

# ZENSTAR

Quality Tooling Redefined





## CARBIDE TIPPED BRAZED TOOLS

PRICE LIST EFFECTIVE FROM 01-01-2023



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

Identification Color	Designation	Material to be machined
	<b>P 20</b>	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
	<b>P 30</b>	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 unfavorable conditions such as heterogeneous materials, changing hardness of chip section, or intermittent turning or subject to vibrations.
	<b>P40</b>	Steel, Steel casting with sand inclusions of shrinkage cavities Machining conditions Turning, Planing & shaping , Low cutting speed, large chip section with possibility of using large rake angle, for machining under unfavorable conditions, such as heterogeneous materials, changing hardness or chip sections, intermittent turning or subject to vibrations; and work on automatic machines.
	<b>K 10</b>	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.
	<b>K 20</b>	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, Planning, requiring high toughness of carbide tip.

**For more information on dimensions,lengths,size of carbide tips,different designs,rate angle, entering angle and other specific details please refer to our catalogue**


**We have also provided details of brazed tools for export purposes, which can be manufactured on special request.**


**AVAILABILITY CHART**


SIZE	RIGHT HAND	LEFT HAND	NEUTRAL
ISO 1	✓	✓	
ISO 2	✓	✓	
ISO 3	✓	✓	
ISO 4			✓
ISO 5	✓	✓	
ISO 6	✓	✓	
ISO 7	✓	✓	
ISO 8	✓	✓	
ISO 9	✓	✓	
113			✓
115	✓	✓	


**AVAILABILITY CHART**


SIZE	RIGHT HAND	LEFT HAND	NEUTRAL
116	✓	✓	
122			✓
140	✓	✓	
141	✓	✓	
142	✓	✓	
163			✓
165	✓	✓	
166	✓	✓	
IND 2	✓	✓	
V PROFILE			✓

TOOL TYPE / NO.	SHANK SIZE H X B (mm)	Rs. / PC
<b>BAR TURNING TOOL NO. 110 ISO 1</b> 	1010	375
	1212	405
	1616	550
	2020	875
	2525	1310
	3232	2140
	4040	4400
	5050	9000
	1610	440
	2012	610
	2516	815
	3220	1375
	4025	2220
	5032	5055
	6040	9200

TOOL TYPE / NO.	SHANK SIZE H X B (mm)	Rs. / PC
<b>RECESSING TOOL NO. 127 ISO 4</b> 	1010	405
	1212	500
	1616	745
	2020	1115
	2525	1820
	3232	3595
	4040	8875
	5050	15940
	1610	550
	2012	590
	2516	865
	3220	1665
	4025	2880
	5032	5480

TOOL TYPE / NO.	SHANK SIZE H X B (mm)	Rs. / PC
<b>CRANKED TURNING &amp; FACING TOOL NO. 111 ISO 2</b> 	1010	405
	1212	445
	1616	620
	2020	855
	2525	1290
	3232	2215
	4040	4305
	5050	9140
	1610	480
	2012	650
	2516	875
	3220	1390
	4025	2490
	5032	5155
	6040	9365

TOOL TYPE / NO.	SHANK SIZE H X B (mm)	Rs. / PC
<b>CRANKED FACING TOOL NO. 126 ISO 5</b> 	1010	405
	1212	445
	1616	620
	2020	855
	2525	1290
	3232	2215
	4040	4305
	5050	9140
	1610	480
	2012	650
	2516	875
	3220	1390
	4025	2490
	5032	5155

TOOL TYPE / NO.	SHANK SIZE H X B (mm)	Rs. / PC
<b>CRANKED FINISHING TOOL NO. 123 ISO 3</b> 	1010	405
	1212	445
	1616	620
	2020	855
	2525	1290
	3232	2215
	4040	4305
	5050	9140
	1610	480
	2012	650
	2516	875
	3220	1390
	4025	2490
	5032	5155
	6040	9365

TOOL TYPE / NO.	SHANK SIZE H X B (mm)	Rs. / PC
<b>CRANKED KNIFE TOOL NO. 117 ISO 6</b> 	1010	405
	1212	445
	1616	620
	2020	855
	2525	1290
	3232	2215
	4040	4305
	5050	9140
	1610	480
	2012	650
	2516	875
	3220	1390
	4025	2490
	5032	5155

Note : The above prices are same for  
all 4 grades I.E K10,K20,P30,P40

TOOL TYPE / NO.	SHANK SIZE H X B (mm)	Rs. / PC
<b>PARTING OFF TOOL NO. ISO 7</b>	1010	490
	1212	550
	1616	615
	2020	675
	2525	905
	3232	1435
	1006	405
	1208	480
	1610	515
	2012	570
	2516	750
	3220	1205
	4025	1990
	5032	2815

<b>BORING TOOL NO.130 - 131 ISO 8</b>	DIA. 08	695
	DIA. 10	750
	DIA. 12	800
	DIA. 16	920
	DIA. 20	1125
	DIA. 25	2140
	DIA. 32	2720
	O808	750
	1010	800
	1212	875
	1616	1050
	2020	1290
	2525	2400
	3232	3120
	4040	4530
	5050	8320

