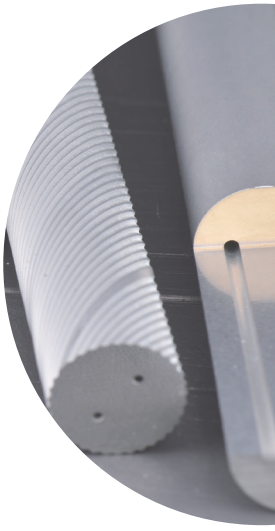
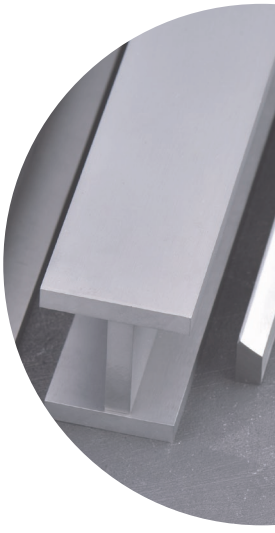
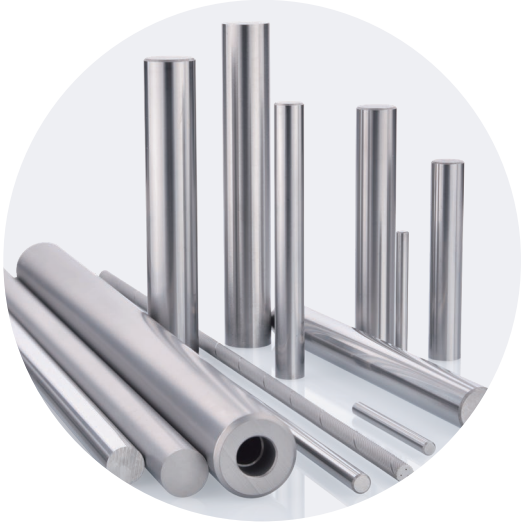
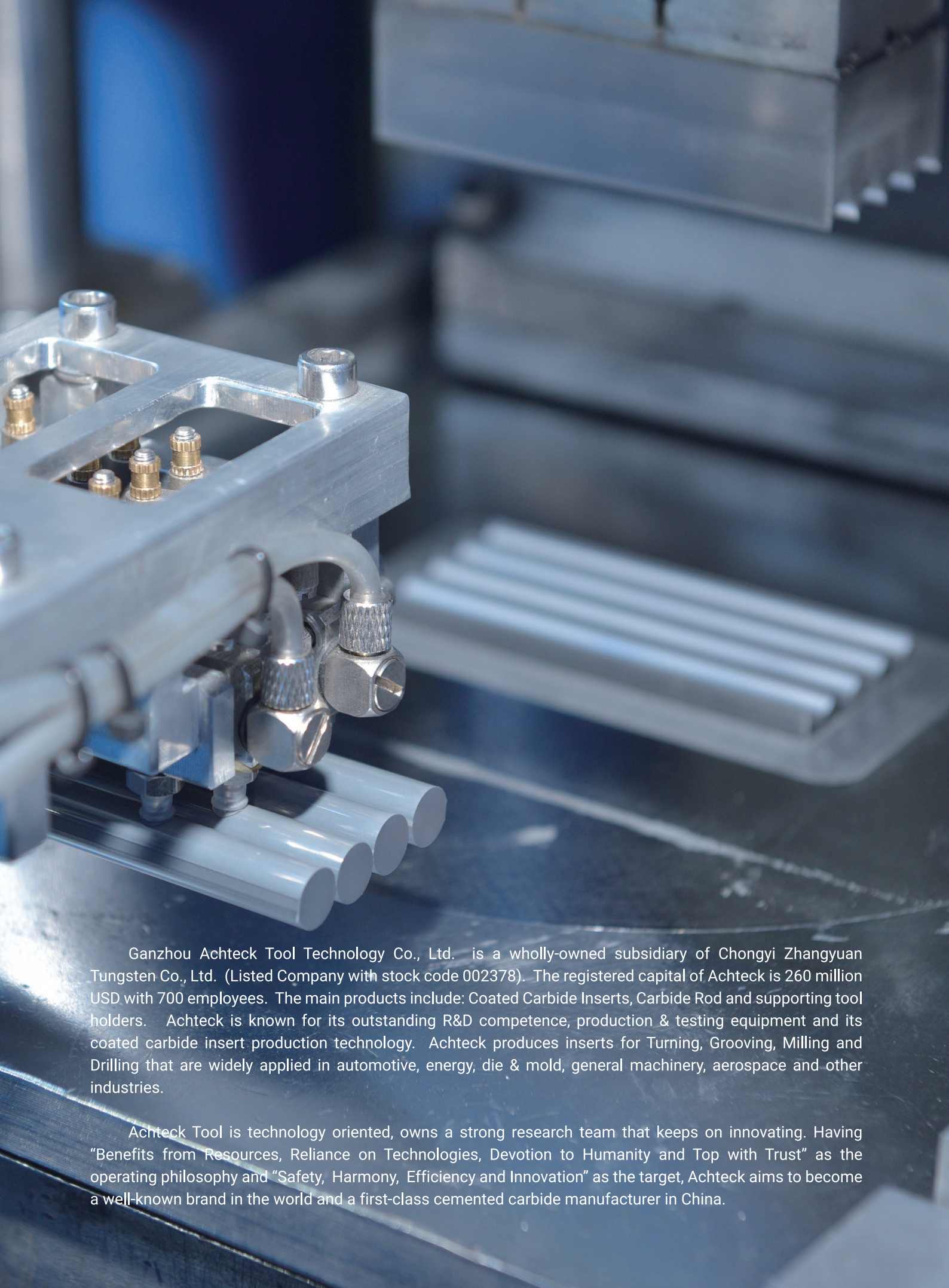
ACHTECK



CEMENTED CARBIDE RODS







Ganzhou Achteck Tool Technology Co., Ltd. is a wholly-owned subsidiary of Chongyi Zhangyuan Tungsten Co., Ltd. (Listed Company with stock code 002378). The registered capital of Achteck is 260 million USD with 700 employees. The main products include: Coated Carbide Inserts, Carbide Rod and supporting tool holders. Achteck is known for its outstanding R&D competence, production & testing equipment and its coated carbide insert production technology. Achteck produces inserts for Turning, Grooving, Milling and Drilling that are widely applied in automotive, energy, die & mold, general machinery, aerospace and other industries.

Achteck Tool is technology oriented, owns a strong research team that keeps on innovating. Having "Benefits from Resources, Reliance on Technologies, Devotion to Humanity and Top with Trust" as the operating philosophy and "Safety, Harmony, Efficiency and Innovation" as the target, Achteck aims to become a well-known brand in the world and a first-class cemented carbide manufacturer in China.

Content

Cemented Carbide Rods

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Coolant Rods

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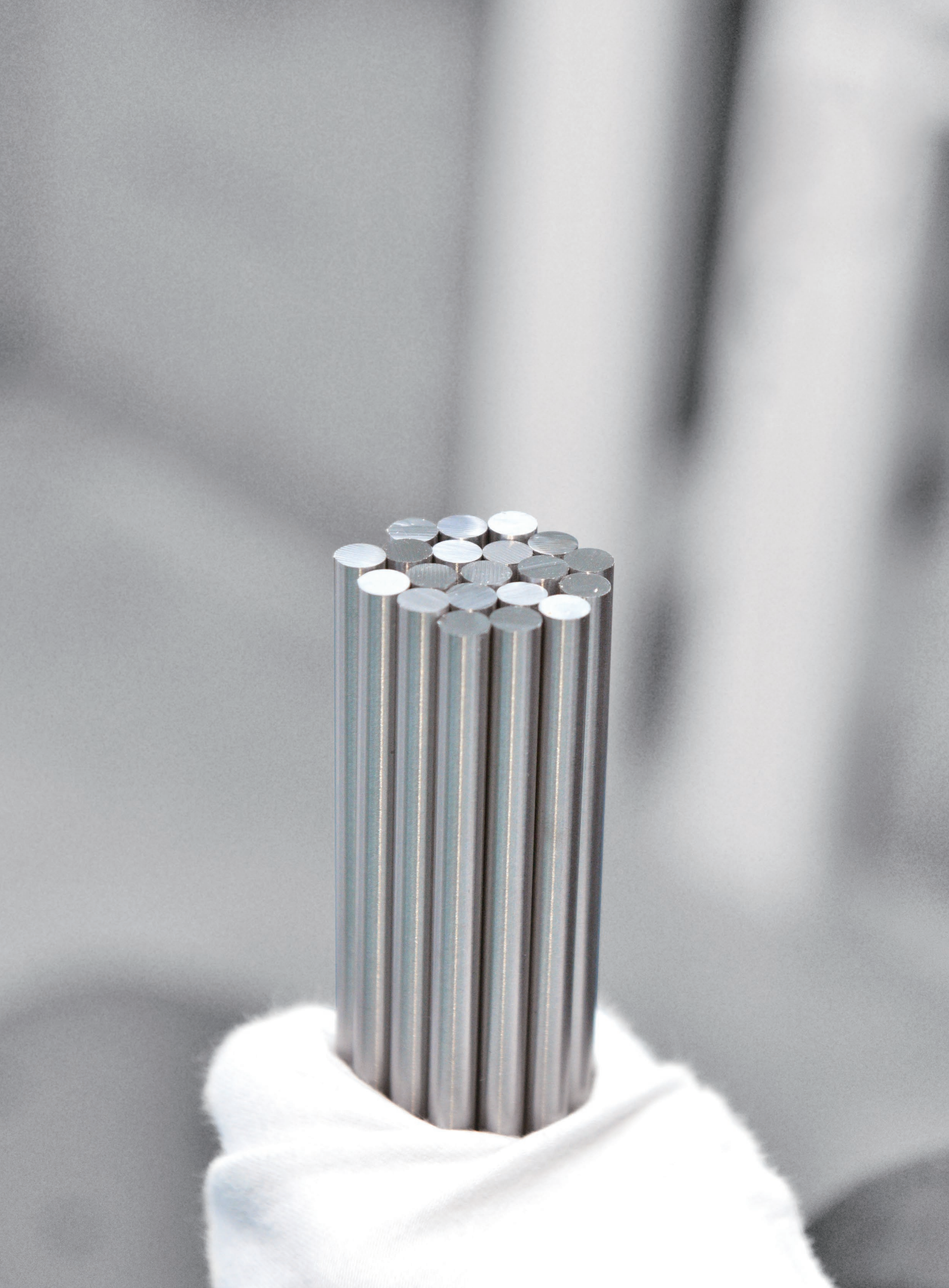


Denomination for Rod

Shape	Surface condition	Unit	Chamfer	Coolant* hole	Diameter		Diameter of* coolant holes		Distance between* coolant holes		Length	Grade
R	B	M	N	2H30	2000	-	320	-	1070	-	330	AK10F
1	2	3	4	5	6		7		8		9	10

1-Shape	
R	Round Rods

2-Surface Condition	
B	Sintered Rods
G	Ground to h6
P	Ground to h5

3-Unit	
M	Metric
I	Inch

4-Chamfer	
C	Chamfered
N	No Chamfer

5-Coolant Hole	
1S	1 Straight hole
2S	2 Straight holes
2H30	2 Helix Holes (30°)
3H30	3 Helix Holes (30°)

