



Rotary Engine Housing Pump Cylinder Shell Aluminum Die Casting

Basic Information

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



Product Specification

- Material: Aluminum Alloy
- Surface Treatment: Anodizing
- Casting Tolerance: CT7-CT8
- Surface Roughness: Ra 12.5um
- 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 Roughness: Ra0.8~6.3um
- Max Spindle Travel: 1800mmx850mmx700mm
- Max Turning Diameter: 1000mm
- Material Standards: GB, ASTM, AISI, DIN, BS, JIS, NF, AS, AAR
- Casting Process: High Pressure Die Casting (HPDC), Vertical Low Pressure Die Casting (LPDC), Precision Sand Casting, Lost Foam Casting,



More Images



Product Description

Rotary Engine Housing Pump Cylinder Shell 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 Overview

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.

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, where our customers have become regular clients. With over 17 years of manufacturing experience in aluminum extrusion, we can easily satisfy customers' needs.

- Over 17 years of manufacturing experience in Aluminum Extrusion
- Strong design and extrusion capabilities with fast 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

Design Assistance

We help design extruded profiles based on customer requirements, providing CAD drawings and 3D models for confirmation.

Design Optimization

Our professional R&D team analyzes and optimizes designs to reduce production costs and improve product performance.

One-Stop Service

Complete service from product design, mold customization, aluminum casting, extrusion profiling, precision machining to 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 can handle profiles up to 600mm diameter.

Anodizing

6 anodizing production lines creating uniform oxidation film thickness and color. Available in silver, black, gold, champagne, and imitation steel with custom colors available.

Painting

4 powder spraying lines using high-quality Gema Switzerland spray nozzles with safe, 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 from Wegoma, 30 punching machines (50-100 tons), bending machines, and milling machines.

Packing & Shipping

Strict warehouse management with manual packaging and comprehensive inspection 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 supplying aluminum shells
- 2023: Expanding overseas distributor network for win-win benefits

Notable Projects

Soccer City Stadium, Johannesburg

The 94,000-seat stadium, the largest capacity stadium in Africa. We participated as the main aluminum supplier for this major South African project.

Lobster Trailers

Cooperation with Nordic trailer giant. Our R&D team analyzed and improved designs, processing with excellent equipment to minimize costs and improve performance.

School Project

Supplied aluminum legs for school desks, helping local customer Dadn win school project bids with strong design and mature techniques.



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