

China

Seton

CE ISO

Carbon Tungsten

Can be discussed

MoneyGram

1pc/wrapper, 100pcs/box,

500 Piece/Pieces per Day

100boxes/ctn,Wooden and carbon boxes

Industrial Circular Carbide Slitter Blades For Paper Processing Paper Slitting 10pcs

Basic Information

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity: MOQ 10 Pieces
- Price:
- Packaging Details:
- Delivery Time: 30 days
 Payment Terms: L/C, D/A, D/P, T/T, Western Union,
- Fayment renns.
- Supply Ability:



Product Name:	Blade Industrial Circular For Paper Processing Paper Slitting 10pcs
 Material: 	Carbide
• Hardness:	HRC60-62
 Precision: 	±50 Micron
Cylindrical:	118mm
• Hole:	80mm
 Thickness: 	1mm
 Applicable Industries: 	Manufacturing Plant
Highlight:	circular carbide slitter blades, circular round slitter blades.



More Images





carbide round slitter blades

Product Description

Carbide Material Blade Industrial Circular For Paper Processing Paper Slitting 10pcs

Description:

Carbide-tipped industrial paper cutting circular blades have several distinctive characteristics that make them a preferred choice for many paper and materials processing applications:

1, Exceptional Hardness:

Carbide materials, such as tungsten carbide, exhibit extremely high hardness, typically ranging from 86 to 92 on the Rockwell C scale.

This exceptional hardness allows carbide-tipped paper cutting blades to maintain a sharp cutting edge for an extended period, even when cutting abrasive or dense materials.

2,Wear Resistance:

The inherent wear resistance of carbide materials ensures that carbide-tipped paper cutting blades have a significantly longer lifespan compared to high-speed steel or other tool steel blades.

This translates to reduced downtime and maintenance requirements, as well as lower overall operating costs. 3,Thermal Conductivity:

Carbide materials have better thermal conductivity compared to tool steels, which helps dissipate heat buildup during the cutting process.

This improved heat dissipation can contribute to enhanced cutting performance and reduced risk of blade warping or premature failure.

4, Compressive Strength:

Carbide-based cutting edges possess high compressive strength, enabling them to withstand the high forces and stresses encountered during paper cutting and shredding operations.

This robust construction helps prevent chipping, cracking, or premature dulling of the blade edge.

5, Precision Cutting:

The inherent dimensional stability and sharpness retention of carbide-tipped paper cutting blades allow for more precise and consistent cuts, resulting in improved quality and finish of the processed materials. 6.Versatility:

Carbide-tipped paper cutting blades can be designed with various tooth geometries and edge profiles to optimize performance for different paper types, thicknesses, and cutting applications.

This versatility makes them suitable for a wide range of paper processing tasks, from high-volume cutting to intricate specialty applications.

Industrial Blade Specifications:

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Material	Carbide
Hardness	HRC60-62
Precision	±50 Micron
Cylindrical	118mm
Hole	80mm
Thickness	1mm
Applicable Industries	Manufacturing Plant

The manufacturing process and quality control of tungsten carbide-tipped industrial circular blades involve several critical factors:

1,Carbide Substrate Preparation:

The production of the carbide substrate is a crucial step, as the quality and consistency of the tungsten carbide material directly impact the performance and lifespan of the blades.

This includes careful control of the carbide powder composition, sintering, and hot isostatic pressing (HIP) to ensure the desired microstructure and mechanical properties.

2,Blade Shaping and Grinding:

Precise shaping and grinding of the carbide-tipped circular blades are essential for achieving the desired edge geometry, thickness, and concentricity.

Advanced CNC (Computer Numerical Control) machining and grinding techniques are employed to maintain tight dimensional tolerances and a consistent cutting edge.

3, Brazing/Welding of Carbide Tips:

The attachment of the tungsten carbide tips to the steel blade body is typically done through high-temperature brazing or welding processes.

Careful control of the brazing/welding parameters, such as temperature, time, and pressure, is crucial to ensure a strong, durable, and defect-free bond between the carbide and the steel.

4,Heat Treatment:

Appropriate heat treatment, such as tempering and cryogenic processing, is applied to the blades to optimize their hardness, toughness, and wear resistance.

The heat treatment regime must be precisely controlled to achieve the desired mechanical properties and performance characteristics.

5, Coating and Surface Finishing:

In some cases, the circular blades may undergo additional surface treatments, such as the application of hard, wear-resistant

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coatings or anti-adhesive surface finishes.

These coatings and treatments can further enhance the blade's performance and lifespan in demanding cutting applications. 6, Rigorous Quality Control:

Comprehensive quality control measures are implemented throughout the manufacturing process, including:

Dimensional inspections

Edge profile and surface finish evaluations

Hardness testing

Metallurgical analysis

Functional testing under simulated cutting conditions

These quality control checks help ensure the blades meet or exceed the specified performance requirements.

7, Traceability and Documentation:

Detailed manufacturing records and quality control documentation are maintained to ensure full traceability of the circular blades, from the raw materials to the final product.

This traceability is crucial for addressing any performance-related issues and for continuous improvement of the manufacturing processes.

Picture:





Size:



Applications:



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