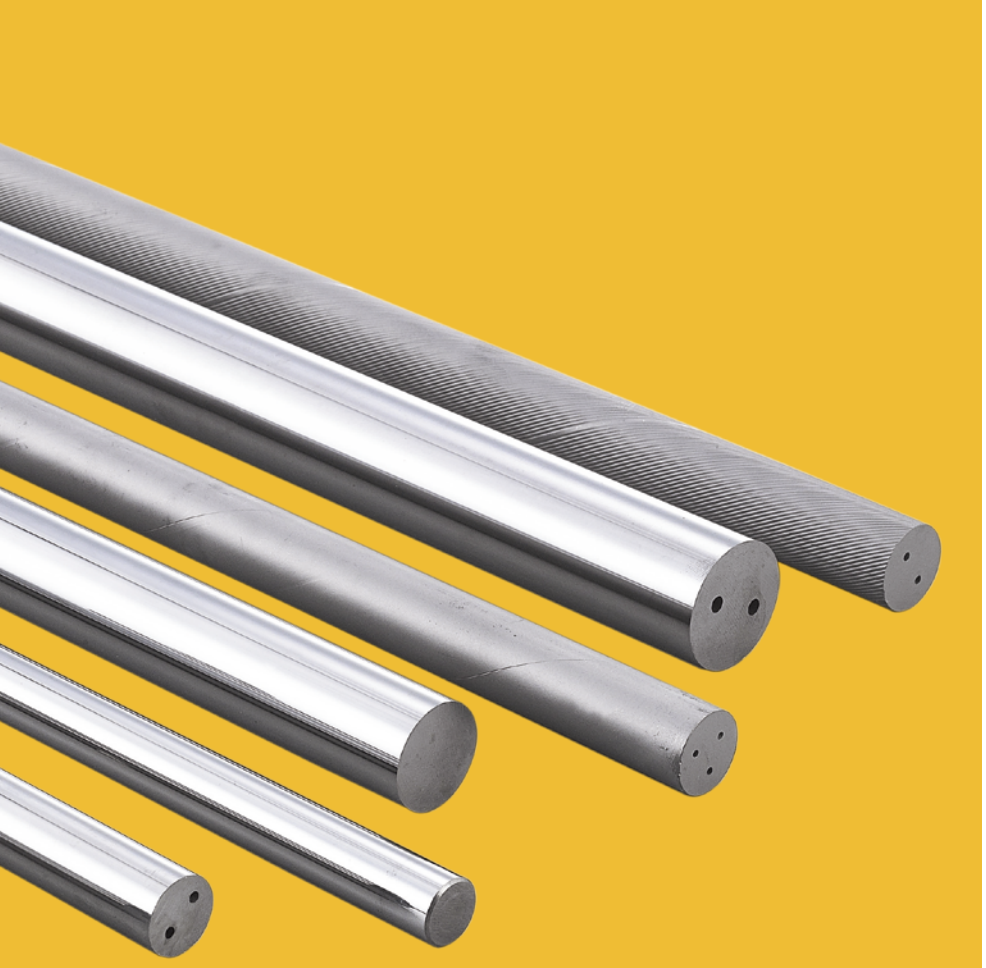
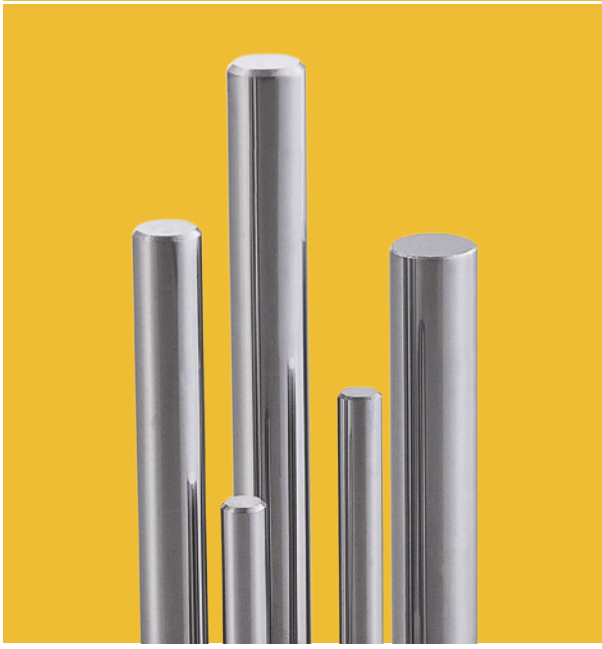






TUNGSTEN CARBIDE RODS

2026 I CATALOG

www.euroloy.com

EUROLOY
CARBIDE TOOLS

PRODUCTION CAPACITY





Euroloy is a reliable supplier of high-quality tungsten carbide rods. All Euroloy products including ground and unground carbide rods, burr blanks, mold materials, and wear-resistant parts in both standard and customized dimensions are produced at modern production facilities under the supervision of an experienced technical team.

With an annual production capacity of 2,500 MT, Euroloy provides stable quality, flexible production, and reliable supply solutions for global customers.

