

1. BORING BAR 5% COBALT



- * Fully Hardened Bars to 63-66 HRC.
- * Single Piece construction and shank is precision ground.

Product No.	Shank Diameter Inch	Minimum Bore inch	Bore Depth inch	Overall Length inch	Product No.	Shank Diameter Inch	Minimum Bore inch	Bore Depth inch	Overall Length inch
DBB-100A	3/8	3/16	9/16	1-13/16	DBB-101A	1/2	1/4	3/4	2-1/8
DBB-100B	3/8	3/16	15/16	2-3/16	DBB-101B	1/2	1/4	1-1/4	2-5/8
DBB-100C	3/8	1/4	3/4	2	DBB-101C	1/2	5/16	15/16	2-5/16
DBB-100D	3/8	1/4	1-1/4	2-1/2	DBB-101D	1/2	5/16	1-9/16	2-15/16
DBB-100E	3/8	5/16	15/16	2-3/16	DBB-101E	1/2	3/8	1-1/8	2-1/2
DBB-100F	3/8	5/16	1-9/16	2-3/16	DBB-101F	1/2	3/8	1-7/8	3-1/4
DBB-100G	3/8	3/8	1-1/8	2-3/8	DBB-101G	1/2	7/16	1-5/16	2-11/16
DBB-100H	3/8	3/8	1-7/8	3-1/8	DBB-101H	1/2	7/16	2-3/16	3-9/16
DBB-100	8 pcs set of Boring Bars Shank Dia 3/8"				DBB-101I	1/2	1/2	1-1/2	2-7/8
					DBB-101J	1/2	1/2	2-1/2	3-7/8
					DBB-101	10 pcs set of Boring Bars Shank Dia 1/2"			

Product No.	Shank Diameter Inch	Minimum Bore inch	Bore Depth inch	Overall Length inch	Product No.	Shank Diameter Inch	Minimum Bore inch	Bore Depth inch	Overall Length inch
DBB-102A	5/8	3/8	1-1/8	2-5/8	DBB-103A	3/4	3/8	1-1/8	2-7/8
DBB-102B	5/8	3/8	1-7/8	3-3/8	DBB-103B	3/4	3/8	1-7/8	3-5/8
DBB-102C	5/8	7/16	1-5/16	2-13/16	DBB-103C	3/4	7/16	1-5/16	3-1/16
DBB-102D	5/8	7/16	2-3/16	3-11/16	DBB-103D	3/4	7/16	2-3/16	3-15/16
DBB-102E	5/8	1/2	1-1/2	3	DBB-103E	3/4	1/2	1-1/2	3-1/4
DBB-102F	5/8	1/2	2-1/2	4	DBB-103F	3/4	1/2	2-1/2	4-1/4
DBB-102G	5/8	9/16	1-11/16	3-3/16	DBB-103G	3/4	9/16	1-11/16	3-7/16
DBB-102H	5/8	9/16	2-13/16	4-5/16	DBB-103H	3/4	9/16	2-13/16	4-9/16
DBB-102I	5/8	5/8	1-7/8	3-3/8	DBB-103I	3/4	5/8	1-7/8	3-5/8
DBB-102J	5/8	5/8	3-1/8	4-5/8	DBB-103J	3/4	5/8	3-1/8	4-7/8
DBB-102	10 pcs set of Boring Bars Shank Dia 5/8"				DBB-103K	3/4	11/16	2-1/16	3-13/16
					DBB-103L	3/4	11/16	3-7/16	5-3/16
					DBB-103M	3/4	3/4	2-1/4	4
					DBB-103N	3/4	3/4	3-3/4	5-1/2
					DBB-103	14 pcs set of Boring Bars Shank Dia 3/4"			

2. TURNING TOOL HOLDERS

American Pattern



Straight	PRODUCT NO.		HOLDER SIZE		SUITABLE TOOL BIT	
	Left	Right	Inch	mm	Inch	mm
DTTH-200A	DTTH-201A	DTTH-202A	5/16x3/4x4-1/2	8x19x114	3/16	4.76
DTTH-200B	DTTH-201B	DTTH-202B	3/8x7/8x5	9.5x22x127	1/4	6.35
DTTH-200C	DTTH-201C	DTTH-202C	1/2x1-1/8x6	13x28x152	5/16	7.93
DTTH-200D	DTTH-201D	DTTH-202D	5/8x1-3/8x7	16x35x178	3/8	9.52
DTTH-200E	DTTH-201E	DTTH-202E	3/4x1-5/8x8	19x41x203	7/16	11.11
DTTH-200F	DTTH-201F	DTTH-202F	7/8x1-3/4x9	22x44x228	1/2	12.7
DTTH-200G	DTTH-201G	DTTH-202G	1x2x11	25x50x280	5/8	15.87
DTTH-200H	DTTH-201H	DTTH-202H	1-1/4x2-1/4x13	32x57x330	3/4	19.05

English Pattern



Straight	PRODUCT NO.		HOLDER SIZE mm	SUITABLE TOOL BIT Inch
	Left	Right		
DTTH-203A	DTTH-204A	DTTH-205A	12 x 16 x 100	1/8
DTTH-203B	DTTH-204B	DTTH-205B	14 x 18 x 145	3/16
DTTH-203C	DTTH-204C	DTTH-205C	16 x 20 x 190	1/4
DTTH-203D	DTTH-204D	DTTH-205D	18 x 22 x 215	5/16
DTTH-203E	DTTH-204E	DTTH-205E	20 x 25 x 235	3/8
DTTH-203F	DTTH-204F	DTTH-205F	22 x 28 x 260	7/16
DTTH-203G	DTTH-204G	DTTH-205G	25 x 30 x 275	1/2

3. BEVEL REVOLVING PIPE CENTERS

* Machining pipes and similar hollow shaft materials with a high thrust capacity.

* Cone Angle - 75°



Product No.	SHANK	Capacity (mm)		OVERALL LENGTH mm	ANGLE OF BEVEL
		MINIMUM	MAXIMUM		
DBRPC-2201	MT - 2	19	80	135	75°
DBRPC-2202	MT - 3	20	95	170	75°
DBRPC-2203	MT - 4	29	125	200	75°
DBRPC-2204	MT - 5	32	150	240	75°

