

## Manufacturing Of Food Pneumatic Slitting Circular Knife Material Heat Treatment

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: Seton
- Certification: CE ISO
- Model Number: Ceramic
- 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: Pneumatic Slitting Circular Knife
- Material: Ceramic
- Precision: 0.05-0.2mm
- Hardness: HRC 32~56
- Outer Diameter: 230mm
- Thickness: 5mm
- Inner Diameter: 110mm
- Applicable Industries: Manufacturing Plant
- Highlight: **Manufacturing Pneumatic Slitting Circular Knife**  
, **Heat Treatment Pneumatic Slitting Circular Knife**  
, **Food Pneumatic Slitting Circular Knife**



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## Product Description

### Manufacturing Of Food Pneumatic Slitting Circular Knife Material Heat Treatment

#### Description:

**Ceramic pneumatic slitting circular knives are used in various application fields, including:**

1. Food Processing  
Applications: Cutting and slicing food products, such as fruits, vegetables, and meats, due to their hygienic properties and sharpness.
2. Textiles  
Applications: Slitting fabric rolls in the textile industry, providing precise cuts and reducing fraying.
3. Packaging  
Applications: Used for cutting packaging materials, such as plastic films and cardboard, ensuring clean edges for better sealing.
4. Paper and Printing  
Applications: Slitting paper and cardboard in printing and packaging processes, offering high durability and precision.
5. Medical Supplies  
Applications: Cutting materials for medical packaging or products, where cleanliness and sharpness are critical.
6. Composite Materials  
Applications: Slitting composite materials used in various industries, including automotive and aerospace, where precision is essential.
7. Leather  
Applications: Used for cutting leather in the fashion and upholstery industries, ensuring clean and accurate cuts.

