



## Highly Accurate Aluminum CNC Parts for OEMs with Advanced Machining Techniques and Competitive Costs

### 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-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

- 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

Highly Accurate Aluminum CNC Parts for OEMs with Advanced Machining Techniques and Competitive Costs

#### Description of Highly Accurate Aluminum CNC Parts for OEMs with Advanced Machining Techniques and Competitive Costs

Our aluminum CNC machining services specialize in delivering precision-engineered components tailored for OEMs across industries like aerospace, automotive, electronics, and medical devices. Leveraging state-of-the-art CNC milling, turning, and 5-axis machining technologies, we achieve tolerances as tight as  $\pm 0.001$  mm while optimizing material usage and production efficiency. Our advanced techniques, including high-speed machining (HSM) and adaptive toolpath strategies, ensure superior surface finishes and complex geometries, even for low-volume or prototype runs. By integrating automation, lean manufacturing principles, and strategic material sourcing, we maintain competitive pricing without compromising quality, enabling OEMs to reduce costs and accelerate time-to-market.

#### Specification of Highly Accurate Aluminum CNC Parts for OEMs with Advanced Machining Techniques and Competitive Costs

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 Highly Accurate Aluminum CNC Parts for OEMs with Advanced Machining Techniques and Competitive Costs

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 Highly Accurate Aluminum CNC Parts for OEMs with Advanced Machining Techniques and Competitive Costs

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

## Why Choose Us

### Our advantages

#### Ultra-Precision and Consistency

Advanced CNC systems with real-time monitoring and closed-loop feedback ensure identical parts across batches, eliminating variability and reducing rework. This is critical for high-stakes applications like aerospace or medical implants.

#### Cost Efficiency Through Optimized Processes

High-speed machining reduces cycle times, while adaptive toolpaths minimize material waste. Combined with bulk aluminum sourcing and in-house recycling, we offer up to 30% lower costs than traditional suppliers for complex parts.

#### Rapid Turnaround for Prototypes to Production

Our 5-axis CNC capabilities allow simultaneous machining of multi-sided features, slashing lead times by 50% compared to multi-setup operations. This agility supports fast-paced R&D cycles and urgent production demands.

#### Material Versatility and Lightweight Durability

Aluminum alloys (e.g., 6061-T6, 7075-T6) provide an ideal balance of strength, corrosion resistance, and weight savings. Our expertise in alloy selection and heat treatment ensures parts meet specific mechanical requirements while reducing overall system weight.

## Factory Show

### Factory Equipment



WEDM



Milling Machine



CNC Wire Cut



Coordinate measuring machine



CNC Bending Machine



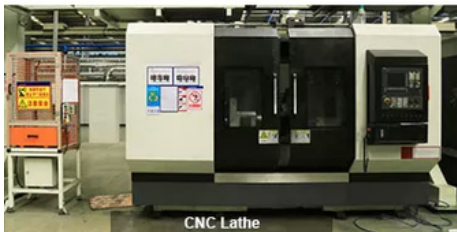
Hydraulic Press Machine



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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