



External Combustion Engine Housing Aluminum Investment Die Casting

Basic Information

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



Product Specification

- Material: Aluminum Alloy
- Casting Surface Quality: 12.5
- 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



More Images



Product Description

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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 and completing solidification under low working pressure (0.06 ~ 0.15MPa) to obtain high-quality castings.

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

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 12.5um
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	Ra0.8~6.3um
Max Travel Of Spindle	1800mm x 850mm x 700mm
Max Turning Diameter	1000mm
Material Standard	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 Type	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
Application	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

Our Advantages

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

- Over 17 years of 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

Our comprehensive technical support services include:

- Custom design of extruded profiles based on customer requirements with CAD drawings and 3D models
- Professional R&D team analysis and optimization of customer designs to reduce costs and improve performance
- One-stop service including product design, custom molds, aluminum bar melting, extrusion profiling, precision machining, and surface treatment

Factory Equipment Capabilities

Extrusion

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

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 paint featuring strong adhesion and color retention.

CNC Machining

Advanced machining equipment operated by experienced technicians ensures precision and quality:

12 PRATIC machining centers for milling, drilling, and tapping profiles up to 6 meters

Fully automatic Wegoma cutting machines for precise, efficient cutting

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 planes, bevels, and grooves

Packing & Shipping

Finished products are manually packaged and prepared for delivery. Strict warehouse management procedures ensure organized storage and thorough inspection before shipment.

Certifications

Company History

2004: Recognized brand of the building industry material market

2006: Certificate for product exemption from quality surveillance inspection and 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 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

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

Collaboration with this Nordic trailer giant involved our R&D team analyzing and improving designs, then processing with advanced equipment to minimize production costs and enhance product performance.

School Desk Project

Supplied aluminum legs for school desks, helping local customer Dadn win the school project bid through our strong design capabilities and mature manufacturing techniques.

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