



Customized Dimensions Aluminum 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
- Casting Tolerance: CT7-CT8
- 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)
- Extrusion Capacity: 10000 Tons Annually
- Extrusion Lines: 44
- Max Extrusion Diameter: 350mm



More Images



Product Description

ODM Black Powder Paint CNC Milling Parts Aluminum Casting

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 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 with liquid aluminum alloy under low working pressure (0.06-0.15MPa) to obtain high-quality castings through controlled solidification.

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

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, where our customers have become regular clients. With extensive experience in this field, we can easily satisfy customers' needs.

Over 17 years of manufacturing experience in Aluminum Extrusion

Strong design capabilities and fast processing speeds for extrusion, CNC machining, milling, and turning

Complete metal processing capabilities 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 including CAD drawings and 3D models

Professional R&D team to analyze and optimize designs for cost reduction and performance improvement

One-stop service model covering product design, mold customization, 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 can handle profiles up to 600mm diameter for complex industrial applications including radiators, 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 nozzles with environmentally friendly, durable paints featuring strong adhesion and color retention.

CNC Machining

Advanced machining equipment including 12 PRATIC machining centers for complex profile processing, automatic Wegoma cutting machines, 30 punching machines (50-100 ton capacity), 10 stretch bending machines, and milling machines for various machining requirements.

Packing & Shipping

Finished products are manually packaged and ready for delivery. Strict warehouse management procedures ensure proper storage and quality verification before shipment.

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 as aluminum shell supplier

2023: Expanding overseas distributor network for win-win benefits

Project Portfolio

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


Collaboration with this Nordic trailer giant involved design analysis and optimization by our R&D team, processed with excellent equipment and technology to minimize production costs and improve product performance.

School Furniture Project

Supplied aluminum legs for school desks through strong design capabilities and mature technology, supporting customers in winning project tenders.



 +86-13861643436

 aluminum@hentec.com.cn

 aluminumextrusion-profiles.com

Qinfeng Road No.555 Huashi Town Jiangyin Jiangsu China (mainland) 214421