Customized Dimensions Aluminum Die Casting Parts with CNC Machining and CT7 Tolerance Grade

Our Product Introduction

Basic Information

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

Product Specification

- Material: Aluminum Alloy
- Surface Preparation: Polishing
- Tolerance Grade: 7
- Surface Roughness: Ra 12.5um
- Casting Weight Range: 0.1-100kg
- Max Linear Size: 1200mm
- Max Diameter Size: 600mm
- Machining Precision: 0.008mm
- Repositioning Accuracy: 0.006mm
- Machining Surface Roughness: Ra0.8~6.3um
- Max Spindle Travel: 1800mmx850mmx700mm
- Max Turning Diameter: 1000mm
- Casting Process Type: High Pressure Die Casting (HPDC)
- Production Capacity: 10000 Pieces/Year

More Images

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Product Description

ODM Hardware Foundry Sand Gravity Parts Aluminum Die Casting

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 Range

Aluminum Profile	Die Casting
Aluminum Profile System Aluminum Extrusion Enclosure LED Aluminum Extrusion Profiles Aluminum Frame Customized Aluminum Profile Aluminum Heat Sink Electric Motor Housing Aluminum Profile Construction Aluminum Profile Aluminum Extrusion Tube	Die Casting LED Housing Stainless Steel Casting Aluminum Casting Aluminum Composite Panel

Aluminum Die Casting Process

Aluminum is the primary material for producing lightweight cast parts. Low pressure casting involves filling aluminum molds with liquid alloy under low 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

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

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

17+ years manufacturing experience in aluminum extrusion

Strong design and manufacturing capabilities with fast turnaround

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

Comprehensive quality control throughout manufacturing process

Regular exports to United States and Europe with established customer relationships

Technical Support Services

- Custom design services including CAD drawings and 3D models for extruded profiles
- Design analysis and optimization by professional R&D team to reduce costs and improve performance
- One-stop service from product design to surface treatment with full process control

Factory Equipment Capabilities

Extrusion: 44 aluminum extrusion lines with maximum outer diameter capacity of 350mm, including 6800 ton extruder for profiles up to 600mm diameter.

Anodizing: 6 anodizing production lines with uniform oxidation film thickness and color options including silver, black, gold, champagne, and imitation steel.

Painting: 4 powder spraying lines using Gema Switzerland nozzles with environmentally friendly, durable paint.

CNC Machining: Advanced equipment including 12 PRATIC machining centers, automatic cutting machines, 30 punching machines, and bending equipment for precise metal fabrication.

Quality Assurance & Packaging

Finished products undergo manual packaging and strict warehouse management with comprehensive inspection before delivery.

Certifications

Company History

- 2004: Recognized brand in building industry material market
- 2006: ISO9001 certification and product quality surveillance exemption
- 2009: Advanced company status and Jiangsu famous brand certification
- 2012: Established business relationships with Panasonic and LG
- 2015: Innovative producer and supplier for European clients
- 2017: Developed new baseboard heater products
- 2019: Supplier for world's largest heater manufacturers

2023: Expanding overseas distributor network

Notable Projects

Soccer City Stadium, Johannesburg: Main aluminum supplier for Africa's largest capacity stadium (94,000 seats).

Lobster Trailers: Collaboration with Nordic trailer giant featuring design optimization and advanced processing.

School Furniture Project: Supplier of aluminum legs for school desks with strong design and manufacturing capabilities.

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