



Custom Sheet Metal Shell Fabrication High-Tolerance Components for Medical Equipment Mounting Solutions

Our Product Introduction

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

Basic Information

- Place of Origin: China
- Brand Name: Xiange
- Certification: ISO 9001:2015 SGS RoHS
- Model Number: MF-XG-28
- 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, Cathoporesis, 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



What We Can Provide

Custom Sheet Metal Shell Fabrication High-Tolerance Components for Medical Equipment Mounting Solutions

Description of Custom Sheet Metal Shell Fabrication High-Tolerance Components for Medical Equipment Mounting Solutions

Custom sheet metal shell fabrication involves designing and manufacturing precision-engineered enclosures, brackets, and structural components for medical equipment using advanced metalworking techniques. These solutions are tailored to meet strict dimensional tolerances, ensuring compatibility with sensitive medical devices while maintaining durability, sterility, and regulatory compliance. High-tolerance fabrication ensures exact fitment, minimizing assembly errors and enhancing equipment reliability in critical healthcare environments.

Specification of Custom Sheet Metal Shell Fabrication High-Tolerance Components for Medical Equipment Mounting Solutions

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 Custom Sheet Metal Shell Fabrication High-Tolerance Components for Medical Equipment Mounting Solutions

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

Our promise

1. Precision & High Tolerance Compliance

Custom fabrication allows for tight dimensional tolerances ($\pm 0.005"$ or better), ensuring components align perfectly with medical devices, reducing installation errors, and enhancing operational stability. Critical for imaging systems, surgical robots, and diagnostic equipment where even slight misalignments can affect performance.

2. Durability & Corrosion Resistance

Medical-grade materials like stainless steel (304/316) or anodized aluminum resist corrosion, chemicals, and frequent sterilization, ensuring long-term reliability in sterile environments. Robust construction protects sensitive internal components from physical damage and electromagnetic interference (EMI).

3. Customization for Space Optimization & Ergonomics

Tailored designs accommodate unique equipment shapes, mounting requirements, and workspace constraints in hospitals or clinics. Lightweight yet sturdy enclosures improve portability for mobile medical devices while maintaining structural integrity.

4. Cost-Effective Scalability & Rapid Prototyping

Sheet metal fabrication supports efficient production of low-to-high volumes with minimal tooling costs compared to injection molding or CNC machining. Rapid prototyping allows for quick iterations and testing, accelerating time-to-market for new medical technologies while adhering to FDA/ISO standards.



Multiple Machines

5-Axis CNC Machine, Professional machines, skillful workers, process skillful, guarantee the quality and lead time. 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, Hight, Width), CAD or 3D file will be made for you if placed order.



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