



High Precision Customized CNC Metal Machining Parts for Aluminum Stainless Steel Brass Components

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-077
- 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

High Precision Customized CNC Metal Machining Parts for Aluminum Stainless Steel Brass Components

Description Of High Precision Customized CNC Metal Machining Parts for Aluminum Stainless Steel Brass Components

High-precision customized CNC (Computer Numerical Control) metal machining involves the use of advanced computer-controlled machinery to produce intricate, dimensionally accurate parts from metals such as aluminum, stainless steel, and brass. This process ensures exceptional repeatability, tight tolerances, and superior surface finishes, making it ideal for applications where precision and reliability are non-negotiable. Industries like aerospace, automotive, medical devices, electronics, and robotics rely on CNC-machined components for their critical functionality.

Material Of High Precision Customized CNC Metal Machining Parts for Aluminum Stainless Steel Brass Components

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 High Precision Customized CNC Metal Machining Parts for Aluminum Stainless Steel Brass Components

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 High Precision Customized CNC Metal Machining Parts for Aluminum Stainless Steel Brass Components

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

1. Unmatched Precision and Consistency

CNC machines operate with sub-micron accuracy, ensuring that every part meets exact specifications with minimal deviation. Tolerances as tight as $\pm 0.0005\text{ mm}$ ($\pm 0.00002\text{ inches}$) can be achieved, making these components suitable for high-stakes applications like optical instruments and surgical tools.

2. Superior Material Performance and Durability

Aluminum offers lightweight strength and excellent corrosion resistance, stainless steel provides high tensile strength and heat resistance, while brass combines good machinability with electrical conductivity.

CNC machining optimizes material properties, resulting in components that withstand extreme conditions, vibrations, and wear.

3. Reduced Lead Times and Faster Production

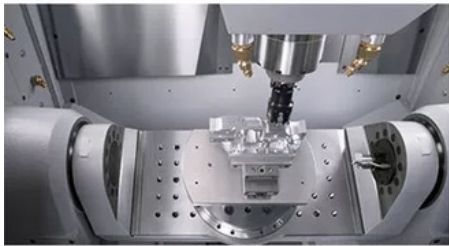
Automated CNC processes eliminate manual errors and streamline production, significantly reducing lead times compared to traditional machining.

Rapid prototyping and quick tooling changes allow for faster iterations and shorter time-to-market for new products.

4. Cost Efficiency in High-Volume and Complex Manufacturing

While initial setup costs may be higher, CNC machining becomes highly economical for medium to large production runs due to reduced labor costs and minimal material waste.

The ability to machine complex geometries in a single setup reduces assembly requirements and lowers overall production expenses.



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



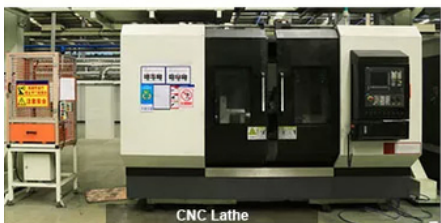
Hydraulic Press Machine



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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