6-Diameter Note: In the metric system, the first digit is ten and the decimal digit is increased	
0400	Diameter 4mm
2000	Diameter 20mm
03175	Diameter 3.175mm
16/64	Diameter of Inch 17/64

7-Diameter of Coolant Holes Note: In the metric system, the first digit is the one digit	
320	Diameter of Coolant Hole 3.2mm

8-Distance Between Coolant Holes Note: In the metric system, the first digit is ten	
1070	Distance Between Coolant Holes is 10.7mm

9-Length Note: In the metric system, the first digit is hundreds and the decimal digit is increased	
330	Length 330mm
050	Length 50mm
0381	Length 38.1mm
1225	Length of Inch 12.25

10-Grade	
AK10F	Carbide Grade

Notes: * Solid rods without this option

Example: RBMN 1600-330 AK10F:Sintered rod without chamfer, diameter: 16mm, length:330mm, grade: AK10F
RGMC 1600-150 AK10F: Cut-to-length rod with chamfer, ground to h6, diameter: 16mm, length: 150mm, grade: AK10F
RBIN 17/64-1225 AK10F: Sintered rod without chamfer, diameter: 17/64inch, length: 12.25inch, grade: AK10F
RGMN2S 1600-200-0800-330 AK10F: Rod with 2 straight holes, no chamfer, ground to h6, diameter: 16mm, diameter of holes: 2mm, distance between holes: 8mm, length: 330mm, grade: AK10F
RBMN2H30 2000-320-1070-330 AK10F: Sintered rod with 2 helix holes (30°), no chamfer, diameter: 20mm, diameter of holes:3. 2mm, distance between holes: 10.7mm, length:330mm, grade: AK10F
RGMC 03175-0381 AK10F: Cut-to-length rod with chamfer, ground to h6, diameter: 3.175mm, length:38.1mm, grade: AK10F

Denomination for Strip

Shape	Thickness		Width		Length	Grade
TM	4	-	20	-	330	AK10F
1	2		3		4	5

1-Shape	
TM	Rectangular Strips
TM30	30° Trapezoidal Strips

2-Thickness	
4	Thickness 4mm

3-Width	
20	Width 20mm

4-Length	
330	Length 330mm

5-Grade	
AK10F	Carbide Grade

Cemented Carbide Production Process

Highly integrated entire process chain, from raw materials to finished products.

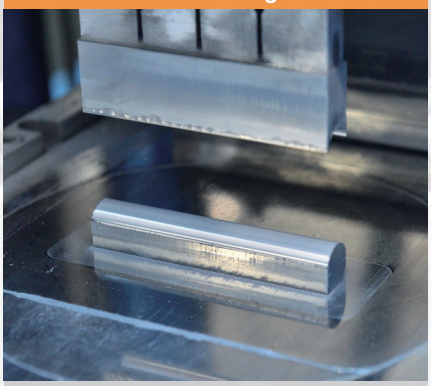
Mining

The main component of cemented carbide comes from tungsten ore.We have our own mines. We start from mining to ensure the quality and supply of raw materials. We control and ensure the product quality from the powder source.

Powder preparation

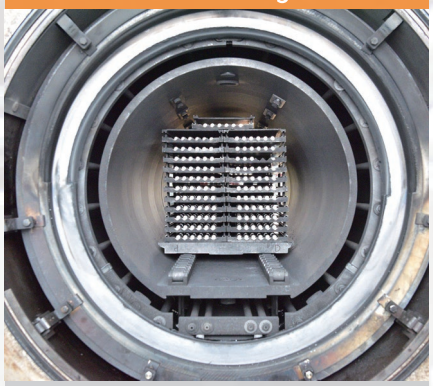
Tungsten ore evolved into tungsten carbide through smelting process, and finally prepared RTP powder. In recent 30 years, the company has developed and accumulated smelting technology. Our company has comprehensive grades covering almost all the machining applications, and even the nano grade with tungsten carbide grain as fine as 0.2 μm for hard machining.

Pressing



RTP powder is made into green part by pressing process. We have three ways of pressing blanks,traditional cold pressing, cold isostatic pressing and extrusion. As well, we possess the ability of soft shaping to reach net-shape products.

Sintering

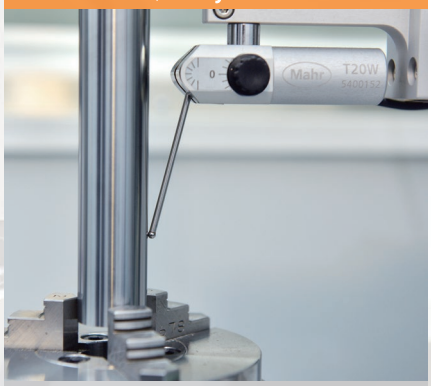


After sintering of high temperature, the green body becomes cemented carbide with high hardness. Achteck has the most advanced sintering equipments and match the unique sintering process to ensure the compactness and uniformity of the microstructure after sintering.

Grinding

According to different applications and customer requirements, cemented carbide products need to go through finishing processes such as grinding to meet the required size and accuracy. We always control the grinding accuracy with more tight tolerance.

Quality Control

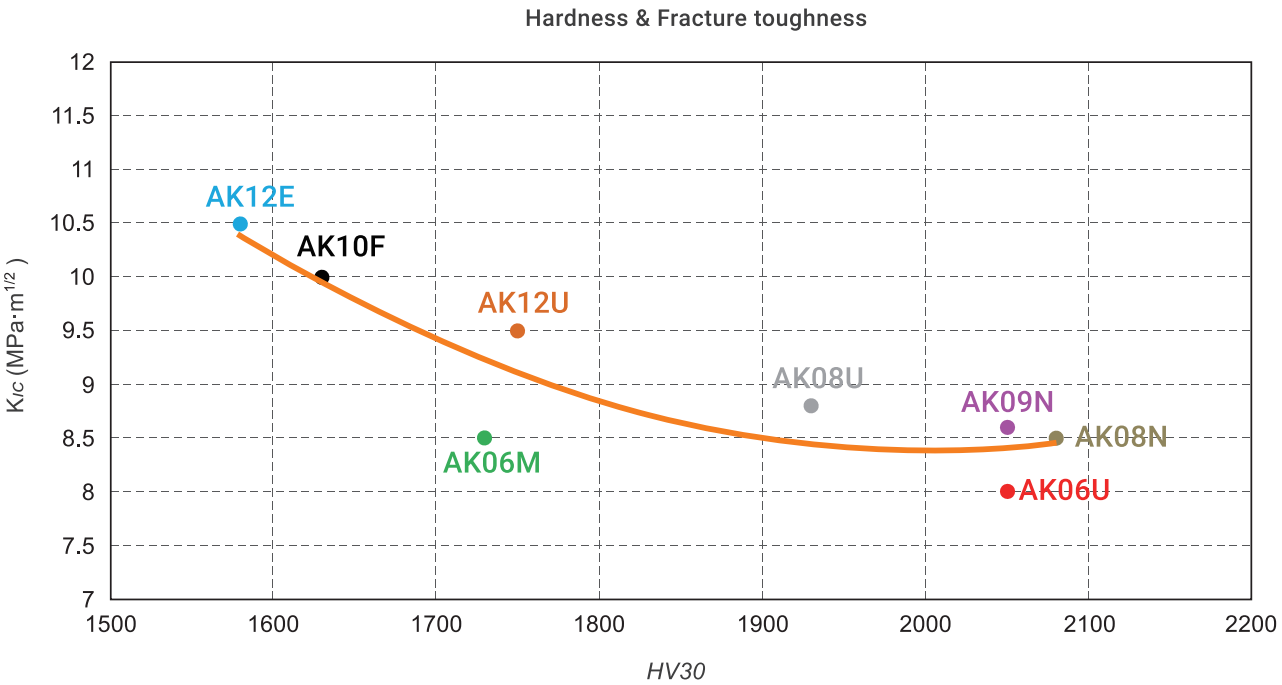


Any minor defect may seriously affect the performance of carbide products. The advantages of possessing a complete industrial chain enable us to strictly control the quality of all the production process, which to maintain the stability and consistency of product performance.

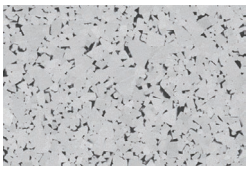
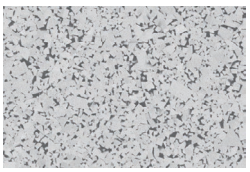
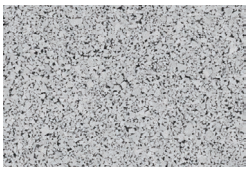
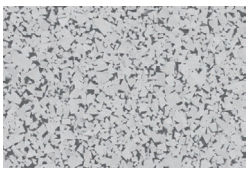
Achteck Grades

Grade	ISO code	Co%	Grain size (μm)	Hardness		Density (g/cm³)	TRS (Mpa)
				HRA	HV30		
AK06U	K05-K10	6	0.4-0.5	94	2050	14.70	3800
AK06M	K10-K20	6	1.0-1.2	92.5	1730	14.90	3000
AK08N	K05-K10	8	0.2	94.2	2080	14.50	3800
AK08U	K10-K20	8.5	0.4-0.5	93.2	1930	14.50	3800
AK09N	K05-K10	9	0.2	94	2050	14.45	4200
AK10F	K20-K40	10	0.6-0.8	91.8	1630	14.40	4000
AK12U	K20-K40	12	0.4-0.5	92.6	1750	14.10	4200
AK12E	K30-K40	12	0.6-0.8	91.5	1580	14.10	4000

*Due to the influence of sample preparation, measuring equipment, measurement method and other factors, the data in the table cannot be directly compared with the data measured by other methods



