



Customized Dimensions LED Heat Sink with CNC Machining and Corrosion Resistant Aluminum Casting for Power Electronics Cooling

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 Quality: 12.5
- Process: Hpdc
- Production Capacity: 10000 Pieces/Year
- Alloy Composition: 6063, 6061, 6082, 6005
- Temper: T5, T6
- Tensile Strength: 160-265Mpa
- Yield Strength: 110-245Mpa
- Elongation: $\geq 8\%$
- Surface Treatment: Anodized, Powder Coated
- Max Extrusion Diameter: 350mm
- Extrusion Press: 6800 Ton
- CNC Machining: PRATIC Centers
- Punching Pressure: 50-100 Tons



More Images



Product Description

Venue Lighting Shell LED Heat Sink Aluminum Casting Power Electronics Cooling

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	Die Casting	Other Products
Aluminum Profile System	Die Casting Led Housing	Aluminum Composite Panel
Aluminum Extrusion Enclosure	Stainless Steel Casting	
LED Aluminum Extrusion Profiles	Aluminum Casting	
Aluminum Frame		
Customized Aluminum Profile		
Aluminum Heat Sink		
Electric Motor Housing Aluminum profile		
Construction Aluminum Profile		
Aluminum Extrusion Tube		

Product Specifications

Material

Aluminium alloy 6063, 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

Production Capacity

100,000 tons/year

MOQ

1 TON

Manufacturing Process

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

Product Advantages

- Superior heat dissipation function maintains optimal temperature during continuous operation
- Lightweight design for easier mechanical transportation and installation
- Excellent product plasticity with better ductility than steel and cast iron
- Vibration reduction and low noise operation
- Waterproof, dustproof, and corrosion resistant properties
- Energy efficient with high performance and long service life
- Environmentally friendly product

Material Specifications

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
- Quality control throughout the entire production process

Production Capabilities

Extrusion

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

Anodizing

6 anodizing production lines providing uniform oxidation film thickness in various colors including silver, black, gold, champagne, and imitation steel.

Painting

4 powder spraying lines using high-quality 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 precise profile processing.

Packing & Shipping

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

Certifications



Company History

- 2004: 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, and 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
- 2023: Expanding overseas distribution network

Notable Projects

Soccer City Stadium, Johannesburg

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



Lobster Trailers

Collaboration with Nordic trailer giant, providing design optimization and precision processing.

School Furniture Project

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



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