

113 - Straight Round Nose Tools

TOOL NO.	SIZE	RATE
	1010	275.00
	1212	302.00
	1616	425.00
	2020	659.00
	2525	951.00
	3232	117.00
	1610	330.00
	2012	402.00
	2516	550.00
	3220	766.00

115 - Cranked Round Nose Tools

TOOL NO.	SIZE	RATE
	1010	302.00
	1212	322.00
	1616	442.00
	2020	659.00
	2525	951.00
	3232	1846.00
	1610	362.00
	2012	425.00
	2516	580.00
	3220	806.00

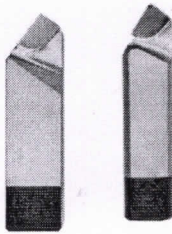
116 - Bar Tinning Tools

TOOL NO.	SIZE	RATE
	1010	249.00
	1212	275.00
	1616	366.00
	2020	543.00
	2525	842.00
	3232	1454.00
	1610	296.00
	2012	478.00
	2516	682.00
	3220	936.00

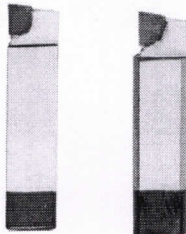
122 Pointed Turning Tools

TOOL NO.	SIZE	RATE
	1010	275.00
	1212	337.00
	1616	372.00
	2020	508.00
	2525	724.00
	3232	1796.00
	1610	366.00
	2012	389.00
	2516	508.00
	3220	758.00

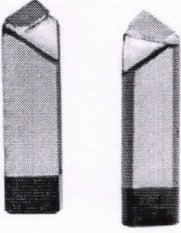
140 - (60°) Boring Tools

TOOL NO.	SIZE	RATE
	DIA.08	275.00
	DIA.10	275.00
	DIA.12	322.00
	DIA.16	418.00
	DIA.20	750.00
	DIA.25	972.00
	0808	317.00
	1010	317.00
	1212	364.00
	1616	508.00
	2020	808.00
	2525	1065.00

141 - (90°) Boring Tools

TOOL NO.	SIZE	RATE
	DIA.08	275.00
	DIA.10	275.00
	DIA.12	322.00
	DIA.16	418.00
	DIA.20	750.00
	DIA.25	972.00
	0808	317.00
	1010	317.00
	1212	364.00
	1616	508.00
	2020	808.00
	2525	1065.00

142 - (45°) Boring Tools

TOOL NO.	SIZE	RATE
	DIA.08	275.00
	DIA.10	275.00
	DIA.12	322.00
	DIA.16	418.00
	DIA.20	750.00
	DIA.25	972.00
	0808	317.00
	1010	317.00
	1212	364.00
	1616	508.00
	2020	808.00
	2525	1065.00

ISO 1 - BAR TURNING TOOLS

TOOL NO.	SIZE	RATE
	1010	252.00
	1212	275.00
	1616	372.00
	2020	593.00
	2525	889.00
	3232	1450.00
	4040	2965.00
	1610	296.00
	2012	410.00
	2516	549.00
	3220	937.00
	5032	3527.00

ISO 2 - CRANKED TURNING & FACING

TOOL NO.	SIZE	RATE
	1010	275.00
	1212	302.00
	1616	418.00
	2020	580.00
	2525	872.00
	3232	1501.00
	4040	2965.00
	1610	326.00
	2012	442.00
	2516	593.00
	3220	942.00
	5032	3527.00

ISO 3 - CRANKED FINISHING TOOLS

TOOL NO.	SIZE	RATE
	1010	275.00
	1212	302.00
	1616	418.00
	2020	580.00
	2525	872.00
	3232	1501.00
	4040	2965.00
	1610	326.00
	2012	442.00
	2516	593.00
	3220	942.00
	5032	3527.00

ISO 4 - RECESSING TOOLS

TOOL NO.	SIZE	RATE
	1010	275.00
	1212	339.00
	1616	503.00
	2020	758.00
	2525	1235.00
	3232	2438.00
	1610	372.00
	2012	397.00
	2516	583.00
	3220	1127.00

ISO 5 - CRANKED FACING TOOLS

TOOL NO.	SIZE	RATE
	1010	275.00
	1212	302.00
	1616	418.00
	2020	580.00
	2525	872.00
	3232	1501.00
	4040	2965.00
	1610	326.00
	2012	442.00
	2516	593.00
	3220	942.00
	5032	3527.00

