Corrosion-Resistant Stainless Steel Precision Metal Stamping Parts with Laser Cutting for Aesthetic Appeal and Reliability

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen China
- Brand Name: Xianheng
- Certification: ISO9001:2015
- Model Number: PMS-XG-067
- 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

Our Product Introduction

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

Product Description

What We Can Provide

Corrosion-Resistant Stainless Steel Precision Metal Stamping Parts with Laser Cutting for Aesthetic Appeal and Reliability

Description of Corrosion-Resistant Stainless Steel Precision Metal Stamping Parts with Laser Cutting for Aesthetic Appeal and Reliability

Precision metal stamping parts made from corrosion-resistant stainless steel, combined with laser cutting technology, represent a cutting-edge solution for industries demanding both durability and visual excellence. These components leverage stainless steel's inherent resistance to oxidation and chemical degradation, while laser cutting ensures high-precision shaping, minimal material distortion, and superior surface finishes.

Specification of Corrosion-Resistant Stainless Steel Precision Metal Stamping Parts with Laser Cutting for Aesthetic Appeal and Reliability

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 Corrosion-Resistant Stainless Steel Precision Metal Stamping Parts with Laser Cutting for Aesthetic Appeal and Reliability

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

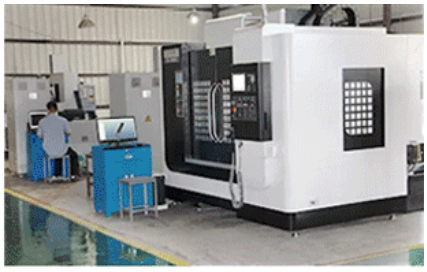
1. Unmatched Corrosion Resistance for Long-Term Reliability
Stainless steel, particularly grades like 304 or 316, contains chromium (≥10.5%), which forms a passive oxide layer on the surface, shielding the metal from environmental contaminants such as moisture, salts, and acids. This makes it ideal for applications in marine, chemical processing, or outdoor environments where traditional metals would degrade rapidly. Laser cutting does not compromise this protective layer when optimized with inert gases like nitrogen, ensuring the final part retains its corrosion-resistant properties even after cutting. For example, in automotive exhaust systems, laser-cut stainless steel components resist rust and maintain structural integrity over decades of use.

2. High Precision and Complex Geometries for Aesthetic Design
Laser cutting achieves tolerances as tight as ±0.05 mm and can produce intricate shapes, such as filigree patterns, micro-perforations, or curved edges, that are impossible with conventional stamping or punching. This precision is critical for

industries like consumer electronics, where sleek, modern designs require seamless integration of metal parts with minimal visible seams or burrs. Additionally, laser cutting eliminates the need for hard tooling, enabling rapid prototyping and cost-effective customization for niche markets. For instance, luxury watchmakers use laser-cut stainless steel cases to achieve razor-sharp edges and polished finishes that enhance brand prestige.

3. Minimal Thermal Distortion and Superior Surface Quality
Unlike thermal cutting methods like plasma or flame cutting, laser cutting uses a focused beam to vaporize material with minimal heat input, reducing the heat-affected zone (HAZ) to less than 0.1 mm. This prevents warping, discoloration, or micro-cracks, ensuring the part maintains its mechanical strength and aesthetic appeal. For precision stamping parts, this is crucial because even slight deformations can disrupt assembly tolerances or compromise sealing performance. In medical devices, such as surgical instruments, laser-cut stainless steel components avoid thermal stress that could weaken the material or introduce contaminants, meeting stringent hygiene standards.

4. Cost Efficiency and Scalability for High-Volume Production
While laser cutting equipment has high upfront costs, its non-contact nature and automation capabilities (e.g., CAD/CAM integration) reduce labor and material waste over time. Unlike stamping dies, which wear out and require replacement, lasers maintain consistent cutting quality across millions of cycles, lowering per-unit costs for large production runs. For example, in the automotive industry, laser-cut stainless steel fuel rails or heat shields can be produced at speeds exceeding 10 m/min, matching or surpassing traditional stamping throughput. Additionally, the ability to switch between designs without tooling changes makes this method ideal for agile manufacturing, where product lifecycles are short and customization is frequent.



