12	1
SLH BT30 32 L01	BT-30	32 X 90	32	65	48.4	90	24	-	M16	1
SLH BT40 12 L01	BT-40	12 X 63	12	42	65.4	63	22	-	M10	1
SLH BT40 16 L01	BT-40	16 X 63	16	48	65.4	63	23	-	M12	1
SLH BT40 16 L01	BT-40	16 X 120	16	48	65.4	120	23	-	M12	1
SLH BT40 20 L01	BT-40	20 X 63	20	52	65.4	63	24	-	M16	1
SLH BT40 20 L02	BT-40	20 X 120	20	52	65.4	120	24	-	M16	1
SLH BT40 25 L01	BT-40	25 X 90	25	50	65.4	90	24	25	M12	2
SLH BT40 25 L02	BT-40	25 X 150	25	62	65.4	150	24	25	M12	2
SLH BT40 32 L01	BT-40	32 X 100	32	62	65.4	100	24	28	M16	2
SLH BT40 40 L02	BT-40	32 X 150	32	62	65.4	150	24	28	M16	2
SLH BT40 40 L01	BT-40	40 X 100	40	62	65.4	100	25	28	M16	2
SLH BT40 40 L02	BT-40	40 X 150	40	62	65.4	150	25	28	M16	2
SLH BT50 16 L01	BT-50	16 X 85	16	48	101.8	85	24	-	M12	1
SLH BT50 16 L02	BT-50	16 X 150	16	48	101.8	150	24	-	M12	1
SLH BT50 16 L03	BT-50	16 X 200	16	48	101.8	200	24	-	M12	1
SLH BT50 20 L01	BT-50	20 X 100	20	52	101.8	100	24	-	M16	1
SLH BT50 20 L02	BT-50	20 X 150	20	52	101.8	150	24	-	M16	1
SLH BT50 20 L03	BT-50	20 X 200	20	52	101.8	200	24	-	M16	1
SLH BT50 25 L01	BT-50	25 X 100	25	62	101.8	100	24	25	M16	2
SLH BT50 25 L02	BT-50	25 X 150	25	62	101.8	150	24	25	M16	2
SLH BT50 25 L03	BT-50	25 X 200	25	62	101.8	200	24	25	M16	2
SLH BT50 32 L01	BT-50	32 X 105	32	62	101.8	105	24	28	M16	2
SLH BT50 32 L02	BT-50	32 X 150	32	62	101.8	150	24	28	M16	2
SLH BT50 32 L03	BT-50	32 X 200	32	62	101.8	200	24	28	M16	2
SLH BT50 40 L01	BT-50	40 X 105	40	62	101.8	105	25	28	M16	2
SLH BT50 40 L02	BT-50	40 X 150	40	62	101.8	150	25	28	M16	2
SLH BT50 40 L03	BT-50	40 X 200	40	62	101.8	200	25	28	M16	2
SLH BT50 50 L01	BT-50	50 X 100	50	62	101.8	100	25	28	M16	2

MILLING REDUCTION SOCKET - BT TAPER



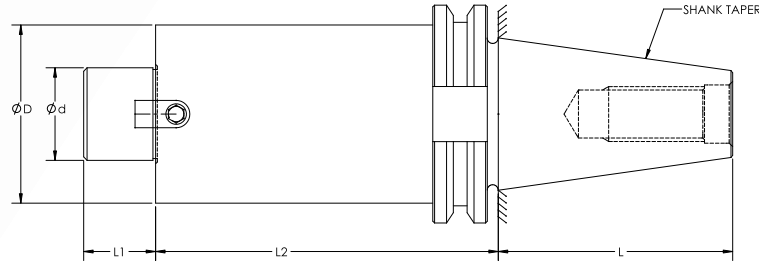
CODE	SHANK TAPER	SIZE	TAPER	L1	L	ØD
MRS BT30 M1 45	BT-30	MT-1 X 45	MT-1	45	48.4	25
MRS BT30 M2 60	BT-30	MT-2 X 60	MT-2	60	48.4	32
MRS BT30 M3 75	BT-30	MT-3 X 75	MT-3	75	48.4	40
MRS BT40 M1 45	BT-40	MT-1 X 45	MT-1	45	65.4	25
MRS BT40 M2 60	BT-40	MT-2 X 60	MT-2	60	65.4	32
MRS BT40 M3 75	BT-40	MT-3 X 75	MT-3	75	65.4	40
MRS BT40 M4 95	BT-40	MT-4 X 95	MT-4	95	65.4	48
MRS BT50 M1 45	BT-50	MT-1 X 45	MT-1	45	101.8	25
MRS BT50 M1 120	BT-50	MT-1 X 120	MT-1	120	101.8	25
MRS BT50 M2 45	BT-50	MT-2 X 45	MT-2	45	101.8	32
MRS BT50 M2 135	BT-50	MT-2 X 135	MT-2	135	101.8	32
MRS BT50 M3 60	BT-50	MT-3 X 60	MT-3	60	101.8	40
MRS BT50 M3 155	BT-50	MT-3 X 155	MT-3	155	101.8	40
MRS BT50 M4 85	BT-50	MT-4 X 85	MT-4	85	101.8	48
MRS BT50 M4 180	BT-50	MT-4 X 180	MT-4	180	101.8	48
MRS BT50 M5 100	BT-50	MT-5 X 100	MT-5	200	101.8	48
MRS BT50 M5 200	BT-50	MT-5 X 220	MT-5	220	101.8	48