Grade Specifications

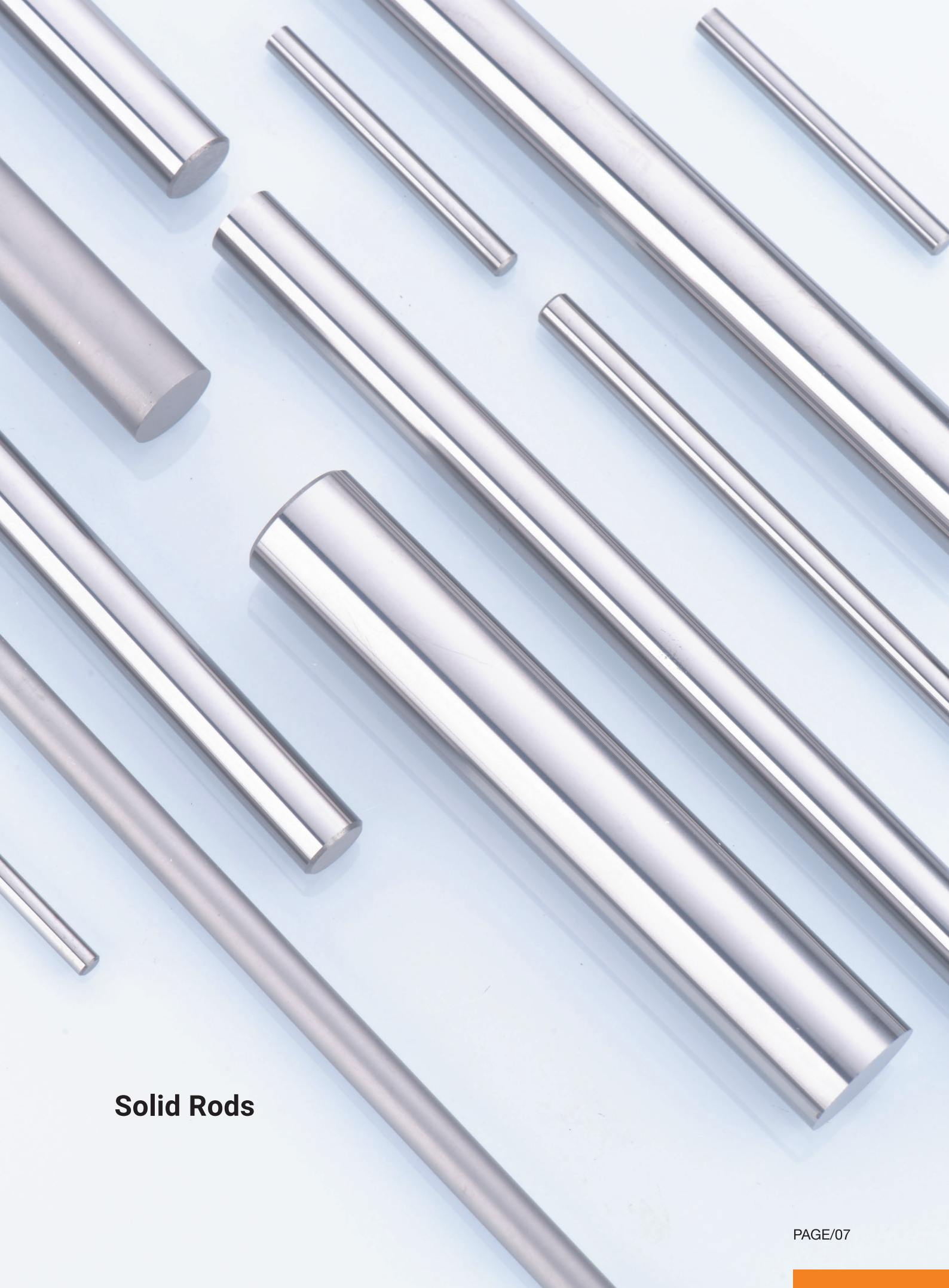
Grade	Microstructure (5000×)	Specifications and Applications
AK06U		• Ultra fine carbide grade (0.4-0.5μm), cobalt content6% • High wear resistance ➢ Milling, drilling ➢ PCB milling, wood machining, plastic machining
AK06M		• Fine carbide grade(1.0-1.2μm), cobalt content6% • Strong bonding strength for diamond coating ➢ Milling ➢ Suitable for machining copper alloy, high-silicon aluminum, graphite and composite materials, particularly suitable for diamond coating
AK08N		• Nano carbide grade (0.2μm), cobalt content8% • High hardness and strength ➢ PCB drills, mills
AK08U		• Ultra fine carbide grade (0.4-0.5μm), cobalt content8.5% • High wear resistance, excellent resistance to plastic deformation ➢ Milling, drilling ➢ Suitable for hardened machining (HRC50-HRC60) and composite materials machining, and gravers, PCB drills
AK09N		• Nano carbide grade (0.2μm), cobalt content9% • High wear resistance and strength ➢ Milling ➢ Suitable for hardened machining (above HRC55) ,finishing, CFRP(carbon fiber reinforced composites) and GFRP(glass fiber reinforced composites) machining
AK10F		• Extra fine carbide grade (0.6-0.8μm), cobalt content10% • Excellent chipping resistance ➢ Milling, drilling, reaming ➢ Suitable for machining steel, cast iron, non-ferrous metals, titanium alloy , high temperature alloy and so on
AK12U		• Ultra fine carbide grade (0.4-0.5μm), cobalt content12% • Well combined wear resistance and chipping resistance ➢ Milling, drilling, reaming ➢ Suitable for machining alloy steel, non-ferrous metals, stainless steel, titanium alloy, high temperature alloy and so on
AK12E		• Extra fine carbide grade (0.6-0.8μm), cobalt content12% • Excellent impact resistance and thermal fatigue resistance ➢ Milling, drilling ➢ Special for stainless steel and titanium alloy materials machining

Application recommendation

ISO Materials Classification	Machining		AK06U	AK06M	AK08N	AK08U	AK09N	AK10F	AK12U	AK12E
P Steel	Drilling							●		
	Milling	Roughing						●	○	
		Finishing						○	●	
M Stainless Steel	Drilling							●		●
	Milling	Roughing						○	○	●
		Finishing					○	○	●	
K Cast Iron	Drilling							●		
	Milling	Roughing						●	○	
		Finishing						○	●	
N Non-ferrous metals	Drilling							●		
	Milling	Roughing		☆				●	○	
		Finishing				○		○	●	
S Heat Resistant Material	Drilling							●	○	●
	Milling	Roughing				○		○		●
		Finishing						○	●	○
H Hardened Material	Drilling					○	○	●		
	Milling	Roughing				●	○		○	
		Finishing				○	●			
PCB			●	☆	●	○				
Graphite				☆						
Composite material			●	☆	●	●	○			

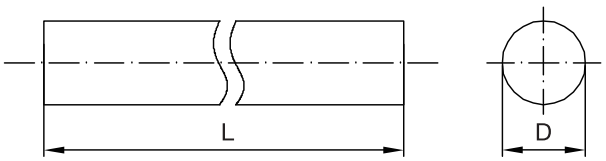
● 1st Choice ○ 2nd Choice ☆ Diamond Coating

*Note: Grade recommendation is for reference only, please consider the tool structure, coating and processing conditions for grade selection



Solid Rods

Solid Long Rods
Raw, Metric

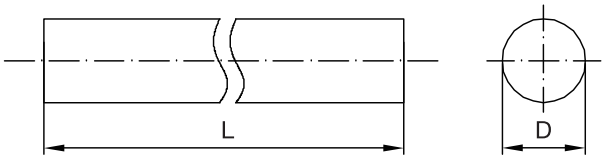


D mm		L mm		Type
2.00	+0.3/+0.5	310/330	+0.5/+6	RBMN 0200-310/330
3.00	+0.3/+0.5	310/330	+0.5/+6	RBMN 0300-310/330
4.00	+0.3/+0.5	310/330	+0.5/+6	RBMN 0400-310/330
5.00	+0.3/+0.5	310/330	+0.5/+6	RBMN 0500-310/330
6.00	+0.3/+0.5	310/330	+0.5/+6	RBMN 0600-310/330
7.00	+0.3/+0.5	310/330	+0.5/+6	RBMN 0700-310/330
8.00	+0.3/+0.5	310/330	+0.5/+6	RBMN 0800-310/330
9.00	+0.3/+0.55	310/330	+0.5/+6	RBMN 0900-310/330
10.00	+0.3/+0.55	310/330	+0.5/+6	RBMN 1000-310/330
11.00	+0.3/+0.55	310/330	+0.5/+6	RBMN 1100-310/330
12.00	+0.3/+0.55	310/330	+0.5/+6	RBMN 1200-310/330
13.00	+0.3/+0.55	310/330	+0.5/+6	RBMN 1300-310/330
14.00	+0.3/+0.55	310/330	+0.5/+6	RBMN 1400-310/330
15.00	+0.3/+0.6	310/330	+0.5/+6	RBMN 1500-310/330
16.00	+0.3/+0.6	310/330	+0.5/+6	RBMN 1600-310/330
17.00	+0.3/+0.6	310/330	+0.5/+6	RBMN 1700-310/330
18.00	+0.3/+0.6	310/330	+0.5/+6	RBMN 1800-310/330
19.00	+0.3/+0.6	310/330	+0.5/+6	RBMN 1900-310/330
20.00	+0.3/+0.6	310/330	+0.5/+6	RBMN 2000-310/330
21.00	+0.35/+0.75	310/330	+0.5/+6	RBMN 2100-310/330
22.00	+0.35/+0.75	310/330	+0.5/+6	RBMN 2200-310/330
23.00	+0.35/+0.75	310/330	+0.5/+6	RBMN 2300-310/330
24.00	+0.35/+0.75	310/330	+0.5/+6	RBMN 2400-310/330
25.00	+0.35/+0.75	310/330	+0.5/+6	RBMN 2500-310/330
26.00	+0.35/+0.75	310/330	+0.5/+6	RBMN 2600-310/330
27.00	+0.35/+0.75	310/330	+0.5/+6	RBMN 2700-310/330
28.00	+0.35/+0.75	310/330	+0.5/+6	RBMN 2800-310/330
29.00	+0.35/+0.75	310/330	+0.5/+6	RBMN 2900-310/330
30.00	+0.35/+0.75	310/330	+0.5/+6	RBMN 3000-310/330
31.00	+0.35/+0.75	310/330	+0.5/+6	RBMN 3100-310/330
32.00	+0.35/+0.75	310/330	+0.5/+6	RBMN 3200-310/330
33.00	+0.35/+0.75	310/330	+0.5/+6	RBMN 3300-310/330

Tolerance:

Diameter(mm)	Straightness(mm)
3≤D≤14	0.30
D＞14	0.35

Solid Long Rods
Raw, Metric

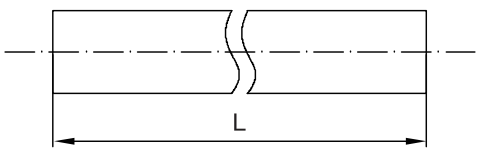


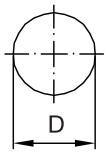
D mm	L mm	Type
34.00 +0.35/+0.75	310/330 +0.5/+6	RBMN 3400-310/330
35.00 +0.35/+0.75	310/330 +0.5/+6	RBMN 3500-310/330
36.00 +0.35/+0.75	310/330 +0.5/+6	RBMN 3600-310/330
37.00 +0.35/+0.75	310/330 +0.5/+6	RBMN 3700-310/330
38.00 +0.35/+0.75	310/330 +0.5/+6	RBMN 3800-310/330
39.00 +0.35/+0.75	310/330 +0.5/+6	RBMN 3900-310/330
40.00 +0.35/+0.75	310/330 +0.5/+6	RBMN 4000-310/330
41.00 +0.35/+0.75	310/330 +0.5/+6	RBMN 4100-310/330
42.00 +0.35/+0.75	310/330 +0.5/+6	RBMN 4200-310/330

Tolerance:

