



Customized Dimensions Aluminum Die Casting 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
- 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

Customized Hardware Accessories Aluminum Pressure Casting Parts

Aluminum is the preferred material for casting lightweight components. Our low pressure casting process ensures high-quality aluminum alloy parts by filling molds and completing solidification under controlled pressure (0.06-0.15MPa). These precision die casting parts serve various industries including hardware, automotive, machinery, and medical equipment.

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

17+ Years Experience

Extensive expertise in aluminum extrusion and manufacturing

Advanced Design Capabilities

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

Complete Processing Facilities

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

Quality Assurance

Strict control throughout manufacturing process for long-term stability and excellent quality

Technical Support Services

Complete Design & Production Support

- 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
- Raw material composition control and production process accuracy maintenance

Factory Equipment & Capabilities

Extrusion Facilities

Equipped with 44 aluminum extrusion lines with PLC control systems, 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, fan blades, motor enclosures, and solar cell frames.

Anodizing Department

6 anodizing production lines creating uniform oxidation films for enhanced corrosion resistance, hardness, and wear resistance. Available in silver, black, gold, champagne, and imitation steel colors with custom options. Strict quality control ensures consistent batch quality.

Painting Facilities

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

CNC Machining Center

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

- 12 PRATIC machining centers for multi-angle milling, drilling, and tapping of profiles up to 6 meters
- Fully automatic Wegoma cutting machines for precise, efficient cutting
- 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 various plane, bevel, and groove machining

Quality Assurance & Packaging

Manual packaging with strict warehouse management procedures. Comprehensive inspection before delivery with detailed transaction records and product examination.

Certifications

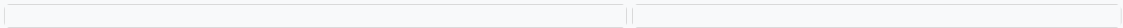
Company History & Milestones

- 2004 - Recognized brand of building industry material market
- 2006 - Product exemption from quality surveillance inspection & ISO9001 certification
- 2009 - Advanced company, Jiangsu famous brand, 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 win-win market benefits

Notable Projects

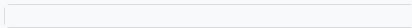
Soccer City Stadium, Johannesburg

Main aluminum supplier for Africa's largest capacity stadium (94,000 seats). Our aluminum components contributed to this major South African construction project.



Lobster Trailers Partnership

Collaboration with Nordic trailer giant featuring design optimization, excellent processing equipment, and advanced technology to minimize production costs while improving product performance.



Educational Furniture Supply

Supplied aluminum legs for school desks through local customer Dadn, supporting educational infrastructure projects with strong design capabilities and mature manufacturing techniques.



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