



Customized Precision Metal Stamping Parts for Aerospace Applications with Tight Tolerances and Performance

Our Product Introduction

for more products please visit us on cnc-metalmachining.com

Basic Information

- Place of Origin: Shenzhen China
- Brand Name: Xianheng
- Certification: ISO9001:2015
- Model Number: PMS-XG-072
- Minimum Order Quantity: 1 pcs
- Price: USD \$0.1-\$1.99
- Packaging Details: Carton, As Customers' packaging requirements
- Delivery Time: Samples 7-10 days, Mass production 20-25 days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 50000 pcs per week



Product Specification

- Material: Copper, Stainless Steel, Aluminum, Brass, Etc.
- Surface Treatment: Hot Galvanized, Zinc Plating, Nickel Plating, Powder Plating, Anodize
- Process: Stamping, Punching, Bending, Punching Of Stamping Blanks, Stamping + CNC
- Application: Construction, Industrial, Used Widely Industry Auto, Mechanical Equipment, Auto Parts
- Service: OEM/ODM, OEM ODM Metal Stamping, Customized OEM OEM ODM, OEM Service
- Tolerance: 0.01mm, 0.05 Mm, +/-0.005, 0.003-0.05mm
- Oem: Available
- Quality: ISO9001
- Keywords: Custom Stamping Metal
- Packing: As Customers' Requirement



More Images



Product Description

What We Can Provide

Customized Precision Metal Stamping Parts for Aerospace Applications with Tight Tolerances and Performance

Description of Customized Precision Metal Stamping Parts for Aerospace Applications with Tight Tolerances and Performance

Customized precision metal stamping parts for aerospace applications are engineered components produced through advanced metal forming processes, ensuring exact dimensional accuracy, tight tolerances, and superior mechanical performance. These parts are designed to meet the stringent demands of aerospace systems, where reliability, durability, and efficiency are critical. The stamping process involves high-speed pressing of metal sheets or coils into complex shapes using precision dies, resulting in lightweight yet robust components with minimal material waste.

Specification of Customized Precision Metal Stamping Parts for Aerospace Applications with Tight Tolerances and Performance

Name	Custom OEM Laser Cutting Sheet Metal Fabrication Services Copper Stainless Steel Anodised Aluminum Metal Stamping bending Parts
Material	Zn-plating, Ni-plating, Cr-plating, Tin-plating, copper-plating, the wreath oxygen resin spraying, the heat disposing, hot-dip galvanizing, black oxide coating, painting, powdering, color zinc-plated, blue black zinc-plated, rust preventive oil, titanium alloy galvanized, silver plating, plastic, electroplating, anodizing etc.
Applications	Automotive, instrument, electrical equipment, household appliances, furniture, mechanical equipment, daily living equipment, electronic sports equipment, light industry products, sanitation machinery, market/ hotel equipment supplies, artware etc.
Packaging	Regular: Paper, Foam, OPP bag, Carton; Other: According to customers' requirements
Testing Equipment	Projecting apparatus, Salt Spray Test, Durometer, and Coating thickness tester
Tolerance	± 0.01 -0.05mm
Drawing	JPG, PDF, CAD, DWG, STP, STEP

Quality Control

1. Checking the raw material after they reach our factory----- Incoming quality control (IQC)
2. Checking the details before the production line operated
3. Have full inspection and routing inspection during mass production---In process quality control(IPQC)
4. Checking the goods after they are finished---- Final quality control(FQC)
5. Checking the goods after they are finished-----Outgoing quality control(OQC)

Application Of Customized Precision Metal Stamping Parts for Aerospace Applications with Tight Tolerances and Performance

1. Auto Components Hardware Parts Auto Parts
2. Communication Equipment
3. Industrial Equipment
4. Medical EquipmentsMechanical Parts
5. Ship Accessories
6. Electrical Equipment
7. Mechanical Equipment

Why Choose Us

Advantages

Unmatched Precision and Tight Tolerances

Aerospace applications demand components with micron-level accuracy to ensure proper fit, function, and safety. Customized metal stamping enables the production of parts with extremely tight tolerances (often ± 0.001 inches or better), reducing assembly errors and enhancing overall system performance.

High Strength-to-Weight Ratio for Optimal Performance

Aerospace components must be lightweight yet strong enough to withstand extreme conditions, such as high vibration, thermal stress, and mechanical loads. Precision stamping allows for the use of high-performance materials (e.g., titanium, aluminum alloys, stainless steel) while maintaining structural integrity, improving fuel efficiency, and extending component lifespan.

Cost-Efficiency in High-Volume Production

Metal stamping is a highly scalable process, making it ideal for mass production of aerospace components. Once dies are set up, parts can be manufactured rapidly with consistent quality, reducing per-unit costs compared to traditional machining or additive manufacturing methods. This efficiency is crucial for large-scale aerospace programs.

Enhanced Reliability and Durability Under Extreme Conditions

Customized stamped parts undergo rigorous testing to ensure they meet aerospace industry standards for fatigue resistance, corrosion resistance, and thermal stability. The precision manufacturing process minimizes defects, ensuring consistent performance in demanding environments, such as jet engines, satellite structures, or aircraft landing gear.



Multiple Machines

5-Axis CNC & Imp Professional machines, skillful workers, machines, skillful with accuracy of guarantee the quality and lead time. Free fast lead time



Strictly Confidential

We will protect the customers' design and the customer can request a confidentiality agreement



Quality Inspection

We have a strict quality inspection process to ensure the quality of our products

Stainless Steel Material

Material:

Stainless Steel 201
Stainless Steel 430
Stainless Steel 304
Stainless Steel 316

Finish:

Mirror Polishing
Brush Polishing
Electro Polishing
Vibration Polishing



FAQ

Q1: Where can I get product & price information?

A1: Send us inquiry e-mail, we will contact you as we receive your mail.

Q2: How long can I get the sample?

A2: Depends on your specific items, within 3-7 days is required generally.

Q3: What kinds of information you need for quote?

A3: Kindly please provide the product drawing in PDF, and will be better you can provide in STEP or IGS.

Q4: What are the payment terms?

A4: We accept 50% as payment deposit, when the goods is done, we take photos for your check and you then pay the balance.

Q5: Are you a trading company or factory?

A5: We are direct factory with 10 experienced engineers and more than 650 employees as well approximate 2,000 square ft. workshop area.

Q6: What shall we do if we do not have drawings?

A6: Please send your sample to our factory, then we can copy or provide you better solutions. Please send us pictures or drafts with dimensions (Length, Height, Width), CAD or 3D file will be made for you if placed order.



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