6542 High-Speed Steel Threaded Sleeve for Twin Screw Extruder with Precision Spline and High Wear Resistance

Our Product Introduction

Basic Information

- Minimum Order Quantity: 10
- Price: 5
- Delivery Time: 10-15work day
- Payment Terms: T/T
- Supply Ability: 200-500set/year



Product Specification

- Material: 6542 High-speed Steel
- Component Type: Threaded Sleeve
- Machine Compatibility: Type 65 Twin-screw Extruder
- Internal Spline: Standardized Spline Teeth
- Surface Finish: Smooth (CNC-machined)
- Wear Resistance: High
- Highlight: **6542 High-Speed Steel Threaded Sleeve**, **Precision Spline Twin Screw Extruder**, **High Wear Resistance Extruder Screw Element**



More Images



Product Description

Product Overview

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The 6542 High-Speed Steel Threaded Sleeve is a dedicated core component for granulation in Type 65 twin-screw extruders. Precision-machined from 6542 high-speed steel, it is engineered for production lines involved in plastic recycling granulation, filler modification, and related processes.

The product delivers high machining precision, excellent wear and high-temperature resistance, and stable mixing and conveying performance. It effectively enhances the plasticization effect, reduces component wear, and decreases the frequency of equipment shutdowns for maintenance — making it the preferred component for extrusion granulation equipment.

Design & Performance

This threaded sleeve is precision CNC-machined, resulting in a smooth surface finish and standardized internal spline tooth geometry. Once assembled, it provides a tight fit, ensuring no slippage or wobble during operation.

Leveraging the superior material properties of 6542 high-speed steel, it maintains stable strength under high-temperature plasticization and high-shear conditions while offering excellent wear and fatigue resistance. It is widely used in the recycling granulation and modification/filling processes for plastics such as PP and PE, providing balanced material conveying and mixing performance.

Compared with components made from ordinary materials, it offers a longer service life, reducing production downtime caused by frequent part replacements and helping granulation production lines operate stably and efficiently.

Key Advantages

- 6542 high-speed steel substrate
- High wear resistance and impact resistance
- Excellent red-hardness and high-temperature resistance
- Precision spline ensures smooth transmission
- Uniform mixing and stable discharge
- Resistant to cracking and chipping, providing a long service life
- Compatible with 65 machine granulation lines

Product Gallery







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