



CNC Machined Aluminum Die Casting Part with Customized Dimensions 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
- Repositioning Accuracy: 0.006mm
- Machining Roughness: Ra0.8~6.3um
- Max Spindle Travel: 1800mmx850mmx700mm
- Max Turning Diameter: 1000mm
- Casting Process: High Pressure Die Casting
- Production Capacity: 10000 Pieces/Year
- Extruder Capacity: 6800 Ton
- Max Profile Diameter: 600mm



More Images



Product Description

Electronic Solution CNC Processing Aluminum Die Casting Part

Aluminum is the most frequently used material for producing lightweight parts through aluminum castings. The fundamental principle of low pressure casting for aluminum alloys involves filling the aluminum mold with liquid aluminum alloy and completing the solidification process under low working pressure (0.06–0.15 MPa), resulting in high-quality castings.

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

Specification

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	0.1–100 kg
Casting Size	Max linear size: 1200 mm, Max diameter size: 600 mm
Machining Precision	Positioning accuracy 0.008 mm, Repeat positioning accuracy 0.006 mm
Machining Surface Roughness	Ra 0.8–6.3 μm
Max Travel Of Spindle	1800 mm × 850 mm × 700 mm
Max Turning Diameter	1000 mm
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, etc.
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 regulars. With over 17

years of manufacturing experience in the aluminum extrusion area, we can easily satisfy customers' needs.

Strong design and extrusion capabilities with fast-speed CNC machining, milling, and turning

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

Comprehensive control over all manufacturing steps to maintain long-term stability and excellent quality

Technical Support

Based on customer requirements, we assist in designing extruded profile appearances, provide CAD drawings and 3D models for confirmation, customize molds, and extrude aluminum profiles that meet specifications

For customers with design capabilities, our professional R&D team analyzes and optimizes designs using our extrusion processing experience to reduce production costs and improve product performance

Our "one-stop" service includes product design, custom molds, aluminum bar melting and casting, extrusion profiling, precision machining, and surface treatment, ensuring effective control over raw material composition and product accuracy

Factory Equipment

Extrusion: Equipped with 44 aluminum extrusion lines, we produce various commercial and industrial aluminum profiles with maximum outer diameters of 350 mm. Our largest extruder is a 6800-ton unit capable of producing industrial profiles up to 600 mm in diameter.

Anodizing: We operate 6 anodizing production lines that create uniform oxidation film thickness and color. Available colors include silver, black, gold, champagne, and imitation steel, with custom colors available upon request.

Painting: Our factory features 4 powder spraying lines using high-quality Gema Switzerland spray nozzles and environmentally friendly paint with strong adhesive force and durable color retention.

CNC Machining: Equipped with advanced machining equipment operated by experienced technicians following strict industrial standards.

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

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

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

10 stretch bending machines for precise arc and angle bending

10 milling machines for various planes, bevels, and grooves

Packing & Shipping: Finished products are manually packaged following strict warehouse management procedures with comprehensive recording and examination before delivery.

Company History

2004: "The Recognized Brand of the Building Industry Material Market"

2006: "Certificate for Product Exemption from Quality Surveillance Inspection" and "ISO9001"

2009: "Advanced Company", "Jiangsu Famous Brand Certificate", "Certificate for Credible Product of Quality in Jiangsu Province"

2012: Established business relationships with Panasonic and LG

2015: Became an 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

Project Highlights

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

Lobster Trailers: We proudly cooperate with this Nordic trailer giant, where our professional R&D team analyzes and improves designs, processing them with excellent equipment and technology to minimize production costs and enhance product performance.

School Desk Project: We supplied aluminum legs for school desks to our local customer Dadn, helping them win the school project bid with our strong design capabilities and mature technics.

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