COLLET CHUCK ADAPTOR - SK TAPER



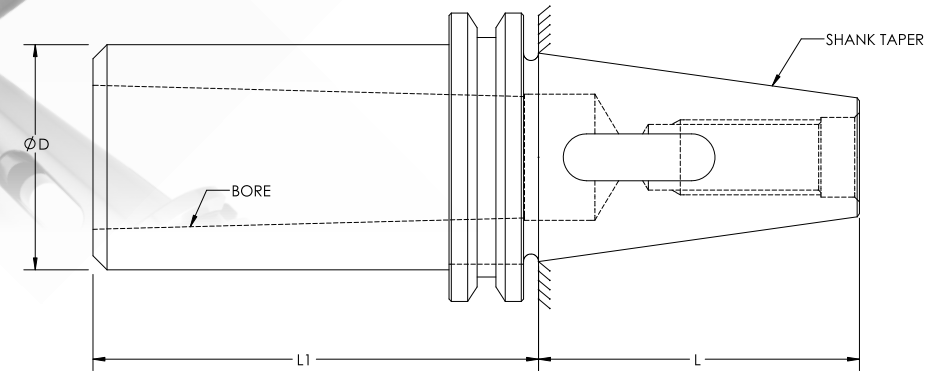
CODE	MODEL NAME	SHANK TAPER	SUITABLE COLLET	L1	L	ØD	NUT
CCA SK40 ER16 70	ER16 X 70	SK40	ER16	70	68.4	28	A (HEX. TYPE)
CCA SK40 ER16 100	ER16 X 100	SK40	ER16	100	68.4	28	A (HEX. TYPE)
CCA SK40 ER16 150	ER16 X 150	SK40	ER16	150	68.4	28	A (HEX. TYPE)
CCA SK40 ER20 70	ER20 X 70	SK40	ER20	70	68.4	34	A (HEX. TYPE)
CCA SK40 ER20 100	ER20 X 100	SK40	ER20	100	68.4	34	A (HEX. TYPE)
CCA SK40 ER20 150	ER20 X 150	SK40	ER20	150	68.4	34	A (HEX. TYPE)
CCA SK40 ER25 70	ER25 X 70	SK40	ER25	70	68.4	42	UM (ROUND TYPE)
CCA SK40 ER25 100	ER25 X 100	SK40	ER25	100	68.4	42	UM (ROUND TYPE)
CCA SK40 ER25 150	ER25 X 150	SK40	ER25	150	68.4	42	UM (ROUND TYPE)
CCA SK40 ER32 70	ER32 X 70	SK40	ER32	70	68.4	50	UM (ROUND TYPE)
CCA SK40 ER32 100	ER32 X 100	SK40	ER32	100	68.4	50	UM (ROUND TYPE)
CCA SK40 ER32 150	ER32 X 150	SK40	ER32	150	68.4	50	UM (ROUND TYPE)
CCA SK40 ER40 70	ER40 X 70	SK40	ER40	70	68.4	63	UM (ROUND TYPE)
CCA SK40 ER40 100	ER40 X 100	SK40	ER40	100	68.4	63	UM (ROUND TYPE)
CCA SK40 ER40 150	ER40 X 150	SK40	ER40	150	68.4	63	UM (ROUND TYPE)
CCA SK50 ER16 100	ER16 X 100	SK50	ER16	100	101.75	28	A (HEX. TYPE)
CCA SK50 ER16 150	ER16 X 150	SK50	ER16	150	101.75	28	A (HEX. TYPE)
CCA SK50 ER20 100	ER20 X 100	SK50	ER20	100	101.75	34	A (HEX. TYPE)
CCA SK50 ER20 150	ER20 X 150	SK50	ER20	150	101.75	34	A (HEX. TYPE)
CCA SK50 ER25 100	ER25 X 100	SK50	ER25	100	101.75	42	UM (ROUND TYPE)
CCA SK50 ER25 150	ER25 X 150	SK50	ER25	150	101.75	42	UM (ROUND TYPE)
CCA SK50 ER32 100	ER32 X 100	SK50	ER32	100	101.75	50	UM (ROUND TYPE)
CCA SK50 ER32 150	ER32 X 150	SK50	ER32	150	101.75	50	UM (ROUND TYPE)
CCA SK50 ER40 100	ER40 X 100	SK50	ER40	100	101.75	63	UM (ROUND TYPE)
CCA SK50 ER40 150	ER40 X 150	SK50	ER40	150	101.75	63	UM (ROUND TYPE)

FACE MILL ARBOUR - SK TAPER



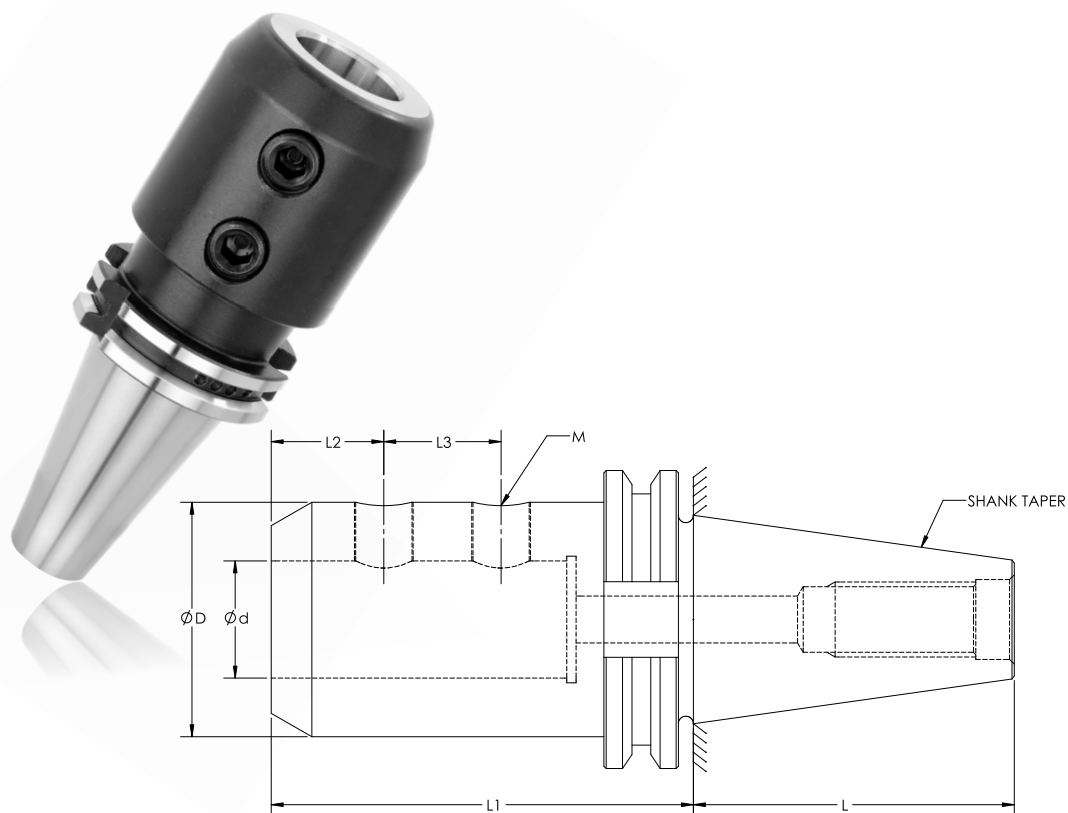
CODE	MODEL NAME	SHANK TAPER	Ød	ØD	L1	L2	L
FMA SK40 22 50	22 X 50	SK40	22	45	19	50	68.4
FMA SK40 22 100	22 X 100	SK40	22	45	19	100	68.4
FMA SK40 22 150	22 X 150	SK40	22	45	19	150	68.4
FMA SK40 27 50	27 X 50	SK40	27	52	21	50	68.4
FMA SK40 27 100	27 X 100	SK40	27	52	21	100	68.4
FMA SK40 27 150	27 X 150	SK40	27	52	21	150	68.4
FMA SK40 32 50	32 X 50	SK40	32	58	24	50	68.4
FMA SK40 32 100	32 X 100	SK40	32	58	24	100	68.4
FMA SK40 32 150	32 X 150	SK40	32	58	24	150	68.4
FMA SK40 40 50	40 X 50	SK40	40	63	27	50	68.4
FMA SK40 40 100	40 X 100	SK40	40	63	27	100	68.4
FMA SK40 40 150	40 X 150	SK40	40	63	27	150	68.4
FMA SK50 22 100	22 X 100	SK50	22	45	19	100	101.75
FMA SK50 22 150	22 X 150	SK50	22	45	19	150	101.75
FMA SK50 22 200	22 X 200	SK50	22	45	19	200	101.75
FMA SK50 27 100	27 X 100	SK50	27	52	21	100	101.75
FMA SK50 27 150	27 X 150	SK50	27	52	21	150	101.75
FMA SK50 27 200	27 X 200	SK50	27	52	21	200	101.75
FMA SK50 32 100	32 X 100	SK50	32	58	24	100	101.75
FMA SK50 32 150	32 X 150	SK50	32	58	24	150	101.75
FMA SK50 50 100	40 X 100	SK50	40	70	27	100	101.75
FMA SK50 50 150	40 X 150	SK50	40	70	27	150	101.75