Current Capacity

- Total Capacity: 2,500MT/Year
- Ground Rods: 100 MT/month
- Rods: 150 MT/month
- Mold Materials: 10 MT/month
- Burr Blanks: 50 MT/month
- Wear-Resistant Parts: 10 MT/month

Production Equipment

- Ball Milling Machines: 50 Sets (400-500kgs/batch per machine)
- Spay Tower: 5 Sets
- Extrusion Machines: 8 Sets
- Pressing Machines: 46 Sets
- Precision Machines: 52 Sets
- HIP Sintering Machines: 15 Sets

Quality & Traceability

Euroloy carries out its production processes in accordance with ISO quality management standards. Every stage, from raw material to final product, is carefully controlled to ensure consistent and traceable quality.

Together with each shipment, Euroloy provides Material Reports and Size Reports, ensuring full transparency regarding product composition, dimensions, and quality compliance.

SUSTAINABILITY

Euroloy is committed to environmentally responsible and sustainable production. Through efficient resource management, energy-saving practices, and continuous improvement, Euroloy aims to reduce its environmental impact while maintaining high production standards.



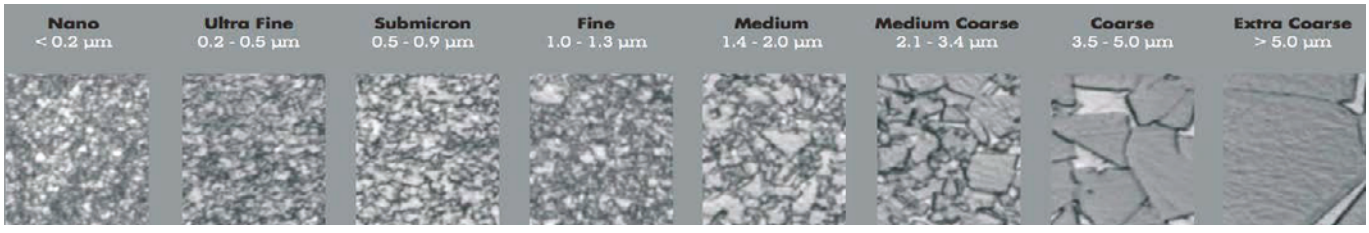
Green Energy



Environmental Protection Treatment Center

CARBIDE ROD GRADES

Grade	Co (%)	HRA	*Intensity* (g/cm^3)	*TRS* (N/mm^2)	*Grain Size* (µm)	*Application Area*
KH60U	6	93.8	14.8	3900	Superince *Ultrafine*	Applicable to the high hardness material processing,including PCB drills,milling cutters and gravers.
KH060S	6	92.5	14.85	3000	*Submicron*	The best material for diamond coating, suitable for fiber reinforced material (carbon fiber and glass fiber), composite material, high-silicon aluminum alloy and graphite products.
KH103S	10.3	92.2	14.43	3800	Superince *Ultrafine*	For general use of high-speed milling and drilling, applicable to alloy steel, stainless steel, cast iron non-ferrous metal, super alloy etc.
KH102S	10	91.8	14.45	3700	*Submicron*	*For general use of milling and drilling, applicable to alloy steel, stainless steel, non-ferrous metal, super alloy etc.*
KH100S	10	91.8	14.45	3700	*Submicron*	For general use of economic milling and drilling, applicable to alloy steel, stainless steel, non-ferrous metal, süper alloy etc.
KH120U	12.0	92.6	14.12	4200	Superince Ultrafine	Special carbide material of high-speed milling, applicable to alloy steel (HRC50-60), stainless steel, non-ferrous metal, titanium alloy, super alloy etc.
KH100SR	10.0	91.8	14.45	3700	*Submicron*	Economic grade for milling, applicable to alloy steel, non-ferrous metal etc.
KH090U	9.0	93.0	14.50	3900	Superince *Ultrafine*	Applicable to processing the hardness and difficult-to-machine materials, stainless machining and micro cutter.



