



Customized Dimensions Aluminum Die Casting Auto Housing Spare Parts with CT7 Tolerance Grade and Ra 12.5um Surface Roughness

Our Product Introduction

for more products please visit us on aluminumextrusion-profiles.com

Basic Information

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



Product Specification

- Material: Aluminum Alloy
- Casting Tolerance: CT7-CT8
- Surface Roughness: Ra 12.5um
- Weight Range: 0.1-100kg
- Max Size: 1200mm (linear), 600mm (diameter)
- Machining Precision: 0.008mm (positioning), 0.006mm (repositioning)
- 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
- Surface Treatments: Electroplating, Chrome Plating, Zinc Plating, Nickel Plating, Electrophoresis, Anodization, Polishing, Powder Coating, Sandblasting, Passivation, Spray Painting
- Casting Processes: High Pressure Die Casting (HPDC), Vertical Low Pressure Die Casting (LPDC), Precision



More Images



Product Description

Custom Aluminum Die Sand Casting for Auto Housing

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

Product Portfolio

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

Aluminum Casting Technology

Aluminum is the preferred material for producing lightweight cast parts. Our low pressure casting process (0.06-0.15MPa working pressure) ensures high-quality castings by filling aluminum molds under controlled pressure during solidification.

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

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	Ra 0.8-6.3um
Max Travel Of Spindle	1800mm x 850mm x 700mm
Max Turning Diameter	1000mm

Material Standards	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
Services	OEM & ODM
Quality Control	0 defects, 100% inspection before packing
Applications	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

17+ Years Experience

Extensive expertise in aluminum extrusion, CNC machining, milling, and turning operations.

Complete Processing Capabilities

Comprehensive metal processing including stamping, laser cutting, CNC bending, and welding.

Quality Control

Strict process control ensures long-term stability and excellent product quality.

Global Export Experience

Regular exports to United States and Europe with proven customer satisfaction.

Technical Support Services

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

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

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

Complete control over raw material alloy composition and production process accuracy

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.

CNC Machining

- 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 various plane, bevel, and groove machining

Quality Assurance & Packaging

Manual packaging with strict warehouse management procedures. All products undergo thorough examination before delivery with comprehensive transaction recording.

Certifications

Notable Projects

Soccer City Stadium, Johannesburg

Main aluminum supplier for Africa's largest capacity stadium (94,000 seats).




Lobster Trailers

Collaboration with Nordic trailer manufacturer featuring design optimization and cost-effective production.

School Furniture Project

Supplier of aluminum legs for school desks, supporting local customer tender success.



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