



Customized CNC Milling Parts for High-Precision Automotive and Electronics Manufacturing Needs

Our Product Introduction

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

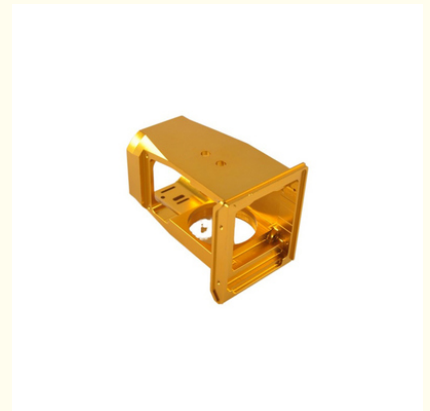
Basic Information

- Place of Origin: Shenzhen China
- Brand Name: Xianheng
- Certification: ISO9001:2015
- Model Number: ML-CNC-080
- 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: 10000 pcs per week



Product Specification

- Cnc Machining Or Not: CNC Machining
- Type: CNC Milling
- Material Capabilities: Copper, Aluminum, Bronze, Stainless Steel, Brass
- Surface Treatment: Anodized, Anodizing, Anodize/natural, Sandblast, Silk-screen
- 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
- Application: Machinery, Automotive, Laptop, Industrial Equipment, Engineering
- Color: As Per Customers' Requirement



More Images



Product Description

What We Can Provide

Customized CNC Milling Parts for High-Precision Automotive and Electronics Manufacturing Needs

Description of Customized CNC Milling Parts for High-Precision Automotive and Electronics Manufacturing Needs

Customized CNC (Computer Numerical Control) milling parts are precision-engineered components tailored to meet the exacting demands of automotive and electronics manufacturing. These parts are produced through a subtractive manufacturing process where material is removed from a solid block using computer-controlled milling machines. The customization capability allows for the creation of parts with unique geometries, tolerances, and surface finishes, ensuring optimal performance in complex assemblies.

Specification of Customized CNC Milling Parts for High-Precision Automotive and Electronics Manufacturing Needs

Product Name	High Quality Copper Steel Stainless Brass Material CNC Milling Parts Services
Material	Aluminum, Stainless Steel, Copper, Brass, Titanium, Galvanized, Nylon, ABS, POM etc.
Surface Treatment	Zinc Plating, Painting, Mirror Polished, Brush Polished, Powder Coating, Electroplating, Anodizing, Sandblasting etc.
Processing	Laser Cutting, Precision Stamping, Bending, CNC Punching, Threading, Riveting, Drilling, Welding, Painting, Assembly etc.
Drawing Format	3D/CAD/DWG/IGS/STEP/PDF/JPG
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 CNC Milling Parts for High-Precision Automotive and Electronics Manufacturing Needs

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 and Accuracy

CNC milling machines operate under digital control, ensuring consistent production with tolerances as tight as a few micrometers. This level of precision is critical in automotive and electronics manufacturing, where even minor deviations can impact performance, assembly compatibility, or reliability. For example, in automotive engine components, precise milling of cylinder heads or transmission gears ensures optimal power output and durability. In electronics, customized CNC parts for semiconductor equipment or circuit board fixtures demand exact dimensions to maintain signal integrity and thermal management.

Material Versatility and Performance Optimization

CNC milling supports a wide range of materials, including metals (aluminum, stainless steel, titanium) and plastics (ABS, polycarbonate, PEEK). This versatility allows designers to select materials based on specific requirements such as thermal conductivity, electrical insulation, or structural strength. In automotive applications, lightweight aluminum parts reduce vehicle weight for better fuel efficiency, while high-strength steel components enhance safety. In electronics, heat-dissipating metal parts or insulating plastic housings are critical for device reliability.

Rapid Prototyping and Flexibility for Evolving Designs

Customized CNC milling eliminates the need for expensive molds or tooling, enabling rapid prototyping and iterative design adjustments. This agility is invaluable in automotive and electronics industries, where product lifecycles are short, and design changes are frequent. For instance, automotive manufacturers can quickly test new engine designs or aerodynamic components, while electronics firms can prototype enclosures for the latest smartphones or wearables. Short production runs and on-demand manufacturing further reduce costs and lead times.

Cost-Effectiveness for Low-to-Medium Volume Production

Traditional manufacturing methods like injection molding or die-casting require significant upfront investment in tooling, making them uneconomical for small batches. Customized CNC milling, however, offers a cost-effective solution for low-to-medium volume production. This is particularly advantageous for startups, niche markets, or specialized components. In automotive, CNC milling is ideal for producing limited-edition parts or aftermarket upgrades. In electronics, it supports the development of custom PCB fixtures or enclosure components without the financial burden of large-scale tooling.

Factory Show

Factory Equipment



WEDM



Milling Machine



CNC Wire Cut



Coordinate measuring machine



CNC Bending Machine



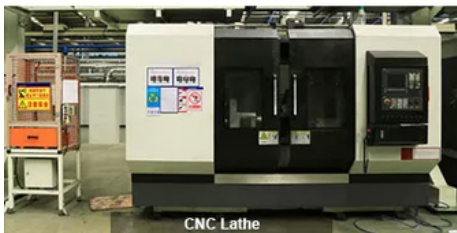
Hydraulic Press Machine



SLS/SLA Machine



5-Axis CNC



CNC Lathe



Laser cutting Machine



CNC Punching Machine



Injection Molding machine



FAQ

Q: How can I customize my products ?

A: Please describe your project. Include the following information so that we can provide an accurate quote: Part Name, 3D CAD Drawing, Quantity, Material, Color, Finishing.

Q: How can I know my products going on ?

A: We will offer a detailed production schedule and send weekly reports with digital pictures and videos which show the production process.

Q: Can You sign a confidentiality greement ?

A: We can sign a confidentiality agreement according to your needs.

Q: What is your terms of payment ?

A: 30% in advance ,70% balance before shipment. Other terms negotiable.

Q: Are you a trading company or factory?

A: We are direct factory with 20 experienced engineers and more than 80 employees as well approximate 3,000 square meters workshop area.

Q: What shall we do if we do not have drawings?

A: 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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