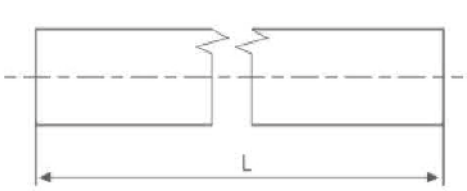
EUROLOY
CUTTING TOOLS

SOLID RODS



SOLID RODS





Metric Type

ØD (mm)			L (mm) (0,+5)
Unground	Tolerance	Ground h6/h5	
1,3	+0/+0.15	1. 0	310/330
2,3	+0/+0.15	2. 0	310/330
3,3	+0/+0.15	3. 0	310/330
3,8	+0/+0.20	3. 5	310/330
4,3	+0/+0.20	4. 0	310/330
4,8	+0/+0.20	4. 5	310/330
5,3	+0/+0.20	5. 0	310/330
5,8	+0/+0.20	5. 5	310/330
6,3	+0/+0.20	6. 0	310/330
6,8	+0/+0.30	6. 5	310/330
7,3	+0/+0.30	7. 0	310/330
7,8	+0/+0.30	7. 5	310/330
8,3	+0/+0.30	8. 0	310/330
8,8	+0/+0.30	8. 5	310/330
9,3	+0/+0.30	9. 0	310/330
9,8	+0/+0.30	9. 5	310/330
10,3	+0/+0.30	10. 0	310/330
10,8	+0/+0.30	10. 5	310/330
11,3	+0/+0.30	11. 0	310/330
11,8	+0/+0.30	11. 5	310/330
12,3	+0/+0.30	12. 0	310/330
12,8	+0/+0.40	12. 5	310/330
13,3	+0/+0.40	13. 0	310/330
13,8	+0/+0.40	13. 5	310/330
14,3	+0/+0.40	14. 0	310/330
14,8	+0/+0.40	14. 5	310/330
15,3	+0/+0.40	15. 0	310/330
15,8	+0/+0.40	15. 5	310/330
16,3	+0/+0.40	16. 0	310/330

Metric Type

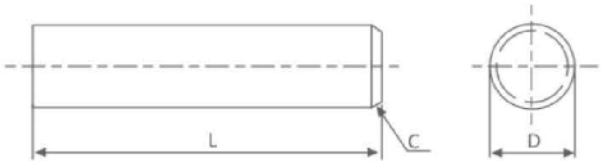
ØD (mm)			L (mm) (0,+5)
Unground	Tolerance	Ground h6/h5	
16,8	+0/+0.50	16. 5	310/330
17,3	+0/+0.50	17. 0	310/330
17,8	+0/+0.50	17. 5	310/330
18,3	+0/+0.50	18. 0	310/330
18,8	+0/+0.50	18. 5	310/330
19,3	+0/+0.50	19. 0	310/330
20,3	+0/+0.50	20. 0	310/330
21,3	+0/+0.50	21. 0	310/330
22,3	+0/+0.50	22. 0	310/330
23,3	+0/+0.50	23. 0	310/330
24,3	+0/+0.50	24. 0	310/330
25,3	+0/+0.50	25. 0	310/330
26,3	+0/+0.50	26. 0	310/330
27,3	+0/+0.50	27. 0	310/330
28,3	+0/+0.50	28. 0	310/330
29,3	+0/+0.50	29. 0	310/330
30,3	+0/+0.50	30,0	310/330
31,3	+0/+0.50	31,0	310/330
32,3	+0/+0.50	32,0	310/330
33,3	+0/+0.50	33,0	310/330
34,3	+0/+0.50	34,0	310/330
35,3	+0/+0.50	35,0	310/330
36,3	+0/+0.50	36,0	310/330
37,3	+0/+0.50	37,0	310/330
38,3	+0/+0.50	38,0	310/330
39,3	+0/+0.50	39,0	310/330
40,3	+0/+0.50	40. 0	310/330
45,3	+0.20/+0.70	45. 0	310/330
50,3	+0.20/+0.70	50. 0	310/330

Inch Type

ØD (inch)	Unground Tol.	Ground Tol.	L (inch) (0,+0.197)
1/8	+0.0118/+0.01	h6/h5	13
3/16	+0.0118/+0.01	h6/h5	13
1/4	+0.0118/+0.02	h6/h5	13
5/16	+0.0118/+0.02	h6/h5	13
3/8	+0.0118/+0.02	h6/h5	13
1/2	+0.0118/+0.02	h6/h5	13
5/8	+0.0118/+0.02	h6/h5	13
3/4	+0.0118/+0.03	h6/h5	13
1	+0.0118/+0.03	h6/h5	13
1-1/4	+0.0118/+0.03	h6/h5	13
1-1/2	+0.0118/+0.03	h6/h5	13

SOLID RODS CUT TO LENGTH





Metric Type

ØD (mm)			C (mm) (±0.1;45°±3°)	L (mm) (0,+1)
Unground	Tolerance	Ground h6/h5		
3,3	+0/+0.15	3	0,4	50
3,3	+0/+0.15	3	0,4	70
3,3	+0/+0.15	3	0,4	100
4,3	-0.10/+0.10	4	0,4	50
4,3	-0.10/+0.10	4	0,4	70
4,3	-0.10/+0.10	4	0,4	100
5,3	-0.10/+0.10	5	0,5	50
5,3	-0.10/+0.10	5	0,5	70
5,3	-0.10/+0.10	5	0,5	80
6,3	-0.10/+0.10	6	0,6	50
6,3	-0.10/+0.10	6	0,6	60
6,3	-0.10/+0.10	6	0,6	100
8,3	-0.05/+0.20	8	0,6	60
8,3	-0.05/+0.20	8	0,6	80
8,3	-0.05/+0.20	8	0,6	100
10,3	-0.05/+0.20	10	0,8	70
10,3	-0.05/+0.20	10	0,8	90

