



## Precision Customized Auto Engine Cover Metal Alloy Aluminum Die Casting

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

- Alloy: Stainless Steel, Aluminum, Etc.
- Pressure Chamber Structure: Customized
- Surface Preparation: Polishing
- Dimension: Customized
- Material: Aluminum Alloy
- Tolerance Grade: 7
- Surface Treatment: Anodizing
- Casting Surface Quality: 12.5
- Production Capacity: 10000 Pieces/Year
- Casting Dimension Tolerance: CT7-CT8
- Casting Surface Roughness: Ra 12.5um
- Casting Weight Range: 0.1-100kg
- Max Linear Size: 1200mm



### More Images



## Product Description

### Precision Customized Auto Engine Cover Metal Alloy Aluminum 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                        | Aluminum Fan Blade Profiles    |
|---|--------------------------------|
| Aluminum Profile System                 |                                |
| Aluminum Extrusion Enclosure            |                                |
| LED Aluminum Extrusion Profiles         | Die Casting                    |
| 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 components, medical equipment, and various industrial applications.

#### 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 Standard</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 Type</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>Application</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  |

## Our Advantages

We export the majority of our customized products to the United States and Europe, building long-term relationships with regular customers through our extensive experience and ability to satisfy diverse requirements.

### 17+ Years Experience

Extensive manufacturing expertise in Aluminum Extrusion

### Strong Design Capability

Rapid extrusion, CNC machining, milling, and turning services

### Complete Processing

Comprehensive metal processing including laser cutting, CNC bending, and welding

### Quality Control

Strict manufacturing process control for long-term stability and excellent quality

## Technical Support

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, custom molds, 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 industrial profiles up to 600mm diameter for radiators, industrial fan blades, motor enclosures, solar cell frames, and architectural applications.

## Anodizing

6 anodizing production lines creating uniform oxidation films in silver, black, gold, champagne, and imitation steel colors. Strict quality control ensures consistent color and performance across batches.

## Painting

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

## CNC Machining

Advanced machining equipment including 12 PRATIC machining centers for complex profile processing, automatic cutting machines from Wegoma, 30 punching machines (50-100 ton capacity), bending machines, and milling machines for comprehensive metal fabrication services.

## Packing & Shipping

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

## Certifications

## Company History

- 2004:** Recognized Brand of the Building Industry Material Market
- 2006:** Product Exemption from Quality Surveillance Inspection Certificate & ISO9001
- 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 supply 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

As the main aluminum supplier for Africa's largest stadium (94,000 seats), we contributed to this major South African construction project that received unanimous praise upon completion.

### Lobster Trailers Partnership

Collaboration with Nordic trailer giant featuring design analysis and optimization by our professional R&D team, processed with advanced equipment to minimize production costs and enhance product performance.

### School Furniture Project

Supplied aluminum legs for school desks through local customer Dadn, leveraging strong design capabilities and mature techniques to support successful project bidding.

 **Hentec Industry Co.,Ltd**

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