Diameter(mm)	Straightness(mm)
3≤D≤14	0.30
D＞14	0.35

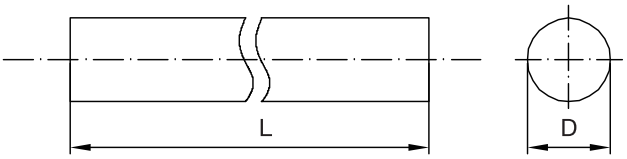
Solid Long Rods
Raw, Metric





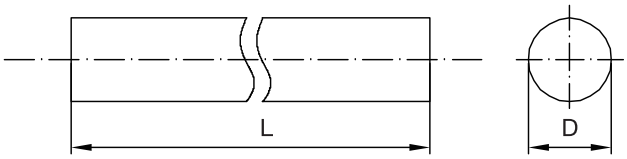
D inch		L inch		Type
1/8	+0.010/+0.025	12.25/13	0/+0.5	RBIN 1/8-1250/1300
9/64	+0.010/+0.025	12.25/13	0/+0.5	RBIN 9/64-1250/1300
5/32	+0.010/+0.025	12.25/13	0/+0.5	RBIN 5/32-1250/1300
11/64	+0.010/+0.025	12.25/13	0/+0.5	RBIN 11/64-1250/1300
3/16	+0.010/+0.025	12.25/13	0/+0.5	RBIN 3/16-1250/1300
13/64	+0.010/+0.025	12.25/13	0/+0.5	RBIN 13/64-1250/1300
3/32	+0.010/+0.025	12.25/13	0/+0.5	RBIN 3/32-1250/1300
15/64	+0.010/+0.025	12.25/13	0/+0.5	RBIN 15/64-1250/1300
1/4	+0.010/+0.025	12.25/13	0/+0.5	RBIN 1/4-1250/1300
9/32	+0.010/+0.025	12.25/13	0/+0.5	RBIN 9/32-1250/1300
19/64	+0.010/+0.025	12.25/13	0/+0.5	RBIN 19/64-1250/1300
5/16	+0.010/+0.025	12.25/13	0/+0.5	RBIN 5/16-1250/1300
21/64	+0.010/+0.025	12.25/13	0/+0.5	RBIN 21/64-1250/1300
11/32	+0.010/+0.025	12.25/13	0/+0.5	RBIN 11/32-1250/1300
23/64	+0.010/+0.025	12.25/13	0/+0.5	RBIN 23/64-1250/1300
3/8	+0.010/+0.025	12.25/13	0/+0.5	RBIN 3/8-1250/1300
25/64	+0.010/+0.025	12.25/13	0/+0.5	RBIN 25/64-1250/1300
13/32	+0.010/+0.025	12.25/13	0/+0.5	RBIN 13/32-1250/1300
27/64	+0.010/+0.025	12.25/13	0/+0.5	RBIN 27/64-1250/1300
7/16	+0.010/+0.025	12.25/13	0/+0.5	RBIN 7/16-1250/1300
29/64	+0.010/+0.025	12.25/13	0/+0.5	RBIN 29/64-1250/1300
15/32	+0.010/+0.025	12.25/13	0/+0.5	RBIN 15/32-1250/1300
31/64	+0.010/+0.025	12.25/13	0/+0.5	RBIN 31/64-1250/1300
1/2	+0.010/+0.025	12.25/13	0/+0.5	RBIN 1/2-1250/1300
17/32	+0.010/+0.025	12.25/13	0/+0.5	RBIN 17/32-1250/1300
9/16	+0.010/+0.025	12.25/13	0/+0.5	RBIN 9/16-1250/1300
5/8	+0.010/+0.025	12.25/13	0/+0.5	RBIN 5/8-1250/1300
11/16	+0.010/+0.025	12.25/13	0/+0.5	RBIN 11/16-1250/1300
3/4	+0.010/+0.025	12.25/13	0/+0.5	RBIN 3/4-1250/1300
13/16	+0.010/+0.025	12.25/13	0/+0.5	RBIN 13/16-1250/1300
7/8	+0.010/+0.025	12.25/13	0/+0.5	RBIN 7/8-1250/1300
15/16	+0.010/+0.025	12.25/13	0/+0.5	RBIN 15/16-1250/1300
1	+0.010/+0.025	12.25/13	0/+0.5	RBIN 1-1250/1300
1-1/4	+0.010/+0.025	12.25/13	0/+0.5	RBIN 1-1/4-1250/1300
1-1/2	+0.010/+0.025	12.25/13	0/+0.5	RBIN 1-1/2-1250/1300

Cut to length Rods
Raw, Metric



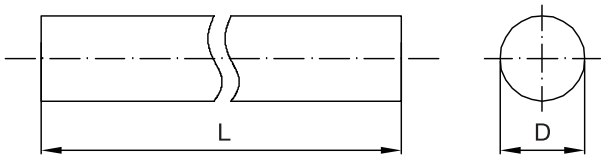
D mm		L mm		Type
3.00	+0.15/+0.50	40	+0.5/+1.6	RBMN 0300-040
3.00	+0.15/+0.50	50	+0.5/+1.6	RBMN 0300-050
3.00	+0.15/+0.50	60	+0.5/+1.6	RBMN 0300-060
3.00	+0.15/+0.50	75	+0.5/+1.6	RBMN 0300-075
3.00	+0.20/+0.50	100	+0.5/+2.0	RBMN 0300-100
3.25	+0.15/+0.50	38.3	+0.5/+1.6	RBMN 03250-0383
3.25	+0.15/+0.50	45	+0.5/+1.6	RBMN 03250-0450
3.25	+0.15/+0.50	50	+0.5/+1.6	RBMN 03250-0500
4.00	+0.15/+0.50	40	+0.5/+1.6	RBMN 0400-040
4.00	+0.15/+0.50	50	+0.5/+1.6	RBMN 0400-050
4.00	+0.15/+0.50	55	+0.5/+1.6	RBMN 0400-055
4.00	+0.15/+0.50	60	+0.5/+1.6	RBMN 0400-060
4.00	+0.15/+0.50	75	+0.5/+1.6	RBMN 0400-075
4.00	+0.20/+0.50	100	+0.5/+2.0	RBMN 0400-100
4.00	+0.25/+0.50	150	+0.5/+2.5	RBMN 0400-150
5.00	+0.15/+0.50	50	+0.5/+1.6	RBMN 0500-050
5.00	+0.15/+0.50	55	+0.5/+1.6	RBMN 0500-055
5.00	+0.15/+0.50	60	+0.5/+1.6	RBMN 0500-060
5.00	+0.15/+0.50	75	+0.5/+1.6	RBMN 0500-075
5.00	+0.20/+0.50	100	+0.5/+2.0	RBMN 0500-100
5.00	+0.25/+0.50	150	+0.5/+2.5	RBMN 0500-150
6.00	+0.15/+0.50	50	+0.5/+1.6	RBMN 0600-050
6.00	+0.15/+0.50	57	+0.5/+1.6	RBMN 0600-057
6.00	+0.15/+0.50	60	+0.5/+1.6	RBMN 0600-060
6.00	+0.15/+0.50	70	+0.5/+1.6	RBMN 0600-070
6.00	+0.15/+0.50	75	+0.5/+1.6	RBMN 0600-075
6.00	+0.15/+0.50	80	+0.5/+1.6	RBMN 0600-080
6.00	+0.20/+0.50	100	+0.5/+2.0	RBMN 0600-100
6.00	+0.25/+0.50	150	+0.5/+2.5	RBMN 0600-150
7.00	+0.15/+0.50	60	+0.5/+1.6	RBMN 0700-060
7.00	+0.20/+0.50	100	+0.5/+2.0	RBMN 0700-100
8.00	+0.15/+0.50	60	+0.5/+1.6	RBMN 0800-060
8.00	+0.15/+0.50	63	+0.5/+1.6	RBMN 0800-063
8.00	+0.15/+0.50	75	+0.5/+1.6	RBMN 0800-075
8.00	+0.15/+0.50	80	+0.5/+1.6	RBMN 0800-080
8.00	+0.20/+0.50	90	+0.5/+2.0	RBMN 0800-090
8.00	+0.20/+0.50	100	+0.5/+2.0	RBMN 0800-100

Cut to length Rods
Raw, Metric



D mm		L mm		Type
8.00	+0.25/+0.50	150	+0.5/+2.5	RBMN 0800-150
10.00	+0.20/+0.55	70	+0.5/+1.6	RBMN 1000-070
10.00	+0.20/+0.55	72	+0.5/+1.6	RBMN 1000-072
10.00	+0.20/+0.55	75	+0.5/+1.6	RBMN 1000-075
10.00	+0.25/+0.55	90	+0.5/+2.0	RBMN 1000-090
10.00	+0.25/+0.55	100	+0.5/+2.0	RBMN 1000-100
10.00	+0.25/+0.55	150	+0.5/+2.5	RBMN 1000-150
11.00	+0.20/+0.55	75	+0.5/+1.6	RBMN 1100-075
12.00	+0.15/+0.55	60	+0.5/+1.6	RBMN 1200-060
12.00	+0.20/+0.55	75	+0.5/+1.6	RBMN 1200-075
12.00	+0.25/+0.55	83	+0.5/+2.0	RBMN 1200-083
12.00	+0.25/+0.55	100	+0.5/+2.0	RBMN 1200-100
12.00	+0.25/+0.55	120	+0.5/+2.0	RBMN 1200-120
12.00	+0.25/+0.55	150	+0.5/+2.5	RBMN 1200-150
13.00	+0.25/+0.55	100	+0.5/+2.0	RBMN 1300-100
14.00	+0.20/+0.55	75	+0.5/+1.6	RBMN 1400-075
14.00	+0.25/+0.55	83	+0.5/+2.0	RBMN 1400-083
14.00	+0.25/+0.55	100	+0.5/+2.0	RBMN 1400-100
14.00	+0.25/+0.55	120	+0.5/+2.0	RBMN 1400-120
14.00	+0.25/+0.55	150	+0.5/+2.5	RBMN 1400-150
16.00	+0.25/+0.65	92	+0.5/+2.0	RBMN 1600-092
16.00	+0.25/+0.65	100	+0.5/+2.0	RBMN 1600-100
16.00	+0.25/+0.65	125	+0.5/+2.5	RBMN 1600-125
16.00	+0.25/+0.65	150	+0.5/+2.5	RBMN 1600-150
18.00	+0.25/+0.65	92	+0.5/+2.0	RBMN 1800-092
18.00	+0.25/+0.65	100	+0.5/+2.0	RBMN 1800-100
18.00	+0.25/+0.65	150	+0.5/+2.5	RBMN 1800-150
20.00	+0.25/+0.65	100	+0.5/+2.0	RBMN 2000-100
20.00	+0.25/+0.65	120	+0.5/+2.0	RBMN 2000-120
20.00	+0.25/+0.65	150	+0.5/+2.5	RBMN 2000-150
22.00	+0.25/+0.75	120	+0.5/+2.0	RBMN 2200-120
22.00	+0.25/+0.75	150	+0.5/+2.5	RBMN 2200-150
25.00	+0.25/+0.75	125	+0.5/+2.5	RBMN 2500-125
25.00	+0.25/+0.75	150	+0.5/+2.5	RBMN 2500-150

Solid Long Rods
Ground, Metric (h5/h6)

