



Engine Shell Spare Parts Aluminum Pressure Die Casting for Auto Parts

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
- Surface Treatment: Anodizing
- Tolerance Grade: 7
- Casting Surface Quality: 12.5
- 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



More Images



Product Description

Engine Shell Spare Parts Aluminum Pressure Die Casting

High-quality aluminum pressure die casting components specifically designed for automotive engine shell applications, providing lightweight and durable solutions for auto parts.

Manufacturing Capabilities

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

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 Technology

Aluminum is the preferred material for producing lightweight castings. Our low pressure casting process (0.06-0.15MPa working pressure) ensures liquid aluminum alloy fills molds completely and solidifies under controlled pressure for high-quality castings.

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

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 12.5um
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 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

Manufacturing Advantages

We export customized products worldwide, with extensive experience serving United States and European markets, building long-term customer relationships through consistent quality and service.

17+ years manufacturing experience in aluminum extrusion

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

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

Comprehensive quality control throughout manufacturing process

Technical Support Services

1. Complete design support including CAD drawings and 3D models for customer confirmation, custom mold development, and extrusion of aluminum profiles meeting specific requirements.
2. Professional R&D team analysis and optimization of customer designs to reduce production costs and enhance product performance.
3. One-stop service model covering product design, custom molds, aluminum bar melting, extrusion profiling, precision machining, and surface treatment with complete quality control.

Factory Equipment Capabilities

Extrusion

44 aluminum extrusion lines with PLC control systems, capable of producing commercial and industrial aluminum profiles up to 350mm outer diameter. Largest extruder: 6800 ton unit for profiles up to 600mm diameter.

Anodizing

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

Painting

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

CNC Machining

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

Packaging & Shipping

Manual packaging with strict warehouse management procedures, organized storage sections, comprehensive transaction recording, and pre-delivery inspection for quality assurance.

Quality Certifications

Company History & Milestones

- 2004: Recognized brand of building industry material market
- 2006: Product exemption from quality surveillance inspection certificate and ISO9001 certification
- 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 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, providing design optimization and precision processing to minimize production costs and enhance product performance.

School Furniture Project

Supplied aluminum legs for school desks, supporting local customer Dadn in winning school project bids through strong design and manufacturing capabilities.



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