



Laser Cutting Solutions Customized Stainless Steel Precision Metal Stamping Parts for Enhanced Corrosion Resistance

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-058
- 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

Laser Cutting Solutions Customized Stainless Steel Precision Metal Stamping Parts for Enhanced Corrosion Resistance

Description of Laser Cutting Solutions Customized Stainless Steel Precision Metal Stamping Parts for Enhanced Corrosion Resistance

Laser cutting solutions for customized stainless steel precision metal stamping parts combine advanced fabrication techniques with material science to deliver components optimized for corrosion resistance and dimensional accuracy. These parts are engineered using high-grade stainless steel alloys (e.g., 304L, 316L, or duplex grades) known for their chromium, nickel, and molybdenum content, which form a passive oxide layer to resist oxidation, chemicals, and environmental degradation. Laser cutting, a non-contact thermal process, enables precise contouring, hole drilling, and intricate patterning without mechanical stress or tool wear, ensuring minimal heat-affected zones (HAZ) that could compromise corrosion resistance. Post-processing treatments like passivation, electrochemical polishing, or PVD coatings may be applied to further enhance surface integrity and longevity.

Specification of Laser Cutting Solutions Customized Stainless Steel Precision Metal Stamping Parts for Enhanced Corrosion Resistance

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 Laser Cutting Solutions Customized Stainless Steel Precision Metal Stamping Parts for Enhanced Corrosion Resistance

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

1. Unmatched Corrosion Resistance for Harsh Environments

The combination of stainless steel's inherent corrosion resistance and laser cutting's precision ensures parts withstand aggressive conditions, including exposure to saltwater, chemicals, or high humidity. Laser cutting preserves the material's passive oxide layer by avoiding mechanical deformation or localized heating that could weaken corrosion protection. This makes the parts ideal for marine, oil/gas, medical, and food-grade applications where reliability is critical.

2. High Precision and Design Flexibility for Complex Applications

Laser cutting enables micrometer-level accuracy, allowing intricate geometries, fine features, and tight tolerances (e.g., ±0.02

mm) without the need for costly dies or retooling. This flexibility supports rapid prototyping and low-to-medium volume production, ideal for industries like aerospace, automotive, and electronics, where lightweight, high-strength components with complex designs are required. The process also minimizes material waste, improving cost-efficiency.

3. Streamlined Production and Reduced Operational Costs

Laser cutting eliminates tooling expenses and setup times associated with traditional stamping or punching, accelerating lead times. The non-contact method reduces maintenance costs by avoiding tool wear and downtime. Additionally, the clean, burr-free edges produced by laser cutting reduce post-processing steps (e.g., deburring, grinding), lowering labor and material costs. The high cutting speeds (up to 15 m/min for thin sheets) and compatibility with CAD/CAM systems enhance automation and scalability.



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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