Customized Dimensions CNC Machining Aluminum Alloy Pump Body Industrial Cylinder Casting

Our Product Introduction

Basic Information

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

Product Specification

- Material: Aluminum Alloy
- Tolerance Grade: 7
- Surface Quality: 12.5
- Processing Method: Pressure Casting
- Production Capacity: 10000 Pieces/Year
- Alloy Types: 6063, 6061, 6082, 6005
- Temper Options: T5, T6
- Tensile Strength: 160-265Mpa
- Yield Strength: 110-245Mpa
- Elongation: ≥ 8%
- Surface Treatment: Anodized, Powder Coated, Electrophoresis
- Extruder Capacity: 6800 Ton
- Max Profile Diameter: 600mm
- CNC Machining: 12 PRATIC Centers
- Punching Pressure: 50-100 Tons

More Images

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Product Description

OEM Custom Pump Body Industrial Cylinder Aluminum Casting

Product Specifications

Material: Aluminum alloy 6063, 6061, 6061, 6082, 6005 or custom requirements

Temper: T5, T6

Quality Standard: GB5237-2008

Surface Treatment: Mill finish, anodized, powder coated, electrophoresis, sand blasting, PVDF coating, wood grain painting, matted, polishing bright

Available Colors: Silver, Bronze, Champagne, Matte, Natural for anodizing, RAL for powder coating

Packing: Protected film inside and shrinking film outside

Samples: Two weeks after receiving mold fee

Delivery: 20 days after deposit

Production Capacity: 100,000 tons/year

MOQ: 1 TON

Payment Terms: T/T, L/C at sight

Port: Shanghai Port

Equipment: 17 press extruders

Services: OEM & ODM available

Manufacturing Process

Die design → Die making → Extruding → Cutting → CNC Machining → Surface treatment → Packing

Our Advantages

17+ years of aluminum extrusion manufacturing experience

Strong design and manufacturing capabilities for extrusion, CNC machining, milling, and turning

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

Rigorous quality control throughout the manufacturing process

Extensive export experience to United States and European markets

Product Parameters

Chemical Composition

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Impurity	Al
6063	0.2-0.6	0.35	0.1	0.1	0.45-0.9	0.1	0.1	0.1	0.15	Rest
6061	0.4-0.8	0.7	0.15-0.4	0.15	0.8-1.2	0.04-0.35	0.25	0.15	0.15	Rest
6060	0.3-0.6	0.1-0.3	0.1	0.1	0.35-0.6	-	0.15	0.1	0.15	Rest
6005	0.6-0.9	0.35	0.1	0.1	0.40-0.6	0.1	0.1	0.1	0.15	Rest

Mechanical Properties

Alloy	Temper	Tensile Strength	Yield Strength	Elongation
6063	T5	≥ 160MPa	≥ 110MPa	≥ 8%
6063	T6	≥ 205MPa	≥ 180MPa	≥ 8%
6061	T6	≥ 265MPa	≥ 245MPa	≥ 8%

Technical Support

Custom design services including CAD drawings and 3D models

Professional R&D team for design analysis and optimization

One-stop service from product design to surface treatment

Complete quality control throughout production process

Factory Equipment

Extrusion

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

Anodizing

6 anodizing production lines producing uniform oxidation film thickness with various color options including silver, black, gold, champagne, and imitation steel.

Painting

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

CNC Machining

Advanced machining equipment including 12 PRATIC machining centers, automatic cutting machines, 30 punching machines, and bending equipment for precision manufacturing.

Packing & Shipping

Strict warehouse management with manual packaging and quality inspection before delivery.

Certifications

Company History

2004: Recognized brand of building industry material market

2006: ISO9001 certification and product quality surveillance exemption

2009: Advanced company, Jiangsu famous brand, credible product quality certificate

2012: Established business relationships with Panasonic and LG

2015: Innovative producer and supplying partner for European clients

2017: Developed new baseboard heater products

2019: Supplier for world's largest heater manufacturers

2023: Expanding overseas distributor network

Notable Projects

Soccer City Stadium, Johannesburg

Main aluminum supplier for Africa's largest capacity stadium (94,000 seats).

Lobster Trailers

Collaboration with Nordic trailer giant, providing design optimization and manufacturing services.

School Desk Project

Supplied aluminum legs for school desks, supporting local customer tender success.

HENTEC Hentec Industry Co.,Ltd

+86-13861643436 aluminum@hentec.com.cn aluminumextrusion-profiles.com

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