



FN08 316L Sintered Metal Parts Processing Straight Bevel Gear Machining

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: MDM
- Certification: ISO9001:2015
- Model Number: PM002
- Minimum Order Quantity: 1000 pcs
- Price: \$0.05~\$0.88/piece
- Packaging Details: PE bag+carton+pallet
- Delivery Time: 20-30 work days
- Payment Terms: T/T, Alipay, Paypal
- Supply Ability: 50000 pcs per month



Product Specification

- Wide Range Of Applications: Yes
- Durability: High
- Precision: High
- Material: Iron, Steel, Stainless Steel, Brass, Copper Etc.
- Dimensional Accuracy: $\pm 0.02\text{mm}$
- Strength: Hardness 30-45HRC
- Corrosion Resistance: Salt Spray Test 72h Min.
- Wear Resistance: High
- Heat Resistance: High
- Cost-Effective: Yes
- Complex Shapes: Yes
- Surface Finish: Smooth
- Density: 7.0g/cm^3
- Customizable: Yes



More Images



Product Description

MDM Metal focuses on providing a cost-effective alternative to forging, stamping, casting, and machining processes. It combines the high volume process of powder metal compaction with superior physical properties achieved through high temperature, controlled atmosphere sintering. Full Density Powder Metallurgy combines the high volume processing of powder metal compaction with the physical properties of cast or wrought materials. Full Density provides the ultimate physical properties for conventionally compacted PM materials. High precision and high density one forming tolerance is small, high precision, density up to 90%, and can improve the precision and strength performance through shaping or repressing.

Product Description

Technology	Powder Metallurgy	Metal injection molding
General Material	Fc0208, Fn0208, SMF5040	17-4Ph, 4605, FN08, 420SS, 304L, 316L
Density	6.7-6.8g/cm ³	7.7-7.8 g/cm ³
Hardness	Fc0208(20-30HRC) Fn0208(35-40HRC)	17-4Ph(35-40HRC) 4605(45-50HRC)
Application	Medical apparatus and instruments, Hardware field, Automobile industry, Home appliances Aerospace industry, Automation field,	

Lock components



Our Main powder metallurgy products

Oil bearing, gear, structural parts, double tooth, eccentric wheel, synchronous belt wheel, washing machine parts, coffee grinder, remote control car gear, small module gear, inner gear ring, all kinds of wave box gear, meat grinder blade gear, bevel gear, Bevel gear, sprocket, toy precision gear, steering gear, textile machinery (high speed rope machine, jacquard machine) transmission gear and special-shaped structure parts, sintered filter, filter, muffler, etc.

Advantages of powder metallurgy process

- 1) No or very little cutting is required;
- 2) High material utilization rate, up to 95%;
- 3) The size consistency of parts is good and stable; Accuracy up to 0.01mm!
- 4) The material composition can be adjusted according to the performance requirements of customer parts;
- 5) The surface of parts can be processed according to customer requirements to improve strength and hardness;
- 6) Due to the use of mold forming, other cutting processing can not produce complex shape or special shaped parts;
- 7) Because it is suitable for mass production, the production efficiency is high and the cost is lower than that of cutting.

FAQ

Q: What materials can you process?

A: Steel 4340, 4140, Stainless steel 304, 316, 420, Aluminum 6061, 7075, Brass, Copper, POM, Titanium etc.

Q: Can you protective my business, will my drawing be safe after you get it?

A: Yes, we can sign the NDA before you send the drawing.

Q: What type of drawings can you read?

A: We can read STEP, IGS, CAD, PDF, Solid works, etc.

Q: Do you provide samples?

A: Yes, for the molding parts we can supply free samples. For CNC parts we need to charge for samples and refund when place the mass production order.

Q: How soon can I get your quotation?

A: Normally 12 hours to 24 hours.

Q: What's the lead time?

A: 7-30 working days, depends on the order quantity.

Q: Can you do surface treatment for the products?

A: Yes. We can do heat treatment for iron and steel parts, hardness is 30-60 HRC according to the requirements. And black oxide, electric plating.

PVD coating for stainless steel with black, silver, blue, rose gold and many colors.

For aluminum parts, we can do anodize for different colors.



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