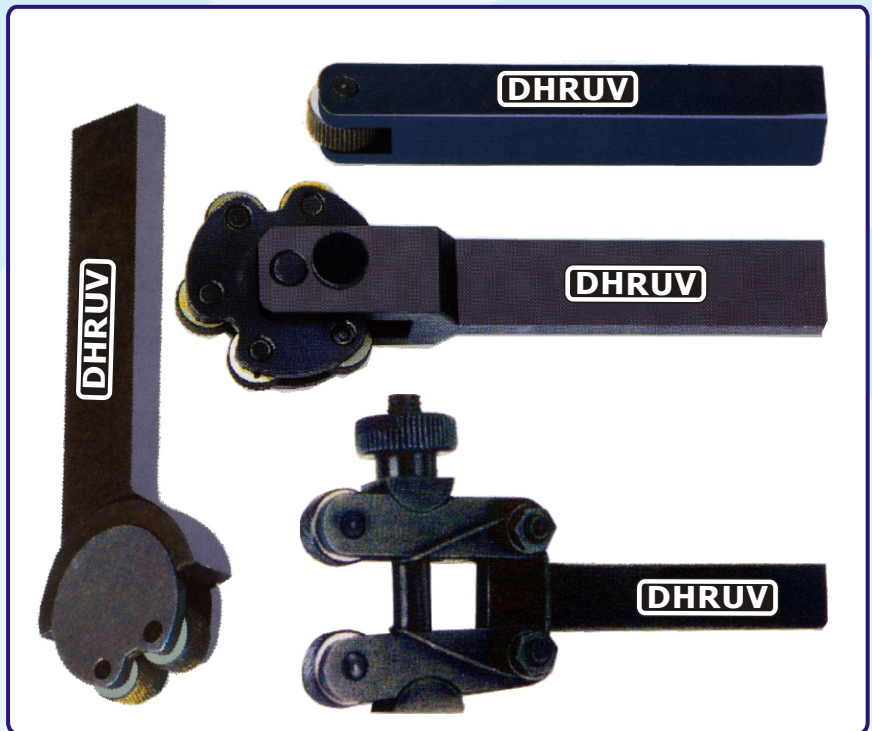
4. TURNING TOOL HOLDERS / INDEXABLE



- * Supplied without carbide tip, screw & allen key.
- * Set supplied in wooden box.

Product No.	Shank Size	Style
DTTHI-300A	3/8"	TE6
DTTHI-300B	3/8"	TBL6
DTTHI-300C	3/8"	TAL6
DTTHI-300D	3/8"	TBR6
DTTHI-300E	3/8"	TAR6
DTTHI-300	Set of Five Holder with 3/8" Shank	
DTTHI-301A	1/2"	TE8
DTTHI-301B	1/2"	TBL8
DTTHI-301C	1/2"	TAL8
DTTHI-301D	1/2"	TBR8
DTTHI-301E	1/2"	TAR8
DTTHI-301	Set of Five Holder with 1/2" Shank	
DTTHI-302A	5/8"	TE10
DTTHI-302B	5/8"	TBL10
DTTHI-302C	5/8"	TAL10
DTTHI-302D	5/8"	TBR 10
DTTHI-302E	5/8"	TAR 10
DTTHI-302	Set of Five Holders with 5/8" Shank	
DTTHI-303A	3/4"	TE 12
DTTHI-303B	3/4"	TBL 12
DTTHI-303C	3/4"	TAL 12
DTTHI-303D	3/4"	TBR 12
DTTHI-303E	3/4"	TAR 12
DTTHI-303	Set of Five Holders with 3/4" Shank	
DTTHI-304A	1"	TE 16
DTTHI-304B	1"	TBL 16
DTTHI-304C	1"	TAL 16
DTTHI-304D	1"	TBR 16
DTTHI-304E	1"	TAR 16
DTTHI-304	Set of Five Holders with 1" Shank	

5. KNURLING TOOL HOLDERS



- * Usually comes with high speed steel knurls.
- * Manufactured from fine quality steel & finely blackdized.

Product No.	Model	Size of Holder Inch mm	Knurl Dimensions Inch	Dia x Thickness x hole mm	No. of Knurls
DKTH-400A	Self Adjusting Head	5/16x3/4x5 8x19x127	5/8x5/16x7/32	16x7.90x5.55	2
DKTH-400B	Self Adjusting Head	3/8x7/8x5-1/2 9.5x22x140	5/8x5/16x7/32	16x7.90x5.55	2
DKTH-400C	Self Adjusting Head	1/2x1-1/8x6-1/2 12.7x28x165	3/4x3/8x1/4	19x9.52x6.35	2
DKTH-400D	Self Adjusting Head	5/8x1-3/8x7-1/2 16x35x190	3/4x3/8x1/4	19x9.52x6.35	2
DKTH-401A	Revolving Head	5/16x3/4x5 8x19x127	5/8x5/16x7/32	16x7.90x5.55	6
DKTH-401B	Revolving Head	3/8x7/8x5-1/2 9.5x22x140	5/8x5/16x7/32	16x7.90x5.55	6
DKTH-401C	Revolving Head	1/2x1-1/8x6-1/2 12.7x28x165	3/4x3/8x1/4	19x9.52x6.35	6
DKTH-401D	Revolving Head	5/8x1-3/8x7-1/2 16x35x190	3/4x3/8x1/4	19x9.52x6.35	6
DKTH-401E	Revolving Head	1/2x7/8x6-1/2 12.7x22x165	3/4x3/8x1/4	19x9.52x6.35	6
DKTH-401F	Revolving Head	1x1x7-1/5 25x25x165	3/4x3/8x1/4	19x9.52x6.35	6
DKTH-402A	Pivot Head	1/2x1/2x4-1/2 12.7x12.7x115	3/4x3/8x1/4	19x9.52x6.35	2
DKTH-402B	Pivot Head	1/2x1/2x5 12.7x12.7x127	3/4x1/4x1/4	19x6.35x6.35	2
DKTH-403A	Single Knurl	1/2x1/2x4 12.7x12.7x100	3/4x1/4x1/4	19x6.35x6.35	1
DKTH-403B	Single Knurl	3/4x3/4x5 19x19x127	3/4x3/8x1/4	19x9.52x6.35	1
DKTH-404	Clamp Type	5/8x3/8x3 16x9.52x75	3/4x3/8x1/4	19x9.52x6.35	2

6. FLY TOOL CUTTER HOLDER R8 SHANK



- * Manufactured from fine quality tool steel.
- * Supplied in grinded finish.
- * Supplied without tool bit.

Product No.	Head Diameter		Suitable Tool Bit Size	
	Inch	mm	Inch	mm
DFTC-500	2-1/2	63.5	5/16	8

7. DRILL CHUCK ARBOR



Product No. hardened & Ground	Product No. Unhardened & Ground	Morse Taper Shank	Jacob Taper Shank
DDCA-601	DDCA-701	1	1
DDCA-602	DDCA-702	1	2
DDCA-603	DDCA-703	1	3
DDCA-604	DDCA-704	1	4
DDCA-605	DDCA-705	1	5
DDCA-606	DDCA-706	1	6
DDCA-607	DDCA-707	1	33
DDCA-608	DDCA-708	2	0
DDCA-609	DDCA-709	2	1
DDCA-610	DDCA-710	2	2
DDCA-611	DDCA-711	2	3
DDCA-612	DDCA-712	2	4
DDCA-613	DDCA-713	2	5
DDCA-614	DDCA-714	2	6
DDCA-615	DDCA-715	2	33
DDCA-616	DDCA-716	3	1
DDCA-617	DDCA-717	3	2
DDCA-618	DDCA-718	3	3
DDCA-619	DDCA-719	3	4
DDCA-620	DDCA-720	3	5
DDCA-621	DDCA-721	3	6
DDCA-622	DDCA-722	3	33
DDCA-623	DDCA-723	4	2
DDCA-624	DDCA-724	4	3
DDCA-625	DDCA-725	4	4
DDCA-626	DDCA-726	4	5
DDCA-627	DDCA-727	4	6
DDCA-628	DDCA-728	4	33
DDCA-629	DDCA-729	5	2
DDCA-630	DDCA-730	5	3
DDCA-631	DDCA-731	5	4
DDCA-632	DDCA-732	5	5
DDCA-633	DDCA-733	5	6
DDCA-634	DDCA-734	5	33

