Tungsten Carbide Tipped Sheet Metal Cutting Tools For Packing Industry

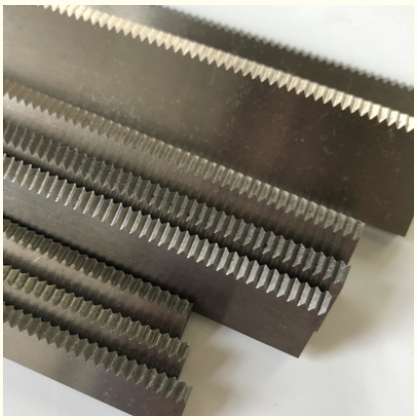
Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Seton
- Certification: CE ISO
- Model Number: Tungsten Carbide-Tipped
- Minimum Order Quantity: MOQ 10 Pieces
- Price: Can be discussed
- Packaging Details: 1pc/wrapper, 100pcs/box, 100boxes/ctn,Wooden and carbon boxes
- Delivery Time: 30 days
- Payment Terms: L/C, D/A, D/P, T/T, Western Union, MoneyGram
- Supply Ability: 500 Piece/Pieces per Day

Product Specification

- Product Name: Sheet Metal Cutting Tools
- Material: Tungsten Carbide-Tipped
- Hardness: HRC42-56
- Precision: ±10 Micron
- Length: 632mm
- Width: 22mm
- Thickness: 10mm
- Applicable Industries: Manufacturing Plant
- Highlight: **Packing Industry Sheet Metal Cutting Tools**, **Tungsten Carbide Sheet Metal Cutting Tools**



Product Description

Tungsten Carbide-Tipped Sheet Metal Cutting Tools For Packing Industry

Description:

Additional Materials for Manufacturing Industrial Blades

In addition to the commonly used materials like high carbon steel, tool steel, stainless steel, and tungsten carbide, several other materials can be utilized for manufacturing industrial blades, each offering unique properties suited for specific applications:

1. Ceramic
Description: Made from advanced ceramic materials, ceramic blades are known for their hardness and wear resistance.
Advantages: They maintain sharp edges longer than metal blades and are resistant to corrosion. However, they can be brittle and prone to chipping.
Applications: Often used in cutting applications where cleanliness and precision are essential, such as in food processing.
2. High Chromium Steel
Description: This steel contains a significant amount of chromium, enhancing its hardness and corrosion resistance.
Advantages: Offers good wear resistance and is often used in environments where blades are exposed to moisture.
Applications: Suitable for food processing and other applications requiring corrosion resistance.
3. Polymer Blades
Description: Blades made from high-performance plastics or polymers.
Advantages: Lightweight, corrosion-resistant, and suitable for cutting soft materials without damaging them.
Applications: Commonly used in packaging and food industries for delicate cutting tasks.
4. Titanium
Description: Titanium blades are made from titanium alloys, known for their strength and light weight.
Advantages: Highly resistant to corrosion and wear, titanium blades can maintain sharpness and are suitable for high-performance applications.
Applications: Used in specialized cutting tools and surgical instruments.
5. Carbon Fiber Reinforced Polymers (CFRP)
Description: Composite materials that combine carbon fiber with polymer resins.
Advantages: Extremely lightweight and strong, with good resistance to wear and corrosion.
Applications: Used in applications where weight savings are critical, such as in aerospace and high-performance machinery.
6. Bimetallic Materials
Description: Combining two different metals to leverage the strengths of both, often with a harder cutting edge and a more ductile body.
Advantages: Offers both durability and flexibility, reducing the risk of chipping while maintaining sharpness.
Applications: Common in saw blades and industrial knives where toughness and wear resistance are needed.

Industrial Blade Specifications:

Product name	Sheet Metal Cutting Tools
Material	Tungsten Carbide-Tipped
Hardness	HRC42-56
Precision	±10 Micron
Length	632mm
Width	22mm
Thickness	10mm
Applicable Industries	Manufacturing Plant

