

CATALOG OF TUNGSTEN CARBIDE BARS

Anvils and Pressure Cylinders

Date of Preparation: 08/19/2011

Revision 2011

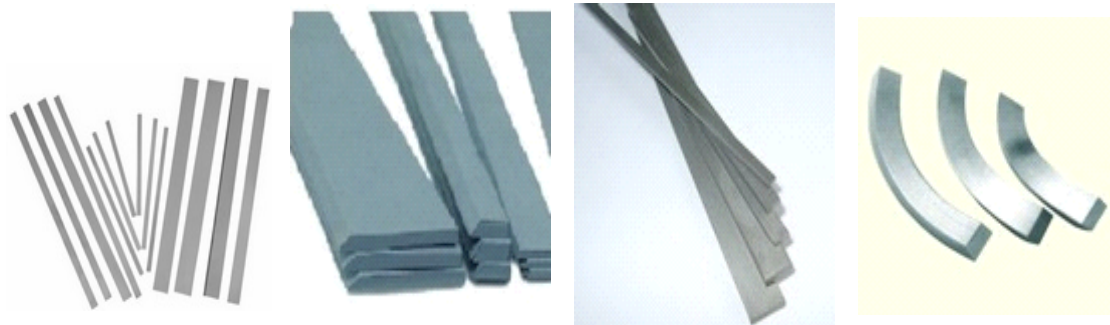
Reason for Issue: Updated Format

Chemical Name: Tungsten Carbide

Chemical Family: Refractory Metal (non-ferrous metal)

Chemical Formula: WC

Manufacturer: E-Biz Center of China Tungsten Industry Association



MORE INFORMATION

Web: www.carbide tungsten.com

Email: ebiz@ctia.com.cn

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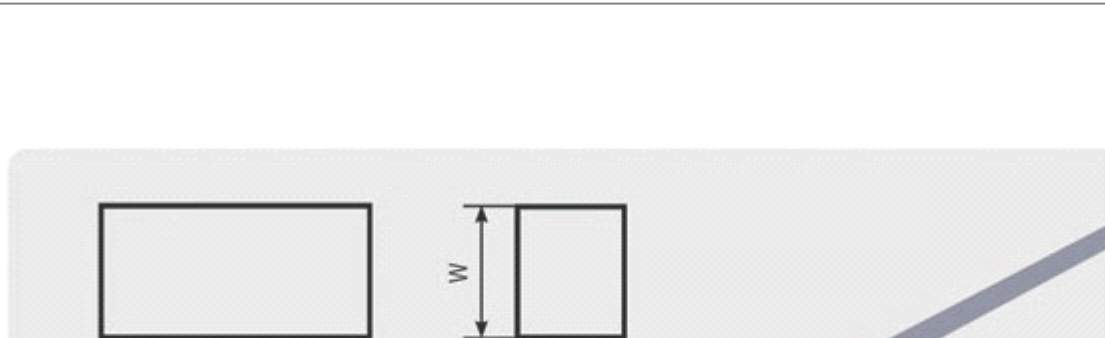
1. Tungsten carbide strip



Tungsten carbide strip

- 1, Length: 10.0-500mm, Width: 3.0-40.0 mm
- 2, Thickness: 2.0-6.0 mm
- 3, Density: 14.0-14.9 g/cm³
- 4, Composition: WC+Co, WC+TiC+TaC+Co
- 5, Can be designed according to customer's requirements.

The specification and Tolerance of Tungsten carbide strip



Specification(mm)	Tolerance of Thickness(mm)	Tolerance of Width(mm)	Tolerance of Length(mm)
1x(2~5)xL	+0.2~+0.5(T<7.0) +0.3~+0.6(T>7.0)	+0.2~+0.6(W<30) +0.2~+0.8(W>30)	-/+1.0(L<100) -/+2.0(L>100) -/+5.0(L>200)
1.5x(2~10)xL			
2.0x(3~15)xL			
2.5x(2.5~20)xL			
3.0x(3.0~20)xL			
3.5x(3.5~25)xL			
4.0x(4.0~30)xL			
5.0x(4.0~40)xL			
6.0x(5.0~40)xL			
(7~20)x(7.0~40)xL			

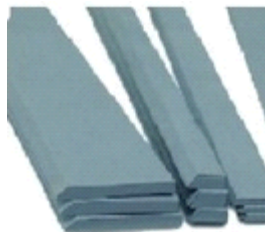
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Recommended grades for tungsten carbide strip

Grade	Density(g/cm ³)	hardness(HRA)	T.R.S(N/mm ²)	Application
YL10.2	14.45	91.5	2880	Super comprehensive performances with a good performances to price rate, suitable for cutting fiber boards of a higher density and densified boards
YM80	14.76	90.5	2590	Super comprehensive performances and easy to weld with a high performances to price rate, suitable for cutting soft and hard wood
YG8	14.74	89.0	2710	Good for general purposes and easy to weld, suitable for cutting soft and hard wood
YG6	14.95	89.5	2580	Good for general purposes and easy to weld, suitable for cutting soft and hard wood