MILLING REDUCTION SOCKET - SK TAPER



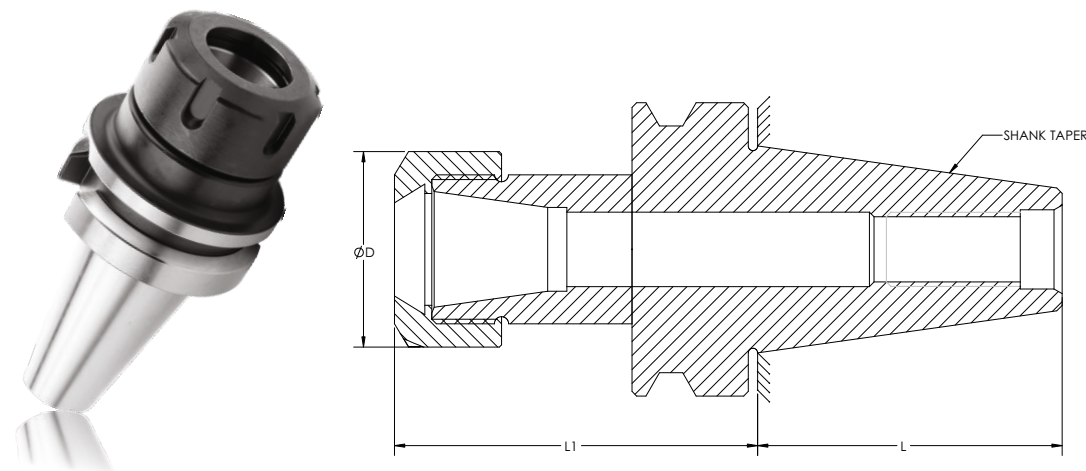
CODE	MODEL NAME	SHANK TAPER	BORE	L1	L	ØD
MRS SK40 M1 45	MT1 X 45	SK40	MT-1	45	68.4	25
MRS SK40 M2 60	MT2 X 60	SK40	MT-2	60	68.4	32
MRS SK40 M3 75	MT3 X 75	SK40	MT-3	75	68.4	40
MRS SK40 M4 95	MT4 X 95	SK40	MT-4	95	68.4	48
MRS SK50 M3 60	MT3 X 60	SK50	MT-3	45	101.75	40
MRS SK50 M4 85	MT4 X 85	SK50	MT-4	45	101.75	48
MRS SK50 M5 100	MT5 X 100	SK50	MT-5	60	101.75	48

SIDE LOCK HOLDER - SK TAPER

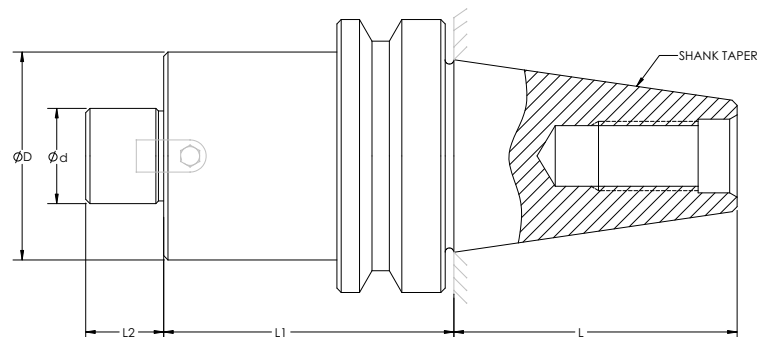


CODE	MODEL NAME	SHANK TAPER	BORE Ød	ØD	L1	L2	L3	L	M
SLA SK40 16 L01	16 X 63	SK40	16	48	63	23	-	68.4	M12
SLA SK40 20 L01	20 X 63	SK40	20	52	63	24	-	68.4	M16
SLA SK40 25 L01	25 X 90	SK40	25	50	90	24	25	68.4	M12
SLA SK40 32 L01	32 X 100	SK40	32	62	100	24	28	68.4	M16
SLA SK40 40 L01	40 X 100	SK40	40	62	100	25	28	68.4	M16
SLA SK50 25 L01	25 X 100	SK50	25	62	100	24	25	101.75	M16
SLA SK50 25 L02	25 X 150	SK50	25	62	150	24	25	101.75	M16
SLA SK50 32 L01	32 X 105	SK50	32	62	105	24	28	101.75	M16
SLA SK50 32 L02	32 X 150	SK50	32	62	150	24	28	101.75	M16
SLA SK50 40 L01	40 X 105	SK50	40	62	105	25	28	101.75	M16
SLA SK50 40 L02	40 X 150	SK50	40	62	150	25	28	101.75	M16

COLLET ADAPTOR TBT TAPER



CODE	SHANK TAPER	SIZE	SUITABLE COLLET	L1	L	ØD	NUT
CCA TBT40 ER16A 70	TBT-40	ER16A/M X 70	ER16	70	65.4	28	A/M (Hex/Mini type)
CCA TBT40 ER16A 100	TBT-40	ER16A/M X 100	ER16	100	65.4	28	A/M (Hex/Mini type)
CCA TBT40 ER16A 150	TBT-40	ER16A/M X 150	ER16	150	65.4	28	A/M (Hex/Mini type)
CCA TBT40 ER20 70	TBT-40	ER20 X 70	ER20	70	65.4	34	A (Hex. Type)
CCA TBT40 ER20 100	TBT-40	ER20 X 100	ER20	100	65.4	34	A (Hex. Type)
CCA TBT40 ER20 150	TBT-40	ER20 X 150	ER20	150	65.4	34	A (Hex. Type)
CCA TBT40 ER25 70	TBT-40	ER25 X 70	ER25	70	65.4	42	UM (Round type)
CCA TBT40 ER25 100	TBT-40	ER25 X 100	ER25	100	65.4	42	UM (Round type)
CCA TBT40 ER25 150	TBT-40	ER25 X 150	ER25	150	65.4	42	UM (Round type)
CCA TBT40 ER32 70	TBT-40	ER32 X 70	ER32	70	65.4	50	UM (Round type)
CCA TBT40 ER32 100	TBT-40	ER32 X 100	ER32	100	65.4	50	UM (Round type)
CCA TBT40 ER32 150	TBT-40	ER32 X 150	E R32	150	65.4	50	UM (Round type)
CCA TBT40 ER40 80	TBT-40	ER40 X 80	ER40	80	65.4	63	UM (Round type)
CCA TBT40 ER40 100	TBT-40	ER40 X 100	ER40	100	65.4	63	UM (Round type)
CCA TBT40 ER40 150	TBT-40	ER40 X 150	ER40	150	65.4	63	UM (Round type)
CCA TBT50 ER16 100	TBT-50	ER16 X 100	ER16	100	101.8	28	A (Hex. Type)
CCA TBT50 ER16 150	TBT-50	ER16 X 150	ER16	150	101.8	28	A (Hex. Type)
CCA TBT50 ER20 100	TBT-50	ER20 X 100	ER20	100	101.8	34	A (Hex. Type)
CCA TBT50 ER20 150	TBT-50	ER20 X 150	ER20	150	101.8	34	A (Hex. Type)
CCA TBT50 ER25 100	TBT-50	ER25 X 100	ER25	100	101.8	42	UM (Round type)
CCA TBT50 ER25 150	TBT-50	ER25 X 150	ER25	150	101.8	42	UM (Round type)
CCA TBT50 ER32 100	TBT-50	ER32 X 100	ER32	100	101.8	50	UM (Round type)
CCA TBT50 ER32 150	TBT-50	ER32 X 150	ER32	150	101.8	50	UM (Round type)
CCA TBT50 ER40 100	TBT-50	ER40 X 100	ER40	100	101.8	63	UM (Round type)
CCA TBT50 ER40 150	TBT-50	ER40 X 150	ER40	150	101.8	63	UM (Round type)



