



Toonney Alloy(Xiamen) Co.,Ltd.



Carbide Rods



TOONNEY ALLOY (XIAMEN) CO.,LTD.

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Toonney Alloy(Xiamen) Co.,Ltd.

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Company profile

Toonney Alloy(Xiamen) Co.,Ltd is a leading manufacturer of tungsten carbide alloy products, Toonney factory is located in coastal city Xiamen, Fujian province of China, workshops cover about 8000M2 totally in 3 floors, has the latest whole production line to get shaped/finishing tungsten carbide alloy rods/die/bar from tungsten carbide powder. Thanks to the high degree of automation, company runs efficiently with a 100 person staff. To convenience the customers in industrial concentration area, Toonney builds shops in selling ready stock tungsten alloy bars and rods in Changzhou of Jiangsu province and Dongguan of Guangdong province.

Products series: 1, Carbide rods 2,Tungsten alloy bar 3,Die and bushing 4, Block and sheet 5, Customized products in tungsten carbide alloy. For common use of tungsten rods, bars, blanks, dies, we developed 50 grades standard materials for options to different applications. Besides the standard products series, we also help customer to find comprehensive solution in some special complicated situation.

High quality tungsten alloy products are ideal in applications where low thermal expansion, high density, high hardness, wear resistant, non-toxicity, corrosion resistant, and high thermal conductivity materials are preferred. Welcome customers from all over the world to work and stay with us in this interesting and wide range industry!



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Blank for solid carbide blade is our core business

High technology manufacturing facility

Sufficient capacity, fast delivery

Professional technical team

Strict quality control system in each production process



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Grade table

Grade	ISO Grade	Cobalt (Co%)	Grain size (µm)	Density (g/cm ³)	Hardness (HRA)	Hardness (HV)	TRS (N/mm ²)
TU06	K05-K10	6.0	0.4	14.80	94.0	2177	3800
TF06	K05-K10	6.0	0.6	14.81	93.1	2034	3600
TU08	K10-K20	8.0	0.4	14.62	93.5	2099	3800
TU40	K20-K40	10.0	0.8	14.40	91.8	1834	3800
TU40F	K20-K40	10.0	0.6	14.45	92.3	1912	4000
TU44	K20-K40	12.0	0.4	14.10	92.8	1990	4200
TU25	K20-K40	12.0	0.5	14.06	92.5	1943	3800
TU45	K20-K40	13.0	0.4	13.96	92.6	1969	4000



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Application table

Grade	Microstructure	Application
TU06		Ultrafine grain, high hardness, high strength. Fit for making PCB microdrilling, micro milling cutter and kinds of hard metal solid tools. Recommended material to make milling cutter of which Dia. is 1.2mm and above.
TF06		Fit for cutting aluminum and magnesium alloy, copper base alloy, iron-base alloy, plastic, graphite, carbon fiber etc. Recommended material for making drill and mill cutter for aluminum and magnesium material.
TU08		High strength and hardness, good for machining acrylic material, Recommended material for making PCB drill and big drill of which dia. is 6.7mm and above.
TU40		Recommended material for common drill, end mill, specially good to mill and drill the material common die steel, gray iron, cast steel and alloy.
TU40F		Recommended material for making drill, milling cutter etc, to mill and drill steel, stainless steel, cast iron and aluminum alloy of which hardness is below 50HRC.
TU44		Fit for making different specification milling cutters, reamer, carving blades etc. specially performs good in tools cutting in high speed for example in cutting quenched steel, aluminum alloy, titanium alloy etc.
TU25		The recommended material for mill and drill tools to machining material heat treatment steel, cast iron, stainless steel.
TU45		Recommended material for all kinds end mill, reamer, carving blade etc., performs good in high speed light cutting area, specially fit for quenched steel, aluminum alloy, titanium alloy etc.

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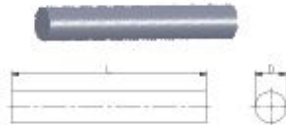
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Carbide Rods



