



TM



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**MIXING & MILLING**

**KNEADING**

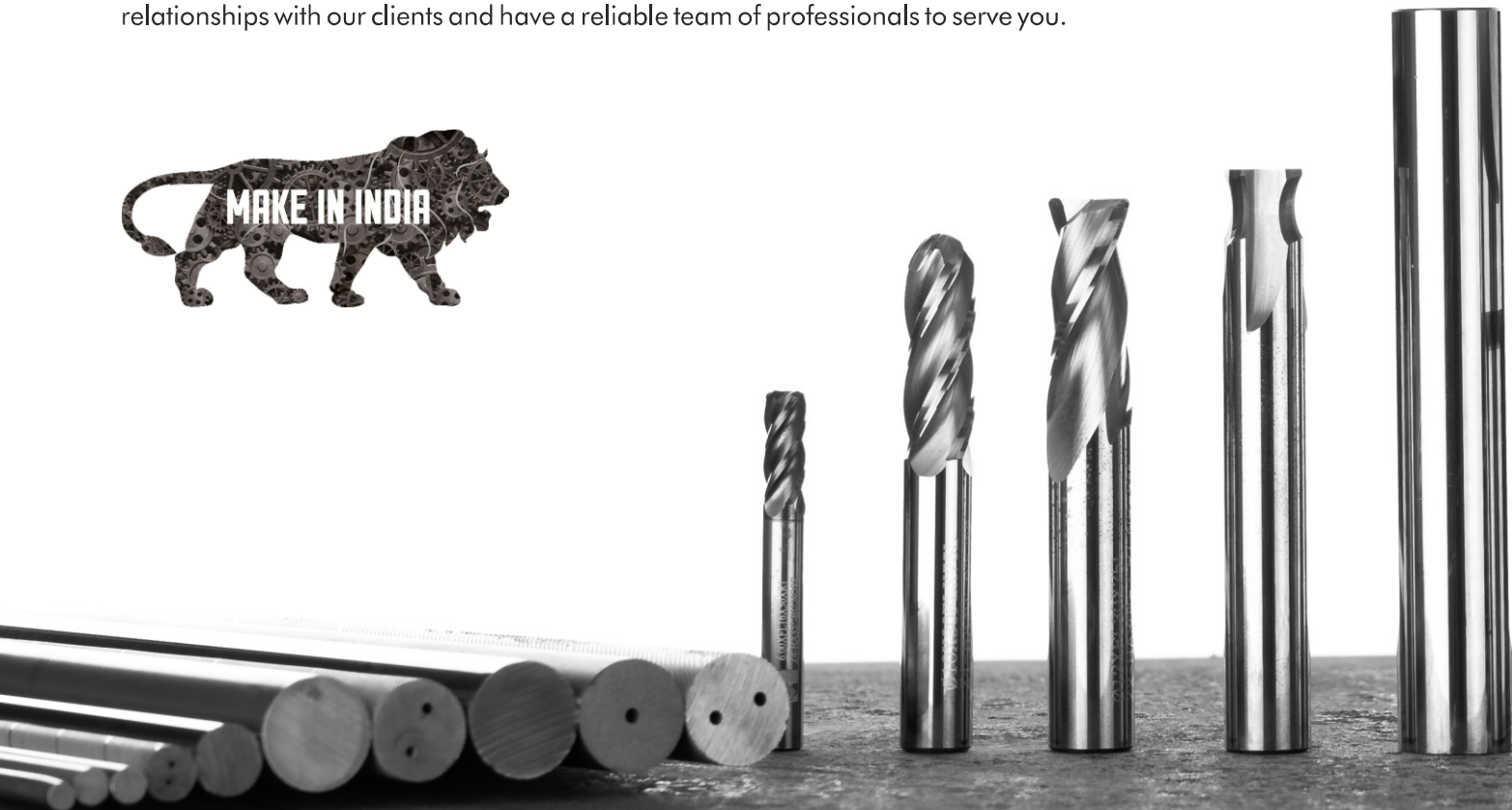
**EXTRUDING**

## ABOUT US

Founded in 1989, Mill Max Tools Pvt. Ltd. has been involved in the tool industry with manufacturing of HSS tools and supply of raw material to other tool manufacturers.

