CNC Turning Machining Parts Aluminum Alloy OEM Precision Custom Manufacturing Service

Our Product Introduction

Basic Information

Product Specification

- Material: Aluminum 6061/6082/7075, Stainless Steel, Brass, Copper, Plastics
- Manufacturing Process: CNC Turning, Turn-Milling, Thread Cutting, Chamfering, Drilling
- Tolerance: Up To ±0.005 Mm (depending On Part Geometry)
- Surface Finish: Anodizing, Sandblasting, Polishing, Powder Coating, Black Oxide
- Maximum Turning Diameter: Up To 300 Mm (customizable Based On Equipment)
- File Formats Accepted: STEP, STP, IGES, IGS, PDF, DWG
- MOQ: No Strict MOQ; Prototypes And Small Batches Accepted
- Application Fields: Automotive, Robotics, Machinery, Electronics, Automation Equipment

More Images

Product Description

CNC Turning Machining Parts Aluminum Alloy OEM Precision Custom Manufacturing Service

We provide high-precision CNC turning services for customized aluminum alloy components used across industrial, mechanical, automotive, robotics, automation, and electronic equipment applications. With advanced CNC lathes, multi-axis turning centers, and strict quality control

Our Pr

standards, we ensure every part meets tight tolerances, smooth surface finishing, and stable dimensional accuracy. Whether you need rapid prototypes or mass-production orders, we deliver consistent quality and fast lead times. Clients can send drawings (2D/3D) or samples, and our engineering team will offer professional technical support, material suggestions, and cost-effective machining solutions tailored to your requirements.

Service Advantages

Wide Material Options: Aluminum alloys (6061, 6082, 7075, 5052, etc.), stainless steel, brass, copper, plastics available

High Precision Capability: Tolerance up to ±0.005 mm for critical components

Advanced Production Equipment: Multi-axis CNC turning centers ensure complex geometries and stable repeatability

OEM & Custom Support: Fully customized production based on customer drawings, samples, or design concepts

Strict Quality Control: 100% inspection for key dimensions; provides inspection reports upon request

Fast Delivery: Rapid prototyping within days; stable mass production for long-term projects

One-Stop Service: Turning, milling, surface treatment, assembly, packaging, and global shipping

Engineering Assistance: DFM analysis to optimize structure, tolerance, machining process, and cost

Technical Specifications

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Application Fields	Automotive, Robotics, Machinery, Electronics, Automation Equipment
Inspection	CMM, Calipers, Hardness Test, Surface Roughness Test
Production Capability	Prototype, small batch, and mass production

Frequently Asked Questions

Can you accept small batch or prototype orders?

Yes, we support low-volume production and rapid prototypes with fast turnaround.

What files do you need to start manufacturing?

3D/2D drawings in STEP, STP, IGES, PDF, or DWG. Samples are also accepted.

Do you provide surface finishing for aluminum parts?

Yes, we offer anodizing, sandblasting, powder coating, polishing, and custom finishes.

How do you ensure quality control?

All parts go through strict inspection using CMM, calipers, and surface testing. Inspection reports are available.

What is your typical lead time?

Prototypes take 3-7 days; mass production depends on quantity and complexity.

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