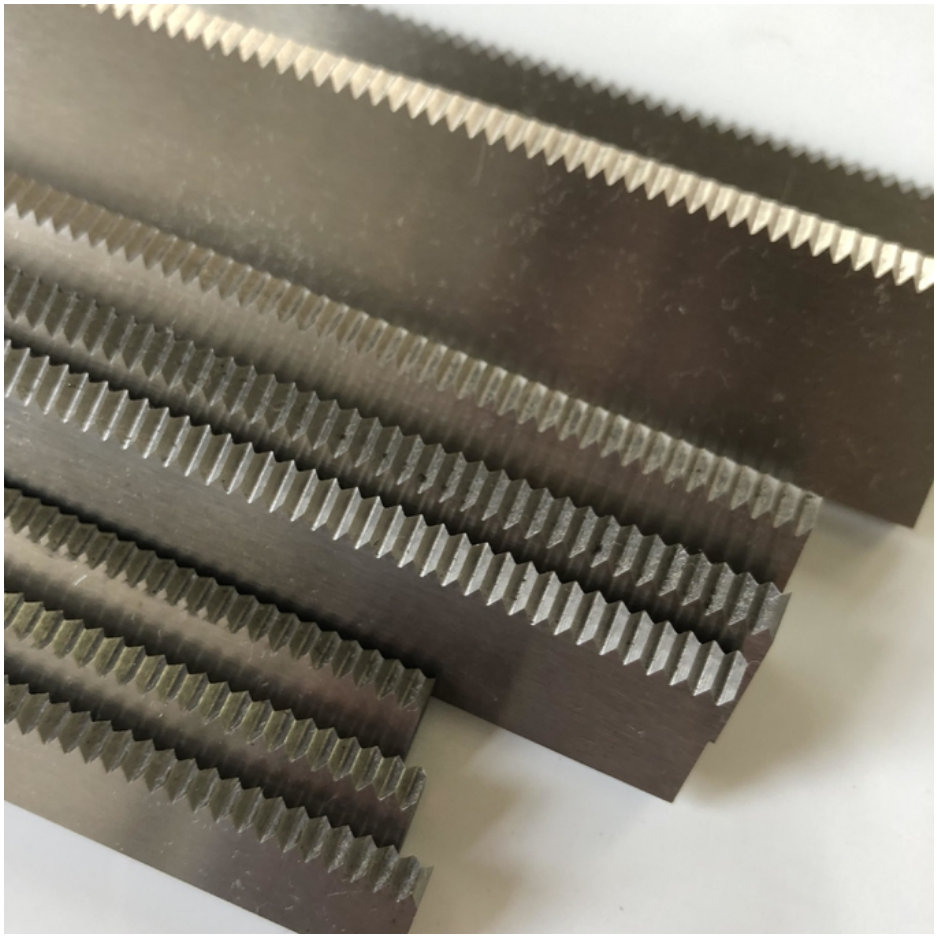
Structural Features of Industrial Blades

The design and structure of industrial blades play a crucial role in their performance, durability, and suitability for specific applications. Here are the key structural features of industrial blades:

1. Blade Geometry
Shape: The overall shape of the blade (e.g., straight, curved, serrated) affects its cutting efficiency and application.
Edge Profile: The profile of the cutting edge (e.g., flat, beveled, or serrated) influences how the blade interacts with the material being cut.
2. Thickness
Blade Thickness: Thicker blades provide more stability and durability, while thinner blades can offer sharper cuts. The thickness is often determined by the intended application and material being processed.
3. Material Composition
Material Selection: The choice of material (e.g., high carbon steel, tool steel, tungsten carbide) impacts hardness, wear resistance, and overall performance. The structural integrity depends on the material's properties.
4. Heat Treatment
Hardening Process: Many industrial blades undergo heat treatment processes like quenching and tempering to enhance hardness and toughness. This treatment affects the blade's ability to maintain sharpness and resist wear.
5. Cutting Edge Design
Angle and Sharpness: The angle of the cutting edge is critical for cutting performance. A sharper angle can facilitate easier cutting, while a more obtuse angle may enhance durability.
Edge Geometry: Variations such as chisel edges, double bevels, or rounded edges can be tailored to specific cutting tasks.
6. Support Structure
Reinforcements: Some blades include reinforcements or backing materials to enhance strength and reduce flexing during use, particularly in heavier applications.
Attachment Mechanisms: The design may include features for securely attaching the blade to machinery, ensuring stability during operation.
7. Surface Finish

Coatings: Blades may have surface treatments or coatings (e.g., titanium nitride, black oxide) to reduce friction, enhance corrosion resistance, and improve overall longevity.
Polishing: A polished surface can reduce friction and improve cutting efficiency.
8. Weight and Balance
Distribution: The weight distribution of the blade affects handling and control during operation. Proper balance is essential for user comfort and precision

Picture:



Applications:

Packing:

Jiangsu Seton Industrial Technology Co,.Ltd

+86 15852715407 alen@setonindustrial.com blade-industrial.com

No.99 Furong Mid Three Road,Xishan Economic Development Zone.Wixi.