<b>BORING TOOL NO. 135 - 137 ISO 9</b>	DIA. 08	695
	DIA. 10	750
	DIA. 12	800
	DIA. 16	920
	DIA. 20	1125
	DIA. 25	2140
	DIA. 32	2720
	O808	750
	1010	800
	1212	875
	1616	1050
	2020	1290
	2525	2400
	3232	3120
	4040	4530
	5050	8320

TOOL TYPE / NO.	SHANK SIZE B (mm) H X	Rs. / PC
<b>STRAIGHT ROUND NOSE TOOL NO. 113</b>	1010	405
	1212	445
	1616	625
	2020	975
	2525	1400
	3232	2605
	4040	4840
	1610	490
	2012	595
	2516	815
	3220	1130
	4025	2270
	5032	4250

<b>CRANKED ROUND NOSE TOOL NO. 115</b>	1010	445
	1212	475
	1616	650
	2020	975
	2525	1400
	3232	2725
	4040	5040
	1610	540
	2012	625
	2516	855
	3220	1190
	4025	2370

<b>BAR TURNING TOOL NO. 116</b>	1010	370
	1212	405
	1616	545
	2020	800
	2525	1240
	3232	2145
	4040	4230
	5050	9000
	1610	440
	2012	705
	2516	1005
	3220	1375
	4025	2215

<b>POINTED TURNING TOOL NO. 122</b>	1010	405
	1212	500
	1616	550
	2020	750
	2525	1070
	3232	2645
	4040	4855
	5050	5295
	1610	545
	2012	575
	2516	750
	3220	1120
	4025	1860
	5032	3915

Note : The above prices are same for  
all 4 grades I.E K10,K20,P30,P40

TOOL TYPE / NO.	SHANK SIZE H X B (mm)	Rs. / PC
BORING TOOL NO. 140 (60 DEGREE)	DIA. 08	405
	DIA. 10	405
	DIA. 12	475
	DIA. 16	620
	DIA. 20	1105
	DIA. 25	1430
	O808	470
	1010	470
	1212	540
	1616	750
	2020	1190
	2525	1570

BORING TOOL NO.141 (90 DEGREE)	DIA. 08	405
	DIA. 10	405
	DIA. 12	475
	DIA. 16	620
	DIA. 20	1105
	DIA. 25	1430
	O808	470
	1010	470
	1212	540
	1616	750
	2020	1190
	2525	1570

BORING TOOL NO.142 (45 DEGREE)	DIA. 08	405
	DIA. 10	405
	DIA. 12	475
	DIA. 16	620
	DIA. 20	1105
	DIA. 25	1430
	O808	470
	1010	470
	1212	540
	1616	750
	2020	1190
	2525	1570


STRAIGHT TURNING & GROOVING TOOL NO. 163	1010	500
	1212	565
	1616	855
	2020	1245
	2525	2080
	3232	4530
	4040	8700
	1610	490
	2012	620
	2516	940
	3220	1540
	4025	2300


TOOL TYPE / NO.	SHANK SIZE H X B (mm)	Rs. / PC
PULLEY GROOVING TOOL NO. 164	1616 - 32°-150-NW4.9	1300
	1616 - 34°-150-NW4.6	1300
	1616 - 36°-150-NW4.3	1300
	1616 - 38°-150-NW3.9	1300
	2020 - 32°-175-NW6.5	1775
	2020 - 34°-175-NW6.0	1775
	2020 - 36°-175-NW5.5	1775
	2525 - 34°-200-NW8.5	3290
	2525 - 36°-200-NW8.0	3290
	2525 - 38°-200-NW7.4	3290
	2516 - 32°-150-NW4.9	1490
	2516 - 34°-150-NW4.6	1490
	2516 - 36°-150-NW4.3	1490
	2516 - 38°-150-NW3.9	1490
	3220 - 32°-175-NW6.5	1990
	3220 - 34°-175-NW6.0	1990
	3220 - 36°-175-NW5.5	1990
	3220 - 38°-175-NW5.1	1990
	4025 - 34°-200-NW8.5	3790
	4025 - 36°-200-NW8.0	3790
	4025 - 38°-200-NW7.4	3790


EXTERNAL THREADING TOOL NO. 165	1010	540
	1212	570
	1616	740
	2020	1005
	2525	1495
	3232	1975
	1610	655
	2012	755
	2516	905
	3220	1465
	4025	2165


INTERNAL THREADING TOOL NO. 166	1010	890
	1212	1000
	1616	1090
	2020	1330
	2525	1745
	3232	2630
	DIA. 10	875
	DIA. 12	990
	DIA. 16	1090
	DIA. 20	1320
	DIA. 25	1740
	DIA. 32	2610


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TOOL TYPE / NO.	SHANK SIZE H X B (mm)	Rs. / PC
THREADING TOOL WITH 166 " V " PROFILE	11V	815
	12V	990
	13V	1375
	14V	1925
		


EXTERNAL THREADING TOOL NO. IND 2	1010	630
	1212	745
	1616	790
	2020	875
	2525	1465
	1610	655
	2012	755
	2516	905
	3220	1465
	4025	2165
		


