

# High Precision Laser Cutting Welding for Custom Sheet Metal Shell Fabrication in Electronics Aerospace Medical Devices

# **Basic Information**

Place of Origin:

XH TECH

- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity: 1 pcs
- Price:
- Packaging Details:
- Delivery Time:
- Payment Terms: T/T, Western Union, MoneyGram

China

Xiange

MF-XG-26

USD 1\$-2\$

5-8 days

Carton Wooden case

10 SET per week

ISO 9001:2015 SGS RoHS

Supply Ability:



# **Product Specification**

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



# More Images



# What We Can Provide

High Precision Laser Cutting Welding for Custom Sheet Metal Shell Fabrication in Electronics Aerospace Medical Devices

### Description of High Precision Laser Cutting Welding for Custom Sheet Metal Shell Fabrication in Electronics Aerospace Medical Devices

High-precision laser cutting and welding technologies have revolutionized the fabrication of custom sheet metal shells in industries such as electronics, aerospace, and medical devices. These advanced processes leverage the concentrated energy of high-power laser beams to achieve exceptional accuracy, minimal thermal distortion, and superior surface finishes, making them indispensable for manufacturing complex, high-tolerance components.

# Specification of High Precision Laser Cutting Welding for Custom Sheet Metal Shell Fabrication in Electronics Aerospace Medical Devices

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 High Precision Laser Cutting Welding for Custom Sheet Metal Shell Fabrication in Electronics Aerospace Medical Devices

- 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

## **Unmatched Accuracy & Quality**

Laser cutting achieves tolerances as tight as ±0.02 mm, ensuring precise fits for complex geometries. Welding produces narrow, uniform joints with minimal porosity, enhancing structural integrity. Smooth, burr-free edges eliminate the need for secondary finishing, reducing production time and costs.

#### Versatility in Material & Thickness

Capable of processing a wide range of metals, including stainless steel, aluminum, copper, titanium, and nickel-based alloys. Handles sheet thicknesses from ultra-thin (0.02 mm) to heavy-gauge (up to 10 mm+), making it suitable for diverse applications.

## Non-Contact, Low-Stress Processing

Laser cutting is a non-contact method, minimizing mechanical stress and thermal deformation—critical for fragile or heatsensitive materials.

Reduced HAZ preserves material properties, ensuring consistency in performance.

#### **High Efficiency & Automation**

CNC-controlled systems enable rapid prototyping and mass production with minimal setup time. High cutting speeds (up to several meters per minute) and seamless integration with robotic welding improve throughput. Automated processes reduce human error, enhancing repeatability and safety.





# **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

# **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.

	Схн-тесн	Shenzhen Xianheng Technology Co.,Ltd
C	0086-13682614486	shawn@xianheng-tech.com
Room 8-1	409, Xingji jiayuan build	ing 8-9#, HongXing community, Songgang street, Bao'an District, Shenzhen City China