



Custom CNC Milling Parts Precision Manufacturing Aerospace Automotive Medical Electronics Industries

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-066
- 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

Custom CNC Milling Parts for Precision Manufacturing in Aerospace Automotive Medical and Electronics Industries

Description of Custom CNC Milling Parts for Precision Manufacturing in Aerospace Automotive Medical and Electronics Industries

Custom CNC (Computer Numerical Control) milling is a cornerstone of precision manufacturing, enabling the production of complex, high-tolerance components for aerospace, automotive, medical, and electronics industries. By leveraging multi-axis machining (3-axis, 4-axis, and 5-axis) and advanced CAD/CAM programming, CNC milling delivers parts with unparalleled accuracy, surface finish, and functional integration.

Specification of Custom CNC Milling Parts for Precision Manufacturing in Aerospace Automotive Medical and Electronics Industries

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 Custom CNC Milling Parts for Precision Manufacturing in Aerospace Automotive Medical and Electronics Industries

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. Unmatched Precision and Consistency

CNC milling eliminates human error through automated toolpaths derived from digital models. For instance, aerospace parts like fuel injector nozzles require holes with diameters under 0.5 mm; CNC milling achieves this with repeatability across thousands of units. In medical implants, this precision ensures proper fit and long-term biomechanical performance.

2. Complex Geometry Capability

Multi-axis CNC milling enables the machining of intricate 3D shapes impossible with traditional methods. Aerospace engine components, such as blisks (bladed disks), integrate hundreds of airfoils into a single piece via 5-axis simultaneous milling. Similarly, medical implants like custom cranial plates are milled from PEEK to match patient CT scans.

3. Material Versatility

CNC milling supports a wide range of materials, from soft plastics (e.g., PEEK for medical devices) to hardened steels (e.g., tooling for automotive molds). Advanced coatings, such as diamond-like carbon (DLC) for aluminum machining, extend tool life and reduce costs. In electronics, aluminum-nitride ceramics are milled for high-voltage insulators due to their thermal stability.

4. Cost Efficiency at Scale

While initial setup costs for CNC milling are higher than manual methods, automation reduces per-unit costs for medium-to-high volumes. For example, automotive transmission housings machined via CNC require minimal operator intervention after programming, cutting labor costs by up to 70% compared to manual milling. Additionally, in-process probing systems detect deviations in real time, minimizing scrap rates.

Factory Show

Factory Equipment



WEDM



Milling Machine



CNC Wire Cut



Coordinate measuring machine



CNC Bending Machine



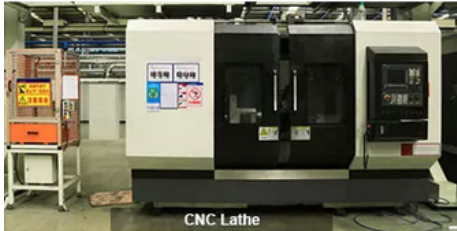
Hydraulic Press Machine



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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