Metric Type

ØD (mm)			C (mm) (±0.1;45°±3°)	L (mm) (0,+1)
Unground	Tolerance	Ground h6/h5		
10,3	-0.05/+0.20	10	0,8	100
11,3	-0.05/+0.25	11	0,8	110
12,3	-0.05/+0.25	12	0,8	75
12,3	-0.05/+0.25	12	0,8	90
12,3	-0.05/+0.25	12	0,8	100
12,3	-0.05/+0.25	12	0,8	120
14,3	+0/+0.40	14	0,8	75
14,3	+0/+0.40	14	0,8	110
14,3	+0/+0.40	14	0,8	125
16,3	+0/+0.40	16	0,8	100
16,3	+0/+0.40	16	0,8	125
18,3	+0/+0.50	18	1,0	100
18,3	+0/+0.50	18	1,0	150
20,3	+0/+0.50	20	1,0	100
20,3	+0/+0.50	20	1,0	120
20,3	+0/+0.50	20	1,0	150
25,3	+0/+0.50	25	1,0	100
25,3	+0/+0.50	25	1,0	150

Inch Type

ØD (inch)	Unground Tol.	Ground Tol.	C (inch) ±0.004;45°±3°	L (inch) (0,+0.003)
1/8	+0.0118/+0.0177	h6/h5	0,012	2-1/4
1/8	+0.0118/+0.0177	h6/h5	0,012	2-1/2
1/8	+0.0118/+0.0177	h6/h5	0,012	2
1/8	+0.0118/+0.0177	h6/h5	0,012	1-1/2
1/8	+0.0118/+0.0177	h6/h5	0,012	3
1/8	+0.0118/+0.0177	h6/h5	0,012	4
3/16	+0.0078/+0.0157	h6/h5	0,016	1-1/2
3/16	+0.0078/+0.0157	h6/h5	0,016	2
3/16	+0.0078/+0.0157	h6/h5	0,016	2-1/2
3/16	+0.0078/+0.0157	h6/h5	0,016	3
3/16	+0.0078/+0.0157	h6/h5	0,016	4
3/16	+0.0078/+0.0157	h6/h5	0,016	6
1/4	+0.009B+0.0196	h6/h5	0,024	2
1/4	+0.0098/+0.0196	h6/h5	0,024	2-1/2
1/4	+0.0098/+0.0196	h6/h5	0,024	3
1/4	+0.0098/+0.0196	h6/h5	0,024	3-1/4
1/4	+0.009B+0.0196	h6/h5	0,024	4
1/4	+0.0098/+0.0196	h6/h5	0,024	6
5/16	+0.0098/+0.0196	h6/h5	0,024	2
5/16	+0.0098/+0.0196	h6/h5	0,024	2-1/2
5/16	+0.009B+0.0196	h6/h5	0,024	3
5/16	+0.0098/+0.0196	h6/h5	0,024	3-1/2
5/16	+0.0098/+0.0196	h6/h5	0,024	4
5/16	+0.0098/+0.0196	h6/h5	0,024	6
3/8	+0.009B+0.0196	h6/h5	0,024	2
3/8	+0.0098/+0.0196	h6/h5	0,024	2-1/2
3/8	+0.0098/+0.0196	h6/h5	0,024	3
3/8	+0.0098/+0.0196	h6/h5	0,024	3-1/2
3/8	+0.009B+0.0196	h6/h5	0,024	4

Inch Type

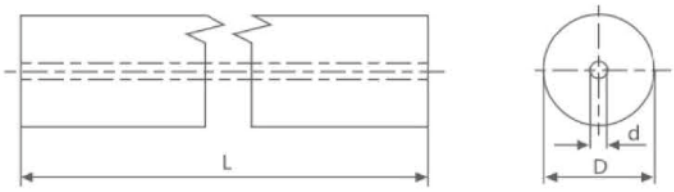
ØD (inch)	Unground Tol.	Ground Tol.	C (inch) ±0.004;45°±3°	L (inch) (0,+0.003)
3/8	+0.009B+0.0196	h6/h5	0,024	5
3/8	+0.0098/+0.0196	h6/h5	0,024	6
1/2	+0.0118/+0.0275	h6/h5	0,031	2-1/2
1/2	+0.0118/+0.0275	h6/h5	0,031	3
1/2	+0.0118/+0.0275	h6/h5	0,031	3-1/2
1/2	+0.0118/+0.0275	h6/h5	0,031	4
1/2	+0.0118/+0.0275	h6/h5	0,031	4-1/2
1/2	+0.0118/+0.0275	h6/h5	0,031	5
1/2	+0.0118/+0.0275	h6/h5	0,031	6
1/2	+0.0118/+0.0275	h6/h5	0,031	8
5/8	+0.0118/+0.0275	h6/h5	0,031	3
5/8	+0.0118/+0.0275	h6/h5	0,031	3-1/2
5/8	+0.0118/+0.0275	h6/h5	0,031	4
5/8	+0.0118/+0.0275	h6/h5	0,031	5
5/8	+0.0118/+0.0275	h6/h5	0,031	6
5/8	+0.0118/+0.0275	h6/h5	0,031	8
3/4	+0.0118/+0.0314	h6/h5	0,039	4
3/4	+0.0118/+0.0314	h6/h5	0,039	5
3/4	+0.0118/+0.0314	h6/h5	0,039	6
3/4	+0.0118/+0.0314	h6/h5	0,039	8
1	+0.0118/+0.0314	h6/h5	0,039	3
1	+0.0118/+0.0314	h6/h5	0,039	4
1	+0.0118/+0.0314	h6/h5	0,039	5
1	+0.0118/+0.0314	h6/h5	0,039	6