[B]

TAPER SHANK ACC DIN - 238		
Cat No.	Drill Chuck Taper	Taper Shank Morse Taper
DDCA-801	B 10	1
DDCA-802	B 12	1
DDCA-803	B 12	2
DDCA-804	B 12	3
DDCA-805	B 16	1
DDCA-806	B 16	2
DDCA-807	B 16	3
DDCA-808	B 16	4
DDCA-809	B 18	1
DDCA-810	B 18	2
DDCA-811	B 18	3
DDCA-812	B 18	4
DDCA-813	B 22	2
DDCA-814	B 22	3
DDCA-815	B 22	4

8. STRAIGHT SHANK ARBORS



[A]

Product No.	Shank Diameter	Shank Length	Jacob Taper
DSSA-901	3/8"	2-1/2"	0
DSSA-902	3/8"	2-1/2"	1
DSSA-903	3/8"	2-1/2"	2
DSSA-904	1/2"	2-1/2"	0
DSSA-905	1/2"	2-1/2"	1
DSSA-906	1/2"	2-1/2"	2
DSSA-907	1/2"	2-1/2"	3
DSSA-908	1/2"	2-1/2"	4
DSSA-909	1/2"	2-1/2"	6
DSSA-910	1/2"	2-1/2"	33
DSSA-911	5/8"	2-1/2"	0
DSSA-912	5/8"	2-1/2"	1
DSSA-913	5/8"	2-1/2"	2
DSSA-914	5/8"	2-1/2"	3
DSSA-915	5/8"	2-1/2"	4
DSSA-916	5/8"	2-1/2"	6
DSSA-917	5/8"	2-1/2"	33
DSSA-918	3/4"	3"	0
DSSA-919	3/4"	3"	1
DSSA-920	3/4"	3"	2
DSSA-921	3/4"	3"	3
DSSA-922	3/4"	3"	4
DSSA-923	3/4"	3"	6
DSSA-924	3/4"	3"	33
DSSA-925	1"	3"	0
DSSA-926	1"	3"	1
DSSA-927	1"	3"	2
DSSA-928	1"	3"	3
DSSA-929	1"	3"	4
DSSA-930	1"	3"	5
DSSA-931	1"	3"	6
DSSA-932	1"	3"	33
DSSA-933	1-1/2"	4"	3
DSSA-934	1-1/2"	4"	4
DSSA-935	1-3/4"	4"	3
DSSA-936	1-3/4"	4"	4

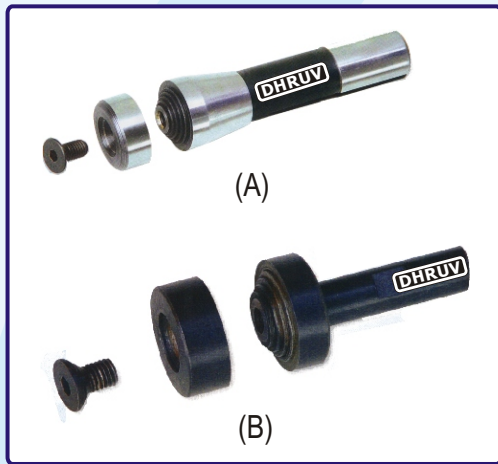
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THREADED ARBORS		
Product No.	Shank Size	Thread size
DSSA-1001	MT - 3	3/8 - 24TPI
DSSA-1002	MT - 3	1/2 - 20TPI
DSSA-1003	MT - 3	5/8 - 16TPI
DSSA-1004	MT - 2	3/8 - 24TPI
DSSA-1005	MT - 2	1/2 - 20TPI
DSSA-1006	MT - 2	5/8 - 16TPI
DSSA-1007	MT - 1	3/8 - 24TPI
DSSA-1008	MT - 1	1/2 - 20TPI
DSSA-1009	1/2" St.	1/2 - 20TPI
DSSA-1010	1/2" St.	3/8 - 24TPI



9. DRILL CHUCK ARBORS R8 SHANK

Product No.	No.	To fit Drill Chuck With Female Taper
DDCA-1101	R8 - 1	1
DDCA-1102	R8 - 2	2
DDCA-1103	R8 - 3	3
DDCA-1104	R8 - 4	4
DDCA-1105	R8 - 6	6
DDCA-1106	R8 - 33	33



10. SAWHO DER R8 SHANK

- * Accepts saw blades from 1/2" till 1"
- * Supplied in grinded plus black epoxy finish.

11. SAW HOLDER CIRCULAR

- * Spring load mechanism , with hardened shank
- * Holds saw blade upto hole diameter from 1/2" to 1"

Product No.	Shank Dia.		Overall Length	
	Inch	mm	Inch	mm
DSH-1200 B	1/2	12.7	2-1/2	63.5
DSH-1200 A	R-8 Shank			



12. T-TAP WRENCH SOLID JAWS

Product No.	Model No.	Tap Capacity Inch	Overall Length mm
DTW-1301	A	1/16 - 5/32	60
DTW-1302	B	5/32 - 1/4	70
DTW-1303	C	3/16 - 5/16	80
DTW-1304	D	1/4 - 1/2	88
DTW-1300	4 Pc set of 1 A, B, C & D		

- * Manufactured from fine quality tool steel.
- * Jaws are hardened and tempered.
- * Sets supplied in fine finished wooden box.



13. ROUND DIE STOCK HANDLES

Product No.	Outside Dia. of Die Inch	Length Inch
DRDS-1401	5/8	5-1/2
DRDS-1402	13/16	6-1/2
DRDS-1403	1	8-1/2
DRDS-1404	1-5/16	10
DRDS-1405	1-1/2	12
DRDS-1406	2	15

DRDS-1407	2-1/2	19
DRDS-1408	3	22
DRDS-1409	3-1/2	24
DRDS-1410	4	29
DRDS-1411	5	33
DRDS-1400 A	3 Pc Set Consisting of 1", 1-5/16 & 1-1/2"	
DRDS-1400 B	4 Pc Set Consisting of 13/16", 1" 1-1/2", 2"	

14. MORSE TAPER ADAPTORS R8 SHANK

Product No.	Outside Taper	Inside Taper
DMTA-1501	R8	MT - 2
DMTA-1502	R8	MT - 3



15. DRILL SLEEVES/REDUCTION SLEEVES



- * According to DIN 2185.
- * Fully hardened & ground.

