



High Quality Precision Metal Stamping Accessories Precision Technology Stamping Bending Parts

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-070
- 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

High Quality Precision Metal Stamping Accessories Precision Technology Stamping Bending Parts

Description of High Quality Precision Metal Stamping Accessories Precision Technology Stamping Bending Parts

Precision metal stamping is a high-speed, cost-effective manufacturing process that transforms flat metal sheets (e.g., stainless steel, aluminum, copper, or titanium) into complex components with tight tolerances ($\pm 0.05\text{mm}$ or better). When combined with advanced bending techniques, it produces durable, dimensionally stable parts for industries like automotive, electronics, aerospace, and medical devices.

Specification of High Quality Precision Metal Stamping Accessories Precision Technology Stamping Bending Parts

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	$\pm 0.01-0.05\text{mm}$
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 High Quality Precision Metal Stamping Accessories Precision Technology Stamping Bending Parts

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. Ultra-High Precision & Tight Tolerances ($\pm 0.02\text{mm}$ to $\pm 0.05\text{mm}$)

Modern precision stamping uses servo-electric presses and computer-aided design (CAD)/computer-aided manufacturing (CAM) systems to control every stage of production. This ensures:

Consistent part geometry even in complex shapes (e.g., multi-stage bends, deep draws, or fine embossing).

Minimal variation between batches, critical for assemblies requiring perfect fits (e.g., automotive connectors, medical device housings).

Example: A 0.3mm-thick stainless steel shield for a smartphone camera module must fit precisely to block electromagnetic interference (EMI). Precision stamping achieves this with $\pm 0.03\text{mm}$ tolerance, whereas manual bending risks misalignment.

2. High-Speed Production with Cost Efficiency (Mass Manufacturing)

Precision stamping operates at speeds of 500–3,000 strokes per minute, making it ideal for large-scale production (e.g., millions of parts annually). Key cost benefits include:

Low per-unit cost: Once dies are set up, stamping is cheaper than CNC machining or 3D printing for high volumes.

Reduced material waste: Nesting optimization software ensures maximum sheet utilization (up to 95% efficiency).

Example: An automotive ECU housing requires 500,000 units/year. Precision stamping produces each part in 0.2 seconds at a

3. Enhanced Material Strength & Durability (Work Hardening Effect)

Stamping and bending induce controlled plastic deformation, which can increase material hardness (work hardening) by 10–30% without compromising ductility. This is beneficial for:

Load-bearing components (e.g., automotive chassis brackets, battery enclosures).

Corrosion-resistant parts (e.g., 316L stainless steel medical clips) that must withstand repeated stress.

Example: A 2mm-thick aluminum heat sink for an LED lighting system undergoes precision bending to create fins with 90° angles. The stamped edges are 20% harder than the base material, improving heat dissipation and resistance to deformation under thermal cycling.

4. Design Flexibility for Complex Geometries (Multi-Stage Processing)

Advanced stamping dies can integrate multiple operations (punching, bending, coining, threading) in a single cycle, enabling:
Micro-features: Tiny holes (<0.5mm diameter), embossed logos, or internal threads.

3D shapes: Deep-drawn cups, L-shaped brackets, or conical components without secondary welding.

Example: A titanium aerospace bracket requires five bends at precise angles ($\pm 0.5^\circ$) and a 0.8mm-diameter threaded hole.

Precision stamping achieves this in one press cycle, whereas traditional methods would need separate bending, drilling, and tapping steps.



Multiplexing

**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

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.



Shenzhen Xianheng Technology Co.,Ltd

0086-13682614486

shawn@xianheng-tech.com

cnc-metalmachining.com

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