CODE	SHANK TAPER	SIZE	Ød	ØD	L1	L2	L
SMA TBT40 22 50	TBT-40	22 X 50	22	45	50	19	65.4
SMA TBT40 22 100	TBT-40	22 X 100	22	45	100	19	65.4
SMA TBT40 22 150	TBT-40	22 X 150	22	45	150	19	65.4
SMA TBT40 27 60	TBT-40	27 X 60	27	52	60	21	65.4
SMA TBT40 27 100	TBT-40	27 X 100	27	52	100	21	65.4
SMA TBT40 27 150	TBT-40	27 X 150	27	52	150	21	65.4
SMA TBT40 32 70	TBT-40	32 X 70	32	58	70	24	65.4
SMA TBT40 32 100	TBT-40	32 X 100	32	58	100	24	65.4
SMA TBT40 32 150	TBT-40	32 X 150	32	58	150	24	65.4
SMA TBT40 40 70	TBT-40	40 X 70	40	63	70	27	65.4
SMA TBT40 40 100	TBT-40	40 X 100	40	63	100	27	65.4
SMA TBT40 40 150	TBT-40	40 X 150	40	63	150	27	65.4
SMA TBT50 22 100	TBT-50	22 X 100	22	45	100	19	101.8
SMA TBT50 22 150	TBT-50	22 X 150	22	45	150	19	101.8
SMA TBT50 27 60	TBT-50	27 X 60	27	52	60	21	101.8
SMA TBT50 27 100	TBT-50	27 X 100	27	52	100	21	101.8
SMA TBT50 27 150	TBT-50	27 X 150	27	52	150	21	101.8
SMA TBT50 32 75	TBT-50	32 X 75	32	58	75	24	101.8
SMA TBT50 32 100	TBT-50	32 X 100	32	58	100	24	101.8
SMA TBT50 32 150	TBT-50	32 X 150	32	58	150	24	101.8
SMA TBT50 40 70	TBT-50	40 X 70	40	70	70	27	101.8
SMA TBT50 40 100	TBT-50	40 X 100	40	70	100	27	101.8
SMA TBT50 40 150	TBT-50	40 X 150	40	70	150	27	101.8

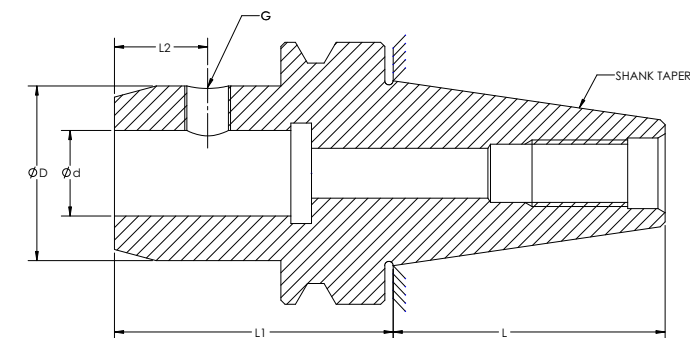


FIG - 1

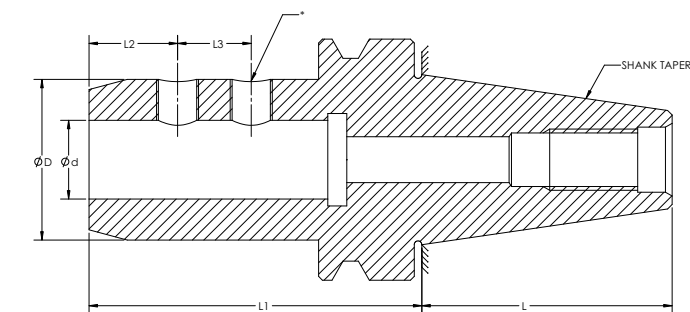
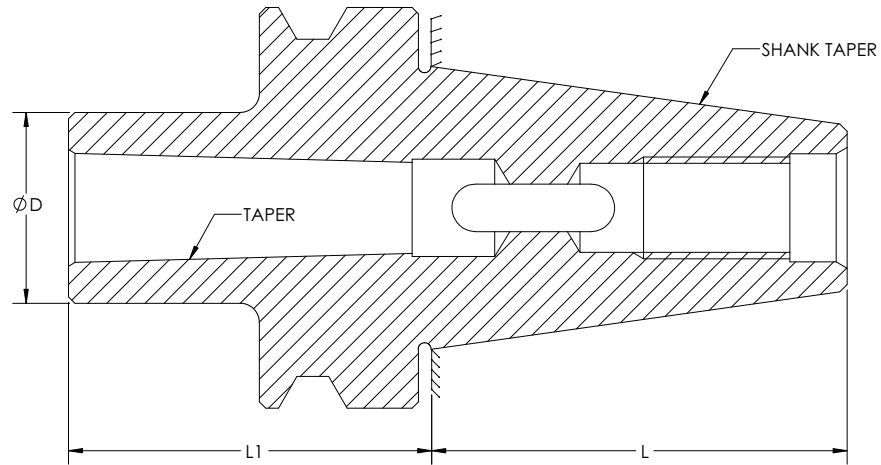
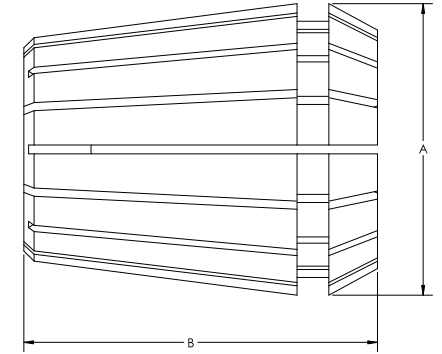


