



CNC Processing Stainless Steel Aluminum Metal Parts Alloy Pressure Die Casting

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

- Machining: CNC Machining
- Tolerance Grade: 7
- Surface Preparation: Polishing
- Production Capacity: 10000 Pieces/Year
- Alloy: Stainless Steel, Aluminum, Etc.
- Casting Surface Quality: 12.5
- Surface Treatment: Anodizing
- Material: Aluminum Alloy
- 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, Rep.



More Images



Product Description

CNC Processing Stainless Steel Aluminum Metal Parts Alloy Pressure Die 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 Portfolio

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

Product Description

Aluminum is the primary material for producing lightweight castings through low pressure casting technology. This process involves filling aluminum molds with liquid alloy under low working pressure (0.06-0.15MPa) to achieve high-quality castings with precise solidification control.

Precision die casting parts are extensively used in hardware components, automotive motor parts, machinery components, and medical equipment manufacturing.

Technical Specifications

Parameter	Specification
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 12.5μm
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	Ra 0.8-6.3μm
Max Travel Of Spindle	1800mm × 850mm × 700mm

Max Turning Diameter	1000mm
Material Standards	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
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
Applications	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

Manufacturing Advantages

With over 17 years of aluminum extrusion experience, we export customized products to the United States and Europe, building long-term partnerships with our clients.

- Strong design capabilities with fast extrusion, CNC machining, milling, and turning services
- Complete metal processing facilities including stamping, laser cutting, CNC bending, and welding
- Comprehensive quality control throughout the manufacturing process for long-term stability

Technical Support Services

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

Factory Equipment Capabilities

Extrusion

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

Anodizing

6 anodizing production lines creating uniform oxidation films in silver, black, gold, champagne, and imitation steel colors with enhanced corrosion resistance and hardness.

Painting

4 powder spraying lines using Gema Switzerland nozzles with environmentally friendly, durable paint for strong adhesion and color retention.

CNC Machining

Advanced machining equipment including 12 PRATIC machining centers for profiles up to 6 meters, automatic cutting machines, 30 punching machines (50-100 tons), bending machines, and milling machines for complex profile processing.

Packing & Shipping

Manual packaging with strict warehouse management procedures, section-based storage, and comprehensive inspection before delivery.

Quality Certifications

Company History & Milestones

- 2004: Recognized brand of the building industry material market
- 2006: ISO9001 certification and product quality surveillance exemption
- 2009: Advanced company status and Jiangsu famous brand certification
- 2012: Established partnerships with Panasonic and LG
- 2015: Innovative producer and supplier 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 stadium (94,000 seats), contributing to this major South African construction project.

Lobster Trailers Partnership

Collaboration with Nordic trailer giant, providing design optimization and manufacturing services to minimize production costs and enhance product performance.

School Furniture Project

Supplier of 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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