Solid rod



Dia. Ø(mm)	Tolerance (mm)	Length (mm)	Tolerance Tol.(mm)	Dia. Ø(mm)	Tolerance (mm)	Length (mm)	Tolerance Tol.(mm)
2.0	+0.30/+0.15	330	+1.5	16.5	+0.8/+0.3	330	+1.5
2.5	+0.30/+0.15	330	+1.5	17.0	+0.8/+0.3	330	+1.5
3.0	+0.50/+0.30	330	+1.5	17.5	+0.8/+0.3	330	+1.5
3.5	+0.50/+0.30	330	+1.5	18.0	+0.8/+0.3	330	+1.5
4.0	+0.50/+0.30	330	+1.5	18.5	+0.8/+0.3	330	+1.5
4.5	+0.50/+0.30	330	+1.5	19.0	+0.8/+0.3	330	+1.5
5.0	+0.50/+0.30	330	+1.5	19.5	+0.8/+0.3	330	+1.5
5.5	+0.50/+0.30	330	+1.5	20.0	+0.8/+0.3	330	+1.5
6.0	+0.50/+0.30	330	+1.5	20.5	+0.8/+0.3	330	+1.5
6.5	+0.50/+0.30	330	+1.5	21.0	+0.8/+0.3	330	+1.5
7.0	+0.50/+0.30	330	+1.5	21.5	+0.8/+0.3	330	+1.5
7.5	+0.50/+0.30	330	+1.5	22.0	+0.8/+0.3	330	+1.5
8.0	+0.50/+0.30	330	+1.5	22.5	+0.8/+0.3	330	+1.5
8.5	+0.50/+0.30	330	+1.5	23.0	+0.8/+0.3	330	+1.5
9.0	+0.50/+0.30	330	+1.5	23.5	+0.8/+0.3	330	+1.5
9.5	+0.50/+0.30	330	+1.5	24.0	+0.8/+0.3	330	+1.5
10.0	+0.50/+0.30	330	+1.5	24.5	+0.8/+0.3	330	+1.5
10.5	+0.50/+0.30	330	+1.5	25.0	+0.8/+0.3	330	+1.5
11.0	+0.50/+0.30	330	+1.5	25.5	+0.8/+0.3	330	+1.5
11.5	+0.50/+0.30	330	+1.5	26.0	+0.8/+0.3	330	+1.5
12.0	+0.50/+0.30	330	+1.5	26.5	+0.8/+0.3	330	+1.5
12.5	+0.50/+0.30	330	+1.5	27.0	+0.8/+0.3	330	+1.5
13.0	+0.50/+0.30	330	+1.5	27.5	+0.8/+0.3	330	+1.5
13.5	+0.50/+0.30	330	+1.5	28.0	+0.8/+0.3	330	+1.5
14.0	+0.75/+0.30	330	+1.5	28.5	+0.8/+0.3	330	+1.5
14.5	+0.75/+0.30	330	+1.5	29.0	+0.8/+0.3	330	+1.5
15.0	+0.75/+0.30	330	+1.5	29.5	+0.8/+0.3	330	+1.5
15.5	+0.75/+0.30	330	+1.5	30.0	+0.8/+0.3	330	+1.5
16.0	+0.75/+0.30	330	+1.5	30.5	+0.8/+0.3	330	+1.5

Carbide Rods



"T" Shape milling cutter blank



ØD1	L	C	ØD2	ØD1	L	C	ØD2
17.0	94	4	10.3	33.0	156	8	16.3
	106	6			160	10	
	108	8			164	4	
	110	10			166	6	
21.0	94	4	10.3	37.0	168	8	16.3
	106	6			172	10	
	108	8			176	4	
	110	10			180	6	
27.0	94	4	12.3	41.0	184	8	16.3
	106	6			188	10	
	108	8			192	4	
	110	10			196	6	
33.0	94	4	16.3	41.0	196	8	16.3
	106	6			200	10	
	108	8			204	4	
	110	10			208	6	
	154	4			212	8	
	156	6			216	10	

- Application Area: "T" Milling cutter
- Size Range: Diameter 15mm to 42 mm, Length 100 to 160 mm
Other size can be customized.
- Size Tolerance: Diameter D, +0.4/+0.2mm; Step Diameter d±0.3mm; Length +2.0/+1.0mm; Step length C+0.4/+0.2mm

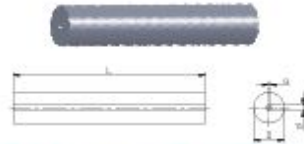
Customization offered.



