



Highly Custom OEM Laser Cutting Sheet Metal Fabrication Services for Precision Metal Stamping Parts in Structural Frames

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

Highly Custom OEM Laser Cutting Sheet Metal Fabrication Services for Precision Metal Stamping Parts in Structural Frames

Description of Highly Custom OEM Laser Cutting Sheet Metal Fabrication Services for Precision Metal Stamping Parts in Structural Frames

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 Highly Custom OEM Laser Cutting Sheet Metal Fabrication Services for Precision Metal Stamping Parts in Structural Frames

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 Highly Custom OEM Laser Cutting Sheet Metal Fabrication Services for Precision Metal Stamping Parts in Structural Frames

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 Structural Integrity

Laser cutting eliminates mechanical tooling wear, ensuring consistent edge quality ($Ra \leq 6.3\mu m$) on stainless steel and aluminum frames.

Example: A 316L stainless steel bridge truss connector required $\pm 0.02mm$ hole alignment for bolted assembly. Laser stamping achieved this vs. $\pm 0.1mm$ with traditional punching, preventing structural misalignment.

Material Efficiency & Cost Optimization

Nested cutting layouts reduce waste by up to 85% compared to blanking dies, lowering material costs for large-scale projects.

Example: A 10,000-piece aluminum scaffolding frame order saved \$18,000 in material expenses by optimizing nesting for 3mm sheets.

Rapid Prototyping & Agile Production

Digital workflows enable 24-hour prototyping and 5-day lead times for production orders, accelerating time-to-market.

Example: A construction equipment manufacturer reduced R&D cycles by 70% by iterating designs via laser-cut steel brackets instead of hard tooling.

Scalability & Compliance with Industry Standards

Adheres to ASTM, ISO, and ASME standards, with in-line monitoring systems detecting 0.005mm deviations in real time.

Example: Titanium alloy aircraft fuselage frames passed FAA fatigue tests at 1.5x load due to laser-cut's minimal heat-affected zone (HAZ < 0.05mm), ensuring long-term durability.



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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