



Gas Turbine Engine Housing Aluminum Investment Die Casting with Milling

Our Product Introduction

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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: Anodizing



More Images



Product Description

Gas Turbine Engine Housing Aluminum Investment Die Casting with Milling

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 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	Aluminum Composite Panel
Construction Aluminum Profile	
Aluminum Extrusion Tube	

Product Description

Aluminum is the primary material for producing lightweight castings through low pressure casting technology. This process involves filling aluminum molds with liquid alloy under low working pressure (0.06-0.15MPa) to achieve high-quality castings.

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

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 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

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
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

Company Advantages

With over 17 years of manufacturing experience in aluminum extrusion, we export customized products to the United States and Europe, building long-term relationships with our customers.

- Strong design capabilities with fast extrusion, CNC machining, milling, and turning services

- Complete metal processing facilities including stamping, laser cutting, CNC bending, and welding

- Comprehensive quality control throughout the manufacturing process for long-term stability and excellent quality

Technical Support

- Custom design services including CAD drawings and 3D models for customer confirmation

- Professional R&D team for design analysis and optimization to reduce production costs and improve performance

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

Factory Equipment

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, and solar cell frames.

Anodizing

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

Painting

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

CNC Machining

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

Packing & Shipping

Strict warehouse management with manual packaging and comprehensive inspection procedures before delivery.

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
- 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 project.

Lobster Trailers

Collaboration with Nordic trailer giant, providing design optimization and processing services 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 and mature technology.



 +86-13861643436  aluminum@hentec.com.cn  aluminumextrusion-profiles.com

Qinfeng Road No.555 Huashi Town Jiangyin Jiangsu China (mainland) 214421