



Wheel Reductor Brake Drum Machinery Parts Aluminum Precision Die Casting

Basic Information

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



Product Specification

- Material: Aluminum Alloy
- 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, Rep. Position. Accuracy 0.006mm
- Machining Surface Roughness: Ra0.8~6.3um
- Max Travel Of Spindle: 1800mmx850mmx700mm
- Max Turning Diameter: 1000mm



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

Product Description

Aluminum is the most frequently used material for aluminum castings to produce lightweight parts. The basic principle of low pressure casting involves filling aluminum molds 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 components, medical equipment, and various industrial applications.

Technical 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 Type	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 regular customers. Our extensive experience enables us to easily satisfy diverse customer requirements.

17+ Years Experience

Extensive manufacturing experience in Aluminum Extrusion

Strong Design Capability

Expertise in extrusion, CNC machining, milling, and turning with fast turnaround

Complete Processing

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

Quality Control

Rigorous manufacturing process control 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 costs and improve performance

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

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. Our largest 6800-ton extruder handles complex industrial profiles up to 600mm diameter.

Anodizing

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

Painting

4 powder spraying lines using Gema Switzerland nozzles with safe, environmentally friendly paint featuring strong adhesion and durable color retention.

CNC Machining

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

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

Fully automatic Wegoma cutting machines for precise cutting with continuous material feeding

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 planes, bevels, and grooves

Packing & Shipping

Manual packaging with strict warehouse management procedures, organized storage sections, comprehensive transaction records, and pre-delivery examination.

Certifications

Company History

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 benefits

Notable Projects

Soccer City Stadium, Johannesburg

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


Lobster Trailers Partnership

Collaboration with Nordic trailer giant featuring professional R&D team design analysis, excellent processing equipment, and optimization proficiencies to minimize production costs while improving product performance.

School Furniture Project

Supplied aluminum legs for school desks, supporting local customer Dadn's successful school project bid through strong design capabilities and mature manufacturing techniques.

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