Product No.	Morse Taper Outside	Morse Taper Inside	Overall Length mm
DDS-1601	1	2	92
DDS-1602	1	3	99
DDS-1603	1	4	124
DDS-1604	1	5	171
DDS-1605	2	3	121
DDS-1606	2	4	124
DDS-1607	2	5	156
DDS-1608	3	4	140
DDS-1609	3	5	156
DDS-1610	4	5	171
DDS-1611	4	6	218
DDS-1612	5	6	218
DDS-1613	6	2	218
DDS-1614	6	3	218

16. SOLID SOCKETS/TURRET SOCKETS



- * Manufactured from case hardened tool steel & fully hardened and ground from both inside & outside

Product No.	Hole	Outside Diameter	Overall Length
DSS-1701	M.T. 1	1"	3-1/2"
DSS-1702	M.T. 1	1-1/4"	3-1/2"
DSS-1703	M.T. 1	1-1/2"	3-1/2"
DSS-1704	M.T. 2	1"	4"
DSS-1705	M.T. 2	1-1/4"	4"
DSS-1706	M.T. 2	1-1/2"	4"
DSS-1707	M.T. 2	1-3/4"	4"
DSS-1708	M.T. 2	2"	4"
DSS-1709	M.T. 3	1-1/4"	4-3/4"
DSS-1710	M.T. 3	1-1/2"	4-3/4"
DSS-1711	M.T. 3	1-3/4"	4-3/4"
DSS-1712	M.T. 3	2"	4-3/4"
DSS-1713	M.T. 4	1-1/2"	6"
DSS-1714	M.T. 4	1-3/4"	6"
DSS-1715	M.T. 4	2"	6"
DSS-1716	M.T. 5	2-1/4"	7-3/8"
DSS-1717	M.T. 5	2-1/2"	7-3/8"
DSS-1718	M.T. 6	3-1/4"	10-1/8"
DSS-1719	M.T. 6	3-1/2"	10-1/8"

17. EXTENSION SLEEVES/JUMP SLEEVES

- * Manufactured from Case Hardened Steel
- * Precision Ground From Both Inside And Outside In "a" Grade
- * Hardened & Ground.



Product No.	Morse Taper Hole (IN)	Morse Taper Shank (OUT)
DES-1801	1	1
DES-1802	1	2
DES-1803	1	3
DES-1804	1	4
DES-1805	1	5
DES-1806	2	1
DES-1807	2	2
DES-1808	2	3
DES-1809	2	4
DES-1810	2	5
DES-1811	3	2
DES-1812	3	3

DES-1813	3	4
DES-1814	3	5
DES-1815	4	2
DES-1816	4	3
DES-1817	4	4
DES-1818	4	5
DES-1819	4	6
DES-1820	5	3
DES-1821	5	4
DES-1822	5	5
DES-1823	5	6
DES-1824	6	6



18. LATHE CENTER/DEAD CENTER FULL

* Tip Hardened to 60-63 HRC and included angle at tip is 60 Degree.

Product No. Carbon Steel	Product No. H.S.S.	Product No. Carbon Tipped	Morse Taper	Overall Length	
				Inch.	mm
DDC-1901A	DDC-1901B	DDC-1901C	MT - 0	2-7/8	73
DDC-1902A	DDC-1902B	DDC-1902C	MT - 1	3-5/16	84
DDC-1903A	DDC-1903B	DDC-1903C	MT - 2	4-3/16	104
DDC-1904A	DDC-1904B	DDC-1904C	MT - 3	5-1/4	133
DDC-1905A	DDC-1905B	DDC-1905C	MT - 4	6-1/2	165
DDC-1906A	DDC-1906B	DDC-1906C	MT - 5	8	203
DDC-1907A	DDC-1907B	DDC-1907C	MT - 6	10-5/8	270



19. LATHE CENTER/DEAD CENTER HALF

* Tip Hardened to 60-63 HRC and included angle at tip is 60 Degree.

Product No. Carbon Steel	Product No. H.S.S.	Product No. Carbon Tipped	Morse Taper	Overall Length	
				Inch.	mm
DDC-2001A	DDC-2001B	DDC-2001C	MT - 1	3-5/16	84
DDC-2002A	DDC-2002B	DDC-2002C	MT - 2	4-3/16	104
DDC-2003A	DDC-2003B	DDC-2003C	MT - 3	5-1/4	133
DDC-2004A	DDC-2004B	DDC-2004C	MT - 4	6-1/2	165
DDC-2005A	DDC-2005B	DDC-2005C	MT - 5	8	203



20. REVOLVING CENTER / LIVE CENTER

DUAL BEARING

* Manufactured from high grade steel hardened point to impart extra strength.

Product No.	Morse Taper	Body Diameter		Point Diameter		Overall Length	
		Inch	mm	Inch	mm	Inch	mm
DRC-2101	MT - 1	1-5/16	34	11/16	18	4-3/4	120
DRC-2102	MT - 2	2	50	27/32	21	5-7/8	148
DRC-2103	MT - 3	2-5/16	60	15/16	24	7-1/4	185
DRC-2104	MT - 4	2-1/2	63	1-1/8	28	8-5/8	220
DRC-2105	MT - 5	3	75	1-1/2	36	10-1/4	260
DRC-2106	MT - 6	4	100	2-1/8	53	14	355

21. MICRO BORING HEADS



Product No.	Product Description
DMBH-50	Diameter 50 mm/2" boring head
DMBH-30	Dia. 30mm/1-1/4" boring head
DMBH-38	Dia. 38mm/1-1/2" boring head
DMBH-62	Diameter 62 mm/2-1/2" boring head
DMBH-75	Dia. 75mm/3" boring head
DMBH-100	Dia. 100mm/4" boring head



Product No.	Product Description
DIBH-62	Dia. 62 mm/2-1/2" Integrated R-8 Shank boring Head

MACHINE TOOL ACCESSORIES

TECHNICAL SPECIFICATIONS (Inches)

Actual Size	Over all Length	Boring Bar Hole Size	Centre Distance B/w Holes	Cross Hole Size	Off set	Shank Type Drawbar	Back Thread	Grad.
1-1/4" Dia.	1-5/8"	1/4"	5/16"	1/4"	3/8"	St. Shank/MT-2	10x1.5 mm	.001"
1-1/2" Dia.	1-3/4"	5/16"	3/8"	5/16"	1/2"	St. Shank/MT-2	14x1 mm	.001"
2" Dia.	2-13/32"	1/2"	5/8"	1/2"	5/8"	MT-3/R-8	7/8"-20Tpi	.001"
2" Dia.	2 -13/32"	1/2"	5/8"	1/2"	5/8"	MT-3/R-8 shank	1-1/2"18 Tpi	.001"
3" Dia.	3-5/32"	3/4"	15/16"	3/4"	1"	MT-3/R-8	1-1/2"18 Tpi	.001"
4" Dia.	3-11/16"	1"	1-1/4"	1"	1-5/8"	MT-4 /R-8	1-1/2"18 Tpi	.001"
2 -1/2" Dia. Integrated	7-13/64"	1/2"	3/4"	1/2"	3/4"	Integrated 3/4" R-8	7/16"20 Tpi	.001"

TECHNICAL SPECIFICATIONS (mm)

Actual Size	Over all Length	Boring Bar Hole Size	Centre Distance B/w Holes	Cross Hole Size	Off set	Shank Type Drawbar	Back Thread	Grad.
30 mm Dia.	42	6	8	6	10	St. Shank / MT-2	10x1.5	.02
38 mm Dia.	45	8	11	8	12	St. Shank / MT-2	14x1	.02
50 mm Dia.	62	12	15	12	15	MT-3 /R-8	7/8"-20 Tpi	.02
50 mm Dia.	62	12	15	12	15	MT-3/R-8 shank	1-1/2"18 Tpi	.02
75 mm Dia.	80	18	23	18	25	MT-3/R-8	1-1/2"18 Tpi	.02
100 mm Dia.	90	25	32	25	30	MT-4 /R-8	1-1/2"18 Tpi	.02
62 mm Dia. Integrated	184	12	19	12	19	Integrated 3/4" R-8	7/16"20 Tpi	.02

R-8 Integrated Boring Head

Product No.	Boring Head Dia. Inch mm	Overall Length Inch mm	Boring Bar Hole Inch mm	Center Distance Between Hole Inch mm	Cross Hole Size Inch mm	Offset Inch mm	SHANK	Net. Weight Kg.
DIBH-62 A	2-1/2 63	3-3/16 80	1/2 12	3/4 19	1/2 12	3/4 19	R8	2
DIBH-62 B	2-1/2 63	3-3/16 80	5/8 18	3/4 19	5/8 16	3/4 19	R8	2

BORING HEAD SETS



Product no.	Product Description
DBHS-50	Dia. 50 mm/2" boring head sets with R-8 / MT-3 Shank. * 5 nos. Tools * Allen keys. All contained in fine wooden box.



