



Customized Dimensions Aluminum Die Casting 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
- Tolerance Grade: 7
- Surface Roughness: Ra 12.5um
- Weight Range: 0.1-100kg
- Max Linear Size: 1200mm
- Max Diameter Size: 600mm
- Machining Precision: 0.008mm
- Reposition Accuracy: 0.006mm
- Machining Roughness: Ra0.8~6.3um
- Max Spindle Travel: 1800mmx850mmx700mm
- Max Turning Diameter: 1000mm
- Casting Process: High Pressure Die Casting
- Production Capacity: 10000 Pieces/Year
- Extruder Capacity: 6800 Ton
- Max Profile Diameter: 600mm



More Images



Product Description

Aluminum Casting & Industrial Profiles

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 Systems	Die Casting Solutions
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 (ACP)

Aluminum Casting Process

Aluminum is the primary material for producing lightweight parts through casting. Low pressure casting of aluminum alloy involves filling molds and solidifying 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	Specifications
Material	Aluminum Alloy, Carbon Steel, Alloy Steel, Stainless Steel
Process Flow	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 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
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
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

Company Advantages

17+ Years Experience

Extensive manufacturing expertise in aluminum extrusion with regular exports to US and European markets.

Advanced Design Capabilities

Strong R&D team for design, extrusion, CNC machining, milling, and turning with fast turnaround.

Complete Processing Facilities

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

Quality Assurance

Rigorous control throughout manufacturing process ensures long-term stability and excellent quality.

Technical Support Services

Custom design services for extruded profiles including CAD drawings and 3D models

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 complete quality control

Manufacturing Capabilities

Extrusion Facilities

44 aluminum extrusion lines with PLC control systems, including a 6800-ton extruder for profiles up to 600mm diameter. Custom mold production for complex structures.

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 paints.

CNC Machining

Advanced machining equipment including 12 PRATIC machining centers, automatic cutting machines, 30 punching machines, and bending equipment for precise manufacturing.

Quality Assurance & Packaging

Strict warehouse management with manual packaging and thorough inspection before delivery.

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 advanced processing.

Educational Furniture

Supplier of aluminum legs for school desks, supporting local customers in project bidding.



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