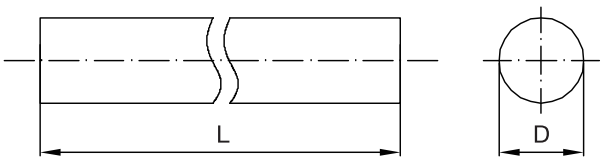


D mm		L mm		Type
2.00	h6	310/330	0/+2	RGMN 0200-310/330
3.00	h6	310/330	0/+2	RGMN 0300-310/330
4.00	h6	310/330	0/+2	RGMN 0400-310/330
5.00	h6	310/330	0/+2	RGMN 0500-310/330
6.00	h6	310/330	0/+2	RGMN 0600-310/330
7.00	h6	310/330	0/+2	RGMN 0700-310/330
8.00	h6	310/330	0/+2	RGMN 0800-310/330
9.00	h6	310/330	0/+2	RGMN 0900-310/330
10.00	h6	310/330	0/+2	RGMN 1000-310/330
11.00	h6	310/330	0/+2	RGMN 1100-310/330
12.00	h6	310/330	0/+2	RGMN 1200-310/330
13.00	h6	310/330	0/+2	RGMN 1300-310/330
14.00	h6	310/330	0/+2	RGMN 1400-310/330
15.00	h6	310/330	0/+2	RGMN 1500-310/330
16.00	h6	310/330	0/+2	RGMN 1600-310/330
17.00	h6	310/330	0/+2	RGMN 1700-310/330
18.00	h6	310/330	0/+2	RGMN 1800-310/330
19.00	h6	310/330	0/+2	RGMN 1900-310/330
20.00	h6	310/330	0/+2	RGMN 2000-310/330
21.00	h6	310/330	0/+2	RGMN 2100-310/330
22.00	h6	310/330	0/+2	RGMN 2200-310/330
23.00	h6	310/330	0/+2	RGMN 2300-310/330
24.00	h6	310/330	0/+2	RGMN 2400-310/330
25.00	h6	310/330	0/+2	RGMN 2500-310/330
26.00	h6	310/330	0/+2	RGMN 2600-310/330
27.00	h6	310/330	0/+2	RGMN 2700-310/330
28.00	h6	310/330	0/+2	RGMN 2800-310/330
29.00	h6	310/330	0/+2	RGMN 2900-310/330
30.00	h6	310/330	0/+2	RGMN 3000-310/330
31.00	h6	310/330	0/+2	RGMN 3100-310/330
32.00	h6	310/330	0/+2	RGMN 3200-310/330

Tolerance:

Diameter(mm)	Straightness(mm)
3≤D＜5	0.15
5≤D＜42	0.12

Solid Long Rods
Ground, Metric (h5/h6)

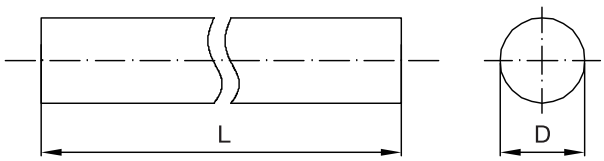


D mm	L mm	Type
33.00 h6	310/330 0/+2	RGMN 3300-310/330
34.00 h6	310/330 0/+2	RGMN 3400-310/330
35.00 h6	310/330 0/+2	RGMN 3500-310/330
36.00 h6	310/330 0/+2	RGMN 3600-310/330
37.00 h6	310/330 0/+2	RGMN 3700-310/330
38.00 h6	310/330 0/+2	RGMN 3800-310/330
39.00 h6	310/330 0/+2	RGMN 3900-310/330
40.00 h6	310/330 0/+2	RGMN 4000-310/330
41.00 h6	310/330 0/+2	RGMN 4100-310/330
42.00 h6	310/330 0/+2	RGMN 4200-310/330

Tolerance:

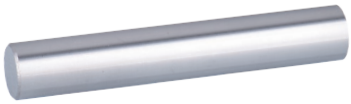
Diameter(mm)	Straightness(mm)
3≤D＜5	0.15
5≤D＜42	0.12

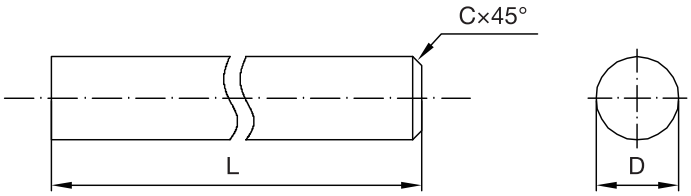
Solid Long Rods
Ground, Inch (h5/h6)



D inch		L inch		Type
1/8	h6	12.25/13	0/+0.08	RGIN 1/8-1250/1300
3/16	h6	12.25/13	0/+0.08	RGIN 3/16-1250/1300
1/4	h6	12.25/13	0/+0.08	RGIN 1/4-1250/1300
5/16	h6	12.25/13	0/+0.08	RGIN 5/16-1250/1300
11/32	h6	12.25/13	0/+0.08	RGIN 11/32-1250/1300
3/8	h6	12.25/13	0/+0.08	RGIN 3/8-1250/1300
13/32	h6	12.25/13	0/+0.08	RGIN 13/32-1250/1300
7/16	h6	12.25/13	0/+0.08	RGIN 7/16-1250/1300
1/2	h6	12.25/13	0/+0.08	RGIN 1/2-1250/1300
9/16	h6	12.25/13	0/+0.08	RGIN 9/16-1250/1300
5/8	h6	12.25/13	0/+0.08	RGIN 5/8-1250/1300
11/16	h6	12.25/13	0/+0.08	RGIN 11/16-1250/1300
3/4	h6	12.25/13	0/+0.08	RGIN 3/4-1250/1300
7/8	h6	12.25/13	0/+0.08	RGIN 7/8-1250/1300
1	h6	12.25/13	0/+0.08	RGIN 1-1250/1300
1-1/4	h6	12.25/13	0/+0.08	RGIN 1-1/4-1250/1300
1-1/2	h6	12.25/13	0/+0.08	RGIN 1-1/2-1250/1300

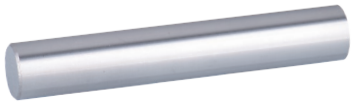
Cut to length Rods
Ground, Metric (h5/h6)

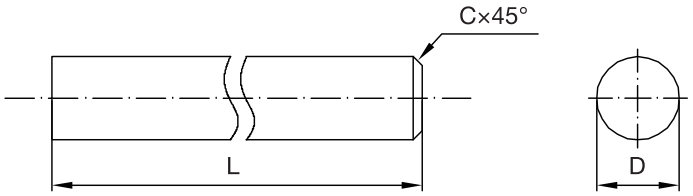




D mm	L mm	C mm	Type
3.00 h6	40 0/+1.0	0.4	RGMC 0300-040
3.00 h6	50 0/+1.0	0.4	RGMC 0300-050
3.00 h6	60 0/+1.0	0.4	RGMC 0300-060
3.00 h6	75 0/+1.0	0.4	RGMC 0300-075
3.00 h6	100 0/+1.0	0.4	RGMC 0300-100
3.175 h6	38.1 0/+1.0	0.4	RGMC 03175-0381
3.175 h6	45 0/+1.0	0.4	RGMC 03175-0450
3.175 h6	50 0/+1.0	0.4	RGMC 03175-0500
4.00 h6	40 0/+1.0	0.4	RGMC 0400-040
4.00 h6	50 0/+1.0	0.4	RGMC 0400-050
4.00 h6	55 0/+1.0	0.4	RGMC 0400-055
4.00 h6	60 0/+1.0	0.4	RGMC 0400-060
4.00 h6	75 0/+1.0	0.4	RGMC 0400-075
4.00 h6	100 0/+1.0	0.4	RGMC 0400-100
4.00 h6	150 0/+1.0	0.4	RGMC 0400-150
5.00 h6	50 0/+1.0	0.5	RGMC 0500-050
5.00 h6	55 0/+1.0	0.5	RGMC 0500-055
5.00 h6	60 0/+1.0	0.5	RGMC 0500-060
5.00 h6	75 0/+1.0	0.5	RGMC 0500-075
5.00 h6	100 0/+1.0	0.5	RGMC 0500-100
5.00 h6	150 0/+1.0	0.5	RGMC 0500-150
6.00 h6	50 0/+1.0	0.5	RGMC 0600-050
6.00 h6	57 0/+1.0	0.5	RGMC 0600-057
6.00 h6	60 0/+1.0	0.5	RGMC 0600-060
6.00 h6	70 0/+1.0	0.5	RGMC 0600-070
6.00 h6	75 0/+1.0	0.5	RGMC 0600-075
6.00 h6	80 0/+1.0	0.5	RGMC 0600-080
6.00 h6	100 0/+1.0	0.5	RGMC 0600-100
6.00 h6	150 0/+1.0	0.5	RGMC 0600-150
7.00 h6	60 0/+1.0	0.6	RGMC 0700-060
7.00 h6	100 0/+1.0	0.6	RGMC 0700-100
8.00 h6	60 0/+1.0	0.6	RGMC 0800-060
8.00 h6	63 0/+1.0	0.6	RGMC 0800-063
8.00 h6	75 0/+1.0	0.6	RGMC 0800-075
8.00 h6	80 0/+1.0	0.6	RGMC 0800-080
8.00 h6	90 0/+1.0	0.6	RGMC 0800-090
8.00 h6	100 0/+1.0	0.6	RGMC 0800-100

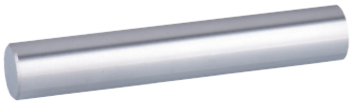
Cut to length Rods
Ground, Metric (h5/h6)

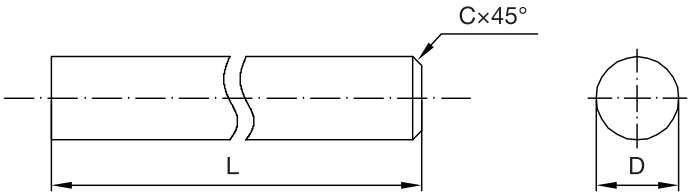




D mm	L mm	C mm	Type
8.00 h6	150 0/+1.0	0.6	RGMC 0800-150
10.00 h6	70 0/+1.0	0.6	RGMC 1000-070
10.00 h6	72 0/+1.0	0.6	RGMC 1000-072
10.00 h6	75 0/+1.0	0.6	RGMC 1000-075
10.00 h6	90 0/+1.0	0.6	RGMC 1000-090
10.00 h6	100 0/+1.0	0.6	RGMC 1000-100
10.00 h6	150 0/+1.0	0.6	RGMC 1000-150
11.00 h6	75 0/+1.0	0.8	RGMC 1100-075
12.00 h6	60 0/+1.0	0.8	RGMC 1200-060
12.00 h6	75 0/+1.0	0.8	RGMC 1200-075
12.00 h6	83 0/+1.0	0.8	RGMC 1200-083
12.00 h6	100 0/+1.0	0.8	RGMC 1200-100
12.00 h6	120 0/+1.0	0.8	RGMC 1200-120
12.00 h6	150 0/+1.0	0.8	RGMC 1200-150
13.00 h6	100 0/+1.0	0.8	RGMC 1300-100
14.00 h6	75 0/+1.0	0.8	RGMC 1400-075
14.00 h6	83 0/+1.0	0.8	RGMC 1400-083
14.00 h6	100 0/+1.0	0.8	RGMC 1400-100
14.00 h6	120 0/+1.0	0.8	RGMC 1400-120
14.00 h6	150 0/+1.0	0.8	RGMC 1400-150
16.00 h6	92 0/+1.0	0.8	RGMC 1600-092
16.00 h6	100 0/+1.0	0.8	RGMC 1600-100
16.00 h6	125 0/+1.0	0.8	RGMC 1600-125
16.00 h6	150 0/+1.0	0.8	RGMC 1600-150
18.00 h6	92 0/+1.0	0.8	RGMC 1800-092
18.00 h6	100 0/+1.0	0.8	RGMC 1800-100
18.00 h6	150 0/+1.0	0.8	RGMC 1800-150
20.00 h6	100 0/+1.0	1.0	RGMC 2000-100
20.00 h6	120 0/+1.0	1.0	RGMC 2000-120
20.00 h6	150 0/+1.0	1.0	RGMC 2000-150
22.00 h6	120 0/+1.0	1.0	RGMC 2200-120
22.00 h6	150 0/+1.0	1.0	RGMC 2200-150
25.00 h6	125 0/+1.0	1.0	RGMC 2500-125
25.00 h6	150 0/+1.0	1.0	RGMC 2500-150

