



Custom CNC Milling Parts Precision Manufacturing Aerospace Automotive Medical Electronics Industries

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen China
- Brand Name: Xianheng
- Certification: ISO9001:2015
- Model Number: ML-CNC-067
- 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

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

Custom CNC (Computer Numerical Control) milling is a high-precision manufacturing process that uses computer-guided machinery to shape raw materials into complex components with exceptional accuracy. This technology is widely adopted across aerospace, automotive, medical, and electronics industries due to its ability to produce parts with tight tolerances, intricate geometries, and superior surface finishes. Below is an overview of its applications in each sector and four key advantages of custom CNC milling.

Specification of Custom CNC Milling Parts Precision Manufacturing Aerospace Automotive Medical 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 Precision Manufacturing Aerospace Automotive Medical 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. Unparalleled Precision and Repeatability

CNC milling eliminates human error through automated toolpaths derived from digital 3D models. This ensures consistent quality across thousands of parts, even with extremely tight tolerances.

Example: In aerospace, fuel injector nozzles with holes as small as 0.2 mm require perfect alignment—CNC milling achieves this with near-zero deviation.

2. Ability to Machine Complex Geometries

Multi-axis CNC milling (3-axis, 4-axis, and 5-axis) allows for the production of intricate 3D shapes that would be impossible with traditional manufacturing methods.

Example: Medical implants like cranial plates are custom-milled from PEEK to match a patient's exact anatomy using 5-axis CNC machines.

3. Material Versatility and High-Performance Finishes

CNC milling supports a wide range of materials, including metals (aluminum, titanium, stainless steel), plastics (PEEK, Delrin), and composites. Advanced coatings and tooling options further enhance surface finishes and tool life.

Example: In electronics, aluminum-nitride ceramics are CNC-milled for high-voltage insulators due to their excellent thermal and electrical properties.

4. Cost Efficiency in Medium-to-High Volume Production

While initial setup costs for CNC milling are higher than manual methods, automation reduces per-unit costs significantly for large production runs. In-process inspection systems also minimize waste by detecting defects early.
Example: Automotive transmission housings machined via CNC require minimal operator intervention after programming, cutting labor costs by up to 60-70% compared to manual milling.

Factory Show

Factory Equipment



WEDM



Milling Machine



CNC Wire Cut



Coordinate measuring machine



CNC Bending Machine



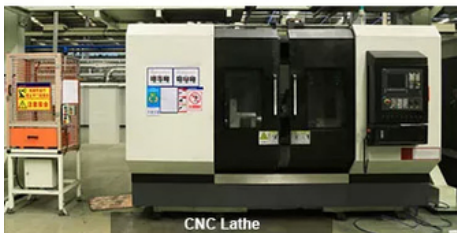
Hydraulic Press Machine



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.



Shenzhen Xianheng Technology Co.,Ltd

0086-13682614486

shawn@xianheng-tech.com

cnc-metalmachining.com

Room 8-1409, Xingji jiyuan building 8-9#, HongXing community, Songgang street, Bao'an District, Shenzhen
City China