In 2012, Mill Max Tools Pvt Ltd stepped into field of Tungsten Carbide to open up the first tungsten carbide rod extrusion plant in India.

The company strives to cater to all cutting tool manufacturers and users in the Indian market and aims to substitute import. Our goal has been to provide uninterrupted supply of hi-quality raw materials to our clients, in time always. We have achieved highest stature in professionalism, quality control & integrity. We have over the years built strong business relationships with our clients and have a reliable team of professionals to serve you.







**DRYING**

**SINTERING**

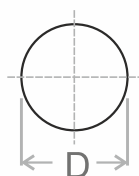
**GRINDING**



## GRADE PROPERTIES

PARAMETER	MR10X	MV15	MV20	MV25	MV25UF
ISO Grade	K20-K30	K20-K30	K20-K30	K30-K40	K30-K40
WC (%)	90	90	90	88	88
CO (%)	10	10	10	12	12
Hardness (HRA)	91.5	92.2	92.3	92.5	92.8
Grain Size ( $\mu$ mm)	0.8	0.8	0.6	0.6	0.4
Density (g/cm <sup>3</sup> )	14.35	14.35	14.40	14.10	14.05
T.R.S (N/mm <sup>2</sup> )	3600	3900	4000	4000	4200
Availability	In Stock	On Request	On Request	On Request	On Request

## SOLID RODS – UNGROUND



## SPECIFICATIONS

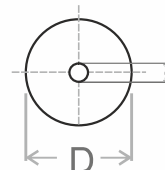
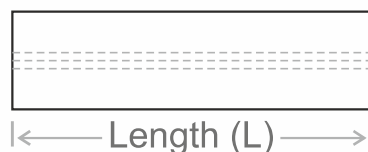
Diameters Offered (mm)			
3.5	10.5	17.5	28.7
4.5	11.5	18.5	30.7
5.5	12.5	20.6	32.7
6.5	13.5	22.6	34.8
7.4	14.5	24.6	36.8
8.4	15.5	25.7	38.8
9.4	16.5	26.7	40.8

Length (L) = 330mm

Parameter	Tolerance (mm)
Diameter	+0.2
Length	+2



## SINGLE HOLE ROD



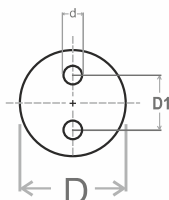
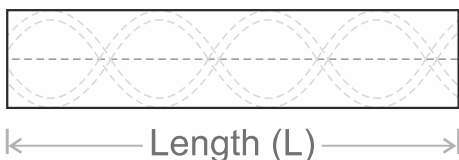
### SPECIFICATIONS

(all sizes in mm)

Diameter	Hole Dia	Diameter	Hole Dia
6.6	0.6	18.7	2.5
8.6	1	20.7	2.5
10.6	1.2	22.7	2.5
12.7	1.2	25.7	2.5
14.7	1.7	30.8	2.5
16.7	2.5	32.8	3

Parameter	Tolerance (mm)
Diameter	+0.2
Length	330 (+2)
Hole	+/- 0.1

## 30 DEGREE SPIRAL TWO HOLE RODS



### SPECIFICATIONS

(all sizes in mm)

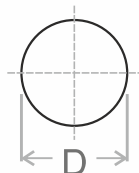
Diameter	Hole Dia	Outer to Outer Hole
6.8	0.7	2.6
8.8	1	4
10.9	1.4	4.8
12.9	1.4	6.25
14.9		7.1
16.9	1.75	8.3
18.9	2.3	9.55
20.9	2.3	10.4

Parameter	Tolerance (mm)
Diameter	+0.2
Length	330 (+2)
Hole	+/- 0.05
Helix	+/-1 degree





## SOLID RODS – GROUND



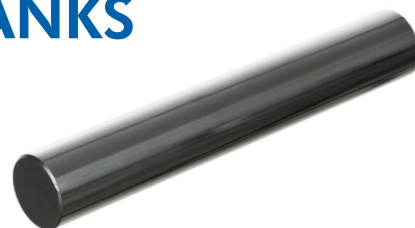
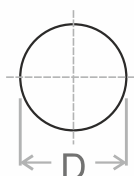
### SPECIFICATIONS