RODS WITH CENTRAL COOLANT HOLE



RODS WITH CENTRAL COOLANT HOLE





Metric Type

ØD (mm)			ØD (mm)		Hole Deviation	L (inch) (0,+5)
Unground	Tolerance	Ground h6/h5	Diameter	Tolerance		
4.3	+0/+0.2	4	0.6	±0.1	0.07	330
5.3	+0/+0.2	5	1.0	±0.1	0.07	330
6.3	+0/+0.2	6	1.0	±0.1	0.07	330
8.3	+0/+0.3	8	1.2	±0.15	0.07	330
10.3	+0/+0.3	10	2.0	±0.2	0.10	330
12.3	+0/+0.3	12	2.0	±0.2	0.10	330
14.3	+0/+0.4	14	2.0	±0.2	0.12	330
16.3	+0/+0.4	16	2.0	±0.2	0.12	330
18.3	+0/+0.5	18	3.0	±0.25	0.15	330
20.3	+0/+0.5	20	3.0	±0.25	0.15	330
22.3	+0/+0.5	22	3.0	±0.25	0.15	330
24.3	+0/+0.5	24	4.0	±0.25	0.15	330
26.3	+0/+0.5	26	4.0	±0.25	0.15	330
28.3	+0/+0.5	28	4.0	±0.25	0.15	330
30.3	+0/+0.5	30	5.0	±0.25	0.15	330
32.3	+0/+0.5	32	5.0	±0.25	0.15	330

Inch Type

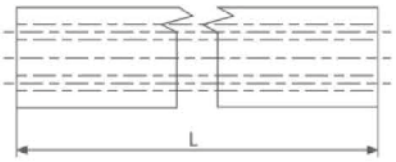
ØD (inch)	Unground Tol	Ground	ØD (inch)		Hole Deviation	L (inch) (0,+0.197)
			Diameter	Tolerance		
1/4	+0.0118/+0.0236	h6/h5	3/77	±0.0039	0.0027	13
9/32	+0.0118/+0.0236	h6/h5	3/77	±0.0039	0.0027	13
5/16	+0.0118/+0.0236	h6/h5	4/85	±0.0059	0.0027	13
25/64	+0.0118/+0.0236	h6/h5	1/16	±0.0059	0.0039	13
13/32	+0.0118/+0.0236	h6/h5	1/16	±0.0059	0.0039	13
277/64	+0.0118/+0.0236	h6/h5	1/16	±0.0059	0.0039	13
31/64	+0.0118/+0.0275	h6/h5	3/38	±0.0098	0.0047	13
1/2	+0.0118/+0.0275	h6/h5	3/38	±0.0098	0.0047	13
9/16	+0.0118/+0.0275	h6/h5	5/51	±0.0098	0.0047	13
5/8	+0.0118/+0.0275	h6/h5	2/17	±0.0098	0.0047	13
3/4	+0.0118/+0.0314	h6/h5	2/17	±0.0098	0.0059	13
13/16	+0.0118/+0.0314	h6/h5	2/17	±0.0098	0.0059	13

