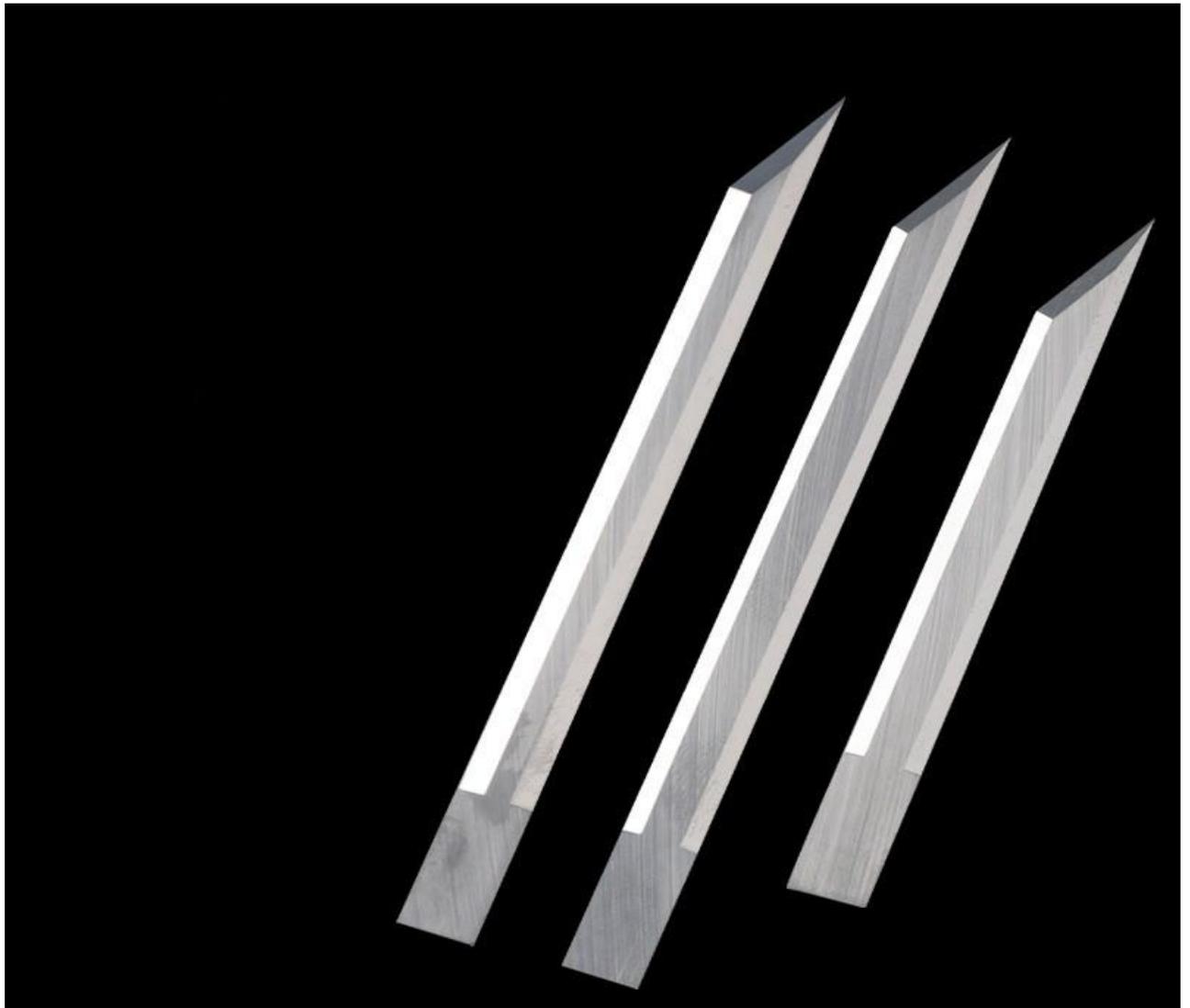


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[RUK](#) [EMMA](#) [iEcho](#) [JINDEX](#) [RICHPEACE](#) Tungsten steel pneumatic knife blade  
carbide vibrating knife blade TPS cutting knife EVA XPE foam double edge  
vibrating knife blade



Alloy materials

[Tungsten steel](#) material refers to an alloy material that uses WC and Co powder as the main raw materials and is mixed, pressed, and sintered through

a series of processing techniques using powder metallurgy methods. It has properties such as hardness, high strength, corrosion resistance, and stainlessness.

It is widely used in hardware, machinery, chemical industry, national defense and other industries to produce high-precision and high-wear-resistant key parts.

#### Performance characteristics

1. High density, g/cm<sup>3</sup>: ranging from 11.0 to 15.0. The density of tungsten steel materials for different uses is not consistent. It can also be said that tungsten steel materials with different densities have different uses. Please pay attention when purchasing.

2. High strength. The strength of tungsten steel materials for different uses is not consistent. It can also be said that tungsten steel materials of different strengths have different uses. Pay special attention to this when purchasing.

3. High hardness, 82.0~93.6HRA, equivalent to 69~81HRC. The hardness requirements of tungsten steel materials for different uses are not consistent. It can also be said that tungsten steel materials with different hardnesses have different uses. Pay special attention to this when purchasing. point

4. Red hardness is good, can reach 900~1000°C, and will not deform when maintaining 60HRC.

5. It has good wear resistance and can process hard metal materials such as stainless steel and cast iron.

#### Instructions for use

1. The tungsten steel material is made of high-quality tungsten steel. Because [tungsten steel](#) is extremely hard and brittle, it is easy to break when impacted by external forces. In particular, the thickness of the tungsten steel slitting blade is thin and it is easier to break when impacted by external forces. Therefore, it is prohibited to knock or throw tungsten steel materials when installing and using various tungsten steel materials.

2. The edges of tungsten steel materials are extremely sharp. Please pay special attention to safety during installation to avoid unnecessary personal injury.

3. A series of tungsten steel products made of tungsten steel are particularly wear-resistant, and their service life is dozens of times that of high-speed steel (white steel), which can greatly improve your work efficiency and reduce your costs.

4. Tungsten steel is particularly difficult to process due to its extremely high hardness. The possible processing methods are as follows:

- A. Electrical discharge machining (discharge machine)
- B. Wire cutting (medium wire cutting, slow wire cutting, fast wire cutting processing)
- C. Welding processing: brazing and silver soldering processing.
- D. Grinding processing: centerless grinding, internal grinding, surface grinding, tool grinding. The grinding wheel used is generally a diamond grinding wheel, which is selected according to the process requirements.
- E. Laser processing: Laser cutting, shaping and drilling can be used, but the cutting thickness is limited by the power of the laser machine.



### Typical product representatives

1. Tungsten steel round rods are commonly used to make drill bits, PCB board micro-drill bits, mold ejector pins, mold tops, electrode rods, gong cutters, shuttles in the textile industry, machine tool journals, machine tool axes, etc.
2. Tungsten steel strips are often used to make woodworking tools, wear-resistant parts, etc.
3. Tungsten steel plates are commonly used to make high-precision and high-wear-resistant molds, progressive molds, anti-theft boards, X-ray radiation protection boards, knives, special-shaped parts, etc.
4. Tungsten steel discs are often used to make round blades, such as: aluminum substrate blades, cutting machine blades, tungsten steel cutting machine blades, tungsten steel V-CUT blades, V-CUT knives, tungsten steel slitting blades, tungsten steel cutting blades Steel corrugated blades, fiber optic cutting blades, etc.
5. High temperature resistant tungsten steel material is commonly used to make ceramic sintering molds, carbide sintering molds, etc.