



Sandblasting Polished Industrial Machining Parts Aluminum Die Casting

Basic Information

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



Product Specification

- Material: Aluminum Alloy
- Surface Preparation: Polishing
- Casting Surface Quality: 12.5
- Casting Tolerance Grade: CT7-CT8
- Surface Roughness: Ra 12.5um
- Weight Range: 0.1-100kg
- Max Linear Size: 1200mm
- Max Diameter Size: 600mm
- Machining Precision: Positioning Accuracy 0.008mm, Rep. Position. Accuracy 0.006mm
- Machining Surface Roughness: Ra0.8~6.3um
- Max Travel: 1800mmx850mmx700mm
- Max Turning Diameter: 1000mm
- Material Standard: GB, ASTM, AISI, DIN, BS, JIS, NF, AS, AAR
- Surface Treatment: Electroplating, Chrome Plating, Zinc Plating



More Images



Product Description

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Metalplus specializes in aluminum industrial profile design and manufacturing with a production base of more than 100,000 square meters and annual capacity exceeding 100,000 tons.

Product Portfolio

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

Product Description

Aluminum is the most frequently used material for aluminum castings to produce lightweight parts. Low pressure casting of aluminum alloy involves filling the mold and completing solidification under low working pressure (0.06-0.15MPa) to obtain high-quality castings.

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

Specifications

Parameter	Details
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 12.5μm
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, 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 Advantages

We export the majority of our customized products to the United States and Europe, building long-term relationships with our customers through consistent quality and service.

- Over 17 years of manufacturing experience in Aluminum Extrusion
- Strong design capabilities with fast extrusion, CNC machining, milling, and turning services
- Complete metal processing facilities including stamping, laser cutting, CNC bending, and welding
- Comprehensive quality control throughout the manufacturing process for long-term stability and excellent quality

Technical Support

- Custom design services for extruded profiles with CAD drawings and 3D models
- Professional R&D team for design analysis and optimization to reduce production costs and improve performance
- One-stop service including product design, custom molds, aluminum bar melting, extrusion profiling, precision machining, and surface treatment

Factory Equipment

Extrusion

Equipped with 44 aluminum extrusion lines capable of producing commercial and industrial aluminum profiles with maximum outer diameter of 350mm. Our largest 6800-ton extruder handles complex industrial profiles up to 600mm diameter.

Anodizing

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

Painting

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

CNC Machining

Advanced machining equipment including 12 PRATIC machining centers for profiles up to 6 meters, automatic cutting machines from Wegoma, 30 punching machines (50-100 tons), bending machines, and milling machines for complex profile processing.

Packing & Shipping

Strict warehouse management with manual packaging and comprehensive quality examination before delivery.

Certifications

Company History

- 2004: Recognized brand of the building industry material market
- 2006: Certificate for product exemption from quality surveillance inspection and ISO9001 certification
- 2009: Advanced company, Jiangsu famous brand certificate, 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 benefits

Notable Projects

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

Lobster Trailers: Professional R&D team collaboration with Nordic trailer manufacturer for optimized designs and production

School Project: Supplied aluminum legs for school desks with strong design capabilities and mature technology



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