



Customized High Precision CNC Metal Machining Parts Components Advanced CNC Technology Supplier

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-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

- 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.
- Highlight: Customized CNC Metal Machining Parts, High Precision CNC Metal Machining Parts



More Images



Product Description

What We Can Provide

Customized High Precision CNC Metal Machining Parts Components Advanced CNC Technology Supplier

Description Of Customized High Precision CNC Metal Machining Parts Components Advanced CNC Technology Supplier

Customized precision metal stamping is a specialized manufacturing process tailored to produce high-precision electromagnetic interference (EMI) and radio frequency interference (RFI) shielding solutions for printed circuit boards (PCBs) operating in high-frequency environments (e.g., 5G, Wi-Fi 6E, radar, IoT, and automotive radar systems). This method combines advanced tooling, material selection, and engineering design to create bespoke RF shields that ensure signal integrity, electromagnetic compatibility (EMC), and regulatory compliance while optimizing cost, weight, and assembly efficiency.

Material Of Customized High Precision CNC Metal Machining Parts Components with Advanced CNC Technology Supplier

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	±0.002 ~ ±0.005mm
Surface Roughness	Min Ra 0.1~3.2

Application Of Customized High Precision CNC Metal Machining Parts Components with Advanced CNC Technology Supplier

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 Customized High Precision CNC Metal Machining Parts Components with Advanced CNC Technology Supplier

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

Our promise

1. Optimized Performance in High-Frequency Environments

Reduced Crosstalk & Noise: Custom shields isolate sensitive RF components (e.g., oscillators, mixers, amplifiers) from

interference, improving signal-to-noise ratio (SNR) and bit error rate (BER).

Frequency-Specific Shielding: Tailored designs (e.g., slotted or perforated shields) can balance shielding effectiveness (SE) with ventilation needs for thermal management in compact devices.

2. Cost Efficiency & Scalability

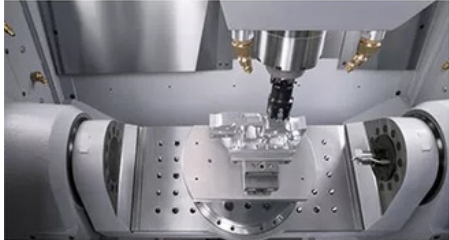
Low Tooling Costs: Stamping dies are reusable and cost-effective compared to CNC machining or photochemical etching, especially for mid-to-high volumes (10,000+ units).

Material Efficiency: Advanced nesting algorithms minimize scrap, reducing material costs by 20–40% compared to laser-cut or folded shields.

3. Accelerated Time-to-Market with Rapid Prototyping

Fast Design Iterations: In-house tooling and digital twin simulations enable 24–72-hour prototype delivery, allowing quick EMC testing and design refinement.

Seamless PCB Integration: Shields are designed for automated pick-and-place assembly, eliminating manual soldering or adhesive bonding steps and reducing labor costs by up to 50%.



High Precision

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



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



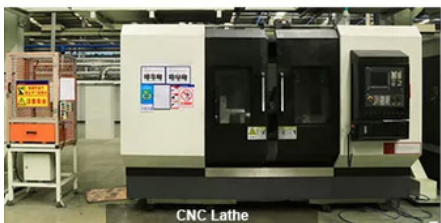
Hydraulic Press Machine



SLS/SLA Machine



5-Axis CNC



CNC Lathe



Laser cutting Machine



CNC Punching Machine



Injection Molding machine

FAQ

1. How can I get the price? - We usually quote within 24 hours after we get your inquiry (except weekend and holidays). If you are urgent to get the price, please email us or contact us in other ways so that we can offer you a quote.
2. Can I buy samples? - Yes. Please feel free to contact us.
3. What is your lead time? - It depends on the order quantity and the season you place the order. Usually we can ship within 7-15 days for small quantity, and about 30 days for large quantity.
4. What is your payment term? - T/T, Western Union, MoneyGram, and Paypal. This is negotiable.
5. What is the shipping method? - It could be shipped by sea, by air, or by express (EMS, UPS, DHL, TNT, FEDEX etc). Please confirm with us before placing orders.
6. How do you make our business long-term and good relationship? - We keep good quality and competitive price to ensure our customers benefit. Furthermore, we respect every customer as our friend and we sincerely do business and make friends with them, no matter where they come from.



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