Product no.	Product Description
DBHS-30	Dia. 30mm/1-1/4" boring head sets with MT-2 / St. shank. * 8 nos. Tools* * Allen keys. All contained in fine wooden box



Product no.	Product Description
DBHS-38	Dia. 38mm/1-1/2" boring head sets with MT-2 / St. Shank. * 3 nos. Tools * Allen keys. All contained in fine wooden box



Product no.	Product Description
DBHS-62	Dia. 62mm/2-1/2" boring head sets with ISO-40 / R-8 / MT-3 Shank * 4 nos. Tools * Allen keys. All contained in fine wooden box



Product no.	Product Description
DBHS-75	Dia. 75mm/3" boring head sets with MT-4 / R-8 / ISO-40 Shank * 5 nos. Tools * Allen keys. All contained in fine wooden box



Product no.	Product Description
DBHS-100	Dia. 100mm/4" boring head sets with ISO-40 / R-8 / MT-4 Shank * 3 nos. Tools * Allen keys. All contained in fine wooden box

Boring Head Set

Product No.	Boring Head Dia. mm	Overall Length mm	Boring Bar Hole mm	Center Distance Between Hole mm	Cross Hole Size mm	Side Radial Travel mm	Mounting Thread	Net. Weight Kg.
DBHS-62	62	52	10	24	10	22	16x1.5	2.600
DBHS-80	80	40	16	40	20	40	20x1.5	4.700

22. Quick Change Tool Post

4 in 1 Tool Post Set - Hardened & Ground



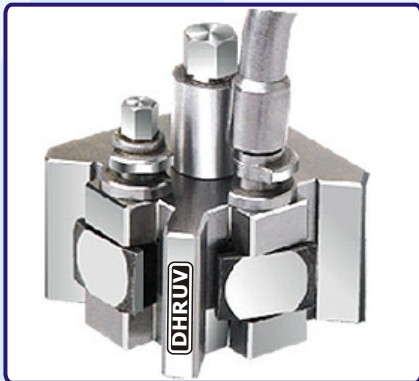
Product no.	Size	Set Description
DQCTP-01A	Small	1 Main Post, 1 Std. Turning Tool Holders, 1 Vee Tool Holder, 1 Parting Tool Holder, 1 Boring Tool Holder 1 Wrench Set of 2 Pc.
DQCTP-01B	Medium	
DQCTP-01C	Big	

5 in 1 Tool Post Set-Soft



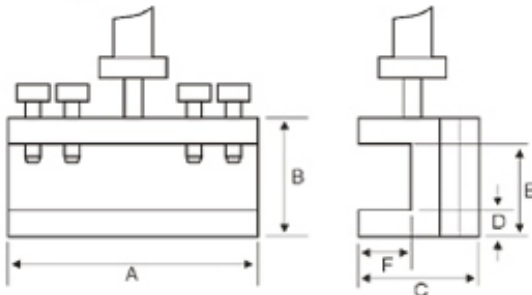
Product no.	Set Description
DQCTP-02	1 Main Post, 1 Turning and Facing Holder, 1 Parting Tool Holder, 1 Knurling Tool Holder, 1 Boring Tool Holder, 1 Vee Tool Holder 1 Wrench Set of 2 Pc.

22. Quick Change Tool Post



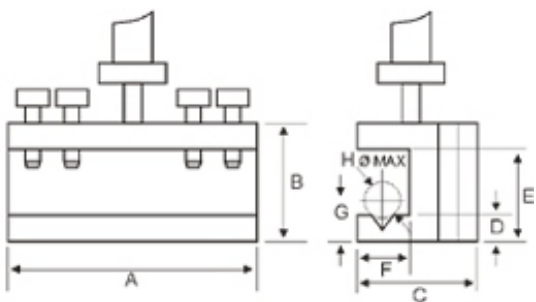
Product No.	Main Post mm	Mounting
DQCTP-01A	60 x 60 x 38	2 Holders
DQCTP-01B	75 x 75 x 50	2 Holders
DQCTP-01C	100 x 100 x 75	2 Holders

Individual tool holders
turning tool holder Std



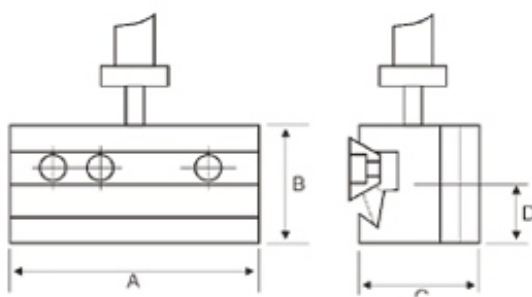
Product No.	A mm	B mm	C mm	D mm	E mm	F mm
DQCTP-T1	58	27.5	28	6	13.5	10
DQCTP-T2	73	35	32	8	17	14
DQCTP-T3	98.5	50	39.5	13	22	19

VEE Groove Holder



Product No.	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm
DQCTP-V1	58	27.5	28	8	13.5	10	13.5	13
DQCTP-V2	73	35	32	11	17	14	16	16
DQCTP-V3	98.5	50	39.5	12	22	19	22.5	19

Parting Tool Holder



Product No.	A mm	B mm	C mm	D mm
DQCTP-P1	58	32.5	28	16.5
DQCTP-P2	73	48	32	27
DQCTP-P3	98.5	57	39.5	33.5

23. Rocker / Shaper Tool Post



Product no.	Set Description	Dimensions (mm) Slot Size (A x B)
DSTP-01	Big	19 x 70
DSTP-02	Medium	19 x 48
DSTP-03	Small	12 x 58



24. SPARE SHANKS FOR BORING HEADS



Shank Style	Thread Size	
	7/8" - 20 TPI	1-1/2" - 18 TPI
R-8	DSS-01A	DSS-01B
MT - 2	DSS-02A	DSS-02B
MT - 3	DSS-03A	DSS-03B
MT - 4	DSS-04A	DSS-04B
1/2" Straight	DSS-05A	DSS-05B
3/4" Straight	DSS-06A	DSS-06B
1" Straight	DSS-07A	DSS-07B

25. ARBOR NT SHANK



Product No.	SHANK	CHUCK MOUNT	DRAWBAR THREADS
DAR-2301	NT - 30	JT - 3	M12 x 1.75 P
DAR-2302	NT - 30	JT - 6	M12 x 1.75 P
DAR-2303	NT - 30	B - 16	M12 x 1.75 P
DAR-2304	NT - 40	JT - 3	M16 x 2.0 P
DAR-2305	NT - 40	JT - 6	M16 x 2.0 P
DAR-2303	NT - 40	B - 16	M16 x 2.0 P

26. ADAPTOR NT SHANK



Product No.	SHANK	CHUCK MOUNT	DRAWBAR THREADS
DAD-2401	NT - 30	MT - 2	M12 x 1.75 P
DAD-2402	NT - 30	MT - 3	M12 x 1.75 P
DAD-2403	NT - 40	MT - 2	M16 x 2.0 P
DAD-2404	NT - 40	MT - 3	M16 x 2.0 P
DAD-2405	NT - 40	MT - 4	M16 x 2.0 P

27. END MILL HOLDER NT SHANK

* Manufactured for hardened steel.