Length (L) = 330mm

Parameter	Tolerance (mm)
Diameter	Ground as per ISO h6
Length	+2

Diameters Offered (mm)			
2	7	12	17
2.5	7.5	12.5	17.5
3	8	13	18
3.5	8.5	13.5	18.5
4	9	14	19
4.5	9.5	14.5	19.5
5	10	15	20
5.5	10.5	15.5	22
6	11	16	24
6.5	11.5	16.5	25

## READY TO MACHINE GROUND BLANKS



### SPECIFICATIONS

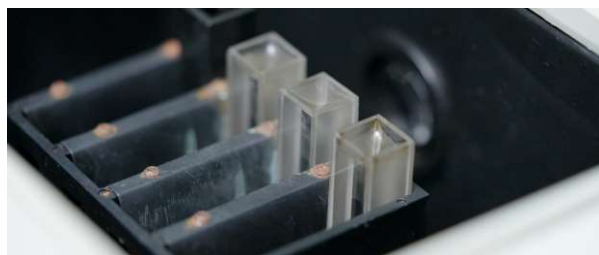
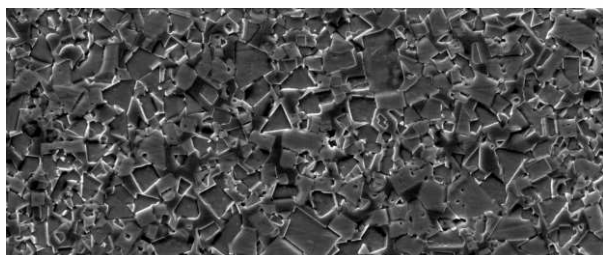
Diameter (mm)	Lengths available (mm)						
3	50	64	75	80	100	120	150
4	50	64	75	80	100	120	150
5	50	64	75	80	100	120	150
6	50	64	75	80	100	120	150
8		64	75	80	100	120	150
10			75	80	100	120	150
12			75	80	100	120	150
14			75	80	100	120	150
16					100	120	150
20					100	120	150

Parameter	Tolerance (mm)
Diameter	Ground as per ISO h6
Length	+1
Chamfer	0.5mm

## QUALITY CONTROL

All our products undergo strict online quality control procedures throughout the manufacturing process to ensure the promised quality committed to our customers. In house laboratory is equipped with state of the art machines, which ensures the quality to achieve 100% customer satisfaction.

Sr. No.	Test	Method	Standard
1	Particle Size Analyzer	Laser Scattering	-
2	Powder Fe Content	Spectrophotometer	-
3	Powder Co Content	Spectrophotometer	ISO 3909
4	Powder Total C Content	Spectrophotometer	ISO 3907
5	Powder Free C Content	Spectrophotometer	ISO 3908
6	Powder Ti Content	Spectrophotometer	ISO 4501
7	Elemental Analysis	X-Ray Fluorescence	-
8	Powder Density	Tap Density	ISO 3953
9	Powder Density	Apparent Density	ISO 3923
10	Sintered Density	Water Dispersion	IS 4841
11	Hardness	Rockwell	ISO 3738
12	Transverse Rupture Strength	3 Point Breaking	ISO 3327
13	Coercivity	Hysteresis Loop Tracer	ISO 3326
14	WC examination	Microscopic Analysis	ISO 4499
15	Binder Examination	Microscopic Analysis	ISO 4499
16	Cubic Lattice Examination	Microscopic Analysis	ISO 4499
17	Bend / Ovality Test	Dial Gauge Analysis	-
18	Internal Crack Detection	Ultrasonic Testing	-
19	Apparent Porosity	Microscopic Analysis	ISO 4505
20	Uncombined Carbon	Microscopic Analysis	ISO 4505





**Unit 1:**

A-369/370, MIDC Mahape, T.T.C. Industrial Area,  
Navi Mumbai - 400701, INDIA.

**Unit 2:**

A-273, MIDC Mahape, T.T.C. Industrial Area,  
Navi Mumbai - 400701, INDIA.

**Unit 3:**

A-372, MIDC Mahape, T.T.C. Industrial Area,  
Navi Mumbai - 400701, INDIA.

**Unit 4:**

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