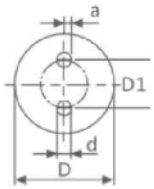
RODS WITH TWO STRAIGHT COOLANT HOLES



RODS WITH TO STRAIGHT COOLANT HOLES





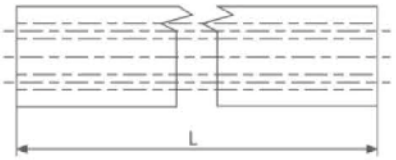


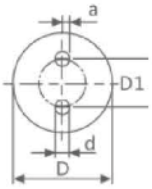
Metric Type

ØD(mm)			Ød(mm)		TkØ(mm)		Hole Deviation	L(inch) (0,+5)
Unground	Tolerance	Ground h6/h5	Diameter	Tolerance	Bolt Core	Tolerance		
6,3	+0/+0.2	6	0.8	±0,10	1.5	+0/-0.2	0.15	330
6,3	+0/+0.2	6	0.8	±0,10	3.0	+0/-0.2	0.15	330
7,3	+0/+0.3	7	1,0	±0,10	3,40	+0/-0.2	0.15	330
8,3	+0/+0.3	8	1,0	±0,10	2.60	+0/-0.2	0.15	330
9,3	+0/+0.3	9	1,0	±0,10	2,45	+0/-0.2	0.20	330
10,3	+0/+0.3	10	1.0	±0,15	2,60	+0/-0.3	0.20	330
10,3	+0/+0.3	10	1.4	±0,15	5,00	+0/-0.3	0.20	330
11,3	+0/+0.3	11	1,4	±0,15	4,85	+0/-0.3	0.30	330
12,3	+0/+0.3	12	1.2	±0,20	3,50	+0/-0.3	0.30	330
12,3	+0/+0.3	12	1.2	±0,20	3,60	+0/-0.3	0.30	330
12,3	+0/+0.3	12	1.2	±0,20	6,00	+0/-0.3	0.30	330
12,3	+0/+0.3	12	1,75	±0,20	3,50	+0/-0.3	0.30	330
13,3	+0/+0.4	13	1,8	±0,20	5,85	+0/-0.3	0.34	330
14,3	+0/+0.4	14	1.5	±0,20	5,00	+0/-0.3	0.37	330
14,3	+0/+0.4	14	1.75	±0,20	7,00	+0/-0.3	0.37	330
15,3	+0/+0.4	15	2,0	±0,20	6,85	+0/-0.3	0.40	330
16,3	+0/+0.4	16	1.5	±0,20	5,00	+0/-0.3	0.45	330
16,3	+0/+0.4	16	2.0	±0,20	8,00	+0/-0.3	0.45	330
17,3	+0/+0.5	17	2,0	±0,20	7,85	+0/-0.3	0.47	330
18,3	+0/+0.5	18	2,0	±0,20	6,20	+0/-0.3	0.50	330
18,3	+0/+0.5	18	2,0	±0,20	9,00	+0/-0.3	0.50	330
19,3	+0/+0.5	19	2,0	±0,20	8,85	+0/-0.3	0.50	330
20,3	+0/+0.5	20	2.0	±0,25	6,20	+0/-0.3	0.50	330
20,3	+0/+0.5	20	2.5	±0,25	10,00	+0/-0.3	0.50	330
20,3	+0/+0.5	20	2.5	±0,25	10,00	+0/-0.3	0.50	330
21,3	+0/+0.5	21	2,5	±0,25	9,80	+0/-0.3	0.50	330
22,3	+0/+0.5	22	2,5	±0,25	10,8	+0/-0.4	0.50	330
22,3	+0/+0.5	22	2,5	±0,25	11,00	+0/-0.4	0.50	330
23,3	+0/+0.5	23	2,5	±0,25	10,8	+0/-0.4	0.50	330
24,3	+0/+0.5	24	3,0	±0,25	11,75	+0/-0.4	0.50	330
25,3	+0/+0.5	25	3,0	±0,25	11,75	+0/-0.4	0.50	330
25,3	+0/+0.5	25	3,0	±0,25	11,70	+0/-0.4	0.50	330
25,3	+0/+0.5	25	3,0	±0,25	12,00	+0/-0.4	0.50	330
26,3	+0/+0.5	26	3,0	±0,25	13,00	+0/-0.5	0.50	330
28,3	+0/+0.5	28	2,5	±0,25	9,00	+0/-0.5	0.50	330
28,3	+0/+0.5	28	3,0	±0,25	14,00	+0/-0.5	0.50	330
28,3	+0/+0.5	28	3,0	±0,25	13,75	+0/-0.5	0.50	330
30,3	+0/+0.5	30	3,0	±0,25	14,00	+0/-0.5	0.50	330
30,3	+0/+0.5	30	3,0	±0,25	13,00	+0/-0.5	0.50	330
32,3	+0/+0.5	32	3,0	±0,25	14,00	+0/-0.5	0.50	330
32,3	+0/+0.5	32	3,0	±0,25	13,80	+0/-0.5	0.50	330
22.0	+0/+0.4	22	2.5	±0,25	11,00	+0/+0.4	0.50	330
25.0	+0/+0.5	25	3.0	±0,25	12,00	+0/+0.5	0.50	330
28.0	+0/+0.4	28	2.0	±0,20	6,40	+0/+0.4	0.50	330
30.0	+0/+0.5	30	3.0	±0,25	13,2	+0/+0.5	0.50	330
32.0	+0/+0.5	32	3.0	±0,25	14,00	+0/+0.5	0.50	330

RODS WITH TWO STRAIGHT COOLANT HOLES







Inch Type

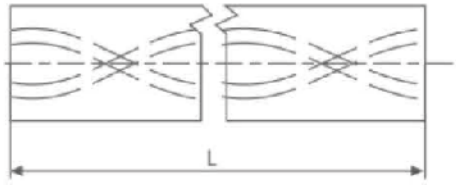
ØD(inch)	Unground Tol.	Ground	Ød(inch)		Hole Deviation	L(inch) (0,+0.197)
			Diameter	Tolerance		
1/4	+0.0118/+0.0236	h6/h5	3/77	±0.0039	0.0027	13
9/32	+0.0118/+0.0236	h6/h5	3/77	±0.0039	0.0027	13
5/16	+0.0118/+0.0236	h6/h5	4/85	±0.0059	0.0027	13
25/64	+0.0118/+0.0236	h6/h5	1/16	±0.0059	0.0039	13
13/32	+0.0118/+0.0236	h6/h5	1/16	±0.0059	0.0039	13
277/64	+0.0118/+0.0236	h6/h5	1/16	±0.0059	0.0039	13
31/64	+0.0118/+0.0275	h6/h5	3/38	±0.0098	0.0047	13
1/2	+0.0118/+0.0275	h6/h5	3/38	±0.0098	0.0047	13
9/16	+0.0118/+0.0275	h6/h5	5/51	±0.0098	0.0047	13
5/8	+0.0118/+0.0275	h6/h5	2/17	±0.0098	0.0047	13
3/4	+0.0118/+0.0314	h6/h5	2/17	±0.0098	0.0059	13
13/16	+0.0118/+0.0314	h6/h5	2/17	±0.0098	0.0059	13