* Supplied in NT & R8 Shanks.



Product No.		SHANK	BORE SIZE		DRAWBAR THREADS
Inch	mm		Inch	mm	
DEMH-2501A	DEMH-2501B	NT 30	1/4	6	M12 x 1.75 P
DEMH-2502A	DEMH-2502B	NT 30	3/8	10	M12 x 1.75 P
DEMH-2503A	DEMH-2503B	NT 30	1/2	12	M12 x 1.75 P
DEMH-2504A	DEMH-2504B	NT 30	5/8	16	M12 x 1.75 P
DEMH-2505A	DEMH-2505B	NT 40	1/4	6	M16 x 2.00 P
DEMH-2506A	DEMH-2506B	NT 40	3/8	10	M16 x 2.00 P
DEMH-2507A	DEMH-2507B	NT 40	1/2	12	M16 x 2.00 P
DEMH-2508A	DEMH-2508B	NT 40	5/8	16	M16 x 2.00 P
DEMH-2509A	DEMH-2509B	NT 40	3/4	20	M16 x 2.00 P
DEMH-2510A	DEMH-2510B	NT 40	7/8	22	M16 x 2.00 P
DEMH-2511A	DEMH-2511B	NT 40	1	25	M16 x 2.00 P
DEMH-2512A	DEMH-2512B	R - 8	1/4	6	7/16" UNF 20
DEMH-2513A	DEMH-2513B	R - 8	3/8	10	7/16" UNF 20
DEMH-2514A	DEMH-2514B	R - 8	1/2	12	7/16" UNF 20
DEMH-2515A	DEMH-2515B	R - 8	5/8	16	7/16" UNF 20
DEMH-2516A	DEMH-2516B	R - 8	3/4	20	7/16" UNF 20

28. SHELL END MILL ARBOR

* Manufactured from Alloy steel.

* Supplied in NT & R8 Shanks.

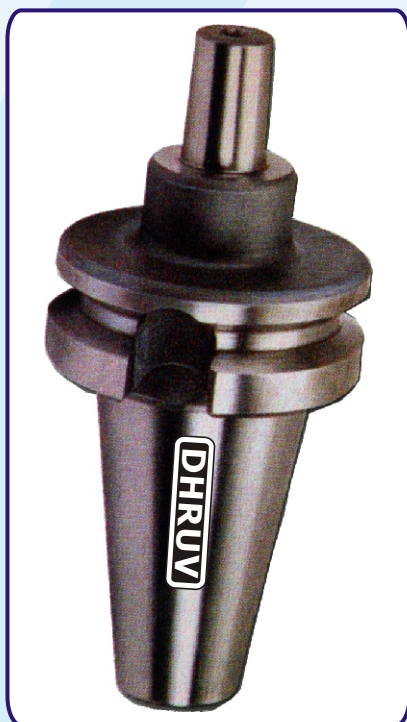


Product No.	SHANK	SIZE MM	DRAWBAR THREADS
DSEMA-2601	NT - 30	22	M12 x 1.75 P
DSEMA-2602	NT - 30	27	M12 x 1.75 P
DSEMA-2603	NT - 30	32	M12 x 1.75 P
DSEMA-2604	NT - 40	22	M16 x 2.00 P
DSEMA-2605	NT - 40	27	M16 x 2.00 P
DSEMA-2606	NT - 40	32	M16 x 2.00 P
DSEMA-2607	NT - 40	40	M16 x 2.00 P
DSEMA-2608	R - 8	22	7/16" UNF 20
DSEMA-2609	R - 8	27	7/16" UNF 20
DSEMA-2610	R - 8	32	7/16" UNF 20

29. DRILL CHUCK ADAPTORS

* Manufactured for Alloy steel.

* V-Flange for machining centers.



Product No.	SHANK	CHUCK MOUNT	LENGTH MM
DDCA-2701	BT - 30	JT - 2	45
DDCA-2702	BT - 30	JT - 6	45
DDCA-2703	BT - 30	JT - 3	45
DDCA-2704	BT - 30	B - 16	45
DDCA-2705	BT - 30	B - 18	45
DDCA-2706	BT - 40	JT - 2	45
DDCA-2707	BT - 40	JT - 2	90
DDCA-2708	BT - 40	JT - 6	45
DDCA-2709	BT - 40	JT - 6	90
DDCA-2710	BT - 40	JT - 3	45
DDCA-2711	BT - 40	JT - 3	90
DDCA-2712	BT - 40	B - 16	90

30. FACE MILL ARBORS

* Manufactured for Alloy steel.

* V-Flange for machining centers.

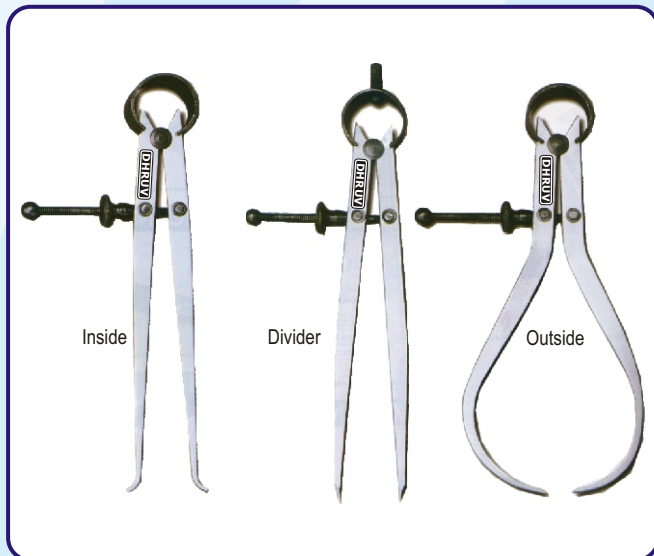


Product No.	SHANK	SIZE MM	LENGTH MM
DFMA-2801	BT - 30	22	45
DFMA-2802	BT - 30	27	45
DFMA-2803	BT - 40	22	45
DFMA-2804	BT - 40	22	60
DFMA-2805	BT - 40	27	45
DFMA-2806	BT - 40	27	60
DFMA-2807	BT - 40	27	90
DFMA-2808	BT - 40	32	45
DFMA-2809	BT - 40	32	60

31. SPRING CALIPERS - FLAT LEG

- * Made of good quality carbon steel & finely polished legs
- * Comes with quick action release nut & rivets
- * Any other sets can also be supplied on request.

