



Precision CNC Machining Metal Parts High Quality Milling Turning Customized CNC Solutions Factory

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: CNC-XG-088
- 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

- Application: Automotive, Aerospace, Medical, Etc.
- Drawing Format: CAD, PDF, JPG, Etc.
- Inspection: 100% Inspection Before Shipment
- Lead Time: 7-15 Days
- MOQ: 1 Piece
- Material: Metal
- Package: Carton Box, Wooden Box, Etc.
- Payment Term: T/T, L/C, PayPal, Etc.
- Process: CNC Machining
- Size: Customized
- Surface Treatment: Polishing, Sandblasting, Anodizing, Etc.
- Tolerance: $\pm 0.005\text{mm}$
- Transport: By Air, By Sea, By Express, Etc.



More Images



Product Description

What We Can Provide

Precision CNC Machining Metal Parts High Quality Milling Turning Customized CNC Solutions Factory

Description Of Precision CNC Machining Metal Parts High Quality Milling Turning Customized CNC Solutions Factory

A Precision CNC Machining Factory specializes in manufacturing metal parts through advanced Computer Numerical Control (CNC) technology, integrating milling and turning processes to deliver customized, high-quality components. These facilities leverage multi-axis CNC machines (e.g., 4-axis and 5-axis systems) to achieve intricate geometries, tight tolerances (as precise as ± 0.001 inches), and superior surface finishes. By combining milling (for flat surfaces, slots, and 3D contours) and turning (for cylindrical parts like shafts and bushings), the factory offers end-to-end solutions tailored to industries such as aerospace, medical, automotive, and defense. Customized CNC programming ensures adaptability to unique design requirements, enabling rapid prototyping and scalable production.

Material Of Precision CNC Machining Metal Parts High Quality Milling Turning Customized CNC Solutions Factory

Processing	CNC Turning, CNC Milling, Laser Cutting, Bending, Spinning, Wire Cutting, Stamping, Electric Discharge Machining (EDM), Injection Molding
Materials	Aluminum: 2000 series, 6000 series, 7075, 5052, etc.
	Stainless steel: SUS303, SUS304, SS316, SS316L, 17-4PH, etc.
	Steel: 1214L/1215/1045/4140/SCM440/40CrMo, etc.
	Brass: 260, C360, H59, H60, H62, H63, H65, H68, H70, Bronze, Copper
	Titanium: Grade F1-F5
	Plastic: Acetal/POM/PA/Nylon/PC/PMMA/PVC/PU/Acrylic/ABS/PTFE/PEEK etc.
Surface Treatment	Anodized, Bead Blasted, Silk Screen, PVD Plating, Zinc/Nickel/Chrome/Titanium Plating, Brushing, Painting, Powder Coated, Passivation, Electrophoresis, Electro Polishing, Knurl, Laser/Etch/Engrave etc.
Tolerance	$\pm 0.002 \sim \pm 0.005\text{mm}$
Surface Roughness	Min Ra 0.1~3.2

Application Of Precision CNC Machining Metal Parts High Quality Milling Turning Customized CNC Solutions Factory

1. Computers and Laptops: Skived heatsinks are widely used in computer processors, graphics cards, and other internal components to dissipate heat generated during intense computing tasks. They help prevent overheating and maintain optimal performance.
2. LED Lighting: LED lights generate heat, and efficient cooling is essential to maintain their longevity and brightness. Skived heatsinks are used in various LED lighting applications, including residential, commercial, and automotive lighting systems.
3. Audio Amplifiers: High-power audio amplifiers generate significant heat during operation. Skived heatsinks are employed to cool down the amplifier circuitry, ensuring stable performance and minimizing distortion.

Features Of Precision CNC Machining Metal Parts High Quality Milling Turning Customized CNC Solutions Factory

1. Efficient Heat Dissipation: Aluminum is a highly efficient conductor of heat, and skived heatsinks are designed to maximize the surface area for heat dissipation. The skived fin structure enhances the heatsink's ability to transfer heat away from the electronic components.
2. Thin and Lightweight: Skived heatsinks are manufactured using a precision machining process that allows for the creation of thin and lightweight fins. This design makes them suitable for applications where space and weight are critical considerations.
3. Customizable Fin Geometry: The skiving process allows for the creation of intricate and customizable fin geometries, which can be tailored to specific thermal requirements and airflow conditions. This flexibility ensures optimal performance for various applications.

Why Choose Us

Advantages

Unmatched Precision and Consistency

CNC machines operate with sub-micron accuracy, eliminating human error and ensuring identical parts in every batch. This is critical for industries like aerospace, where components must meet strict tolerance standards (e.g., turbine blades or engine parts). The ability to replicate designs flawlessly reduces waste and enhances product reliability.

Material Versatility and Complex Geometries

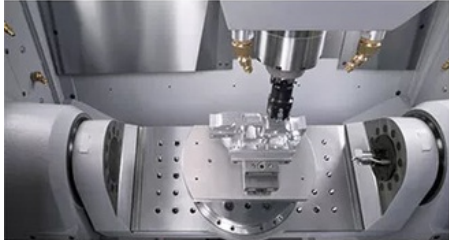
The factory handles a wide range of metals, including aluminum, stainless steel, titanium, and alloys, enabling the production of parts with complex features like threads, undercuts, and deep cavities. For example, 5-axis CNC milling can machine intricate medical implants or molds in a single setup, avoiding multiple operations and reducing lead times.

Cost Efficiency and Scalability

Automation reduces labor costs and material waste by optimizing cutting paths and tool usage. CNC turning, for instance, can produce cylindrical parts like fasteners or bearings at high speeds, lowering per-unit costs for large volumes. Meanwhile, rapid prototyping capabilities allow for quick design iterations, accelerating time-to-market for new products.

Enhanced Reliability and Surface Finish

CNC turning ensures cylindrical parts with exceptional concentricity and smooth finishes, critical for applications like automotive drive shafts or hydraulic fittings. Milling operations, on the other hand, deliver flat surfaces and precise holes with minimal burrs, reducing the need for secondary finishing. This reliability is vital for industries demanding high-performance components, such as robotics or energy systems.



High Precision

**5-Axis CNC & Imported machines
with accuracy $\pm 0.02-0.10\text{mm}$**



Fast Lead Time

**Multiple CNC machines, skillful
workers, guarantee fast lead time**



Strictly Confidential

**We will protect the customers' design
and the customer can request a
confidentiality agreement**



Quality Inspection

**We have a strict quality inspection
process to ensure the quality of our
products**

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

Q1: Where can I get product & price information?

A1: Send us inquiry e-mail, we will contact you as we receive your mail.

Q2: How long can I get the sample?

A2: Depends on your specific items, within 3-7 days is required generally.

Q3: What kinds of information you need for quote?

A3: Kindly please provide the product drawing in PDF, and will be better you can provide in STEP or IGS.

Q4: What are the payment terms?

A4: We accept 50% as payment deposit, when the goods is done, we take photos for your check and you then pay the balance.

Q5: Are you a trading company or factory?

A5: We are direct factory with 10 experienced engineers and more than 650 employees as well approximate 2,000 square ft. workshop area.

Q6: What shall we do if we do not have drawings?

A6: 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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