

# Powder Metallurgy Precision Components

These powder metallurgy parts include internal ring gears, spur gears, planetary gears and complex shapes. The components are manufactured using advanced powder metallurgy techniques for dimensional accuracy, strength, and wear resistance.



## ADDITIONAL IMAGES



## Product Overview

### Precision Powder Metallurgy Components

Powder metallurgy parts are essential components widely used across the automotive, toy, tool, household appliance, and machinery sectors. These parts offer significant advantages, including full automatic mass production for cost efficiency, self-lubricating properties, and long mechanical service life. Engineered for both low and high-speed applications, they ensure steady rotation and minimal noise with precise measurements.

## Technical Specifications

### Weight Range

**0.01 g**

Minimum Weight

**500 g**

Maximum Weight

### Surface Treatment Options

- Shot blasting
- Polishing
- Steam treatment
- Dacromet treatment
- Powder Coating
- Painting
- Passivation
- Zinc Plating
- Chrome Plating
- Nickel Plating

### Available Materials

Fe, Cu Alloy Fe, Yankees FN, Fasten (SMF), CuSn10 FLN, Copper Tin, SUS 303, SUS 304

## Quality & Production

### Production Equipment

- Hydraulic press
- Sintering furnace
- Hardening furnace
- Cryogenic box
- Vibration polishing machine
- Shot blasting machine
- Cleaning machine

### Quality Control Protocols

- Chemical analysis
- Iron powder analysis
- Tensile strength testing
- Yield stress testing
- Elongation testing
- Hardness testing
- Impact testing
- Coordinate measuring machine (CMM)
- Oil rate measuring

## Ordering Information

### Order Quantity

Medium series • Large series