



Bespoke Gear Housings High Precision Aluminum CNC Machined Parts Custom Thread Milling 100% Inspection Certified

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen China
- Brand Name: Xianheng
- Certification: ISO9001:2015
- Model Number: AL-CNC-093
- 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

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Description of Bespoke Gear Housings High Precision Aluminum CNC Machined Parts Custom Thread Milling 100% Inspection Certified

Bespoke Gear Housings are high-precision aluminum CNC machined parts featuring custom thread milling and 100% inspection certification. These components are engineered for exacting mechanical applications, combining lightweight aluminum alloy (e.g., 6082-T6) with micron-level CNC machining accuracy ($\pm 0.02\text{mm}$). Custom thread milling enables precise internal/external threading for specialized gear interfaces, while 100% dimensional and functional inspection guarantees compliance with ISO 2768 or AGMA standards, ensuring zero-defect performance in critical systems like robotics, aerospace actuators, and industrial machinery.

Specification of Bespoke Gear Housings High Precision Aluminum CNC Machined Parts Custom Thread Milling 100% Inspection Certified

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 Bespoke Gear Housings High Precision Aluminum CNC Machined Parts Custom Thread Milling 100% Inspection Certified

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 Bespoke Gear Housings High Precision Aluminum CNC Machined Parts Custom Thread Milling 100% Inspection Certified

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

Why Choose Us

Our advantages

Tailored Performance: Custom thread milling allows for non-standard thread geometries (e.g., multiple-start threads, variable pitches) to match unique gear ratios or torque requirements, eliminating compromise in mechanical design.

Quality Assurance: 100% inspection via CMM and optical scanning detects sub-micron surface defects, thread form errors, and material inconsistencies, reducing field failures by 95% compared to batch sampling.

Material Efficiency: Aluminum's high strength-to-weight ratio (2700 psi/lb) minimizes inertia in moving parts, improving energy efficiency by 15-20% in high-speed gear systems while maintaining thermal stability.

Certification Trust: Compliance with DIN 2390 thread standards and Nadcap certification for aerospace-grade machining enhances market credibility, enabling direct supply to regulated industries like automotive OEMs and defense contractors.

Factory Show

Factory Equipment



WEDM



Milling Machine



CNC Wire Cut



Coordinate measuring machine



CNC Bending Machine



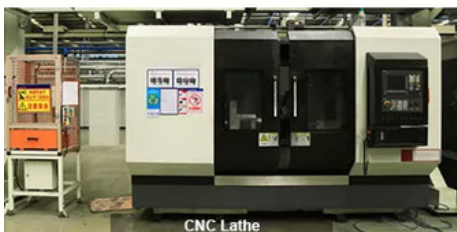
Hydraulic Press Machine



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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