Shenzhen China

ISO9001:2015

AL-CNC-072

USD \$0.1-\$1.99

10000 pcs per week

Carton, As Customers'packaging

T/T, Western Union, MoneyGram

Xianheng

1 pcs

days



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

Basic Information

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity:
- Price:

Our Product Introduction

for more products please visit us on cnc-metalmachining.com

- Packaging Details:
- Pelivery Time: Samples 7-10 days, Mass production 20-25
- Payment Terms:
- Supply Ability:

Product Specification

 Cnc Machining Or Not: **CNC** Machining Milling, Turning, Machining • Type: • 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 with Tight Tolerances for Precision Machining of Custom Aluminum Components

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

Custom aluminum CNC parts tailored for OEM (Original Equipment Manufacturer) applications are the result of a sophisticated manufacturing process that combines cutting - edge technology with meticulous craftsmanship. These parts are specifically designed to meet the unique requirements of OEMs across various industries, where precision, quality, and performance are of utmost importance.

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

1. Good corrosion resistance

2. High strength and hardness

3. High thermal conductivity

4. Good finishing characteristics

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Our advantages

1. Enhanced Product Performance

The tight tolerances achieved through CNC machining ensure that custom aluminum parts fit together precisely, reducing friction, wear, and the risk of component failure. This leads to improved overall product performance. For instance, in a high - precision industrial machine, well - fitting aluminum components can contribute to smoother operation, higher accuracy, and increased productivity. The consistent quality of CNC - machined parts also helps maintain stable performance over time, minimizing the need for frequent maintenance and repairs.

2. Design Freedom and Innovation

CNC machining allows OEMs to explore complex and innovative designs that would be difficult or impossible to achieve with traditional manufacturing methods. With the ability to create intricate geometries, undercuts, and fine details, OEMs can develop products with unique features and functionalities. This design freedom encourages innovation and differentiation in the market. For example, in the consumer electronics industry, custom aluminum CNC parts can be used to create sleek, ergonomic designs with advanced cooling systems, enhancing the user experience.

3. Cost Savings in the Long Term

Although the initial investment in CNC machining for custom aluminum parts may be higher compared to some mass production techniques, the long - term cost savings are significant. The high precision of CNC - machined parts reduces scrap rates and the need for rework, saving on material and labor costs. Additionally, the durability and reliability of these parts mean fewer product returns and warranty claims, which can have a substantial positive impact on the OEM's bottom line. Moreover, the ability to produce parts in small to medium batch sizes efficiently allows OEMs to optimize their inventory management and respond quickly to market changes.

4. Faster Time - to - Market

CNC machining offers relatively fast turnaround times, especially for prototypes and small - batch production runs. Once the CNC program is set up, the machine can quickly produce the required parts, enabling OEMs to test and validate their designs in a shorter period. This rapid prototyping capability accelerates the product development cycle, allowing OEMs to bring their products to market faster. In competitive industries, being the first to launch a new product can give a significant advantage in terms of market share and customer loyalty.

Factory Show

Factory Equipment







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CNC Bending Machine Hydraulic Pre

458 898 20











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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.

Shenzhen Xianheng Technology Co.,Ltd

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