2. Tungsten carbide strip with angle



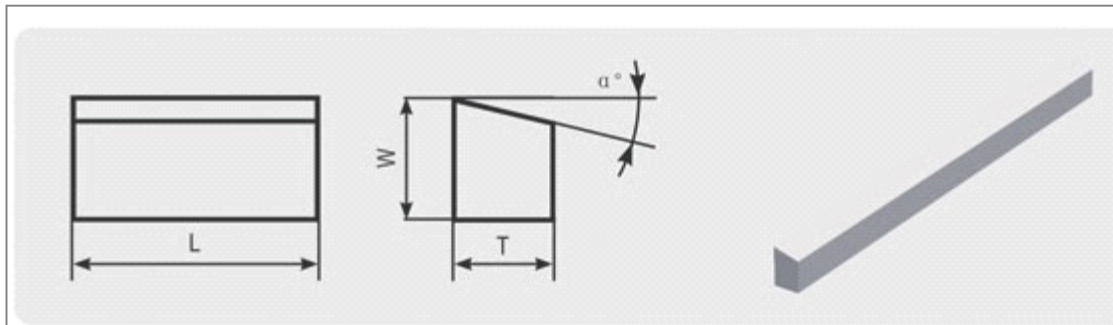
Tungsten carbide bar with angles

- 1, Length: 10.0-500mm, Width: 3.0-40.0 mm, Angle: 0~35°
- 2, Thickness: 2.0-6.0 mm
- 3, Density: 14.0-14.9 g/cm³
- 4, Composition: WC+Co, WC+TiC+TaC+Co
- 5, Can be designed according to customer's requirements.

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Tungsten carbide bar with angles Specification and Tolerance



Specification(mm)	Tolerance of Thickness(mm)	Tolerance of Width(mm)	Tolerance of Angle	Tolerance of Length(mm)
(1~2)x(2.5~6.0)~(0~35°)	+0.2~+0.5	+0.2~+0.6	-/+1°	-/+1.0(L<100) -/+2.0(L>100) -/+5.0(L>300)
(2~3)x(3.0~8.0)~(0~35°)				
(3~4)x(3.0~20.0)~(0~35°)				
(4~5)x(4.0~30.0)~(0~35°)				

Recommended grades for tungsten carbide bar

Grade	Density(g/cm ³)	hardness(HRA)	T.R.S(N/mm ²)	Application
YL10.2	14.45	91.5	2880	Super comprehensive performances with a good performances to price rate, suitable for cutting fiber boards of a higher density and densified boards
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3. Tungsten carbide bar



Tungsten carbide bar introduce

Tungsten carbide bar is widely known as one kind of carbide cutting tools, it's available for different grinding geometric parameters and suitable for both cutting materials and nonmetal materials, also it can be applied to conventional, carbide inserts semi-automatic lathe, automatic lathe and planning machine to work grooves and operate cutting, etc.

Tolerances of length, width and thickness of tungsten carbide bar / sheet / plate.

Length(mm)	Tolerance(mm)	Width(mm)	Tolerance(mm)	Thickness(mm)	Tolerance(mm)
<80	0 ~ +1.5	<10	0 ~ +0.4	<3.0	0 ~ +0.30
>80~150	0 ~ +2.0	>10~20	0 ~ +0.5	>3.0~5.0	0 ~ +0.35
>150~250	0 ~ +2.5	>20~30	0 ~ +0.6	>5.0~8.0	0 ~ +0.35

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>250~320	0 ~ +3.0	>30~40	0 ~ +0.7	>8.0~10	0 ~ +0.40
>320	0 ~ +3.5	>40	0 ~ +0.8	>10	0 ~ +0.45

Recommended grades for tungsten carbide bar

Grade	Density(g/cm ³)	hardness(HRA)	T.R.S(N/mm ²)	Application
YL10.2	14.45	91.5	2880	Super comprehensive performances with a good performances to price rate, suitable for cutting fiber boards of a higher density and densified boards
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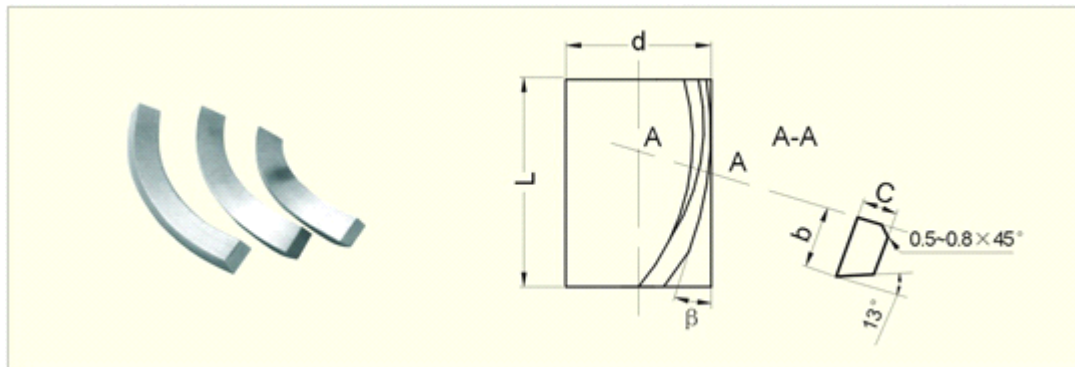
4. Helical milling strips



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Helical milling strips



mm

Type	Helical angel	d	L	b	c
XL251632	25°	16	32	4.0	2.6
XL252038		20	38		
XL252545		25	45	4.5	2.8
XL302845	30°	28	45	5.5	3.3
XL303053		30	53		
XL303253		32			
XL303653		36			
XL304038	30°	40	38	6.5	3.5
XL304063			63		
XL304563		45	75		
XL305075		50	63		
XL306363		63	63		
XL306300			80		

XL Dimension & Tolerance of Helical milling strip

(mm)

Length of axie	L Tol.	βo Tol.	b Tol.	c Tol.
L≤40	+2.5~+5.5	±1°	-0.10~+0.20	-0.10~+0.20
40<L≤163	+3.0~+6.0		-0.15~+0.25	-0.15~+0.25
63<L≤120	+3.5~+7.5		-0.15~+0.25	-0.15~+0.25

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