



Customized Dimensions Round LED Lighting Housing Aluminum Casting Shell with CNC Machining and Polished Surface

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
- Surface Preparation: Polishing
- Pressure Chamber: Customized
- Tolerance Grade: 7
- Surface Quality: 12.5
- Processing Method: Pressure Casting
- Production Capacity: 10000 Pieces/Year
- Alloy Options: 6063, 6061, 6060, 6005, 6082
- Temper Options: T5, T6
- Tensile Strength: 160-265Mpa
- Yield Strength: 110-245Mpa
- Elongation: $\geq 8\%$
- Extrusion Capacity: 350mm Max Diameter
- Machining Equipment: 12 PRATIC Centers
- Anodizing Lines: 6 Production Lines



More Images



Product Description

Round LED Venue Lighting Housing Aluminum Casting Precision Shell

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 Specifications

Material: Aluminum alloy 6063, 6061, 6061, 6082, 6005 or according to requirement
 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
 Color available: Silver, Bronze, champagne, Matte, Natural for anodizing, RAL for powder coating
 Packing details: Protected film inside and shrinking film outside
 Samples time: 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
 17 press extruder capacity
 OEM & ODM service available

Manufacturing Process

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

Company Advantages

- Over 17 years of manufacturing experience in aluminum extrusion
- Strong design, extrusion, CNC machining, milling, and turning capabilities
- Complete metal processing machines including laser cutting, CNC bending, and welding
- Comprehensive quality control throughout manufacturing process
- Regular exports to United States and Europe with established customer base

Material 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
Quality control throughout production process
Cost reduction and performance improvement through design optimization

Production Capabilities

Extrusion

44 aluminum extrusion lines with maximum outer diameter of 350mm, including 6800 ton unit for profiles up to 600mm diameter.

Anodizing

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

Painting

4 powder spraying lines using high-quality Gema Switzerland spray 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.

Quality Assurance & Packaging

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

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 featuring design optimization and advanced processing.

Dadn School Project

Supplier of aluminum legs for school desks with strong design and manufacturing capabilities.



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