

Custom Aluminum Extrusion Heatsink for Dehumidifier 6063

Our Product Introduction

for more products please visit us on aluminumextrusion-profiles.com

Basic Information

- Certification: ISO
- Minimum Order Quantity: 200
- Price: 1.98

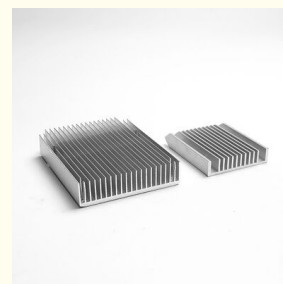


Product Specification

- Alloy Grade: 6063
- Temper: T3-T8
- Surface Finishing: Anodic Oxidation
- Shape: Square
- Wall Thickness: > 0.9mm
- Section Size: Square: $\leq 150 \times 150\text{mm}$; Rectangle: $\leq 250 \times 50\text{mm}$; Round: $\leq \varnothing 170\text{mm}$
- Length Tolerance: $\pm 0.2\text{mm}$
- Hole Tolerance: $\pm 0.05\text{mm}$
- Tensile Strength: $\geq 160\text{Mpa}$ (T5); $\geq 205\text{Mpa}$ (T6)
- Yield Strength: $\geq 110\text{Mpa}$ (T5); $\geq 180\text{Mpa}$ (T6)
- Elongation: $\geq 8\%$
- Max Outer Diameter: 350mm
- Max Profile Diameter: 600mm
- Package Size: 120.00cm * 50.00cm * 50.00cm



More Images



Product Description

MetalPlus specializes in the design and manufacture of custom aluminum industrial profiles, including CNC-milled, anodized extrusion heatsinks for dehumidifiers and other thermal-management applications. Our production base covers more than 100,000 square meters with an annual capacity exceeding 100,000 tons, supporting everything from die design to precision machining and surface finishing.

Product Range & Capabilities

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

Product Specifications

Product	Aluminum Heat Sink
Material	6063, 6061, 6005, 6082
Temper	T4 / T5 / T6 / T66
Surface Treatment	Powder coating in RAL colors, anodizing (AA10/15/20/25), sandblasting, brushing, passivation, silk screen, mechanical/chemical polishing, wood grain coating / wood transfer, galvanizing, (nickel/tin/chrome/copper) plating, PVDF, matt finish, and more
Shape	Flat / Square / Round / Hollow / Oval / Triangle; U type / L type / T type / H type
Deep Process	Aluminum profile extruding, precision milling, cutting, punching, bending, tapping, drilling, CNC lathe machining, etc. Tolerance: length $\pm 0.2\text{mm}$, holes $\pm 0.05\text{mm}$
Wall Thickness	> 0.9mm
Section Size	Square: $\leq 150 \times 150\text{mm}$; Rectangle: $\leq 250 \times 50\text{mm}$; Round: $\leq \varnothing 170\text{mm}$
Package	Inner: plastic paper / PE paper interleaving each piece; Outer: fixed by plywood or pallets with shipping mark; or as required
Delivery Time	15–25 days after deposit

Production Process

Die Design

Die Making

Extruding

Cutting

CNC Machining

Surface Treatment

Packing

Custom 6063 aluminum extrusion heatsink profile for dehumidifier

CNC milled aluminum heatsink extrusion with anodized finish

Aluminum heat sink extrusion profile cross-section detail

Anodized aluminum heatsink extrusion for dehumidifier cooling system

Custom aluminum extrusion heatsink batch ready for machining

Advantages of Aluminum Extrusion Heatsinks

Superior heat dissipation: Aluminum alloy outperforms many materials in thermal conductivity. The heatsink casing keeps motor and dehumidifier temperatures within a stable range during continuous operation, thanks to aluminum's high thermal solubility.

- Lightweight construction:** Extruded aluminum profiles are significantly lighter than steel or cast iron, making mechanical transport and installation easier and reducing the overall weight of the finished unit.
- Excellent formability:** The ductility and plasticity of aluminum alloys far exceed those of steel and cast iron, enabling complex profile geometries.
- Reliable performance:** Light weight, low vibration and low noise, combined with waterproof, dustproof and corrosion-resistant characteristics.
- Energy efficient and durable:** High performance, high efficiency and a long service life in an environmentally friendly product.

Product Parameters

1) 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

2) Mechanical Properties

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

Technical Support

- Custom design support:** Based on your requirements, we help design the appearance of extruded profiles, provide CAD drawings and 3D models for confirmation, customize the molds, and extrude aluminum profiles that meet your specifications.
- Design optimization:** For customers with in-house design capabilities, our professional R&D team analyzes and optimizes your drawings using our extrusion processing experience, applying the most reasonable design to reduce production costs and improve product performance.
- One-stop service:** Our integrated service and production model covers product design, customized molds, aluminum bar melting and casting, extrusion profiling, precision machining, and surface treatment. We effectively control the alloy composition of raw materials and maintain product accuracy throughout production.

