



High-Precision CNC Milling Parts for Critical Applications in Automotive and Electronics Manufacturing Services

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-076
- 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

High-Precision CNC Milling Parts for Critical Applications in Automotive and Electronics Manufacturing Services

Description of High-Precision CNC Milling Parts for Critical Applications in Automotive and Electronics Manufacturing Services

High-precision CNC milling parts are essential in automotive and electronics manufacturing, where they play a pivotal role in ensuring product reliability, safety, and performance. These parts are fabricated using computer-controlled milling machines that systematically remove material from a solid block (workpiece) to achieve the desired shape with superior precision and repeatability.

Specification of High-Precision CNC Milling Parts for Critical Applications in Automotive and Electronics Manufacturing Services

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 High-Precision CNC Milling Parts for Critical Applications in Automotive and Electronics Manufacturing Services

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

1. Unparalleled Precision and Tight Tolerances

CNC milling machines offer exceptional accuracy, enabling the production of parts with tolerances as tight as ± 0.005 inches (0.13 mm). This precision is crucial in automotive and electronics manufacturing, where even minor deviations can lead to malfunctions or safety hazards. For example, in automotive engines, components like intake valves and exhaust pipes must maintain stability under high temperatures and pressures. CNC milling ensures these parts are manufactured to exact specifications, enhancing engine performance and reliability. Similarly, in electronics, precision-milled heat sinks and connectors ensure optimal thermal management and electrical connectivity, which are vital for device functionality.

2. Consistency and Repeatability

CNC milling guarantees that each part produced is identical to the last, regardless of production volume. This consistency is critical in automotive manufacturing, where thousands of identical components must be produced daily. For instance, CNC milling ensures that every engine block or transmission component meets the same high standards, eliminating variability and reducing the risk of defects. In electronics, this repeatability is equally important, as it ensures that circuit boards and connectors fit perfectly, preventing issues like short circuits or poor signal transmission.

3. Versatility and Material Compatibility

CNC milling is compatible with a wide range of materials, including metals (such as aluminum, stainless steel, and titanium alloys), plastics, and composites. This versatility allows manufacturers to select the most suitable material for each application based on factors like strength, weight, and corrosion resistance. In automotive manufacturing, titanium alloys are increasingly used for their lightweight and high-strength properties, enhancing vehicle performance and fuel efficiency. CNC milling enables

precise fabrication of these complex materials, making it ideal for manufacturing critical engine components and suspension systems. In electronics, CNC milling is used to process housing materials, achieving complex shapes like arcs and concavities in a single operation, which improves efficiency and design flexibility.

4. Increased Productivity and Cost Efficiency

CNC milling machines are highly automated, reducing the need for manual labor and increasing production rates. This automation not only speeds up the manufacturing process but also minimizes human error, ensuring consistent and accurate results. In automotive manufacturing, where large volumes of parts are required, CNC milling significantly reduces production time and costs. For example, CNC milling can produce complex engine parts or custom modifications much faster than traditional manufacturing methods, allowing automakers to bring new models to market more quickly. In electronics, CNC milling enables rapid prototyping and iterative design, reducing development costs and accelerating time-to-market for new products.

Factory Show

Factory Equipment



WEDM



Milling Machine



CNC Wire Cut



Coordinate measuring machine



CNC Bending Machine



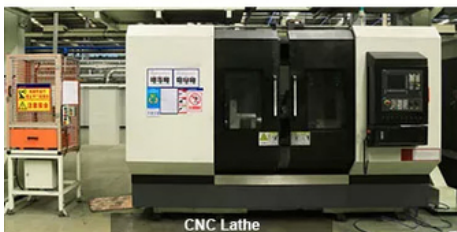
Hydraulic Press Machine



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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