Carbide Rods



Round rod with one coolant hole



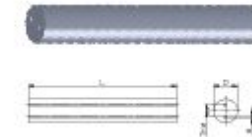
Outer D(mm)	OD Tol.(mm)	Inner Hole d(mm)	ID Tol.(mm)	Hole center division value a	Length (mm)	L Tol.(mm)
3.0	+0.50/+0.30	0.5	±0.10	0.10	330	+1.5
4.0	+0.50/+0.30	0.5	±0.10	0.10	330	+1.5
5.0	+0.50/+0.30	0.5	±0.10	0.15	330	+1.5
6.0	+0.50/+0.30	1.0	±0.15	0.15	330	+1.5
7.0	+0.50/+0.30	1.0	±0.15	0.15	330	+1.5
8.0	+0.50/+0.30	1.0	±0.15	0.15	330	+1.5
9.0	+0.50/+0.30	1.4	±0.15	0.20	330	+1.5
10.0	+0.50/+0.30	1.4	±0.15	0.20	330	+1.5
11.0	+0.50/+0.30	1.4	±0.15	0.28	330	+1.5
12.0	+0.50/+0.30	1.8	±0.15	0.30	330	+1.5
13.0	+0.70/+0.30	1.8	±0.15	0.34	330	+1.5
14.0	+0.70/+0.30	1.8	±0.15	0.37	330	+1.5
15.0	+0.70/+0.30	2.0	±0.20	0.40	330	+1.5
16.0	+0.70/+0.30	2.0	±0.20	0.40	330	+1.5
17.0	+0.80/+0.30	2.0	±0.20	0.47	330	+1.5
18.0	+0.80/+0.30	2.0	±0.20	0.50	330	+1.5
19.0	+0.80/+0.30	2.0	±0.20	0.50	330	+1.5
20.0	+0.80/+0.30	2.5	±0.25	0.50	330	+1.5
21.0	+0.80/+0.30	2.5	±0.25	0.50	330	+1.5
22.0	+0.80/+0.30	2.5	±0.25	0.50	330	+1.5
23.0	+0.80/+0.30	3.0	±0.25	0.50	330	+1.5
24.0	+0.80/+0.30	3.0	±0.25	0.50	330	+1.5
25.0	+0.80/+0.30	3.0	±0.25	0.50	330	+1.5
26.0	+0.80/+0.30	3.0	±0.25	0.50	330	+1.5
27.0	+0.80/+0.30	3.0	±0.25	0.50	330	+1.5
28.0	+0.80/+0.30	3.0	±0.25	0.50	330	+1.5
29.0	+0.80/+0.30	3.0	±0.25	0.50	330	+1.5
30.0	+0.80/+0.30	3.0	±0.25	0.50	330	+1.5

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Carbide Rods



Round rod with double coolant holes (standard pitch)



Outside Dia. D(mm)	OD Tol.(mm)	Inner d(mm)	ID Tol.(mm)	Distance between holes		Hole center division value a	L(mm)	L Tol.(mm)
				mm	Tol.(mm)			
4.0	+0.50/+0.30	0.8	±0.10	1.8	-0.1-0.15	0.10	330	+1.5
5.0	+0.50/+0.30	0.8	±0.10	2	-0.1-0.15	0.15	330	+1.5
6.0	+0.50/+0.30	1	±0.15	3	+0.0-0.20	0.15	330	+1.5
7.0	+0.50/+0.30	1	±0.15	3.5	+0.0-0.20	0.15	330	+1.5
8.0	+0.50/+0.30	1	±0.15	4	+0.0-0.30	0.15	330	+1.5
9.0	+0.50/+0.30	1.4	±0.15	4	+0.0-0.30	0.20	330	+1.5
10.0	+0.50/+0.30	1.4	±0.15	5	+0.0-0.30	0.20	330	+1.5
11.0	+0.50/+0.30	1.4	±0.15	5	+0.0-0.30	0.28	330	+1.5
12.0	+0.50/+0.30	1.75	±0.15	6	+0.0-0.30	0.30	330	+1.5
13.0	+0.70/+0.30	1.75	±0.15	6	+0.0-0.30	0.34	330	+1.5
14.0	+0.70/+0.30	1.75	±0.15	7	+0.0-0.30	0.37	330	+1.5
15.0	+0.70/+0.30	2	±0.20	7	+0.0-0.30	0.40	330	+1.5
16.0	+0.70/+0.30	2	±0.20	8	+0.0-0.30	0.40	330	+1.5
17.0	+0.80/+0.30	2	±0.20	8	+0.0-0.30	0.47	330	+1.5
18.0	+0.80/+0.30	2	±0.20	9	+0.0-0.30	0.50	330	+1.5
19.0	+0.80/+0.30	2	±0.20	9	+0.0-0.30	0.50	330	+1.5
20.0	+0.80/+0.30	2.5	±0.25	10	+0.0-0.40	0.50	330	+1.5
21.0	+0.80/+0.30	2.5	±0.25	10	+0.0-0.40	0.50	330	+1.5
22.0	+0.80/+0.30	2.5	±0.25	11	+0.0-0.40	0.50	330	+1.5
23.0	+0.80/+0.30	2.5	±0.25	11	+0.0-0.40	0.50	330	+1.5
24.0	+0.80/+0.30	3	±0.25	12	+0.0-0.50	0.50	330	+1.5
25.0	+0.80/+0.30	3	±0.25	12	+0.0-0.50	0.50	330	+1.5
26.0	+0.80/+0.30	3	±0.25	13	+0.0-0.50	0.50	330	+1.5

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