



## Custom Aluminum CNC Parts for OEM Applications Precision Machining with Tight Tolerances for Aluminum 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: AL-CNC-071
- 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

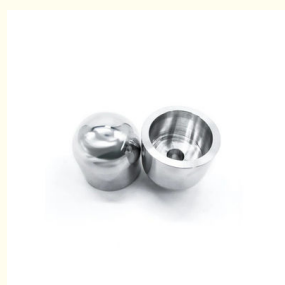


#### Product Specification

- Cnc Machining Or Not: CNC Machining
- Type: Milling, Turning, Machining
- Material Capabilities: Copper, Aluminum, Bronze, Stainless Steel, Brass
- Surface Treatment: Anodizing, Brush, Anodized, Painting/Powder Coating/Sandblast/Color Anodize/Polish/Oxidation
- Application: Machinery, Automotive, Laptop, Industrial Equipment, Engineering
- Keyword: Aluminum Enclosure Box
- Tolerance: 0.01mm, 0.05 Mm, +/-0.005, 0.003-0.05mm
- Service: Customized OEM
- Sample: Acceptable



#### More Images



## Product Description

### What We Can Provide

Custom Aluminum CNC Parts for OEM Applications Precision Machining with Tight Tolerances for Aluminum Components

#### Description of Custom Aluminum CNC Parts for OEM Applications Precision Machining with Tight Tolerances for Aluminum Components

Custom aluminum CNC (Computer Numerical Control) parts designed for OEM (Original Equipment Manufacturer) applications represent a highly specialized and precision - engineered solution in the manufacturing sector. These parts are crafted using advanced CNC machining techniques, which involve the use of computer - controlled machines to remove material from aluminum billets or blocks, shaping them into the desired components with utmost accuracy.

#### Specification of Custom Aluminum CNC Parts for OEM Applications Precision Machining with Tight Tolerances for Aluminum Components

CNC Capacity				
CNC Machining Center	3 / 4 / 5 axis CNC Machining Centers	40+ CNC Machines		
CNC Turning	φ0.5 - φ300 * 750 mm	DIN-2768-Fine +/-0.005 mm		
CNC Machining	1270×508×635 mm(max)	DIN-2768-Fine +/-0.005 mm		
CNC Stamping	1000 * 1000 mm(max)	DIN-2768-Fine +/-0.005 mm		
Drawing Format	IGS,STP,X_T ,DXF,DWG , Pro/E, PDF			
Inspection Equipments	Measurement Instrument, Projector, CMM, Altimeter, Micrometer, Thread Gages, Calipers, Pin Gauge etc.			
Material Available				
Stainless Steel	SS201,SS301, SS303, SS304, SS316, SS416, 17-4PH, etc.			
Steel	Mild steel, Carbon Steel, 4140, 4340, Q235, Q345B, 20#, 45# etc.			
Brass	HPb63, HPb62, HPb61, HPb59, H59, H68, H80, H90 etc.			
Copper	C11000,C12000,C12000 C36000 etc.			
Aluminum	AL6061, AL6063, AL6082, AL7075, AL5052, A380 etc.			
Iron	A36, 45#, 1213, 12L14, 1215 etc.			
Plastic	ABS, PC, PE, POM, Delrin, Nylon, Teflon, PP,PEI, Peek etc.			
Surface Finishing				
Aluminum Parts	Stainless Steel Parts	Steel Parts	Copper /Brass	Plastic Parts
Clear Anodized	Polishing	Zinc plating	Polishing	Painting
Color Anodized	Passivating	Oxide black	Passivation	Chrome plating
Sandblast Anodized	Sandblasting	Nickel plating	Galvanized	polishing
Chemical Film	Laser engraving	Chrome plating	Nickel Plating	Sandblast
Brushing		Carburized	Chrome plating	Laser engraving
Polishing		Heat treatment		
Chroming		Powder Coated		

#### Application Of Custom Aluminum CNC Parts for OEM Applications Precision Machining with Tight Tolerances for Aluminum Components

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

#### Feature Of Custom Aluminum CNC Parts for OEM Applications Precision Machining with Tight Tolerances for Aluminum Components

1. Good corrosion resistance
2. High strength and hardness
3. High thermal conductivity
4. Good finishing characteristics

## Why Choose Us

### Our advantages

#### 1. High Precision and Consistency

CNC machines are capable of producing parts with extremely tight tolerances, often in the range of a few thousandths of an inch or even finer. This high level of precision ensures that each part is identical to the design specifications, reducing the need for rework and assembly adjustments. Consistent part quality also leads to improved product performance and reliability, which is essential for OEMs looking to maintain a competitive edge in the market.

#### 2. Design Flexibility

Unlike traditional manufacturing methods that may have limitations in terms of part complexity, CNC machining allows for the creation of parts with highly intricate designs. OEMs can incorporate features such as undercuts, threads, pockets, and complex contours into their aluminum components without sacrificing precision. This design flexibility enables the development of innovative products and the optimization of existing designs for better functionality and performance.

#### 3. Cost - Effectiveness in the Long Run

Although the initial setup costs for CNC machining may be relatively high due to the need for programming, tooling, and machine calibration, the overall cost - effectiveness becomes apparent in the long run. The high precision and consistency of CNC - machined parts reduce scrap rates and the need for post - machining inspections and corrections. Additionally, the ability to produce parts in small to medium batch sizes without significant cost penalties allows OEMs to respond quickly to changing market demands and reduce inventory costs.

#### 4. Fast Turnaround Times

CNC machining is a relatively fast manufacturing process compared to some other methods, especially when it comes to producing prototypes or small - batch production runs. Once the CNC program is set up, the machine can operate continuously, producing parts at a high rate. This fast turnaround time enables OEMs to accelerate their product development cycles, get their products to market faster, and gain a first - mover advantage in their respective industries.

## Factory Show

### Factory Equipment



WEDM



Milling Machine



CNC Wire Cut



Coordinate measuring machine



CNC Bending Machine



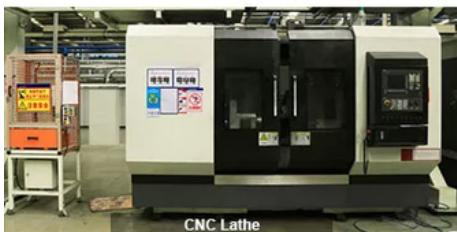
Hydraulic Press Machine



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.



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