FIG - 2

CODE	SHANK TAPER	SIZE	Ød	ØD	L	L1	L2	L3	G	FIG.
SLH TBT40 16 L01	TBT-40	16 X 63	16	48	65.4	63	23	-	M12	1
SLH TBT40 20 L01	TBT-40	20 X 63	20	52	65.4	63	24	-	M16	1
SLH TBT40 25 L01	TBT-40	25 X 90	25	50	65.4	90	24	25	M12	2
SLH TBT40 32 L01	TBT-40	32 X 100	32	62	65.4	100	24	28	M16	2
SLH TBT40 40 L01	TBT-40	40 X 100	40	62	65.4	100	25	28	M16	2
SLH TBT50 25 L01	TBT-50	25 X 100	25	62	101.8	100	24	25	M16	2
SLH TBT50 25 L02	TBT-50	25 X 150	25	62	101.8	150	24	25	M16	2
SLH TBT50 32 L01	TBT-50	32 X 105	32	62	101.8	105	24	28	M16	2
SLH TBT50 32 L02	TBT-50	32 X 150	32	62	101.8	150	24	28	M16	2
SLH TBT50 40 L01	TBT-50	40 X 105	40	62	101.8	105	25	28	M16	2
SLH TBT50 40 L02	TBT-50	40 X 150	40	62	101.8	150	25	28	M16	2

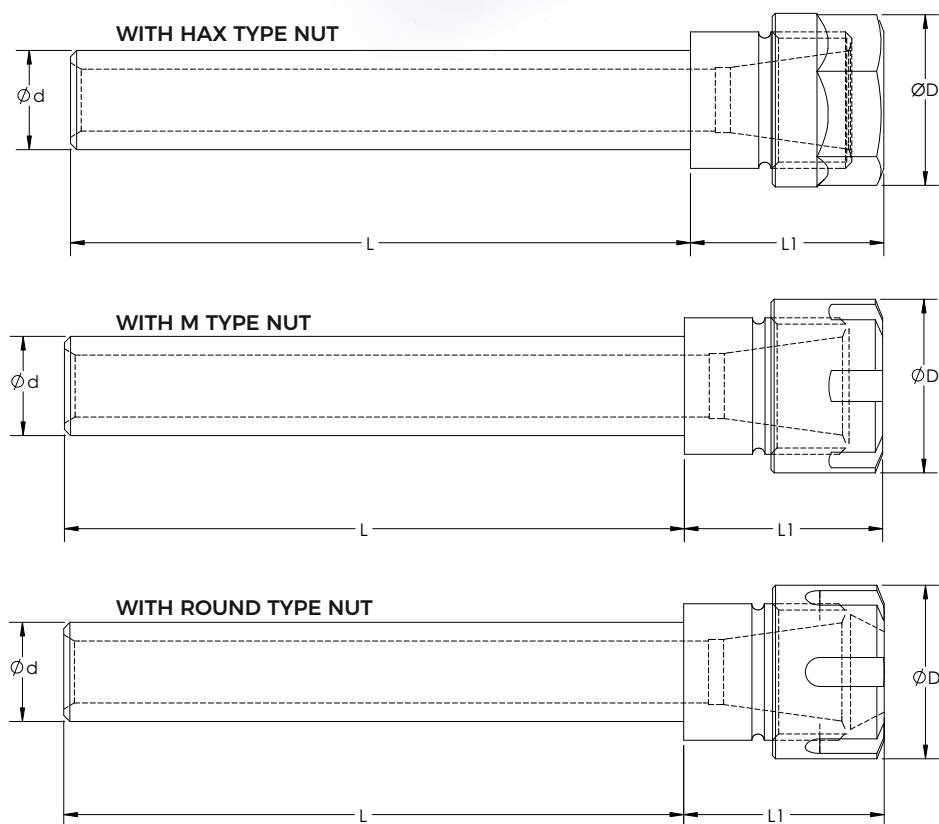
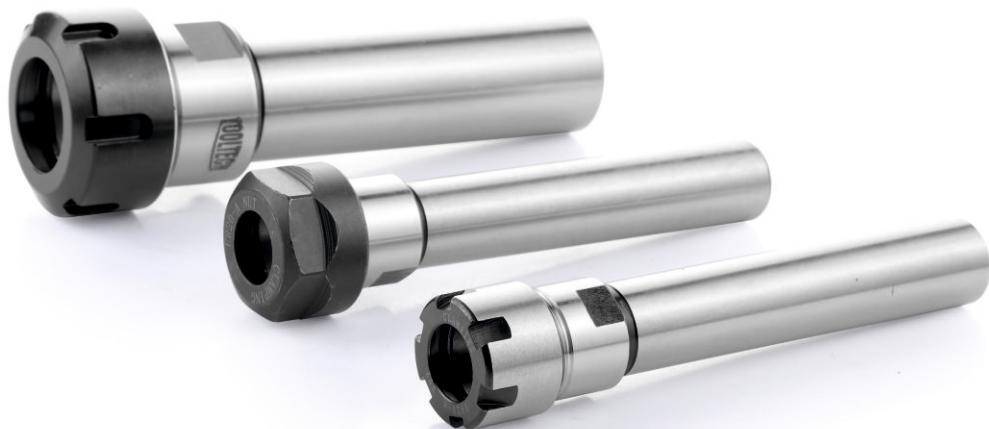


CODE	SHANK TAPER	SIZE	TAPER	L1	L	ØD
MRS TBT40 M1 45	TBT-40	MT-1 X 45	MT-1	45	65.4	25
MRS TBT40 M2 60	TBT-40	MT-2 X 60	MT-2	60	65.4	32
MRS TBT40 M3 75	TBT-40	MT-3 X 75	MT-3	75	65.4	40
MRS TBT40 M4 95	TBT-40	MT-4 X 95	MT-4	95	65.4	48
MRS TBT50 M1 45	TBT-50	MT-1 X 45	MT-1	45	101.8	25
MRS TBT50 M2 45	TBT-50	MT-2 X 45	MT-2	45	101.8	32
MRS TBT50 M3 60	TBT-50	MT-3 X 60	MT-3	60	101.8	40
MRS TBT50 M4 85	TBT-50	MT-4 X 85	MT-4	85	101.8	48

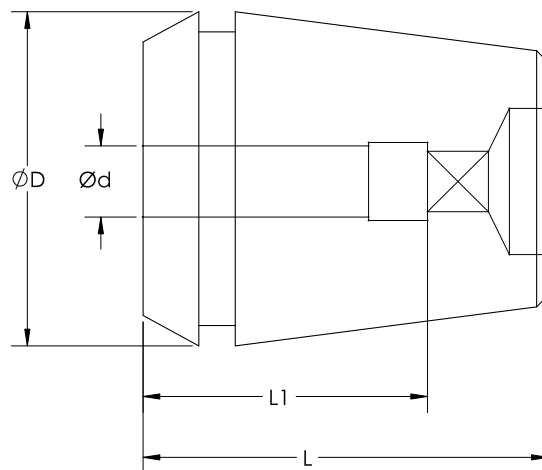


CODE	COLLET SERIES	A	B
CT01 ER08	ER-8	8.5MM (0.335in)	13.5MM (0.531in)
CT01 ER11	ER-11	11.5MM (0.453in)	18MM (0.709in)
CT01 ER16	ER-16	17MM (0.669in)	27MM (1.063in)
CT01 ER20	ER-20	21MM (0.827in)	31MM (1.220in)
CT01 ER25	ER-25	26MM (1.024in)	35MM (1.378in)
CT01 ER32	ER-32	33MM (1.299in)	40MM (1.575in)
CT01 ER40	ER-40	41MM (1.614in)	46MM (1.811in)

