



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

### Our Product Introduction

for more products please visit us on [cnc-metalmachining.com](http://cnc-metalmachining.com)

#### Basic Information

- Place of Origin: Shenzhen China
- Brand Name: Xianheng
- Certification: ISO9001:2015
- Model Number: CNC-XG-076
- 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

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

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

Customized CNC (Computer Numerical Control) metal machining involves precision manufacturing of parts from materials like aluminum, stainless steel, and brass using advanced CNC machines. These components are tailored to meet specific design requirements, ensuring high dimensional accuracy, tight tolerances, and superior surface finishes. CNC machining is widely used in industries such as aerospace, automotive, medical devices, electronics, and industrial equipment, where precision and reliability are critical.

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

<b>Processing</b>	CNC Turning, CNC Milling, Laser Cutting, Bending, Spinning, Wire Cutting, Stamping, Electric Discharge Machining (EDM), Injection Molding
<b>Materials</b>	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.
<b>Surface Treatment</b>	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.
<b>Tolerance</b>	$\pm 0.002 \sim \pm 0.005\text{mm}$
<b>Surface Roughness</b>	Min Ra 0.1~3.2

#### Application Of Highly Accurate Precision 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 Highly Accurate Precision 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. High Precision and Tight Tolerances

CNC machines operate with minimal human error, ensuring consistent accuracy and repeatability in part production. Tolerances as tight as  $\pm 0.001 \text{ mm}$  ( $\pm 0.00004 \text{ inches}$ ) can be achieved, making them ideal for critical applications where exact measurements are essential.

## 2. Material Versatility and Durability

CNC machining works with a wide range of metals, including aluminum (lightweight and corrosion-resistant), stainless steel (strong and heat-resistant), and brass (excellent conductivity and machinability).

The resulting components are durable, long-lasting, and suitable for harsh environments.

## 3. Cost-Effective for Medium to High-Volume Production

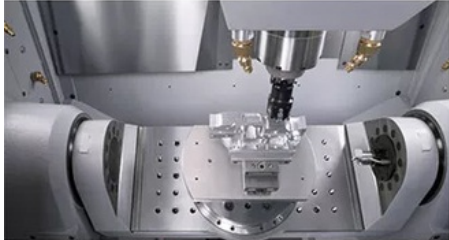
While initial setup costs may be higher, CNC machining becomes highly economical for medium to large production runs due to reduced labor costs and minimal material waste.

Automated processes ensure faster production cycles compared to traditional machining methods.

## 4. Rapid Prototyping and Customization

CNC machining allows for quick design iterations and prototyping, enabling engineers to test and refine components before full-scale production.

Customization is seamless, accommodating unique shapes, complex geometries, and brand-specific requirements without compromising quality.



### 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



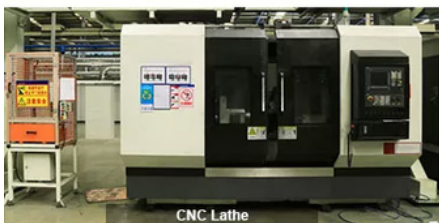
Hydraulic Press Machine



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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