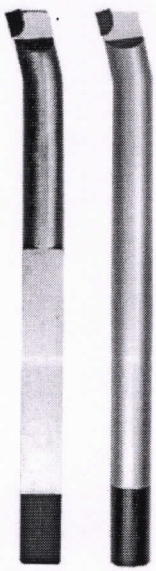
ISO 6 - CRANKED KNIFE TOOLS

TOOL NO.	SIZE	RATE
	1010	275.00
	1212	302.00
	1616	418.00
	2020	580.00
	2525	872.00
	3232	1501.00
	4040	2965.00
	1610	326.00
	2012	442.00
	2516	593.00
	3220	942.00
	5032	3527.00

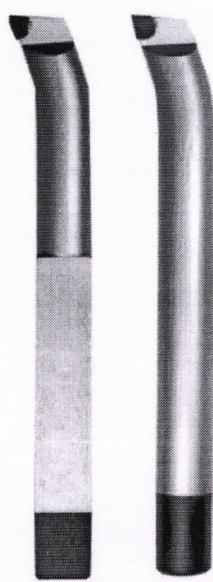
ISO 7 - PARTING OFF TOOLS

TOOL NO.	SIZE	RATE
	1010	325.00
	1212	374.00
	1616	415.00
	2020	458.00
	2525	615.00
	3232	977.00
	1208	326.00
	1610	346.00
	2012	384.00
	2516	508.00
	3220	817.00
	4025	1150.00

ISO 8 - BORING TOOLS

TOOL NO.	SIZE	RATE
	0808	507.00
	1010	543.00
	1212	593.00
	1616	712.00
	2020	872.00
	2525	1629.00
	3232	2118.00
	Ø 08	470.00
	Ø 10	507.00
	Ø 12	543.00
	Ø 16	625.00
	Ø 20	762.00
	Ø 25	1450.00
	Ø 32	1846.00

ISO 9 - BORING TOOLS

TOOL NO.	SIZE	RATE
	0808	507.00
	1010	543.00
	1212	593.00
	1616	712.00
	2020	872.00
	2525	1629.00
	3232	2118.00
	Ø 08	470.00
	Ø 10	507.00
	Ø 12	543.00
	Ø 16	625.00
	Ø 20	762.00
	Ø 25	1450.00
	Ø 32	1846.00

163 - STRAIGHT TURNING & GROOVING

TOOL NO.	SIZE	RATE
	1010	337.00
	1212	384.00
	1616	580.00
	2020	845.00
	2525	1412.00
	3232	2850.00
	4040	2032.00
	1610	330.00
	2012	420.00
	2516	636.00
	3220	1042.00
	4025	1660.00

156 - CRANKED INTERNAL RECESSING

TOOL NO.	SIZE	RATE
	1010	570.00
	1212	650.00
	1616	725.00
	2020	947.00
	2525	1292.00

166 - INTERNAL THREADING

TOOL NO.	SIZE	RATE
	1010	657.00
	1212	745.00
	1616	812.00
	2020	992.00
	2525	1297.00

165 - STRAIGHT THREADING

TOOL NO.	SIZE	RATE
	1010	364.00
	1212	385.00
	1616	501.00
	2020	682.00
	2525	1014.00
	1610	435.00
	2012	545.00
	2516	652.00
	3220	1050.00

IND 2 - EXTERNAL THREADING TOOL

TOOL NO.	SIZE	RATE
	1616	590.00
	2020	862.00
	2525	1095.00

THREADING TOOLS WITH

166 "V" PROFILE

TOOL NO.	SIZE	RATE
	11 V	825.00
	12 V	1005.00
	13 V	1402.00

Indian Standard Application of Carbides for Machining. Ranges of application and Colour Code Selection Guideline for Tip Grade

Identification Colour	Designation	Material to be Machined
	P20	Steel, steel casting, Malleable cast iron forming long chips Machining Conditions Turning & Milling-Medium cutting speed and medium chip section, Planing with small chip section
	P30	Steel, steel casting, Malleable cast iron forming long chips Machining Conditions Turning, Milling & Planing-Medium or low cutting speed, medium or large chip section and machining under unfavourable conditions such as heat erogenous materials, changing hardness or chip section,intermittent turning or subject to vibrations.
	P40	Steel, steel casting with sand inclusions or shrinkage cavities Machining Conditions Turning, Planing & Shapping-Low cutting speed, large chip section with possibility of using large rake angle for machining under unfavourable conditions, such as heat erogenous materials, changing hardness or chip sections, intermittent turning or subject to vibrations; and work on automatic machines.
	K10	Grey cast iron of hardness more than 220 HB, Malleable cast iron forming short chips, Tempered steel, Aluminium alloys containing silicon, copper alloys, plastics, glass, hard rubber, hard cardboard, porcelain, stone. Machining Conditions Turning, Milling, Boring, Scraping
	K20	Grey cast iron of hardness up to 220 HB, Non-ferrous metals, such as Copper, Brass, . Aluminium, Laminated wood of abrasive type Machining Conditions Turning, Milling, planing, requiring high toughness.



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