



## Aluminum Parts Custom Metal Alloy Die Casting with CNC Milling

Our Product Introduction

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

### Basic Information

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



### Product Specification

- Material: Aluminum Alloy, Carbon Steel, Alloy Steel, Stainless Steel
- 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
- Material Standard: GB, ASTM, AISI, DIN, BS, JIS, NF, AS, AAR
- Surface Treatment: Electroplating, Chrome Plating, Zinc Plating,



### More Images



## Product Description

### Custom Aluminum Die Casting with CNC Milling

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	ACP   Aluminum Composite Panel
Construction Aluminum Profile	
Aluminum Extrusion Tube	

### Product Description

Aluminum is the primary material for producing lightweight parts through die casting. Our low pressure casting process (0.06-0.15MPa working pressure) ensures high-quality castings by filling molds and completing solidification under controlled pressure.

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

### Technical Specifications

<b>Material</b>	Aluminum Alloy, Carbon Steel, Alloy Steel, Stainless Steel
<b>Process</b>	Drawings → Mould Making → Die Casting → Rough Machining → CNC Machining → Surface Treatment → Product Checking → Packing → Delivery
<b>Casting Dimension Tolerance</b>	CT7-CT8
<b>Casting Surface Roughness</b>	Ra 12.5um
<b>Casting Weight Range</b>	0.1-100kg
<b>Casting Size</b>	Max linear size: 1200mm, Max diameter size: 600mm
<b>Machining Precision</b>	Positioning accuracy 0.008mm, Repeat positioning accuracy 0.006mm
<b>Machining Surface Roughness</b>	Ra0.8~6.3um
<b>Max Travel Of Spindle</b>	1800mm x 850mm x 700mm
<b>Max Turning Diameter</b>	1000mm
<b>Material Standards</b>	GB, ASTM, AISI, DIN, BS, JIS, NF, AS, AAR

<b>Surface Treatment</b>	Electroplating, Chrome Plating, Zinc Plating, Nickel plating, Electrophoresis, Anodization, Polishing, Powder coating, Sandblasting, Passivation, Spray painting, etc.
<b>Casting Process Types</b>	High Pressure Die Casting (HPDC), Vertical Low Pressure Die Casting (LPDC), Precision Sand Casting, Lost Foam Casting, Investment Casting, Metal Casting
<b>Service Available</b>	OEM & ODM
<b>Quality Control</b>	0 defects, 100% inspection before packing
<b>Applications</b>	Train & railway, automobile & truck, construction machinery, forklift, agricultural machinery, shipbuilding, petroleum machinery, construction, valve and pumps, electric machine, hardware, power equipment
<b>MOQ</b>	1 TON
<b>Payment Terms</b>	T/T, L/C at sight
<b>Port</b>	Shanghai Port

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## Our Advantages

We export customized products to the United States and Europe, building long-term relationships with our customers through 17+ years of aluminum extrusion experience.

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

## Technical Support

- Custom design services including CAD drawings and 3D models for extruded profiles
- Professional R&D team for design analysis and optimization to reduce costs and improve performance
- One-stop service from product design to surface treatment with complete quality control

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## Factory Equipment

### 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.

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### 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.

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### 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, bending machines, and milling machines.

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## Packing & Shipping

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Manual packaging with strict warehouse management and comprehensive inspection before delivery.

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## Certifications

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## Company History

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- 2004: Recognized brand of building industry material market
- 2006: ISO9001 certification and product quality surveillance exemption
- 2009: Advanced company, Jiangsu famous brand, credible product quality certificate
- 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
- 2023: Expanding overseas distributor network

## Notable Projects

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### Soccer City Stadium, Johannesburg

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

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### Lobster Trailers

Collaboration with Nordic trailer giant, providing design optimization and processing expertise to minimize costs and enhance product performance.

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### School Furniture Project

Supplied aluminum legs for school desks, supporting local customer Dadn in winning school project bids.



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