Product No. Divider	Product No. Inside	Product No. Outside	LENGTH	
			Inch	MM
DSCD-2901	DSCI-3001	DSCO-3101	4	100
DSCD-2902	DSCI-3002	DSCO-3102	5	125
DSCD-2903	DSCI-3003	DSCO-3103	6	150
DSCD-2904	DSCI-3004	DSCO-3104	8	200
DSCD-2905	DSCI-3005	DSCO-3105	10	250
DSCD-2906	DSCI-3006	DSCO-3106	12	300
DSCD-2907	DSCI-3007	DSCO-3107	18	450
DSCD-2908	DSCI-3008	DSCO-3108	24	600
DSCD-2909	DSCI-3009	DSCO-3109	36	900
DSCD-2910	3 Pc set of 4" Divider, Inside & Outside			
DSCD-2911	3 Pc set of 6" Divider, Inside & Outside			
DSCD-2912	3 Pc set of 8" Divider, Inside & Outside			



32. STEEL VEE BLOCKS

- * Made of best quality steel, hardened throughout .

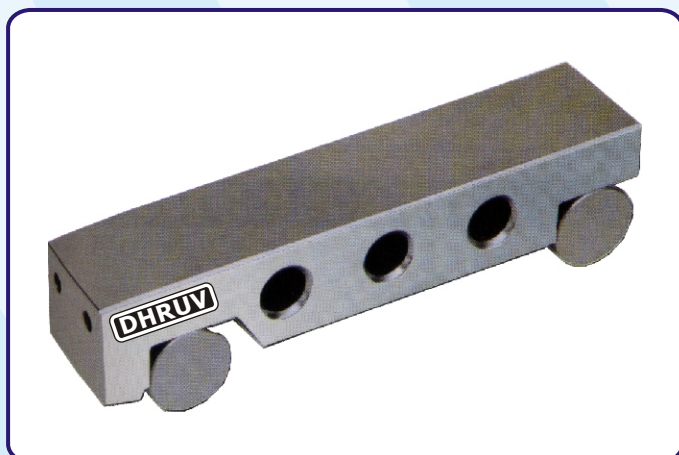
Product No.	Length X Width X Height		Clamping Capacity	
	Inch	mm	Inch	mm
DVB-3201	1-5/8 x 1-1/4 x 1-1/4	40 x 32 x 32	1	25
DVB-3202	2 x 1-1/2 x 1-1/2	50 x 38 x 38	1-1/2	38
DVB-3203	1-3/4 x 1-5/8 x 1-3/8	45 x 40 x 35	1	25
DVB-3204	2-3/4 x 1-3/4 x 1-5/8	70 x 45 x 40	1-1/2	38
DVB-3205	2-1/2 x 2 x 2	63 x 50 x 50	2	50
DVB-3206	3-1/8 x 2-1/2 x 2-1/2	80 x 63 x 63	2-1/2	63
DVB-3207	2 x 1-5/8 x 2	50 x 40 x 50	1-1/4	30
DVB-3208	3 x 2-1/8 x 2-1/8	75 x 55 x 55	2	50
DVB-3209	4 x 3 x 3	100 x 75 x 75	2-3/4	70



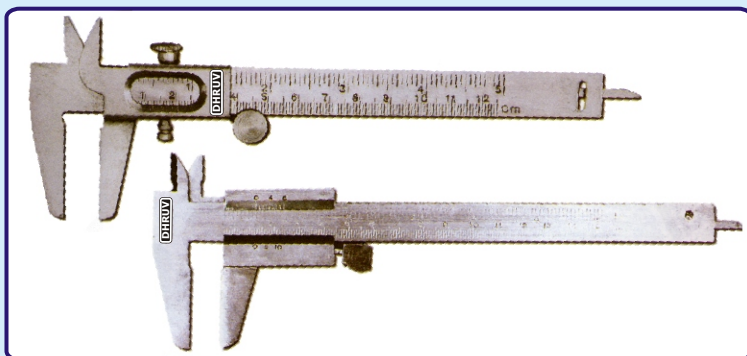
33. SINE BARS

- * Made of high quality alloy steel.

Product No.	Model No.	Width	Distance Between Rollers
DSB-3301	AA	15/16"	5"
DSB-3302	AA	1"	10"
DSB-3303	BB	1"	2-1/2"
DSB-3304	BB	1"	5"
DSB-3305	CC	30 mm"	100 mm"
DSB-3306	CC	30 mm"	200 mm"
DSB-3307	DD	7/32"	3"



34. ECONOMY VERNIER CALIPERS



Product No.	Description	Range	
		Inch	mm
DVC-3401	Columbus Type	0 - 5	0 - 125
DVC-3402	Columbus Type	0 - 6	0 - 150
DVC-3403	Precision Type	0 - 6	0 - 150
DVC-3404	Precision Type	0 - 8	0 - 200
DVC-3405	Precision Type	0 - 10	0 - 250
DVC-3406	Precision Type	0 - 12	0 - 300

* Handy tool for In, Out and depth measurement.

Columbus Type features Thumb controlled movement with locking device.

* Precision Type => Thumb controlled ball movement and is Nickel Plated.

* Graduations in Metric & Imperial.

35. BRASS VERNIER CALIPER



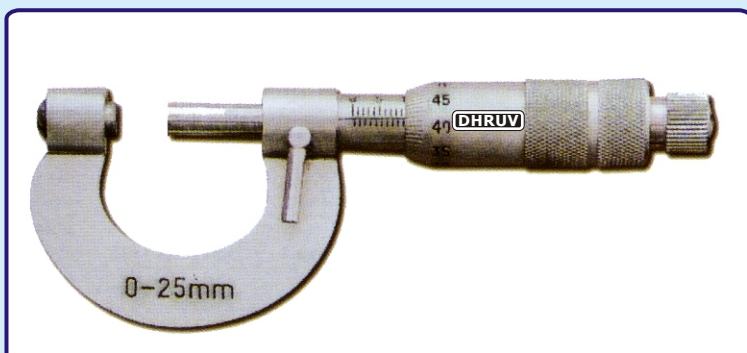
* Constructed from good quality brass.

* Graduations are engraved in both Imperial & Metric sizes.

* Also available in silver sliding gauge.

Product No.	Description	Range	
		Inch	mm
DVC-3501	Precision Type	0 - 2.5	0 - 60
DVC-3502	Precision Type	0 - 3	0 - 80
DVC-3503	Precision Type	0 - 4	0 - 100

36. ECONOMY MICROMETERS



Product No.	Size Inches	Size mm
DMM-3601	0 - 1	0 - 25
DMM-3602	1 - 2	25 - 50
DMM-3603	2 - 3	50 - 75
DMM-3604	3 - 4	75 - 100
DMM-3605	4-5	100-125
DMM-3606	5-6	125-150

* Available in both Imperial & metric sizes.

Useful instrument for majority of measuring applications

37. MILLING MACHINE VICE - MVS

- * Manufactured from closed Grain high tensile Seasoned Cast Iron.
- * Swivel Base Model has 360° graduations

Product No.	Jaw Width (mm)	Jaw Depth (mm)	Maximum Opening(mm) +	Swivel Indexing	Overall Height (mm)	Approx Weight (Kg.)
DMVS2"	50	24	50	360°	75	3.5
DMVS3"	75	34	75	360°	96	9.0
DMVS4"	100	39	100	360°	120	18.0
DMVS5"	125	46	125	360°	140	31.0
DMVS6"	150	48	150	360°	148	39.0

38. SWIVEL & TILTING MACHINE VICE 2 WAY - STV

- * Manufactured from high Grade Seasoned Casting.
- * Horizontal Swivel Movement 360°.
- * Vertical Swivel Movement 90°.

