



## Customized Solutions for Medical Equipment High-Tolerance Precision Sheet Metal Shell Fabrication with Biocompatible Materials

Our Product Introduction

for more products please visit us on [cnc-metalmachining.com](http://cnc-metalmachining.com)

### Basic Information

- Place of Origin: China
- Brand Name: Xiangge
- Certification: ISO 9001:2015 SGS RoHS
- Model Number: MF-XG-35
- Minimum Order Quantity: 1 pcs
- Price: USD 1\$-2\$
- Packaging Details: Carton Wooden case
- Delivery Time: 5-8 days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 10 SET per week



### Product Specification

- Material Capabilities: Stainless Steel, Aluminium, Copper, Brass
- Products: Metal Equipment Shell
- Process: Metal Sheets Fabrication, Welding Cutting Punching Stamping
- Application: Electronic Equipment Sheet Metal Shell, Custom Control Box Cabinet Chassis Shell
- OEM/ODM: Acceptable
- Equipment: Precision Nonstandard Parts
- Surface Treatment: Powder Coated, Hot Galvanized, Painting, Polishing, Spray Coating, Brushing, Cathaphoresis, Sandblasting, Electroplate Chrome/Zinc/Nickel Plating/Anodize/Electronic Polish, Silk-screen Etc;
- Package: Plastic Bag, Blister Box, Tap Reel Or As Your Required
- Used: Computer, Telecom, mechanical, electronics, appliance, military, aerospace.



### More Images



## Product Description

### What We Can Provide

Customized Solutions for Medical Equipment High-Tolerance Precision Sheet Metal Shell Fabrication with Biocompatible Materials

#### Description of Customized Solutions for Medical Equipment High-Tolerance Precision Sheet Metal Shell Fabrication with Biocompatible Materials

Customized solutions for high-tolerance precision sheet metal shell fabrication using biocompatible materials have emerged as a critical approach to meet the stringent requirements of medical applications. These solutions involve the meticulous design, engineering, and manufacturing of sheet metal shells that not only fit precisely within medical devices but also ensure compatibility with the human body.

#### Specification of Customized Solutions for Medical Equipment High-Tolerance Precision Sheet Metal Shell Fabrication with Biocompatible Materials

Product	Custom Sheet Metal Fabrication Laser Cutting Bending Sheet Metal Stamping Parts
Material	Stainless Steel, Carbon Steel(Q235), Aluminum(6061,6063, 5052), Copper, Brass etc.
Process	Bending, Stamping, Welding
Finish	Zinc Plating, Mirror Polished, Brush Polished, Paint, Anodic Oxidation, Powder Coated
Package	Plywood Box + Plywood Pallet, Plywood Box
OEM Service	Accept

#### 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 Solutions for Medical Equipment High-Tolerance Precision Sheet Metal Shell Fabrication with Biocompatible Materials

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

#### Key Solutions

**High-Tolerance Precision Manufacturing:** Utilizing advanced CNC (Computer Numerical Control) machining and laser cutting technologies, these solutions achieve extremely tight tolerances, ensuring that the sheet metal shells fit seamlessly within medical equipment. This precision is crucial for the proper functioning of devices, especially those involving delicate components or precise movements.

**Biocompatible Material Selection:** The choice of materials is carefully considered to ensure biocompatibility, meaning the materials do not cause adverse reactions when in contact with the human body. Common biocompatible materials used in sheet metal fabrication include titanium alloys, stainless steel (e.g., 316L), and certain medical-grade plastics that can be reinforced with metal for added strength.

**Customized Design and Engineering:** Each medical device has unique requirements, necessitating a customized approach to design and engineering. This involves collaborating closely with medical equipment manufacturers to understand their specific needs, developing detailed 3D models, and conducting rigorous prototyping and testing to ensure optimal performance.

**Surface Treatment and Finishing:** To enhance the durability, corrosion resistance, and aesthetic appeal of the sheet metal shells, various surface treatments and finishing processes are employed. These may include anodizing, passivation, electroplating, or powder coating, depending on the material and the intended use of the device.



## Multiple Machines

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