



Precision Vane Wheel Actuator ADC12 Aluminum Die Casting with CNC Machining and CT7 Tolerance Grade

Our Product Introduction

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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 (HPDC)
- Production Capacity: 10000 Pieces/Year
- Extrusion Capacity: 100000 Tons Annually
- Max Extrusion Diameter: 600mm



More Images



Product Description

Precision Vane Wheel Actuator ADC12 Aluminum Die 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 Portfolio

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

Aluminum Die Casting Process

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 parts, medical equipment, and various industrial applications.

Technical Specifications

Parameter	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 12.5um
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
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

Manufacturing Advantages

- Over 17 years of manufacturing experience in aluminum extrusion
- Strong design capabilities with fast-speed extrusion, CNC machining, milling, and turning
- Complete metal processing capabilities including laser cutting, CNC bending, and welding
- Comprehensive quality control throughout the manufacturing process
- Regular export to United States and European markets with established customer relationships

Technical Support Services

- Custom design services for extruded profiles with CAD drawings and 3D models
- Design analysis and optimization by professional R&D team 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
- Complete control over raw material alloy composition and production process accuracy

Production Equipment Capabilities

Extrusion

44 aluminum extrusion lines with PLC control systems, capable of producing commercial and industrial aluminum profiles up to 350mm outer diameter. Largest extruder: 6800 ton unit for profiles up to 600mm diameter.

Anodizing

6 anodizing production lines creating uniform oxidation film thickness in colors including silver, black, gold, champagne, and imitation steel. Strict quality inspection ensures color consistency.

Painting

4 powder spraying lines using Gema Switzerland nozzles with environmentally friendly, durable paint 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.

Quality Assurance & Packaging

Finished products undergo manual packaging with strict warehouse management procedures. All transactions are recorded and products

examined before delivery to ensure quality standards.

Certifications

Company History & Milestones

- 2004: Recognized brand of building industry material market
- 2006: Certificate for product exemption from quality surveillance inspection & ISO9001
- 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 market benefits

Notable Projects

Soccer City Stadium, Johannesburg: Main aluminum supplier for Africa's largest capacity stadium (94,000 seats), contributing to this major South African infrastructure project.

Lobster Trailers: Collaboration with Nordic trailer giant, providing design optimization and processing expertise to minimize production costs and enhance product performance.

School Furniture Project: Supplied aluminum legs for school desks, supporting local customer Dadn in successful project bidding through strong design and manufacturing capabilities.



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