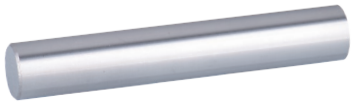
Cut to length Rods
Ground, Inch (h5/h6)

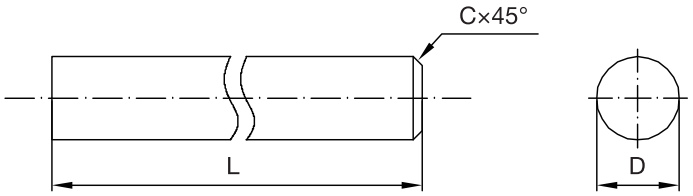




D inch	L inch	C inch	Type
1/8 h6	1.5 0/+0.039	0.016	RGIC 1/8-0150
1/8 h6	2 0/+0.039	0.016	RGIC 1/8-0200
1/8 h6	2.5 0/+0.039	0.016	RGIC 1/8-0250
1/8 h6	3 0/+0.039	0.016	RGIC 1/8-0300
1/8 h6	4 0/+0.039	0.016	RGIC 1/8-0400
3/16 h6	1.5 0/+0.039	0.02	RGIC 3/16-0150
3/16 h6	2 0/+0.039	0.02	RGIC 3/16-0200
3/16 h6	2.5 0/+0.039	0.02	RGIC 3/16-0250
3/16 h6	3 0/+0.039	0.02	RGIC 3/16-0300
1/4 h6	2 0/+0.039	0.024	RGIC 1/4-0200
1/4 h6	2.5 0/+0.039	0.024	RGIC 1/4-0250
1/4 h6	3 0/+0.039	0.024	RGIC 1/4-0300
1/4 h6	4 0/+0.039	0.024	RGIC 1/4-0400
5/16 h6	2 0/+0.039	0.024	RGIC 5/16-0200
5/16 h6	2.5 0/+0.039	0.024	RGIC 5/16-0250
5/16 h6	3 0/+0.039	0.024	RGIC 5/16-0300
5/16 h6	4 0/+0.039	0.024	RGIC 5/16-0400
3/8 h6	2 0/+0.039	0.024	RGIC 3/8-0200
3/8 h6	2.5 0/+0.039	0.024	RGIC 3/8-0250
3/8 h6	3 0/+0.039	0.024	RGIC 3/8-0300
3/8 h6	3.5 0/+0.039	0.024	RGIC 3/8-0350
3/8 h6	4 0/+0.039	0.024	RGIC 3/8-0400
3/8 h6	6 0/+0.039	0.024	RGIC 3/8-0600
7/16 h6	2.5 0/+0.039	0.031	RGIC 7/16-0250
7/16 h6	4 0/+0.039	0.031	RGIC 7/16-0400
7/16 h6	4.5 0/+0.039	0.031	RGIC 7/16-0450
1/2 h6	2.5 0/+0.039	0.031	RGIC 1/2-0250
1/2 h6	3 0/+0.039	0.031	RGIC 1/2-0300
1/2 h6	3.5 0/+0.039	0.031	RGIC 1/2-0350
1/2 h6	4 0/+0.039	0.031	RGIC 1/2-0400
1/2 h6	4.5 0/+0.039	0.031	RGIC 1/2-0450
1/2 h6	5 0/+0.039	0.031	RGIC 1/2-0500
1/2 h6	6 0/+0.039	0.031	RGIC 1/2-0600
5/8 h6	3.5 0/+0.039	0.031	RGIC 5/8-0350
5/8 h6	4 0/+0.039	0.031	RGIC 5/8-0400
5/8 h6	5 0/+0.039	0.031	RGIC 5/8-0500
5/8 h6	6 0/+0.039	0.031	RGIC 5/8-0600

Cut to length Rods
Ground, Inch (h5/h6)

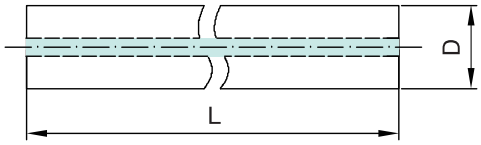


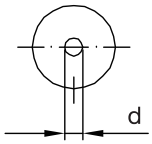


D inch		L inch		C inch	Type
3/4	h6	3	0/+0.039	0.039	RGIC 3/4-0300
3/4	h6	4	0/+0.039	0.039	RGIC 3/4-0400
3/4	h6	5	0/+0.039	0.039	RGIC 3/4-0500
3/4	h6	6	0/+0.039	0.039	RGIC 3/4-0600
7/8	h6	4	0/+0.039	0.039	RGIC 7/8-0400
1	h6	4	0/+0.039	0.039	RGIC 1-0400
1	h6	5	0/+0.039	0.039	RGIC 1-0500
1	h6	6	0/+0.039	0.039	RGIC 1-0600

Coolant Rods

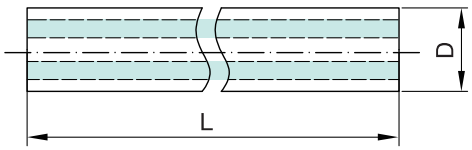
Single Straight Hole
Raw

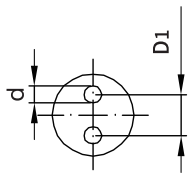




D mm	L mm	d mm	Type
6.00 +0.3/+0.6	330 +1.0/+5.0	1.0 ±0.15	RBMN1S 0600-100-330
6.00 +0.3/+0.6	330 +1.0/+5.0	1.5 ±0.15	RBMN1S 0600-150-330
8.00 +0.3/+0.6	330 +1.0/+5.0	1.0 ±0.15	RBMN1S 0800-100-330
8.00 +0.3/+0.6	330 +1.0/+5.0	1.5 ±0.15	RBMN1S 0800-150-330
10.00 +0.3/+0.6	330 +1.0/+5.0	1.4 ±0.15	RBMN1S 1000-140-330
10.00 +0.3/+0.6	330 +1.0/+5.0	2.0 ±0.2	RBMN1S 1000-200-330
12.00 +0.3/+0.7	330 +1.0/+5.0	1.75 ±0.15	RBMN1S 1200-175-330
12.00 +0.3/+0.7	330 +1.0/+5.0	2.0 ±0.2	RBMN1S 1200-200-330
14.00 +0.3/+0.7	330 +1.0/+5.0	1.75 ±0.15	RBMN1S 1400-175-330
14.00 +0.3/+0.7	330 +1.0/+5.0	2.0 ±0.2	RBMN1S 1400-200-330

Two Straight Holes
Raw

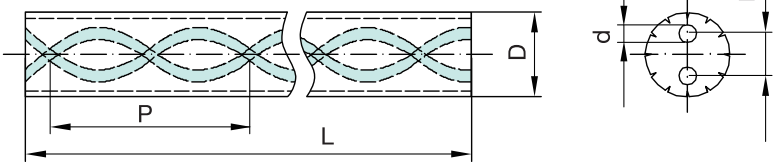




D mm	L mm	d mm	D1 mm	Type
6.00 +0.3/+0.6	330 +1.0/+5.0	1.0 ±0.15	3.0 +0/-0.2	RBMN2S 0600-100-0300-330
8.00 +0.3/+0.6	330 +1.0/+5.0	1.0 ±0.15	2.6 +0/-0.3	RBMN2S 0800-100-0260-330
10.00 +0.3/+0.6	330 +1.0/+5.0	1.0 ±0.15	2.6 +0/-0.3	RBMN2S 1000-100-0260-330
12.00 +0.3/+0.7	330 +1.0/+5.0	1.75 ±0.15	6.0 +0/-0.3	RBMN2S 1200-175-0600-330
12.00 +0.3/+0.7	330 +1.0/+5.0	1.75 ±0.15	3.5 +0/-0.3	RBMN2S 1200-175-0350-330
14.00 +0.3/+0.7	330 +1.0/+5.0	1.75 ±0.15	7.0 +0/-0.3	RBMN2S 1400-175-0700-330
14.00 +0.3/+0.7	330 +1.0/+5.0	1.75 ±0.15	5.0 +0/-0.3	RBMN2S 1400-175-0500-330

Two Coolant Holes 30°

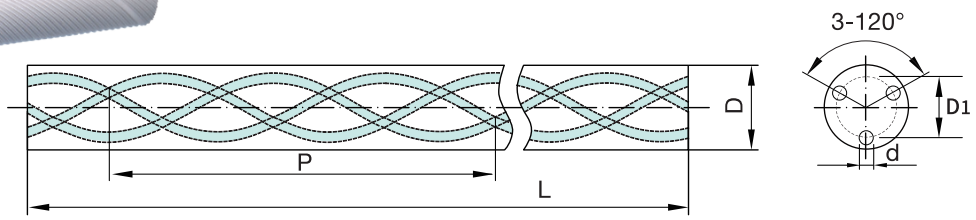
Raw



D mm	L mm	d mm	D1 mm	P mm	Hole Deviation	Type
4.00 +0.6/+1.0	330 +1.0/+5.0	0.6 ±0.10	2.1 ±0.15	21.77 -0.69/+0.72	0.15	RBMN2H30 0400-060-0210-330
6.00 +0.6/+1.0	330 +1.0/+5.0	0.7 ±0.10	2.4 ±0.2	32.65 -1.0/+1.07	0.15	RBMN2H30 0600-070-0240-330
8.00 +0.6/+1.0	330 +1.0/+5.0	1.0 ±0.15	3.8 ±0.25	43.53 -1.38/+1.42	0.15	RBMN2H30 0800-100-0380-330
10.00 +0.6/+1.0	330 +1.0/+5.0	1.4 ±0.15	4.5 ±0.35	54.41 -1.73/+1.78	0.20	RBMN2H30 1000-140-0450-330
12.00 +0.7/+1.1	330 +1.0/+5.0	1.4 ±0.15	5.85 ±0.45	65.3 -2.08/+2.14	0.30	RBMN2H30 1200-140-0585-330
14.00 +0.7/+1.1	330 +1.0/+5.0	1.75 ±0.20	6.7 ±0.45	76.18 -2.42/+2.50	0.40	RBMN2H30 1400-175-0670-330
16.00 +0.7/+1.1	330 +1.0/+5.0	1.75 ±0.20	7.9 ±0.45	87.06 -2.77/+2.85	0.40	RBMN2H30 1600-175-0790-330
18.00 +0.7/+1.1	330 +1.0/+5.0	2.0 ±0.25	9.15 ±0.45	97.95 -3.10/+3.20	0.50	RBMN2H30 1800-200-0915-330
20.00 +0.7/+1.1	330 +1.0/+5.0	2.0 ±0.25	9.9 ±0.55	108.83 -3.63/+3.74	0.50	RBMN2H30 2000-200-0990-330
22.00 +0.7/+1.1	330 +1.0/+5.0	2.0 ±0.25	11.1 ±0.55	119.71 -4.32/+4.45	0.50	RBMN2H30 2200-200-1110-330
25.00 +0.8/+1.2	330 +1.0/+5.0	2.0 ±0.25	12.8 ±0.55	136.03 -4.32/+4.45	0.50	RBMN2H30 2500-200-1280-330

