



Expertly Manufactured Automotive CNC Parts with Advanced Machining Capabilities for Optimal Functionality

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: AL-CNC-080
- 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
- Highlight: **Expertly Manufactured Automotive CNC Parts, Advanced Machining Capabilities Automotive CNC Parts, Optimal Functionality Automotive CNC Parts**



More Images



Product Description

What We Can Provide

Expertly Manufactured Aluminum CNC Parts with Advanced Machining Capabilities for Automotive Applications

Description of Expertly Manufactured Aluminum CNC Parts with Advanced Machining Capabilities for Automotive Applications

Expertly crafted aluminum CNC (Computer Numerical Control) parts are precision-engineered components tailored for the automotive industry, leveraging cutting-edge machining technologies to deliver superior performance, reliability, and efficiency. These parts are manufactured using advanced CNC processes, such as multi-axis milling, turning, and laser-cutting, combined with high-grade aluminum alloys known for their lightweight yet robust properties. The result is a range of components—from engine blocks and transmission parts to chassis elements and custom assemblies—that meet stringent automotive standards for durability, heat resistance, and corrosion prevention. Advanced machining capabilities ensure tight tolerances, intricate geometries, and seamless integration into modern vehicle designs, supporting innovations in electric vehicles (EVs), hybrid systems, and lightweighting strategies.

Specification of Expertly Manufactured Aluminum CNC Parts with Advanced Machining Capabilities for Automotive Applications

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 Expertly Manufactured Aluminum CNC Parts with Advanced Machining Capabilities for Automotive Applications

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 Expertly Manufactured Aluminum CNC Parts with Advanced Machining Capabilities for Automotive Applications

1. Good corrosion resistance

- 2. High strength and hardness
- 3. High thermal conductivity
- 4. Good finishing characteristics

Why Choose Us

Advantages

1. Enhanced Performance and Efficiency

Aluminum's lightweight nature reduces overall vehicle weight, improving fuel efficiency (for ICE vehicles) or extending battery range (for EVs). Expertly machined parts minimize friction and wear, optimizing engine and transmission performance while maintaining structural integrity under high-stress conditions.

2. Precision Engineering and Design Flexibility

Advanced CNC machining allows for the creation of complex, customized geometries that are difficult or impossible to achieve with traditional methods. This enables automotive manufacturers to innovate with aerodynamic designs, integrated cooling systems, and modular assemblies, all while adhering to tight dimensional tolerances and surface finish requirements.

3. Cost-Effective Scalability and Sustainability

CNC-machined aluminum parts offer rapid prototyping and scalable production, reducing time-to-market for new vehicle models. Additionally, aluminum's recyclability aligns with automotive sustainability goals, while advanced machining minimizes material waste and energy consumption during production.

Factory Show

Factory Equipment



WEDM



Milling Machine



CNC Wire Cut



Coordinate measuring machine



CNC Bending Machine



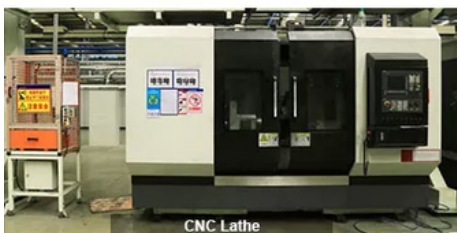
Hydraulic Press Machine



SLS/SLA Machine



5-Axis CNC



CNC Lathe



Laser cutting Machine



CNC Punching Machine



Injection Molding machine



FAQ

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.



Shenzhen Xianheng Technology Co.,Ltd

☎ 0086-13682614486

✉ shawn@xianheng-tech.com

🌐 cnc-metalmachining.com

Room 8-1409, Xingji jiyuan building 8-9#, HongXing community, Songgang street, Bao'an District, Shenzhen
City China