



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 (HPDC), Vertical Low Pressure Die Casting (LPDC), Precision Sand Casting, Lost Foam Casting, Investment Casting
- Surface Treatment: Electroplating, Chrome Plating, Zinc Plating,



More Images



Product Description

Black Powder Painting Outdoor Lighting Heatsink Street Lamp Aluminum Casting

Aluminum is the most frequently used material for producing lightweight parts through aluminum casting processes. Our low pressure casting technology ensures high-quality castings by filling aluminum molds and completing solidification under controlled low pressure conditions (0.06-0.15MPa).

Product 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

Our Manufacturing Advantages

With over 17 years of experience in aluminum extrusion manufacturing, we export customized products to the United States and Europe, building long-term partnerships with our clients.

Extensive experience in Aluminum Extrusion with 17+ years in the industry

Strong design capabilities for extrusion, CNC machining, milling, and turning

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

Comprehensive quality control throughout the manufacturing process

Technical Support Services

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

Professional R&D team for design analysis and optimization

One-stop service from product design to surface treatment

Quality control of raw material composition and production accuracy

Factory Equipment Capabilities

Extrusion

Equipped with 44 aluminum extrusion lines capable of producing commercial and industrial aluminum profiles up to 350mm outer diameter. Our largest 6800-ton extruder handles complex industrial profiles up to 600mm diameter for applications including radiators, industrial fan blades, motor enclosures, and solar cell frames.

Anodizing

Six anodizing production lines create uniform aluminum oxide layers for improved corrosion resistance, hardness, and wear resistance. Available in silver, black, gold, champagne, and imitation steel colors with custom options available.

Painting

Four powder spraying lines using high-quality Gema Switzerland spray nozzles with environmentally friendly, durable paint for strong adhesion and color retention.

CNC Machining

Advanced machining equipment operated by experienced technicians ensures precision and quality:

12 PRATIC machining centers for milling, drilling, and tapping of profiles up to 6 meters

Fully automatic Wegoma cutting machines for precise cutting with high efficiency

30 punching machines (50-100 tons capacity) for thick profiles over 5mm

10 stretch bending machines for precise arc and angle bending

10 milling machines for planes, bevels, and grooves

Packing & Shipping

Manual packaging with strict warehouse management procedures. All products are examined before delivery with comprehensive transaction recording.

Company History & Milestones

2004 - Recognized Brand of Building Industry Material Market

2006 - Product Quality Surveillance Exemption Certificate & ISO9001

2009 - Advanced Company & Jiangsu Famous Brand Certificate

2012 - Established partnerships with Panasonic and LG

2015 - Innovative producer and supply partner 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

As the main aluminum supplier for Africa's largest stadium (94,000 seats), we contributed to this major construction project that received unanimous praise upon completion.



Lobster Trailers

Partnership with Nordic trailer giant featuring design optimization and excellent processing to minimize production costs while improving product performance.




School Desk Project

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



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