



Custom Molding Metal Parts Aluminum Die Casting for Heat Dissipation

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
- 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. Position. Accuracy 0.006mm
- Machining Surface Roughness: Ra0.8~6.3um
- Max Travel Of Spindle: 1800mmx850mmx700mm
- Max Turning Diameter: 1000mm
- Surface Treatment: Anodizing
- Casting Process Type: High Pressure Die Casting (HPDC) Vertical



More Images



Product Description

Custom Aluminum Die Casting for Heat Dissipation

Metalplus specializes in aluminum industrial profile design and manufacturing with a 100,000+ square meter production base 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 preferred material for die casting to produce lightweight parts with excellent heat dissipation properties. Our low pressure casting process (0.06-0.15MPa working pressure) ensures high-quality castings through controlled filling and solidification.

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

Technical 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 12.5μm
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
Services	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

Production Gallery



Company Advantages

We export customized products to the United States and Europe, building long-term relationships with our clients through exceptional service and quality.

- 17+ years of aluminum extrusion manufacturing experience
- Strong design capabilities with fast extrusion, CNC machining, milling, and turning services
- Complete metal processing capabilities including laser cutting, CNC bending, and welding
- Comprehensive quality control throughout the manufacturing process

Technical Support Services

- Custom design services including CAD drawings and 3D models for customer confirmation
- Design optimization by professional R&D team to reduce costs and improve performance
- One-stop service from product design to surface treatment with complete quality control



Factory Equipment & Capabilities

Extrusion

44 aluminum extrusion lines with PLC control systems, including a 6800-ton extruder for profiles up to 600mm diameter. Custom mold production for complex structures.



Anodizing

6 anodizing production lines creating uniform oxidation films in silver, black, gold, champagne, and imitation steel colors. Strict quality inspection ensures consistent batch quality.



Painting

4 powder spraying lines using Gema Switzerland nozzles with environmentally friendly, durable paints.

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.

Packing & Shipping

Strict warehouse management with comprehensive inspection before delivery.

Certifications

Company History

- 2004: Recognized brand of building industry material market
- 2006: ISO9001 certification and product quality surveillance exemption
- 2009: Advanced company status and Jiangsu famous brand certificate
- 2012: Established business relationships 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 infrastructure project.

Lobster Trailers

Collaboration with Nordic trailer giant, providing design optimization and precision manufacturing to minimize 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 and manufacturing capabilities.



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