CODE	DESIGNATION	BORE RANGE Ød	IN STEPS OF	COLLET COLLAPSES BY	NO OF PCS/SET
CT02 ER08	ER 8	1.0 TO 5.0	0.5	0.5	9
CT02 ER11	ER 11	1.0 TO 7.0	0.5	0.5	13
CT02 ER16	ER 16	1.0 TO 10.0	1	1	10
CT02 ER20	ER 20	2.0 TO 13.0	1.0	1.0	12
CT02 ER25	ER 25	2.0 TO 16.0	1.0	1.0	15
CT02 ER32	ER 32	3.0 TO 20.0	1.0	1.0	18
Ct02 ER40	ER 40	4.0 TO 26.0	1.0	1.0	23



CODE	MODEL	$\varnothing d$	$\varnothing D$	L	L1	SUITABLE COLLET	NUT
C10ER8M100	Ø10-ER8M-100	10	12	100	20	ER8	MINI
C12ER11M100	Ø12-ER11M-100	12	16	100	25	ER11	MINI
C12ER11H100	Ø12-ER11H-100	12	19	100	25	ER11	HEX
C16ER11M100	Ø16-ER11M-100	16	16	100	25	ER11	MINI
C16ER11M150	Ø16-ER11M-150	16	16	150	25	ER11	MINI
C16ER11H100	Ø16-ER11H-100	16	19	100	25	ER11	HEX
C16ER16H150	Ø16-ER11H-150	16	19	150	25	ER11	HEX
C16ER16M100	Ø16-ER16M-100	16	22	100	35	ER16	MINI
C16ER16M150	Ø16-ER16M-150	16	22	150	35	ER16	MINI
C16ER16H100	Ø16-ER16H-100	16	28	100	35	ER16	HEX
C16ER16H150	Ø16-ER16H-150	16	28	150	35	ER16	HEX
C20ER11M100	Ø20-ER11M-100	20	16	100	25	ER11	MINI
C20ER16M100	Ø20-ER16M-100	20	22	100	35	ER16	MINI
C20ER16M150	Ø20-ER16M-150	20	22	150	35	ER16	MINI
C20ER16H100	Ø20-ER16H-100	20	28	100	35	ER16	HEX
C20ER16H150	Ø20-ER16H-150	20	28	150	35	ER16	HEX
C20ER20M100	Ø20-ER20M-100	20	28	100	38	ER20	MINI
C20ER20M150	Ø20-ER20M-150	20	28	150	38	ER20	MINI
C20ER20H100	Ø20-ER20H-100	20	34	100	38	ER20	HEX
C20ER20H150	Ø20-ER20H-150	20	34	150	38	ER20	HEX
C20ER25S100	Ø20-ER25S-100	20	42	100	41	ER25	SPANNER
C25ER16H100	Ø25-ER16H-100	25	28	100	35	ER16	HEX
C25ER16H150	Ø25-ER16H-150	25	28	150	35	ER16	HEX
C25ER20H100	Ø25-ER20H-100	25	34	100	38	ER20	HEX
C25ER20H150	Ø25-ER20H-150	25	34	150	38	ER20	HEX
C25ER25S100	Ø25-ER25S-100	25	42	100	41	ER25	SPANNER
C25ER25S150	Ø25-ER25S-150	25	42	150	41	ER25	SPANNER
C25ER32S100	Ø25-ER32S-100	25	50	100	53	ER32	SPANNER
C32ER25S100	Ø32-ER25S-100	32	42	100	41	ER25	SPANNER
C32ER32S100	Ø32-ER32S-100	32	50	100	53	ER32	SPANNER
C32ER32S150	Ø32-ER32S-150	32	50	150	53	ER32	SPANNER
C32ER40S100	Ø32-ER40S-100	32	63	100	58	ER40	SPANNER
C40ER25S100	Ø40-ER25S-100	40	42	100	41	ER25	SPANNER
C40ER32S100	Ø40-ER32S-100	40	50	100	53	ER32	SPANNER
C40ER40S100	Ø40-ER40S-100	40	64	100	58	ER40	SPANNER