Three Coolant Holes 30°

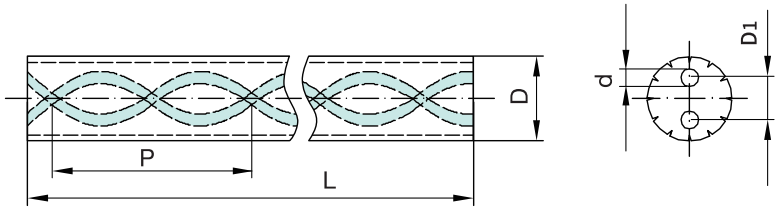
Raw



D mm	L mm	d mm	D1 mm	P mm	Type
12.00 +0.7/+1.1	330 +1.0/+5.0	1.1 ±0.15	6.05 ±0.45	65.3 -2.08/+2.14	RBMN3H30 1200-110-0605-330
14.00 +0.7/+1.1	330 +1.0/+5.0	1.4 ±0.15	7.05 ±0.45	76.18 -2.42/+2.50	RBMN3H30 1400-140-0705-330
16.00 +0.7/+1.1	330 +1.0/+5.0	1.6 ±0.15	8.05 ±0.45	87.06 -2.77/+2.85	RBMN3H30 1600-160-0805-330
18.00 +0.7/+1.1	330 +1.0/+5.0	1.7 ±0.15	9.25 ±0.55	97.95 -3.10/+3.20	RBMN3H30 1800-170-0925-330
20.00 +0.7/+1.1	330 +1.0/+5.0	1.9 ±0.25	9.85 ±0.55	108.83 -3.63/+3.74	RBMN3H30 2000-190-0985-330

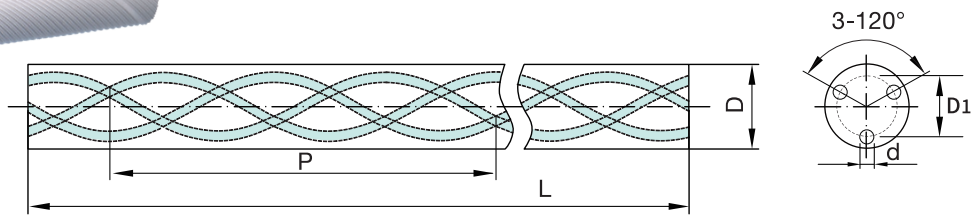
Two Coolant Holes 40°

Raw

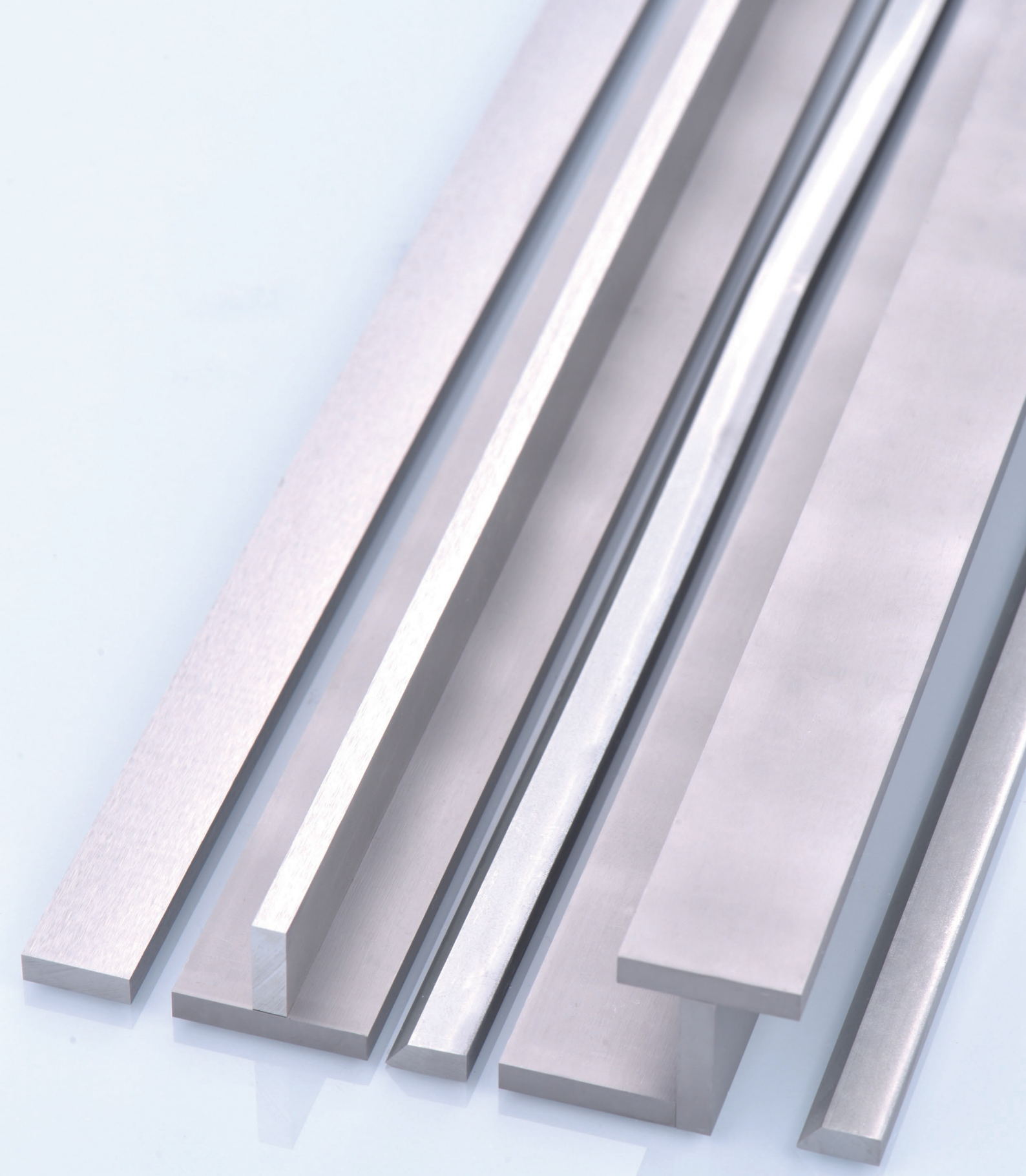


D mm	L mm	d mm	D1 mm	P mm	Type
6.00 +0.6/+1.0	330 +1.0/+5.0	0.7 ±0.15	1.9 ±0.20	22.46 -0.63/+0.66	RBMN2H40 0600-070-0190-330
8.00 +0.6/+1.0	330 +1.0/+5.0	0.65 ±0.15	2.4 ±0.35	29.95 -0.83/+0.86	RBMN2H40 0800-065-0240-330
10.00 +0.6/+1.0	330 +1.0/+5.0	0.8 ±0.15	3.1 ±0.45	37.44 -1.06/+1.07	RBMN2H40 1000-080-0310-330
12.00 +0.7/+1.1	330 +1.0/+5.0	0.9 ±0.15	3.8 ±0.45	44.93 -1.27/+1.28	RBMN2H40 1200-090-0380-330
14.00 +0.7/+1.1	330 +1.0/+5.0	1.0 ±0.20	4.3 ±0.45	52.42 -1.47/+1.50	RBMN2H40 1400-100-0430-330
16.00 +0.7/+1.1	330 +1.0/+5.0	1.2 ±0.20	5.1 ±0.45	59.9 -1.68/+1.73	RBMN2H40 1600-120-0510-330
18.00 +0.7/+1.1	330 +1.0/+5.0	1.4 ±0.25	5.9 ±0.45	67.39 -1.89/+1.94	RBMN2H40 1800-140-0590-330
25.00 +0.8/+1.2	330 +1.0/+5.0	1.75 ±0.25	7.6 ±0.55	93.58 -2.59/+2.74	RBMN2H40 2500-175-0760-330

Three Coolant Holes 40°
Raw

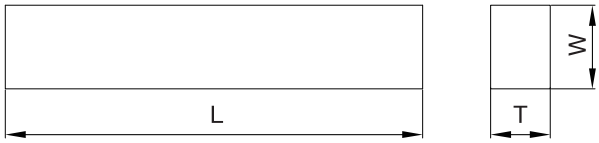


D mm	L mm	d mm	D1 mm	P mm	Type
6.00 +0.6/+1.0	330 +1.0/+5.0	0.5 ±0.15	2.05 ±0.25	22.46 -0.63/+0.66	RBMN3H40 0600-050-0205-330
8.00 +0.7/+1.1	330 +1.0/+5.0	0.65 ±0.15	2.55 ±0.25	29.95 -0.83/+0.86	RBMN3H40 0800-065-0255-330
10.00 +0.7/+1.1	330 +1.0/+5.0	0.8 ±0.15	3.35 ±0.35	37.44 -1.06/+1.07	RBMN3H40 1000-080-0335-330
12.00 +0.7/+1.1	330 +1.0/+5.0	0.9 ±0.20	3.95 ±0.45	44.93 -1.27/+1.28	RBMN3H40 1200-090-0395-330