Multipe Machines

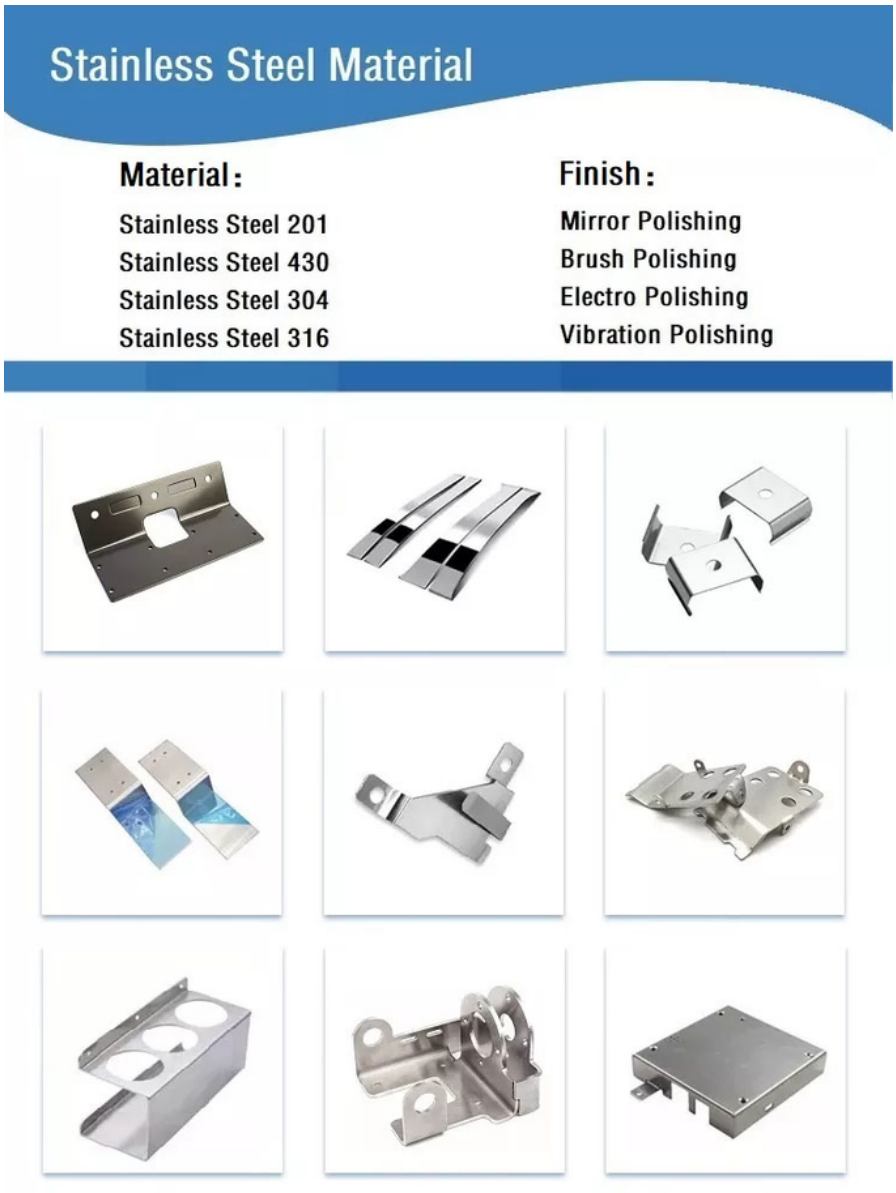
Professional machines, skillful workers,
guarantee the quality and lead time.

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



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, Hight, Width), CAD or 3D file will be made for you if placed order.

Shenzhen Xianheng Technology Co.,Ltd

0086-13682614486 shawn@xianheng-tech.com cnc-metalmachining.com

Room 8-1409, Xingji jiayuan building 8-9#, HongXing community, Songgang street, Bao'an District, Shenzhen City China