



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

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-079
- 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 Solutions

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

Custom CNC (Computer Numerical Control) milling parts represent a pinnacle in precision manufacturing, particularly for industries demanding exacting standards such as automotive and electronics. These parts are fabricated using advanced CNC milling machines that automate the cutting and shaping of materials with outstanding accuracy, based on pre-programmed instructions derived from 3D CAD models. This process ensures that each part adheres strictly to design specifications, tolerances, and performance requirements.

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

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 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

Advantages

Unparalleled Precision and Accuracy

CNC milling machines are equipped with advanced servo motors, rigid machine structures, and precise cutting tools that minimize vibrations and inconsistencies. Automated tool calibration and real-time feedback systems further enhance accuracy by detecting and correcting deviations during machining. This level of precision is critical in automotive manufacturing, where even minor variations (e.g., tolerances as small as 4 μ m for piston rings) can affect vehicle performance, safety, and reliability. In electronics, precise dimensions and intricate features are essential for electrical connectivity and component integration.

Consistency and Repeatability

Unlike manual machining, which is prone to human error and fatigue, CNC milling relies on computer instructions to perform operations consistently. This ensures that every part produced is identical, whether manufacturing a thousand engine blocks or a few custom components. Such repeatability is vital for maintaining high standards in automotive production, where consistency directly impacts assembly efficiency and product quality. In electronics, it guarantees uniformity in components like connectors and sensor housings, which are critical for device functionality.

Complex Geometry and Customization Capabilities

CNC milling excels at producing complex geometries that would be difficult or impossible to achieve with manual methods. It can create intricate pockets, undercuts, and multi-axis contours with ease, enabling the fabrication of bespoke components tailored to specific project needs. This flexibility is particularly advantageous in automotive and electronics manufacturing, where custom parts often require unique designs to meet performance or space constraints. For example, custom CNC milling can produce lightweight aluminum and titanium parts for aircraft structures or heat sinks and housings for electronic devices.

Enhanced Efficiency and Productivity

CNC milling automates complex tasks, significantly speeding up the manufacturing process compared to manual methods. This efficiency reduces production time and costs, making it feasible to produce high-quality parts at scale. In automotive manufacturing, where large volumes of precision parts are needed, CNC milling ensures timely delivery without compromising quality. For electronics, it accelerates product development cycles by enabling rapid prototyping and testing. Additionally, CNC milling minimizes material waste, further lowering production costs and environmental impact.

Factory Show

Factory Equipment



WEDM



Milling Machine



CNC Wire Cut



Coordinate measuring machine



CNC Bending Machine



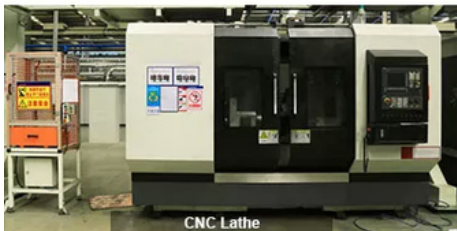
Hydraulic Press Machine



SLS/SLA Machine



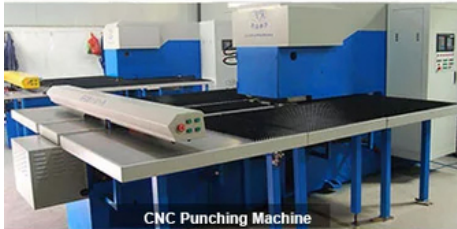
5-Axis CNC



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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