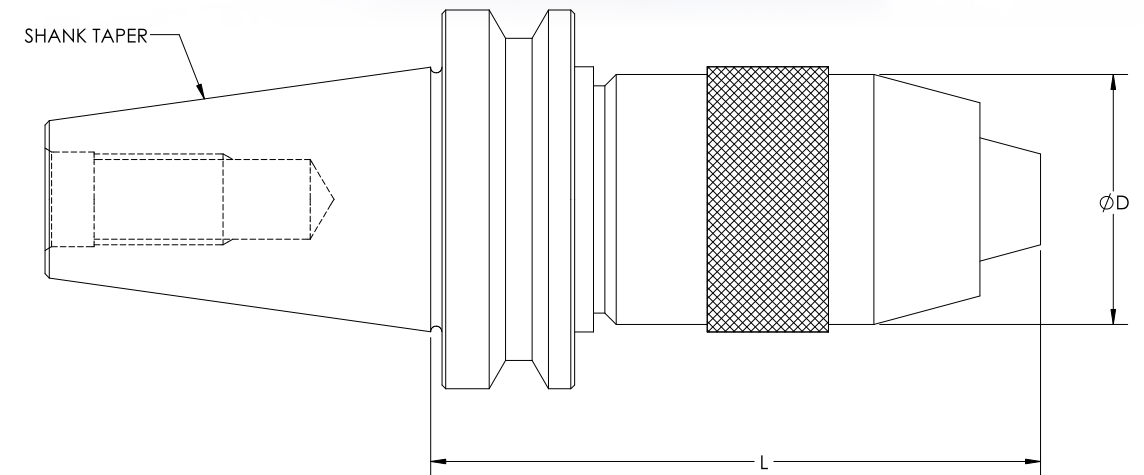


CODE		CT04 ER16	CT04 ER16	CT04 ER16	CT04 ER16	CT04 ER16
SHANK SIZE	SQUARE SIZE	ER16	ER20	ER25	ER32	ER40
3.0	2.5	ET20-3.15-2.5	ET20-3.0-2.5	ET25-3.0-2.5	ET32-3.0-2.5	ET40-3.0-2.5
3.15	2.5	ET16-3.15-2.5	ET20-3.15-2.5	ET25-3.15-2.5	ET32-3.15-2.5	ET40-3.15-2.5
3.5	2.7	ET16-3.5-2.7	ET20-3.5-2.7	ET25-3.5-2.7	ET32-3.5-2.7	ET40-3.5-2.7
3.55	2.8	ET16-3.55-2.8	ET20-3.55-2.8	ET25-3.55-2.8	ET32-3.55-2.8	ET40-3.55-2.8
4.0	3.0	ET16-4.0-3.0	ET20-4.0-3.0	ET25-4.0-3.0	ET32-4.0-3.0	ET40-4.0-3.0
4.0	3.2	ET16-4.0-3.2	ET20-4.0-3.2	ET25-4.0-3.2	ET32-4.0-3.2	ET40-4.0-3.2
4.5	3.4	ET16-4.5-3.4	ET20-4.5-3.4	ET25-4.5-3.4	ET32-4.5-3.4	ET40-4.5-3.4
5	4.0	ET16-5.0-4.0	ET20-5.0-4.0	ET25-5.0-4.0	ET32-5.0-4.0	ET40-5.0-4.0
5.5	4.3	ET16-5.5-4.3	ET20-5.5-4.3	ET25-5.5-4.3	ET32-5.5-4.3	ET40-5.5-4.3
5.6	4.5	ET16-5.6-4.5	ET20-5.6-4.5	ET25-5.6-4.5	ET32-5.6-4.5	ET40-5.6-4.5
6.0	4.5	ET16-6.0-4.5	ET20-6.0-4.5	ET25-6.0-4.5	ET32-6.0-4.5	ET40-6.0-4.5
6.0	4.9	ET16-6.0-4.9	ET20-6.0-4.9	ET25-6.0-4.9	ET32-6.0-4.9	ET40-6.0-4.9
6.3	5.0	ET16-6.3-5.0	ET20-6.3-5.0	ET25-6.3-5.0	ET32-6.3-5.0	ET40-6.3-5.0
7.0	5.0	ET16-7.0-5.0	ET20-7.0-5.0	ET25-7.0-5.0	ET32-7.0-5.0	ET40-7.0-5.0
7.0	5.5	ET16-7.0-5.5	ET20-7.0-5.5	ET25-7.0-5.5	ET32-7.0-5.5	ET40-7.0-5.5
7.1	5.6	ET16-7.1-5.6	ET20-7.1-5.6	ET25-7.1-5.6	ET32-7.1-5.6	ET40-7.1-5.6
8.0	6.0		ET20-8.0-6.0	ET25-8.0-6.0	ET32-8.0-6.0	ET40-8.0-6.0

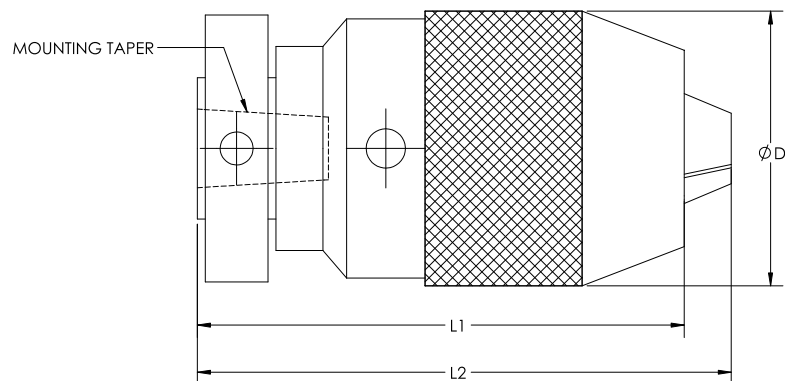
CODE		CT04 ER16	CT04 ER16	CT04 ER16	CT04 ER16	CT04 ER16
SHANK SIZE	SQUARE SIZE	ER16	ER20	ER25	ER32	ER40
8.0	6.2		ET20-8.0-6.2	ET25-8.0-6.2	ET32-8.0-6.2	ET40-8.0-6.2
8.0	6.3		ET20-8.0-6.3	ET25-8.0-6.3	ET32-8.0-6.3	ET40-8.0-6.3
8.5	6.5		ET20-8.5-6.5	ET25-8.5-6.5	ET32-8.5-6.5	ET40-8.5-6.5
9.0	7.0		ET20-9.0-7.0	ET25-9.0-7.0	ET32-9.0-7.0	ET40-9.0-7.0
10.0	8.0		ET20-10.0-8.0	ET25-10.0-8.0	ET32-10.0-8.0	ET40-10.0-8.0
10.5	8.0		ET20-10.5-8.0	ET25-10.5-8.0	ET32-10.5-8.0	ET40-10.5-8.0
11.0	9.0			ET25-11.0-9.0	ET32-11.0-9.0	ET40-11.0-9.0
11.2	9.0			ET25-11.2-9.0	ET32-11.2-9.0	ET40-11.2-9.0
12.2	9.0			ET25-12.0-9.0	ET32-12.0-9.0	ET40-12.0-9.0
12.5	10.0			ET25-12.5-10.0	ET32-12.5-10.0	ET40-12.5-10.0
14.0	11.2				ET32-14.0-11.2	ET40-14.0-11.2
14.0	11.2				ET32-14.0-11.2	ET40-14.0-11.2
15.0	12.0				ET32-15.0-12.0	ET40-15.0-12.0
16.0	12.0				ET32-16.0-12.0	ET40-16.0-12.0
16.0	12.5				ET32-16.0-12.5	ET40-16.0-12.5
17.0	13.0					ET40-17.0-13.0
18.0	14.5					ET40-18.0-14.5
18.0	14.0					ET40-18.0-14.0
19.0	15.0					ET40-19.0-15.0
20.0	16.0					ET40-20.0-16.0
20.0	15.0					ET40-20.0-15.0
22.0	18.0					ET40-22.0-18.0
22.4	18.0					ET40-22.4-18.0
25	20.0					ET40-25.0-20.0



CODE	COLLET SERIES	BORE SIZE	NO. OF COLLETS
CTS01 ER08	ER-8	1MM TO 5MM X 0.5MM	9
CTS01 ER11	ER-11	1MM TO 7MM X 0.5MM	13
CTS01 ER16	ER-16	1MM TO 10MM X 1MM	10
CTS01 ER20	ER-20	2MM TO 13MM X 1MM	12
CTS01 ER25	ER-25	2MM TO 16MM X 1MM	15
CTS01 ER32	ER-32	3MM TO 20MM X 1MM	18
CTS01 ER40	ER-40	4MM TO 26MM X 1MM	23

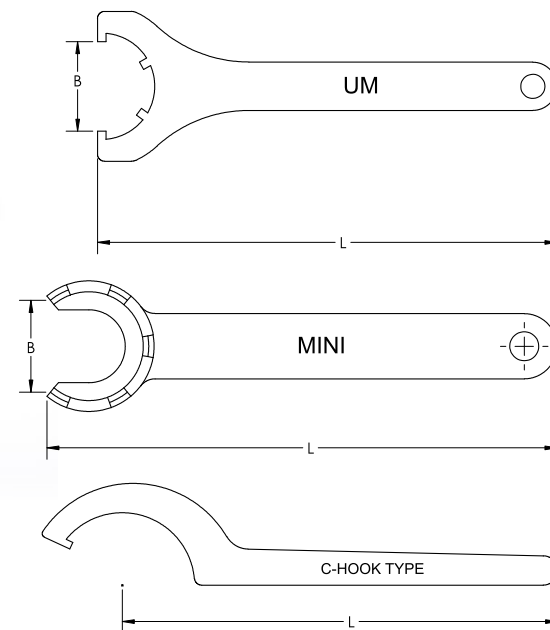


CODE	MODE	CLAMPING RANGE	D	L	
				MIN	MAX
APU B30	BT-30-APU13-100	1 TO 13	51.5	97	104.5
APU B40	BT-40-APU13-110	1 TO 13	51.5	98	109
APU B50	BT-50-APU13-130	1 TO 13	51.5	109	120
APU I30	ISO30-APU13-100	1 TO 13	51.5	97	104.5