RODS WITH TWO SPIRAL COOLANT HOLES 30°



RODS WITH TWO SPIRAL COOLANT HOLES(30°)





Metric Type

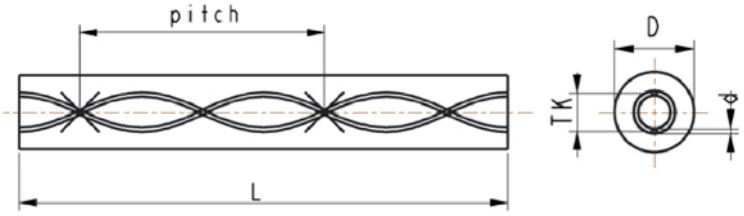
ØD (mm)			Ød (mm)		TkØ (mm)				
Unground	Tolerance	Ground h6/h5	Diameter	Tolerance	Bolt Core	Tolerance	Pitch (±0.5°)	Hole Deviation	L (mm) (0,+5°)
6,0	+0.7/+1.1	6,0	0,70	±0,10	2,40	+0/-0,4	32,65	0,15	330
6,0	+0.7/+1.1	6,0	0,70	±0,10	2,60	+0/-0,4	32,65	0,15	330
8,0	+0.8/+1.2	8,0	1,00	±0,15	3,80	+0/-0,4	43,53	0,15	330
8,0	+0.8/+1.2	8,0	1,00	±0,15	4,00	+0/-0,4	43,53	0,15	330
10,0	+0.8/+1.2	10,0	1,40	±0,15	4,50	+0/-0,6	54,41	0,20	330
10,0	+0.8/+1.2	10,0	1,40	±0,15	4,80	+0/-0,6	54,41	0,20	330
10.0	+0.8/+1.2	10,0	1,40	±0,15	4,00	+0/-0,6	54,41	0,20	330
12,0	+0.9/+1.3	12,0	1,40	±0,15	5,85	+0/-0,8	65,30	0,30	330
12,0	+0.9/+1.3	12,0	1,40	±0,15	6,25	+0/-0,8	65,30	0,30	330
14,0	+0.9/+1.3	14,0	1,75	±0,20	6,70	+0/-0,8	76,18	0,40	330
14,0	+0.9/+1.3	14,0	1,75	±0,20	7,10	+0/-0,8	76,18	0,40	330
15,0	+0.9/+1.3	15,0	1,75	±0,20	7,70	+0/-0,8	81,62	0,40	330
16,0	+1.0/+1.4	16,0	1,75	±0,20	8,30	+0/-0,8	87,06	0,40	330
18,0	+1.0/+1.4	18,0	2,00	±0,25	9,25	+0/-0,8	97,95	0,50	330
18,0	+1.0/+1.4	18,0	2,00	±0,25	9,55	+0/-0,8	97,95	0,50	330
18,0	+1.0/+1.4	18,0	2,00	±0,25	8,50	+0/-0,8	97,95	0,50	330
20,0	+1.0/+1.4	20,0	2,00	±0,25	10,40	+0/-1,0	108,83	0,50	330
22,0	+1.0/+1.5	22,0	2,00	±0,25	11,10	+0/-1,0	119,71	0,50	330
22,0	+1.0/+1.5	22,0	2,00	±0,25	11,60	+0/-1,0	119,71	0,50	330
25,0	+1.1/+1.6	25,0	2,00	±0,25	12,80	+0/-1,0	136,03	0,50	330
25,0	+1.1/+1.6	25,0	2,00	±0,25	13,30	+0/-1,0	136,03	0,50	330

RODS WITH TWO SPIRAL COOLANT HOLES 40°



RODS WITH TWO SPIRAL COOLANT HOLES(40°)