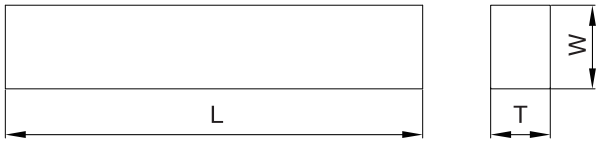
Carbide Strips

Rectangular Strips



T mm	W mm	L mm	Type
2 +0.2/+0.5	3 +0.2/+0.5	310/330 +0.5/+6	TM 2-3-310/330
2 +0.2/+0.5	4 +0.2/+0.5	310/330 +0.5/+6	TM 2-4-310/330
2 +0.2/+0.5	5 +0.2/+0.5	310/330 +0.5/+6	TM 2-5-310/330
2 +0.2/+0.5	6 +0.2/+0.5	310/330 +0.5/+6	TM 2-6-310/330
2 +0.2/+0.5	8 +0.2/+0.5	310/330 +0.5/+6	TM 2-8-310/330
2 +0.2/+0.5	10 +0.2/+0.5	310/330 +0.5/+6	TM 2-10-310/330
2 +0.2/+0.5	12 +0.2/+0.5	310/330 +0.5/+6	TM 2-12-310/330
2 +0.2/+0.5	14 +0.2/+0.5	310/330 +0.5/+6	TM 2-14-310/330
2 +0.2/+0.5	15 +0.2/+0.5	310/330 +0.5/+6	TM 2-15-310/330
2 +0.2/+0.5	16 +0.2/+0.5	310/330 +0.5/+6	TM 2-16-310/330
2 +0.2/+0.5	18 +0.2/+0.5	310/330 +0.5/+6	TM 2-18-310/330
2 +0.2/+0.5	19 +0.2/+0.5	310/330 +0.5/+6	TM 2-19-310/330
3 +0.2/+0.5	3 +0.2/+0.5	310/330 +0.5/+6	TM 3-3-310/330
3 +0.2/+0.5	4 +0.2/+0.5	310/330 +0.5/+6	TM 3-4-310/330
3 +0.2/+0.5	5 +0.2/+0.5	310/330 +0.5/+6	TM 3-5-310/330
3 +0.2/+0.5	6 +0.2/+0.5	310/330 +0.5/+6	TM 3-6-310/330
3 +0.2/+0.5	8 +0.2/+0.5	310/330 +0.5/+6	TM 3-8-310/330
3 +0.2/+0.5	9 +0.2/+0.5	310/330 +0.5/+6	TM 3-9-310/330
3 +0.2/+0.5	10 +0.2/+0.5	310/330 +0.5/+6	TM 3-10-310/330
3 +0.2/+0.5	11 +0.2/+0.5	310/330 +0.5/+6	TM 3-11-310/330
3 +0.2/+0.5	12 +0.2/+0.5	310/330 +0.5/+6	TM 3-12-310/330
3 +0.2/+0.5	13 +0.2/+0.5	310/330 +0.5/+6	TM 3-13-310/330
3 +0.2/+0.5	14 +0.2/+0.5	310/330 +0.5/+6	TM 3-14-310/330
3 +0.2/+0.5	15 +0.2/+0.5	310/330 +0.5/+6	TM 3-15-310/330
3 +0.2/+0.5	16 +0.2/+0.5	310/330 +0.5/+6	TM 3-16-310/330
3 +0.2/+0.5	18 +0.2/+0.5	310/330 +0.5/+6	TM 3-18-310/330
3 +0.2/+0.5	19 +0.2/+0.5	310/330 +0.5/+6	TM 3-19-310/330
3 +0.2/+0.5	20 +0.2/+0.5	310/330 +0.5/+6	TM 3-20-310/330
3 +0.2/+0.5	22 +0.2/+0.5	310/330 +0.5/+6	TM 3-22-310/330
3 +0.2/+0.5	25 +0.2/+0.5	310/330 +0.5/+6	TM 3-25-310/330
3 +0.2/+0.5	28 +0.2/+0.5	310/330 +0.5/+6	TM 3-28-310/330
3 +0.2/+0.5	30 +0.2/+0.5	310/330 +0.5/+6	TM 3-30-310/330
4 +0.2/+0.5	5 +0.2/+0.5	310/330 +0.5/+6	TM 4-5-310/330
4 +0.2/+0.5	6 +0.2/+0.5	310/330 +0.5/+6	TM 4-6-310/330
4 +0.2/+0.5	8 +0.2/+0.5	310/330 +0.5/+6	TM 4-8-310/330
4 +0.2/+0.5	10 +0.2/+0.5	310/330 +0.5/+6	TM 4-10-310/330
4 +0.2/+0.5	12 +0.2/+0.5	310/330 +0.5/+6	TM 4-12-310/330

Rectangular Strips

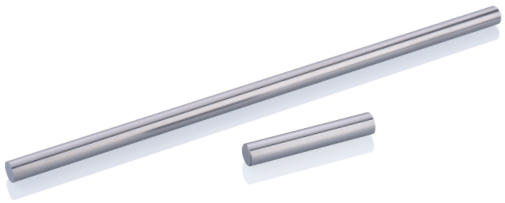


T mm	W mm	L mm	Type
4 +0.2/+0.5	13 +0.2/+0.5	310/330 +0.5/+6	TM 4-13-310/330
4 +0.2/+0.5	14 +0.2/+0.5	310/330 +0.5/+6	TM 4-14-310/330
4 +0.2/+0.5	15 +0.2/+0.5	310/330 +0.5/+6	TM 4-15-310/330
4 +0.2/+0.5	16 +0.2/+0.5	310/330 +0.5/+6	TM 4-16-310/330
4 +0.2/+0.5	18 +0.2/+0.5	310/330 +0.5/+6	TM 4-18-310/330
4 +0.2/+0.5	20 +0.2/+0.5	310/330 +0.5/+6	TM 4-20-310/330
4 +0.2/+0.5	22 +0.2/+0.5	310/330 +0.5/+6	TM 4-22-310/330
4 +0.2/+0.5	25 +0.2/+0.5	310/330 +0.5/+6	TM 4-25-310/330
4 +0.2/+0.5	30 +0.2/+0.5	310/330 +0.5/+6	TM 4-30-310/330
5 +0.2/+0.5	6 +0.2/+0.5	310/330 +0.5/+6	TM 5-6-310/330
5 +0.2/+0.5	7 +0.2/+0.5	310/330 +0.5/+6	TM 5-7-310/330
5 +0.2/+0.5	8 +0.2/+0.5	310/330 +0.5/+6	TM 5-8-310/330
5 +0.2/+0.5	10 +0.2/+0.5	310/330 +0.5/+6	TM 5-10-310/330
5 +0.2/+0.5	12 +0.2/+0.5	310/330 +0.5/+6	TM 5-12-310/330
5 +0.2/+0.5	13 +0.2/+0.5	310/330 +0.5/+6	TM 5-13-310/330
5 +0.2/+0.5	14 +0.2/+0.5	310/330 +0.5/+6	TM 5-14-310/330
5 +0.2/+0.5	15 +0.2/+0.5	310/330 +0.5/+6	TM 5-15-310/330
5 +0.2/+0.5	16 +0.2/+0.5	310/330 +0.5/+6	TM 5-16-310/330
5 +0.2/+0.5	18 +0.2/+0.5	310/330 +0.5/+6	TM 5-18-310/330
5 +0.2/+0.5	20 +0.2/+0.5	310/330 +0.5/+6	TM 5-20-310/330
5 +0.2/+0.5	22 +0.2/+0.5	310/330 +0.5/+6	TM 5-22-310/330
5 +0.2/+0.5	25 +0.2/+0.5	310/330 +0.5/+6	TM 5-25-310/330
5 +0.2/+0.5	28 +0.2/+0.5	310/330 +0.5/+6	TM 5-28-310/330
5 +0.2/+0.5	30 +0.2/+0.5	310/330 +0.5/+6	TM 5-30-310/330

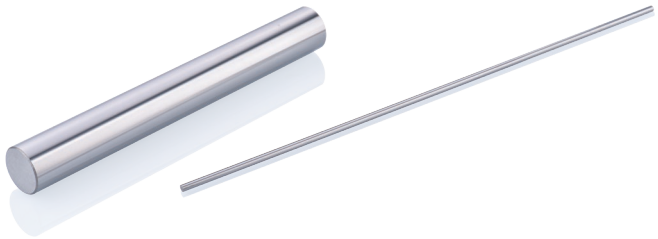
Customized Products

Achteck can provide customized products and services to meet the diversified needs for customers, such as additional carbide grades, other product sizes and structures.

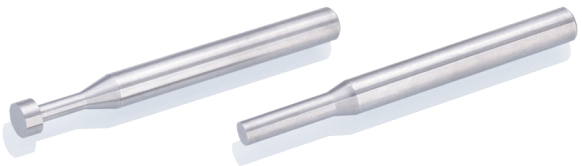
Length from14mm to 800 mm



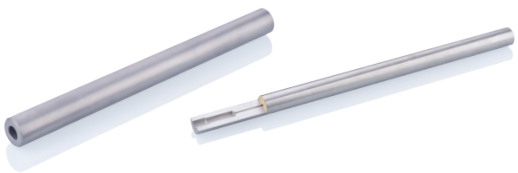
Diameter from 1mm to 50mm



Stepped Rods



Anti-seismic Tool Blanks



Certification

环境管理体系认证证书

证书编号：00121E30384R1M/3600

兹证明

赣州澳克泰工具技术有限公司

中国江西省赣州市经济技术开发区工业三路

建立的环境管理体系符合标准：

GB/T 24001-2016 / ISO 14001:2015

通过认证范围如下：

高精度硬质合金刀片、刀盘、刀杆和棒材的设计、生产及相关管理活动。

首次发证日期：2017 年 12 月 21 日　本次发证日期：2021 年 1 月 25 日　有效期至：2023 年 12 月 20 日

上一周期证书到期日：2020年12月20日　再认证审核日期：2020年12月7日至2020年12月11日

中国质量认证中心

中国·北京·南四环西路188号9区　100070

http://www.cqc.com.cn

A 0105167　　2018年版

ISO14001

2015 Environmental Management System Certificate

质量管理体系认证证书

证书编号：00122Q30275R3M/3600

兹证明

赣州澳克泰工具技术有限公司

中国江西省赣州市经济技术开发区工业三路

建立的质量管理体系符合标准：

GB/T 19001-2016 / ISO 9001:2015

通过认证范围如下：

高精度硬质合金刀片、刀盘、刀杆和棒材系列产品的设计、开发和生产

首次发证日期：2013年3月20日　本次发证日期：2022年1月12日 有效期至：2025年3月19日

中国质量认证中心

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http://www.cqc.com.cn

A 0040434　　2021年版

ISO9001

2015 Quality Management SystemCertificate

Tolerance

Tolerance of Ground Rods' Diameter

Metric			Inch		
Diameter	ISO h5	ISO h6	Diameter	ISO h5	ISO h6
0＜ϕ≤3 mm	+0/-0.004 mm	+0/-0.006 mm	0＜ϕ≤0.118 inch	+0/-0.00015 inch	+0/-0.00024 inch
3＜ϕ≤6 mm	+0/-0.005 mm	+0/-0.008 mm	0.118＜ϕ≤0.236 inch	+0/-0.00020 inch	+0/-0.00031 inch
6＜ϕ≤10 mm	+0/-0.006 mm	+0/-0.009 mm	0.236＜ϕ≤0.394 inch	+0/-0.00024 inch	+0/-0.00035 inch
10＜ϕ≤18 mm	+0/-0.008 mm	+0/-0.011 mm	0394＜ϕ≤0.709 inch	+0/-0.00031 inch	+0/-0.00043 inch
18＜ϕ≤30 mm	+0/-0.009 mm	+0/-0.013 mm	0.709＜ϕ≤1.181 inch	+0/-0.00035 inch	+0/-0.00051 inch
30＜ϕ≤50 mm	+0/-0.011 mm	+0/-0.016 mm	1.181＜ϕ≤1.969 inch	+0/-0.00043 inch	+0/-0.00063 inch

Roundness Tolerance of Ground Rods

Metric	Inch
≦0.003 mm	≦0.0001 inch

Surface Roughness of Ground Rods

Metric	Inch
0.05-0.13 μm	0.0020-0.0051 inch

Note

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