CODE	MODEL	MOUNTING TAPER	L1	L2	ØD
KDC-1S	1-6	JT-1	62	68	35
KDC-2S	1-13	JT-6	97	107	50
KDC-3S	0.3-10	JT-2	80	92	43
KDC-4S	1-13	B16	90	102	50
KDC-5S	1-16	JT-6	102	114	54
KDC-6S	3-20	JT-3	118	128	62

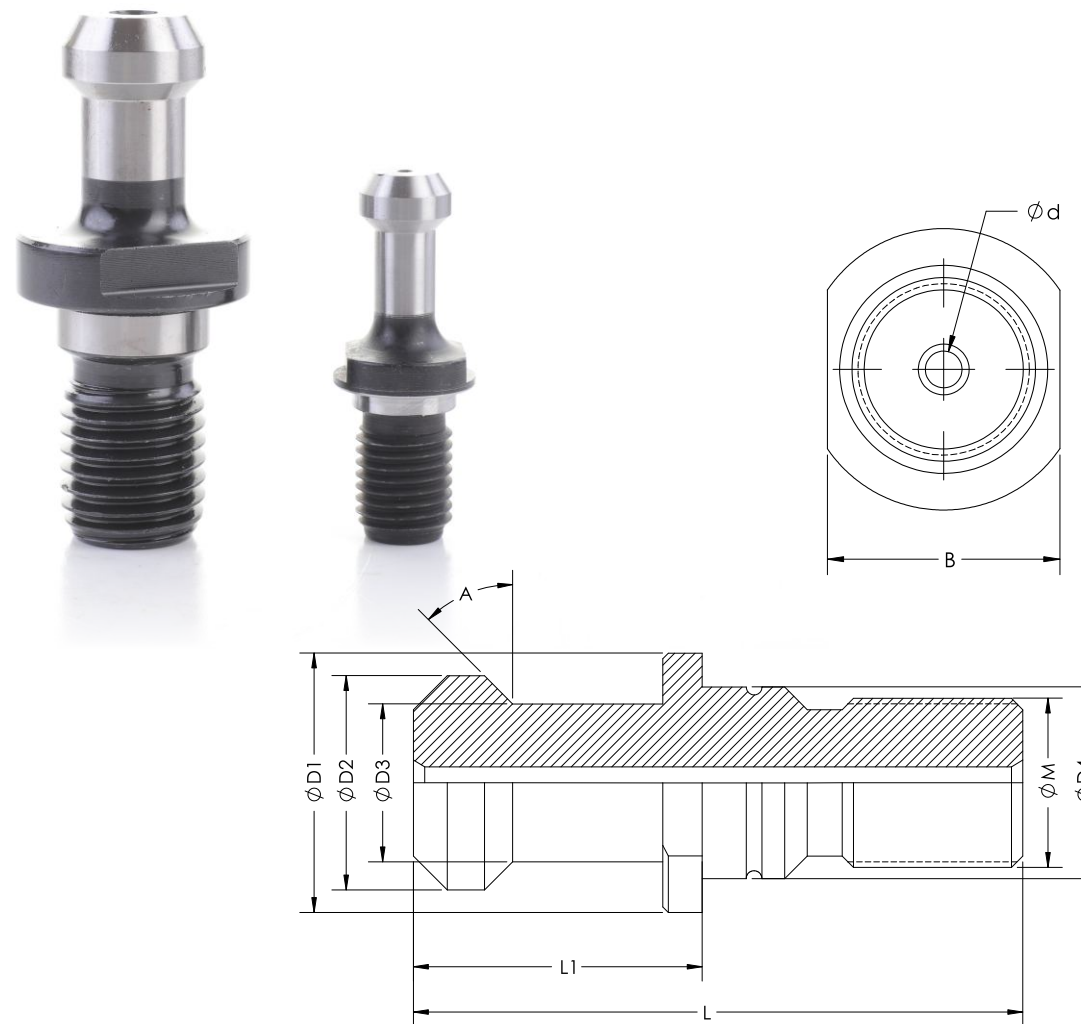
CODE	DESCRIPTION	MOUNTING TAPER	L1	L2	ØD
KDC-HP	1-13 : 1/32" - 1/2"	B16 / JT-6	90	102	50



CODE	MODEL NAME	TYPE	B	L
S08M	ER-8	MINI	7.5	70
S11M	ER-11	MINI	11	90
S16M	ER-16	MINI	15	110
S20M	ER-20	MINI	19.5	120
S25M	ER-25	MINI	25	130
S25UM	ER-25	UM	37	210
S25UM	ER-32	UM	45	250
S40UM	ER-40	UM	58	290
S20C	ER-20	C HOOK TYPE	28-35	145
S25C	ER-25	C HOOK TYPE	38-42	168
S32C	ER-32	C HOOK TYPE	45-52	190
S40C	ER-40	C HOOK TYPE	55-63	210
S40C	E-40	C HOOK TYPE	55-63	240



CODE	MODEL NAME	TYPE	D	L	M
N008M	ER-8	MINI	12	12	M10 X 0.75
N011M	ER-11	MINI	16	12	M13 X 0.75
N011H	ER-11	HEX	19	11.3	M14 X 0.75
N016M	ER-16	MINI	22	18	M19 X 1.0
N016H	ER-16	HEX	28	17.5	M22 X 1.5
N020M	ER-20	MINI	28	19	M24 X 1.0
N020H	ER-20	HEX	34	19	M25 X 1.5
N025M	ER-25	MINI	35	20	M30 X 1.0
N025H	ER-25	HEX	42	23	M32 X 1.5
N025UM	ER-25	UM	42	20	M32 X 1.5
N032UM	ER-32	UM	50	22.5	M40 X 1.5
N040UM	ER-40	UM	63	25.5	M50 X 1.5
N0E40UM	E-40	UM	63	28	M50 X 1.5



CODE	MODEL NAME	D	D1	D2	D3	D4	A	B	M	L	L1
PS30	BT30	-	16.5	11	7	12.5	45°	13	M12	43	23
PS40	BT40	-	23	15	10	17	45°	19	M16	60	35
PS50	BT50	-	38	23	17	25	45°	30	M124	85	45
PS30TC	BT30 TC	3	16.5	11	7	12.5	45°	13	M12	43	23
PS40TC	BT40 TC	3	23	15	10	17	45°	19	M16	60	35
PS50TC	BT50 TC	7	38	23	17	25	45°	30	M24	85	45



CODE	SHANK TYPE
TLD B30	BT30
TLD B40	BT40
TLD B50	BT50
TLD S30	SK30
TLD S40	SK40
TLD S50	SK50



SIZE	GRINDING WHEEL		MOTOR		SPINDLE SPEED RPM		HOUSING 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 3/8" X 1/4"	1/2	2800	3000	16800	49.0	3 1/4" (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 3/8" X 1/4"	1	2800	2800	9700	59.5	4" (MAX 6")	2 1/2"	17/8"	2 1/2"	6"
10" LIGHT DUTY	10"X1"X3/4" (1 1/4")		1	2800	2800		59.5				2 1/2"	



CODE	SHANK TAPER
ICK 03	MT-3
ICK 04	MT-4
ICK 05	MT-5