INTERNAL THREADING TOOL NO. IND 3	O808	890
	1010	890
	1212	1000
	1616	1090
	2020	1330
	2525	1745
	3232	2630
		


TURNING TOOL NO. 196	O404	740
	O505	740
	O606	875
	O707	965
	O808	970
	1010	1055
	1212	1065
	1414	1165
		

PARTING TOOL NO. 197	O404	740
	O505	740
	O606	875
	O707	965
	O808	970
	1010	1055
	1212	1065
		

TOOL TYPE / NO.	SHANK SIZE H X B (mm)	Rs. / PC
CRANKED INTERNAL RECESSING TOOL NO. 156	1010	770
	1212	875
	1616	980
	2020	1265
	2525	1730
	3232	2465
	4040	4090
		

ROLLER GROOVING TOOLS	2525 (35°)	3820
	2525 (40°)	3820
	2525 (45°)	3820
	2525 (50°)	3820
	2525 (55°)	3820
	3232 (35°)	7200
	3232 (40°)	7200
	3232 (45°)	7200
	3232 (50°)	7200
	3232 (55°)	7200
	4040 (35°)	8875
	4040 (40°)	8875
	4040 (45°)	8875
	4040 (50°)	8875
	4040 (55°)	8875
	3225 (35°)	7200
	3225 (40°)	7200
	3225 (45°)	7200
	3225 (50°)	7200
	3225 (55°)	7200
		

BRAZED SCRAPERS TOOL NO. 620	1315	2250
	1320	2465
	1325	2710
	1330	2940
		

MESSCHAERT GROOVING TOOLS	3232 (6mm)	4015
	3232 (8mm)	4825
	3232 (10mm)	5265
	4040 (6mm)	4845
	4040 ( 8mm)	5660
	4040 (10mm)	6090
		

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## TERMS AND CONDITIONS

ALL GOVT. TAXES AND LEVIES ARE ADDITIONAL TO THESE PRICES

WE ALSO MANUFACTURE SPECIAL PRODUCTS AS PER YOUR REQUIREMENTS & DRAWINGS

THIS PRICELIST IS EFFECTIVE FROM 01-01-2023 & supersedes all previous price lists.

ANY PRODUCT DIMENSIONAL VARIABILITY MAY OCCOUR DUE TO VARIATION IN RAW MATERIAL

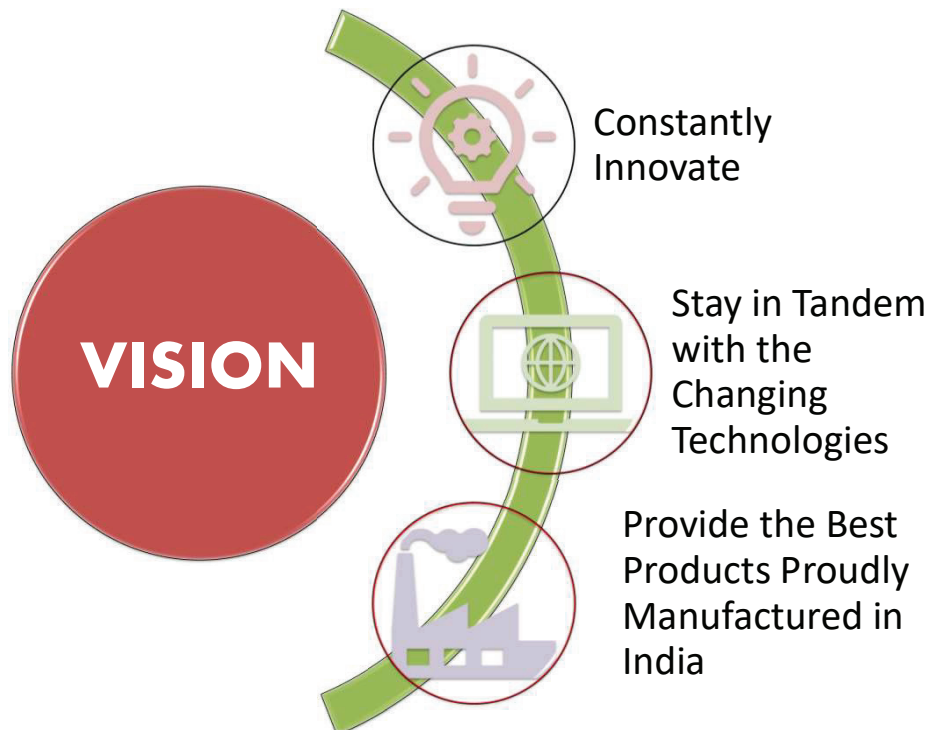
This Price List subject to alteration without prior notice and the prices are based on the present input costs.

ALL PRICES ARE F.O.R. MUMBAI



# ZENSTAR

is committed towards one primary goal  
**CUSTOMER SATISFACTION & LOYALTY**



*“Products are made in the factory,  
but brands are created in the mind”*



**TECHNO TOOLS IMPEX**



**ZENSTAR**

Quality Tooling Redefined

**ROTOZEN**

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