



Custom OEM Laser Cutting Sheet Metal Fabrication Services for High Precision Metal Stamping Parts in Aerospace Applications

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-075
- 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

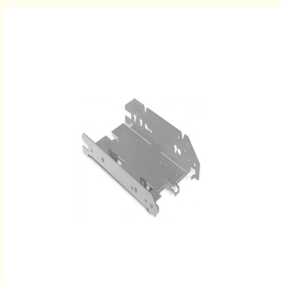


Product Specification

- 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

Custom OEM Laser Cutting Sheet Metal Fabrication Services for High Precision Metal Stamping Parts in Aerospace Applications

Description of Custom OEM Laser Cutting Sheet Metal Fabrication Services for High Precision Metal Stamping Parts in Aerospace Applications

Aerospace applications demand ultra-high precision, reliability, and material integrity in metal stamping parts. Custom OEM laser cutting sheet metal fabrication services leverage advanced fiber laser technology to meet these stringent requirements, offering tailored solutions for components used in aircraft engines, structural frames, satellite systems, and defense equipment.

Specification of Custom OEM Laser Cutting Sheet Metal Fabrication Services for High Precision Metal Stamping Parts in Aerospace Applications

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 Custom OEM Laser Cutting Sheet Metal Fabrication Services for High Precision Metal Stamping Parts in Aerospace Applications

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

Unmatched Precision for Critical Components

Laser cutting eliminates mechanical stress and thermal distortion, ensuring edge quality $Ra \leq 12.5\mu m$ on stainless steel and titanium.

Example: A Ti-6Al-4V aircraft engine bracket required $\pm 0.03mm$ hole accuracy for assembly with hydraulic lines. Laser cutting achieved this vs. $\pm 0.2mm$ with traditional punching.

Material Efficiency and Cost Savings

Nested cutting layouts reduce waste by up to 90% compared to stamping.

Example: A satellite communication panel project saved \$12,000/year in material costs by optimizing nesting for 2mm aluminum sheets.

Rapid Turnaround for Agile Development

Digital workflows (CAD/CAM integration) enable same-day prototyping and 48-hour lead times for production orders.

Example: A UAV manufacturer reduced R&D cycles by 60% by iterating designs via laser-cut aluminum frames instead of hard tooling.

Compliance with Stringent Aerospace Standards

In-line monitoring systems detect 0.01mm deviations in real time, ensuring parts meet FAA/EASA requirements.

Example: Inconel 718 turbine shrouds passed high-cycle fatigue tests at 1,200°C due to laser-cut's minimal heat-affected zone (HAZ < 0.1mm).



Multiple Machines

5-Axis CNC @ 1mm/minute Professional machines, skillful workers, 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