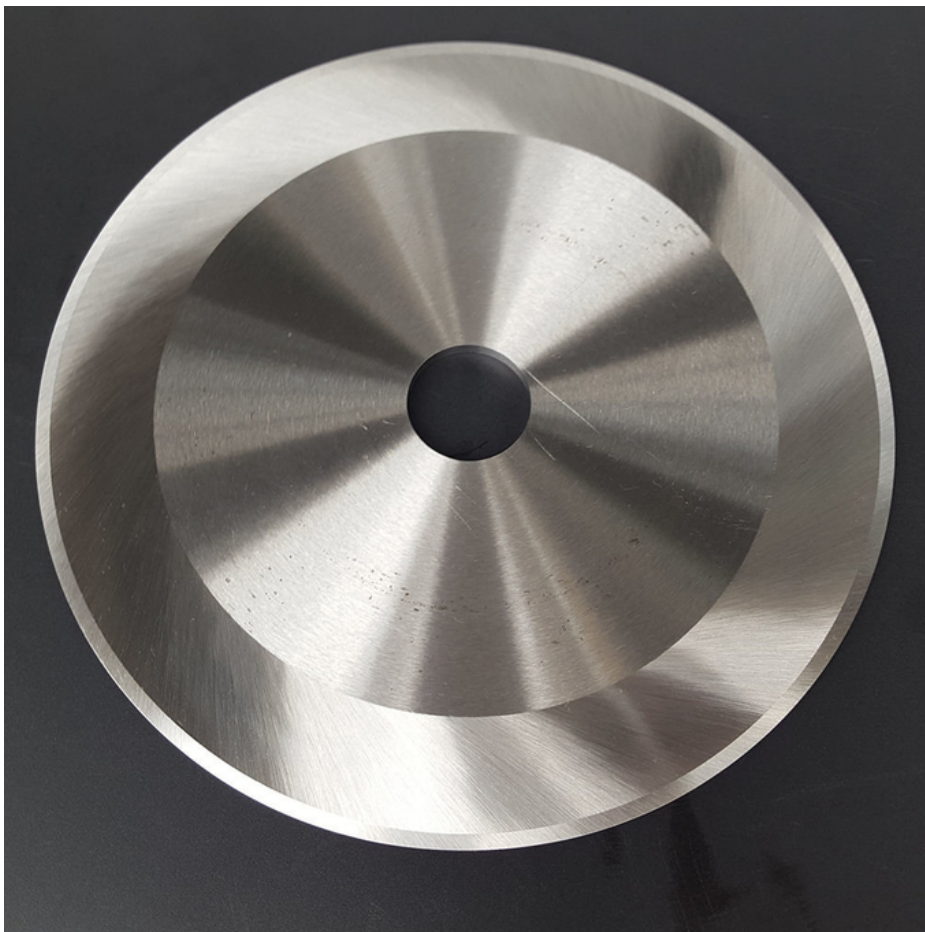
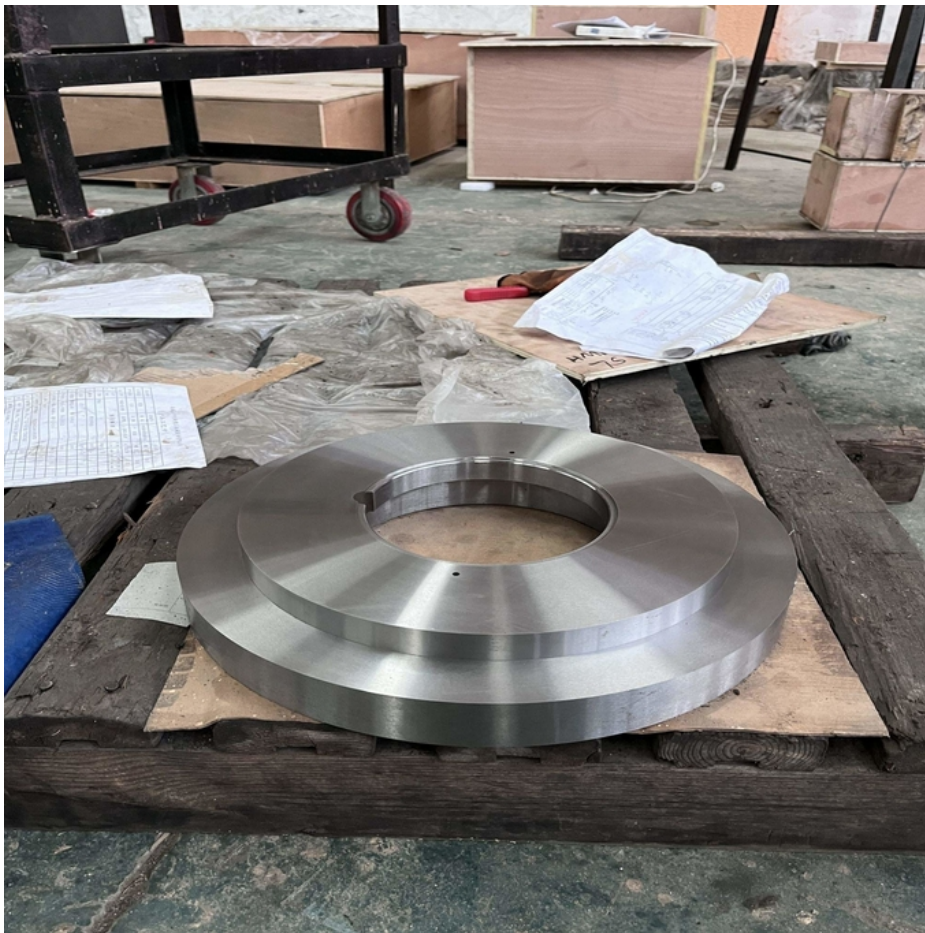
#### Rotary Slitter Blade Specifications:

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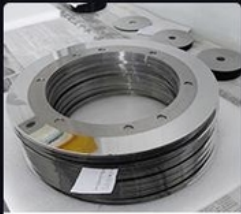
**The manufacturing process of ceramic pneumatic slitting circular knives involves several key steps:**

1. Material Selection  
Choosing Ceramic Material: Select high-quality ceramic materials, often zirconia or alumina, known for their hardness and durability.
2. Powder Preparation  
Mixing: Combine ceramic powders with additives to enhance properties such as flowability and sintering behavior.
3. Forming  
Shaping: Use methods like pressing or injection molding to form the circular knife shape from the prepared powder.
4. Drying  
Removing Moisture: After forming, the blades are dried to remove excess moisture, preventing defects during sintering.
5. Sintering  
High-Temperature Treatment: The dried blades are heated in a kiln at high temperatures to densify the material and achieve the desired hardness.
6. Grinding and Polishing  
Precision Shaping: Grind the blades to achieve the required dimensions and sharpness. Polishing may be done to enhance the surface finish.
7. Coating (if applicable)  
Surface Treatment: Apply any necessary coatings to improve wear resistance or reduce friction.
8. Quality Control  
Inspection: Conduct thorough quality checks, including dimensional measurements and hardness testing, to ensure the blades meet specifications.
9. Packaging  
Final Preparation: Pack the finished knives securely to prevent damage during transportation.

#### Picture:



**Packing & Delivery:**



Finished product



Manual testing



Machine testing



In carton



Packing



Cleaning



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