



## ADC12 Material Aluminum Sand Die Casting for Industrial Enclosure

### Basic Information

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

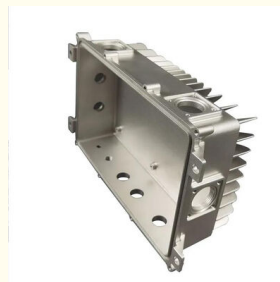


### Product Specification

- Casting Surface Quality: 12.5
- Tolerance Grade: 7
- Material: Aluminum Alloy
- 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



### More Images



## Product Description

### ADC12 Material Aluminum Sand Die Casting for Industrial Enclosure

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

### Product Capabilities

Aluminum Profile	Aluminum Fan Blade Profiles
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 & Casting Solutions

### Product Description

Aluminum is the preferred material for producing lightweight castings through low pressure casting processes. This method fills aluminum molds under low working pressure (0.06-0.15MPa) to achieve high-quality castings with excellent dimensional stability and surface finish.

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

### Technical Specifications

Parameter	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

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

### 17+ Years Experience

Extensive expertise in aluminum extrusion and manufacturing processes

### Complete Processing Capabilities

Comprehensive metal processing including extrusion, CNC machining, milling, turning, laser cutting, bending, and welding

### Quality Control

Strict process control ensures long-term stability and excellent product quality

### Global Export Experience

Regular exports to United States and European markets with established customer relationships

## 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 costs and improve performance

One-stop service model covering product design, mold customization, aluminum casting, extrusion profiling, precision machining, and surface treatment

Complete control over raw material composition and production process accuracy

## 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 radiators, industrial fan blades, motor enclosures, solar cell frames, and architectural applications.

### Anodizing

6 anodizing production lines producing uniform oxidation film thickness in silver, black, gold, champagne, and imitation steel colors. Strict quality control with comprehensive inspection procedures.



### Painting

4 powder spraying lines using Gema Switzerland nozzles with environmentally friendly paints featuring strong adhesion and durable color retention.

### CNC Machining

- 12 PRATIC machining centers for milling, drilling, and tapping of profiles up to 6 meters
- Fully automatic cutting machines from Wegoma for precise cutting with continuous material feeding
- 30 punching machines (50-100 ton capacity) for thick profiles over 5mm
- 10 stretch bending machines for precise arc and angle bending
- 10 milling machines for complex plane, bevel, and groove machining

### Packing & Shipping

Manual packaging with strict warehouse management procedures, organized storage sections, comprehensive transaction recording, and pre-delivery examination.

### 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 recognition and Jiangsu famous brand certificate
- 2012 - Established business relationships with Panasonic and LG
- 2015 - Became innovative producer and supplying partner for European clients
- 2017 - Developed new baseboard heater products
- 2019 - Cooperated with world's largest heater manufacturers as aluminum shell supplier
- 2023 - Expanding overseas distributor network for global market growth

### 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 Partnership

Collaboration with Nordic trailer giant featuring design analysis, optimization, and processing with advanced equipment to minimize production costs and enhance product performance.

#### School Furniture Project

Supplied aluminum legs for school desks through strong design capabilities and mature manufacturing techniques, supporting educational infrastructure development.



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