



## Aluminum Alloy Heatsink Enclosure Machine Part Die Casting with Fins

### 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
- 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: Electroplating, Chrome Plating, Zinc Plating, Nickel Plating, Electrochromic Anodization



### More Images



## Product Description

### Aluminum Alloy Heatsink Enclosure Machine Part Die Casting with Fins

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	ACP   Aluminum Composite Panel
Construction Aluminum Profile	
Aluminum Extrusion Tube	

#### 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 with liquid aluminum alloy under low working pressure (0.06-0.15MPa) to obtain high-quality castings through controlled solidification.

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

#### 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, 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
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



## Company Advantages

We export the majority of our customized products to the United States and Europe, building long-term relationships with our customers through consistent quality and service.

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

## Technical Support Services

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

## Factory Equipment & Capabilities

### Extrusion

Equipped with 44 aluminum extrusion lines with PLC control systems, capable of producing commercial and industrial aluminum profiles with maximum outer diameter of 350mm. Our largest 6800-ton extruder handles profiles up to 600mm diameter for radiators, industrial fan blades, motor enclosures, solar cell frames, and architectural applications.

### Anodizing

Six anodizing production lines create uniform aluminum oxide layers for improved corrosion resistance, hardness, and wear resistance. Available in silver, black, gold, champagne, and imitation steel colors with custom options available.



### Painting

Four powder spraying lines using high-quality Gema Switzerland spray nozzles with environmentally friendly, durable paints featuring strong adhesion and color retention.

### CNC Machining

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




## Packing & Shipping

Strict warehouse management with manual packaging and comprehensive quality examination before delivery.

## Quality Certifications

## Company History

- 2004: Recognized brand of the building industry material market
- 2006: Certificate for product exemption from quality surveillance inspection and ISO9001 certification
- 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

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 analysis, optimization, and processing with advanced 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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