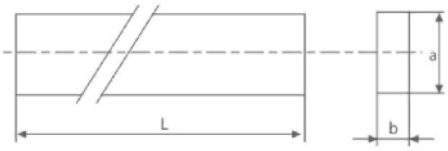
Metric Type

ØD (mm)			Ød (mm)		TkØ (mm)		Pitch (±0.5°)	Hole Deviation	L (mm) (0,+5°)
Unground	Tolerance	Ground h6/h5	Diameter	Tolerance	Bolt Core	Tolerance			
4,3	+0.4/+1.0	4,3	0,50	±0,10	1,50	+0.05/+0.35	14,98	±0,15	330
6,3	+0.5/+1.1	6,3	0,50	±0,10	2,00	+0.15/+0.45	22,46	±0,15	330
6,3	+0.5~+1.1	6,3	0,70	±0,10	1,90	+0.15~+0.45	22,46	±0,15	330
8,3	+0.6/+1.2	8,3	0,65	±0,10	2,40	+0.15/+0.45	29,95	±0,15	330
10,3	+0.6/+1.2	10,3	0,50	±0,10	2,00	+0.15/+0.45	37,44	±0,15	330
10,3	+0.6/+1.2	10,3	0,80	±0,10	3,20	+0.15/+0.45	37,44	±0,30	330
12,3	+0.6/+1.2	12,3	0,90	±0,10	3,80	+0.15/+0.45	44,93	±0,30	330
14,3	+0.6/+1.2	14,3	1,00	±0,10	4,30	+0.15/+0.45	52,42	±0,30	330
16,3	+0.6/+1.2	16,3	0,80	±0,10	3,20	+0.20~+0.65	59,90	±0,30	330
16,3	+0.6/+1.2	16,3	1,20	±0,15	5,10	+0.20~+0.65	59,90	±0,40	330
18,3	+0.8/+1.4	18,3	1,40	±0,15	5,90	+0.20~+0.65	67,39	±0,40	330
20,3	+0.8/+1.4	20,3	1,50	±0,15	6,60	+0.20~+0.65	74,88	±0,40	330
22,3	+0.8/+1.4	22,3	1,70	±0,20	7,20	+0.20~+0.65	82,37	±0,40	330
23,3	+0.8/+1.4	23,3	1,70	±0,20	7,60	+0.20~+0.65	86,11	±0,40	330
25,3	+0.8/+1.4	25,3	1,75	±0,20	7,60	+0.20~+0.65	93,60	±0,40	330
28,3	+0.8/+1.4	28,3	2,00	±0,20	8,40	+0.20~+0.65	104,83	±0,40	330
30,3	+0.8/+1.4	30,3	2,00	±0,20	8,40	+0.20~+0.65	112,32	±0,40	330
32,3	+0.8/+1.4	32,3	2,00	±0,20	8,40	+0.20~+0.65	119,81	±0,40	330

CARBIDE STRIPS



RECTANGULAR STRIPS



a(mm)	b(mm) (+0.15,+0.35)	L(mm) (0,+5)
3 +0.2/+0.4	2	330
4 +0.2/+0.4	3	330
5 +0.2/+0.4	2	330
5 +0.2/+0.4	3.5	330
5.5 +0.2/+0.4	1	330
6 +0.2/+0.4	3	330
8 +0.2/+0.4	2	330
8 +0.2/+0.4	3	330
I 0 +0.3/+0.5	2	330
I 0 +0.3/+0.5	2.5	330
I 0 +0.3/+0.5	3	330
I 0 +0.3/+0.5	3.5	330
12 +0.3/+0.5	2	330
12 +0.3/+0.5	2.5	330
12 +0.3/+0.5	3	330
12 +0.3/+0.5	3.5	330
12 +0.3/+0.5	4.5	330
12 +0.3/+0.5	5	330
14 +0.3/+0.5	3	330

a(mm)	b(mm) (+0.15,+0.35)	L(mm) (0,+5)
I 5 +0.4/+0.6	2	330
15 +0.4/+0.6	3.5	330
I 5 +0.4/+0.6	4	330
16 +0.4/+0.6	3	330
17 +0.4/+0.6	3	330
17 +0.4/+0.6	5	330
18 +0.4/+0.6	2	330
18 +0.4/+0.6	3.5	330
20 +0.4/+0.6	2	330
20 +0.4/+0.6	3	330
20 +0.4/+0.6	3.5	330
20 +0.4/+0.6	5	330
22 +0.4/+0.6	3.5	330
22 +0.4/+0.6	4	330
25 +0.4/+0.6	3.5	330
25 +0.4/+0.6	4	330
30 +0.4/+0.6	5	330
32 +0.4/+0.6	3	330
34 +0.4/+0.6	3	330

OTHER TECHNICAL STANDARTS

Diameter Tolerance h6/h5 (mm)

Diameter Ø	h6	h5
0<Ø≤3	+0/-0.006	+0/-0.004
3<Ø≤6	+0/-0.008	+0/-0.005
6<Ø≤10	+0/-0.009	+0/-0.006
10<Ø≤18	+0/-0.011	+0/-0.008
18<Ø≤30	+0/-0.013	+0/-0.009
30<Ø≤40	+0/-0.016	+0/-0.0011

Unground Rods Straightness Tolerances (mm)

Diameter Ø	Tolerance
Ø≤6	0.60
Ø≤6	0.50

Ground Rods Straightness Tolerances (mm)

L / Dia Ø	O<LS60	60<L≤S80	80<L≤100	100<L≤120	120<L≤150	150<L≤200	200<L≤330
2≤Ø<4	0.005	0.008	0.012	0.020			
4≤Ø<6	0.005		0.008	0.012	0.020		
6≤Ø<8		0.005		0.008	0.015	0.020	
8≤Ø<10			0.005		0.008	0.015	
10≤Ø<16	0.005				0.008		0.015
16≤Ø<20			0.005			0.008	0.015
20≤Ø<40				0.005			0.008

Ground Rods Straightness Tolerances (mm)

L / Dia Ø	O<LS60	60<L≤S80	80<L≤100	100<L≤120	120<L≤150	150<L≤200	200<L≤330
2≤Ø<40				0.003			

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