



## Custom Precision Aluminum Parts CNC Lathe Turning and Milling with $\pm 0.005$ mm Accuracy and Anodizing for Prototype to Production

Our Product Introduction

for more products please visit us on [lathecnmachining.com](http://lathecnmachining.com)

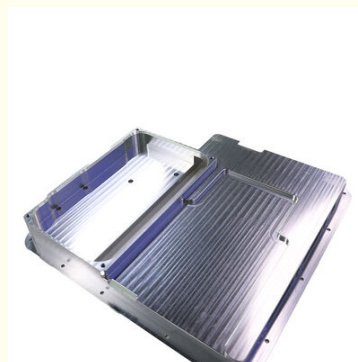
### Basic Information

- Brand Name: Industrial Man
- Model Number: OEM
- Minimum Order Quantity: 1PC
- Price: Prototype to continuous production supply
- Payment Terms: L/C,D/A,D/P,T/T,Western Union,MoneyGram

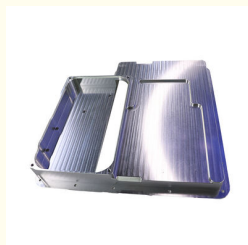


### Product Specification

- Material Options: Aluminum 6061 / 6063 / 6082 / 7075 / 2024
- Machining Methods: CNC Turning, CNC Milling, High-speed Cutting, Fine Finishing
- Dimensional Accuracy: Up To  $\pm 0.005$  Mm Depending On Structure
- Max Workpiece Size: 1100 × 600 Mm (milling); Ø380 Mm (turning)
- Surface Treatment: Anodizing, Hard Coating, Brushing, Polishing, Sandblasting
- Inspection Methods: CMM, Height Gauge, Micrometer, Surface Roughness Test
- Drawing Supported: STEP, IGES, XT, DWG, PDF
- Production Capability: Prototype To Continuous Production Supply
- Highlight:  **$\pm 0.005$  mm Dimensional Accuracy CNC Lathe Parts**  
Anodizing Surface Treatment Precision



### More Images



### Product Description

#### Custom Precision Aluminum Parts CNC Machining Service

Our Custom Precision Aluminum Parts CNC Lathe Turning and Milling Service provides engineered metal components built for demanding industrial applications. With a full range of high-performance CNC lathes and multi-axis milling centers, we specialize in transforming aluminum

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blocks and billets into accurate, functional parts that meet strict mechanical and dimensional requirements.

Every project begins with a technical assessment of your drawings. Our engineers review tolerances, machining feasibility, material grade, and critical surfaces to ensure the part can be produced efficiently and consistently. From there, optimized toolpaths, machining strategy, and quality checkpoints are created to guarantee accuracy and stability during production.

We handle everything in-house—from rough machining and precision finishing to surface treatment and packaging—giving you a seamless and reliable manufacturing experience. Whether your need is lightweight structural components, thermal-performance parts, or detailed functional features, we deliver aluminum parts with the precision and repeatability required for modern engineering systems.

### Technical Specifications

Material Options	Aluminum 6061 / 6063 / 6082 / 7075 / 2024
Machining Methods	CNC turning, CNC milling, high-speed cutting, fine finishing
Dimensional Accuracy	Up to $\pm 0.005$ mm depending on structure
Max Workpiece Size	1100 × 600 mm (milling); $\varnothing 380$ mm (turning)
Surface Treatment	Anodizing, hard coating, brushing, polishing, sandblasting
Inspection Methods	CMM, height gauge, micrometer, surface roughness test
Drawing Supported	STEP, IGES, XT, DWG, PDF
Production Capability	Prototype to continuous production supply

### Frequently Asked Questions

#### Do you only machine aluminum parts?

No. While aluminum machining is one of our strengths, we also process stainless steel, brass, copper, alloy steel, and engineering plastics.

#### What information should I send for a manufacturing quote?

Please provide 3D/2D drawings, required material, quantity, surface finish, and any special tolerance notes.

#### Can you support both prototype and mass production orders?

Yes. Our facility is equipped for single-piece prototypes, trial batches, and long-term supply.

#### What is the typical lead time?

Prototype parts usually ship within 3-7 days. Batch orders depend on complexity and quantity.

#### How do you ensure quality consistency?

We follow a structured process including incoming material verification, in-process inspection, final dimensional checking, and full documentation, ensuring every part matches the drawing.



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