Product No.	Jaw Width Width	Jaw Depth (mm)	Maximum Opening (mm)+	Swivel Indexing	Vertical Indexing	Overall height (mm)	Approx Weight (Kg.)
DSTV 2"	50	24	50	360°	0 to 90°	90	3.5
DSTV 3"	75	34	75	360°	0 to 90°	127	9.5
DSTV 4"	100	39	100	360°	0 to 90°	146	18.0
DSTV 5"	125	46	125	360°	0 to 90°	180	32.0

39. SWIVEL & TILTING ANGLE VICE 3 WAY-SOTV

- *The Vice has 2 angular slides which allow the work piece to be set at any desired angle, 45° Tilting range on either sides & 90° Vertical Indexing.
- * The 360° Swivel Base further allows rotation along vertical axis.
- * Hardened & Ground Jaw Plates.

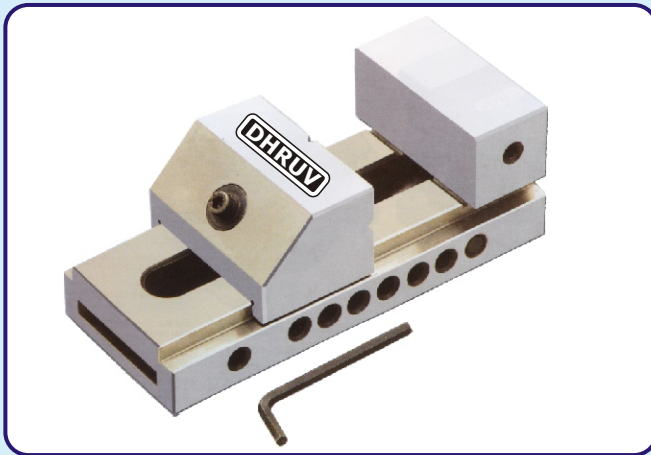
Product No.	Jaw Width (mm)	Jaw Depth (mm)	Maximum Opening(mm) +	Swivel Indexing	Tilting Range Each Side	Vertical Indexing	Overall Height (mm)	Approx Weight (Kg.)
DSOTV 2"	50	24	50	360°	45°	0 to 90°	115	4
DSOTV 3"	75	34	75	360°	45°	0 to 90°	159	10
DSOTV 4"	100	39	100	360°	45°	0 to 90°	190	20.5
DSOTV 5"	125	46	125	360°	45°	0 to 90°	238	38

40. SELF CENTERING VICE Swivel Base - SCV

- * Allows Self Centering for accurate centering of jobs automatically.
- * A Milled slot in the vice base allows for accurate location of the vice on machine table using rectangular locating nuts.

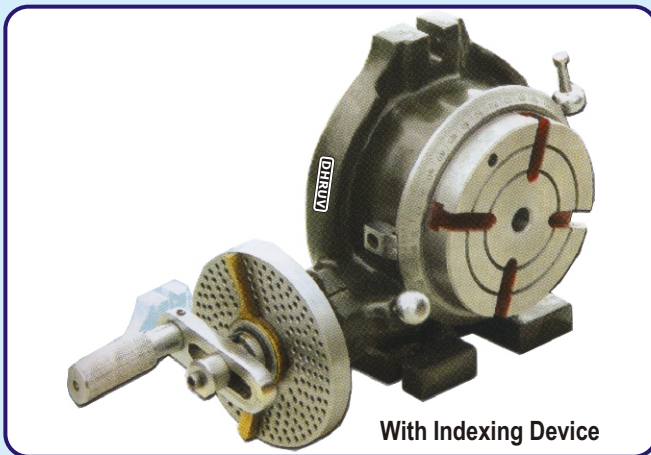
Product No.	Jaw Width (mm)	Jaw Depth (mm)	Maximum Opening(mm) +	Swivel Indexing	Overall Height (mm)	Approx Weight (Kg.)
DSCV 2"	50	24	50	360°	85	3.25
DSCV 4"	100	39	100	360°	125	15.0
DSCV 5"	125	46	125	360°	145	27.0
DSCV 6"	150	48	150	360°	165	35.0

41. TOOLMAKERS STEEL VICE - SCREWLESS TYPE



- * Hardened & Ground Steel Vice
- * The rapid positioning notched allow the vice to be locked at any desired position by allen key.
- * V-Groves in jaws facilitates holding of round jobs.

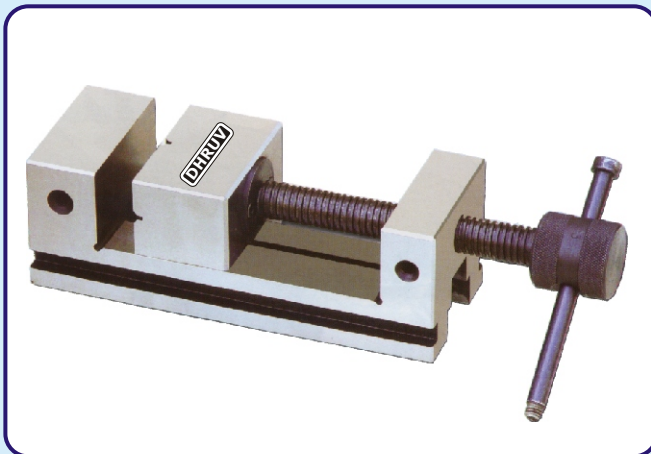
Product No.	Jaw Width		Jaw Depth		Jaw Opening		Jaw Length	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm
DTV-3701	2	50	1-1/16	30	3-1/8	80	6	150
DTV-3702	3	75	1-3/8	35	3-3/4	95	7	175



With Indexing Device

42. ROTARY TABLES HORIZONTAL & VERTICAL

Product No. Without Indexing Device	Product No. With Indexing Device	Tables Size	
		Inch	mm
DRT-3801A	DRT-3801B	4	100
DRT-3802A	DRT-3802B	6	150
DRT-3803A	DRT-3803B	8	200
DRT-3804A	DRT-3804B	10	250
DRT-3805A	DRT-3805B	12	300
DRT-3806A	DRT-3806B	15	375
DRT-3807A	DRT-3807B	18	450
DRT-3808A	DRT-3808B	20	500



43. TOOLMAKERS STEEL VICE-SCREW TYPE

- * Manufactured from selected tool steel and single piece construction are fully hardened & tempered to ensure longer life and stability.
- * Clamping & releasing is through a threaded spindle with square threads for smoother operation.

Product No.	Jaw Width		Jaw Depth		Jaw Opening		Jaw Length	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm
DTV-3901	2-3/8	60	15/16	23	2-3/16	55	4-5/16	110
DTV-3902	3	75	1-9/16	40	3	75	7-7/8	200



44. DRILL PRESS VICE - HEAVY DUTY

- * Manufactured from close grained cast iron.
- * V - Grooves provided in stable jaws to ensure firm gripping of round jaws.

Product No.	Jaw Width		Jaw Depth		Jaw Opening	
	Inch	mm	Inch	mm	Inch	mm
DPV-4001	3-3/16	80	1	25	3-27/64	87
DPV-4002	4	100	1-1/4	32	4	100