CNC Machining Anodized Aluminum Die Casting Parts with CT7 Tolerance Grade

Our Product Introduction

Basic Information

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

Product Specification

- Material: Aluminum Alloy
- Surface Treatment: Anodizing
- 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
- Casting Process: High Pressure Die Casting
- Production Capacity: 10000 Pieces/Year

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Product Description

Anodized Engineering Machinery Parts CNC Milling Aluminum Casting

Metalplus specializes in aluminum industrial profile design and manufacturing with a production base of more than 100,000 square meters and annual capacity exceeding 100,000 tons.

Product Range

Aluminum Profile	Die Casting
Aluminum Profile System Aluminum Extrusion Enclosure LED Aluminum Extrusion Profiles Aluminum Frame Customized Aluminum Profile Aluminum Heat Sink Electric Motor Housing Aluminum Profile Construction Aluminum Profile Aluminum Extrusion Tube	Die Casting LED Housing Stainless Steel Casting Aluminum Casting ACP | Aluminum Composite Panel

Product Description

Aluminum is the most frequently used material for aluminum castings to produce lightweight parts. The basic principle of low pressure casting involves filling aluminum molds and completing solidification 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.

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 Types	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, and more.
MOQ	1 TON
Payment Terms	T/T, L/C at sight
Port	Shanghai Port

Our Advantages

We export the majority of our customized products to the United States and Europe, where our customers have become regular clients. With over 17 years of manufacturing experience in aluminum extrusion, we can easily satisfy customers' needs.

- Over 17 years of manufacturing experience in Aluminum Extrusion
- Strong design and manufacturing capabilities for extrusion, CNC machining, milling, and turning with fast turnaround
- Complete metal processing equipment including laser cutting, CNC bending, welding, and stamping
- Comprehensive quality control throughout the manufacturing process for long-term stability and excellent quality

Technical Support

- Design assistance for extruded profiles including CAD drawings and 3D models for customer confirmation
- Professional R&D team analysis and optimization of customer designs to reduce production costs and improve product performance
- One-stop service including product design, custom molds, aluminum bar melting, extrusion profiling, precision machining, and surface treatment

Factory Equipment

Extrusion: 44 aluminum extrusion lines with PLC control systems, including a 6800-ton unit capable of producing profiles up to 600mm diameter for radiators, industrial fan blades, motor enclosures, and solar cell frames.

Anodizing: 6 anodizing production lines producing uniform oxidation film thickness in various colors including silver, black, gold, champagne, and imitation steel.

Painting: 4 powder spraying lines using high-quality Gema Switzerland nozzles with environmentally friendly, durable paints.

CNC Machining: Advanced equipment including 12 PRATIC machining centers, automatic cutting machines, 30 punching machines, bending machines, and milling machines for complex profile processing.

Packing & Shipping

Finished products are manually packaged and ready for delivery. Strict warehouse management procedures ensure proper storage and documentation of all products.

Company History

- 2004: Recognized Brand of the Building Industry Material Market

2006: Certificate for Product Exemption from Quality Surveillance Inspection and ISO9001

2009: Advanced Company, Jiangsu Famous Brand Certificate, Credible Product of Quality in Jiangsu Province

2012: Established business relationships with Panasonic and LG

2015: Innovative producer and supplying partner for European clients

2017: Developed new baseboard heater products

2019: Cooperated with world's largest heater manufacturers, supplying aluminum shells

2023: Expanding overseas distributor network for win-win benefits

Notable Projects

Soccer City Stadium, Johannesburg: As the main aluminum supplier for Africa's largest stadium (94,000 seats), we contributed to this major construction project.

Lobster Trailers: Cooperation with Nordic trailer giant, providing design optimization and processing services to minimize production costs and improve product performance.

School Project: Supplied aluminum legs for school desks, helping local customers win project bids with strong design capabilities and mature technology.

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