MetalPlus technical team reviewing aluminum extrusion heatsink CAD drawings

Factory Equipment

Extrusion

- Equipped with 44 aluminum extrusion lines, MetalPlus produces commercial and industrial aluminum profiles with a maximum outer diameter of 350mm. Each line features PLC control systems and precision molds. The largest extruder in our factory is a 6,800-ton unit, used for industrial profiles in various shapes with a maximum diameter of 600mm. This capability allows us to satisfy the diverse requirements of our customers, including radiators, industrial fan blades, motor enclosures, solar cell frames, doors, and windows.
- MetalPlus can produce custom molds according to customer requirements. Our in-house R&D team has the ability and experience to produce aluminum profiles with complex structures, and we provide reasonable suggestions to help customers create superior products at affordable prices.
- Aluminum extrusion production line with PLC-controlled extruders at MetalPlus factory
- Anodizing**
- Anodizing forms a layer of aluminum oxide on the surface of aluminum alloy products when they are placed in an electrolyte solution and an electrical current is applied. Oxidized aluminum profiles feature improved corrosion resistance, allowing the surface to withstand various weather conditions, while the aluminum oxide layer also increases hardness and wear resistance. MetalPlus operates 6 anodizing production lines. Profiles processed in our lines feature uniform oxidation film thickness and color for a beautiful appearance. Available colors include silver, black,

gold, champagne, and imitation steel, with other colors customized upon request.

All anodized products are inspected by highly trained professional inspectors. Defective products that cannot be re-processed are directly scrapped, and products with uneven color are de-coated and re-anodized until they meet requirements — ensuring no color difference between batches.

Anodized aluminum extrusion heatsink profiles in silver and black finishes
Anodizing production line for aluminum extrusion profiles

Painting

Our factory is equipped with 4 powder spraying lines, all using high-quality spray nozzles from Gema Switzerland. MetalPlus uses only safe, environmentally friendly paint with strong adhesive force and durable color retention.

CNC Machining

MetalPlus is equipped with highly advanced machining equipment, and all fine machining processes are performed by technicians with extensive industry experience. Strict industrial standards are applied throughout production to ensure fine machining precision and product quality.

12 PRATIC machining centers for milling, drilling, or tapping profiles from different angles — especially suitable for long profiles up to 6 meters, enabling complex profile machining with the simplest methods.

Fully automatic Wegoma cutting machines for precise cutting with automatic and continuous material feeding, delivering low labor cost and high production efficiency — our cutting price is significantly lower than that of other enterprises in the industry.

30 punching machines with punching pressure ranging from 50 to 100 tons, suitable for relatively thick profiles over 5mm.

10 stretch bending / bending machines for bending profiles to arcs or different angles with highly precise machining angles.

10 milling machines for machining different planes, bevels, or grooves to satisfy diverse customer requirements.

CNC machining center milling aluminum extrusion heatsink profiles
Automatic cutting machine processing long aluminum profiles
Punching and bending equipment for aluminum extrusion profiles

Packing & Shipping

Packaged aluminum extrusion heatsinks on pallets ready for shipping

Finished products are packaged manually and prepared for delivery. MetalPlus follows strict warehouse management procedures: the finished product warehouse is divided into sections to store specific products, all in-and-out transactions are recorded, and each product is examined before delivery.

Certifications

MetalPlus quality certifications and ISO9001 certificates for aluminum extrusion

Company History

- 2004** — Recognized Brand of the Building Industry Material Market
- 2006** — Certificate for Product Exemption from Quality Surveillance Inspection; 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 the world's largest heater manufacturers, supplying aluminum shells and earning a strong reputation
- 2023** — Expanding overseas distributors to grow the market for win-win benefits

Project References

Soccer City Stadium in Johannesburg, South Africa, aluminum profile project

The Soccer City Stadium in Johannesburg is one of South Africa's major projects — a 94,000-seat stadium and the largest-capacity stadium in Africa. We are honored to have participated in its construction as the main supplier of aluminum. The stadium won unanimous praise after it was built.

Lobster Trailers aluminum profile components for Nordic trailer manufacturer

Lobster Trailers is a Nordic trailer giant, and we are proud to cooperate with them. Our professional R&D team analyzes and improves upon Lobster's designs, then processes them with our excellent processing equipment and exquisite technology. Our optimization expertise helps minimize production costs and improve product performance.

Aluminum legs for school desks supplied for local school project

We are glad that our local customer Dadn won the bid for a school project, for which we supplied the aluminum legs of the school desks. With our strong design capabilities and mature techniques, we help more customers win tenders.



 +86-13861643436

 aluminum@hentec.com.cn

 aluminumextrusion-profiles.com

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