



Polished CNC Machining Aluminum Die Casting Parts with Customized Dimensions

Our Product Introduction

for more products please visit us on aluminumextrusion-profiles.com

Basic Information

- Certification: ISO 9001:2000
- Minimum Order Quantity: 100
- Price: 1.99



Product Specification

- Material: Aluminum Alloy
- Tolerance Grade: 7
- Surface Roughness: Ra 12.5um
- Weight Range: 0.1-100kg
- Max Linear Size: 1200mm
- Max Diameter Size: 600mm
- Machining Precision: 0.008mm
- Repositioning Accuracy: 0.006mm
- Machining Surface Roughness: Ra0.8~6.3um
- Max Spindle Travel: 1800mmx850mmx700mm
- Max Turning Diameter: 1000mm
- Production Capacity: 10000 Pieces/Year
- Casting Dimension Tolerance: CT7-CT8
- Extruder Capacity: 6000 Tons



More Images



Product Description

Polishing CNC Milling Drilling Aluminum Casting Automatic Parts

Aluminum is the most frequently used material for producing lightweight parts through aluminum castings. Low pressure casting of aluminum alloy involves filling the aluminum mold and completing the solidification process under low working pressure (0.06-0.15MPa) to obtain high-quality castings.

Precision die casting parts are widely used in hardware components, automotive motor parts, machinery parts, medical equipment, and various industrial applications.

Product Specifications

Material	Aluminum Alloy, Carbon Steel, Alloy Steel, Stainless Steel
Process	Drawings → Mould Making → Die Casting → Rough Machining → CNC Machining → Surface Treatment → Product Checking → Packing → Delivery
Casting Dimension Tolerance	CT7-CT8
Casting Surface Roughness	Ra 12.5um
Casting Weight Range	0.1-100kg
Casting Size	Max linear size: 1200mm, Max diameter size: 600mm
Machining Precision	Positioning accuracy 0.008mm, Repeat positioning accuracy 0.006mm
Machining Surface Roughness	Ra0.8~6.3um
Max Travel Of Spindle	1800mm x 850mm x 700mm
Max Turning Diameter	1000mm
Material Standard	GB, ASTM, AISI, DIN, BS, JIS, NF, AS, AAR
Surface Treatment	Electroplating, Chrome Plating, Zinc Plating, Nickel plating, Electrophoresis, Anodization, Polishing, Powder coating, Sandblasting, Passivation, Spray painting, etc.
Casting Process Type	High Pressure Die Casting (HPDC), Vertical Low Pressure Die Casting (LPDC), Precision Sand Casting, Lost Foam Casting, Investment Casting, Metal Casting
Service Available	OEM & ODM
Quality Control	0 defects, 100% inspection before packing
Application	Train & railway, automobile & truck, construction machinery, forklift, agricultural machinery, shipbuilding, petroleum machinery, construction, valve and pumps, electric machine, hardware, power equipment
MOQ	1 TON
Payment Terms	T/T, L/C at sight
Port	Shanghai Port

Our Manufacturing Advantages

Over 17 years of manufacturing experience in aluminum extrusion

Strong design capabilities with fast-speed CNC machining, milling, and turning

Complete metal processing facilities including stamping, laser cutting, CNC bending, and welding
Comprehensive quality control throughout the manufacturing process
Regular exports to United States and European markets

Technical Support Services

Custom design services including CAD drawings and 3D models for extruded profiles
Professional R&D team for design analysis and optimization to reduce production costs
One-stop service covering product design, mold customization, aluminum bar melting, extrusion profiling, precision machining, and surface treatment

Factory Equipment Capabilities

Extrusion

44 aluminum extrusion lines capable of producing commercial and industrial aluminum profiles with maximum outer diameter of 350mm. Largest extruder is 6800 ton unit for profiles up to 600mm diameter.

Anodizing

6 anodizing production lines providing uniform oxidation film thickness and color options including silver, black, gold, champagne, and imitation steel.

Painting

4 powder spraying lines using high-quality Swiss Gema spray nozzles with environmentally friendly, durable paints.

CNC Machining

12 PRATIC machining centers for milling, drilling, and tapping profiles up to 6 meters
Fully automatic cutting machines from Wegoma for precise cutting
30 punching machines (50-100 ton capacity) and 10 stretch bending machines
10 milling machines for various plane, bevel, and groove machining

Quality Assurance

Strict warehouse management with comprehensive inspection procedures. All products examined before delivery with detailed transaction records.

Company Certifications & History

2004: Recognized brand of building industry material market
2006: ISO9001 certification and product quality exemption certificate
2009: Jiangsu Famous Brand Certificate and Advanced Company award
2012: Established business relationships with Panasonic and LG
2015: Innovative producer and supplying partner for European clients
2017: Developed new baseboard heater products
2019: Supplier for world's largest heater manufacturers
2023: Expanding overseas distributor network

Notable Projects

Soccer City Stadium, Johannesburg

Main aluminum supplier for Africa's largest capacity stadium (94,000 seats), contributing to this major South African construction project.

Lobster Trailers

Collaboration with Nordic trailer giant featuring design optimization and excellent processing equipment to minimize production costs and improve product performance.

School Desk Project

Supplied aluminum legs for school desks, supporting local customer Dadn in winning school project bids through strong design capabilities and mature manufacturing techniques.

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