



High Carbon Steel Plastic Grinder Blades 600*35*12Mm For Pvc Pet Granulator Knives

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Seton
- Certification: CE ISO
- Model Number: High-Carbon Steel
- 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: Plastic Grinder Blades
- Material: High-Carbon Steel
- Length: 600mm
- Width: 35mm
- Thickness: 12mm
- Hardness: HRC 58-60
- Precision: $\pm 0.02-0.05\text{mm}$
- Application: All Kind Of Plastic
- Highlight: **steel plastic grinder blades, pet granulator knives, carbon steel plastic grinder blades**



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Product Description

High-Carbon Steel Plastic Grinder Blades 600*35*12Mm For Pvc Pet

Description:

The key structural features of granulator blades are:

1, Blade Geometry:

The blade shape is typically rectangular or trapezoidal, with a tapered leading edge to facilitate material feeding and cutting. The blade width and length are designed to match the granulator chamber dimensions and provide optimal material engagement.

The blade thickness is selected based on the required strength and rigidity to withstand the operating loads.

2, Cutting Edge Design:

The cutting edge can be straight, serrated, or have a specific profile depending on the material being granulated.

Serrated edges or specialized profiles can enhance the cutting action and improve the consistency of the granulated product.

The cutting edge is often made thinner than the rest of the blade body to concentrate the stresses and facilitate a sharper cut.

3, Mounting System:

Granulator blades are typically mounted on a rotor or drum assembly that rotates within the granulator chamber.

The blades are secured to the rotor using bolts, clamps, or specialized mounting mechanisms that allow for easy replacement.

The mounting system must provide a secure and rigid connection to prevent blade movement or vibration during operation.

4, Cooling Provisions:

In some cases, the blades may be designed with internal cooling channels or fins to dissipate the heat generated during the high-speed granulation process.

Effective cooling helps maintain the blade's structural integrity and cutting performance, especially when processing abrasive or thermally sensitive materials.

5, Material Selection:

As discussed previously, the blade material is selected based on factors like hardness, wear resistance, impact toughness, and cost-effectiveness.

Common materials used for granulator blades include high-carbon steel, alloy steel, and tungsten carbide, each with its own advantages and trade-offs.

Granulator Blade Specifications:

Product Name:	Plastic Grinder Blades
Material	High-Carbon Steel
Length	600mm
Width	35mm
Thickness	12 mm
Hardness	HRC 58-60
Precision	±0.02-0.04mm
Application	All kind of plastic

When selecting the most suitable material for granulator blades to improve production efficiency, the following key factors need to be considered:

1, Wear Resistance and Hardness:

Choosing materials with high hardness and superior wear resistance, such as alloy steel or tungsten carbide, can extend the blade's service life, reduce the frequency of replacements, and improve production efficiency.

Softer materials like plain carbon steel will result in faster blade wear, requiring more frequent maintenance.

2, Impact Resistance:

During the granulation process, the blades are subjected to impact loads. Using materials with high impact toughness, like alloy steel, can prevent blade breakage and avoid equipment downtime for repairs.

Brittle materials such as pure tungsten carbide may not be able to withstand the impact and are more susceptible to damage.

3, Manufacturing Cost:

Although tungsten carbide offers exceptional performance, its manufacturing process is complex and more expensive.

Alloy steel can provide a good balance of performance and cost, offering a better cost-effectiveness.

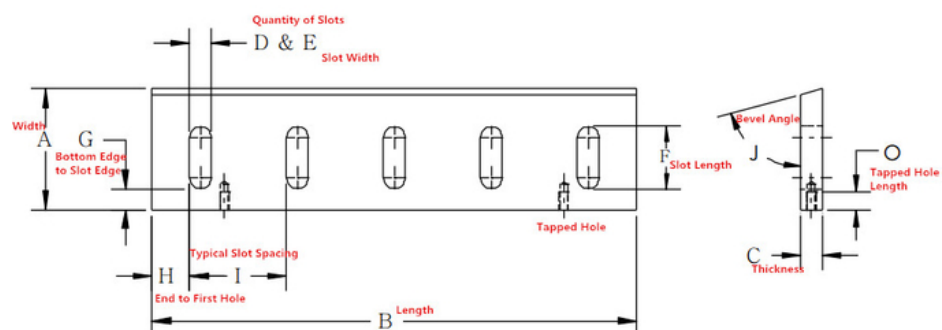
4, Ease of Maintenance:

Selecting blade materials and designs that allow for easy disassembly and replacement can facilitate quick maintenance, minimizing downtime.

Picture:



Size:



Applications:



Packing & Delivery:



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