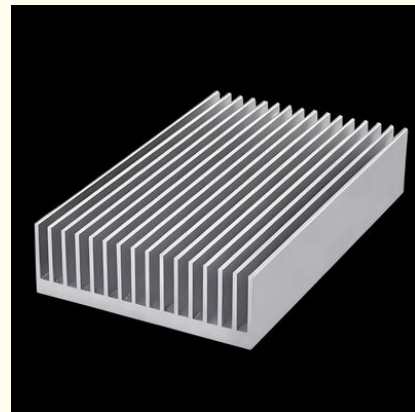


Custom Aluminum Skived Fin Heat Sink Aluminum Cooling Fin

Basic Information

- Certification: RoHS, ISO, CCC
- Minimum Order Quantity: 500
- Price: 1.99

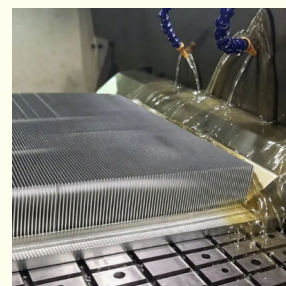
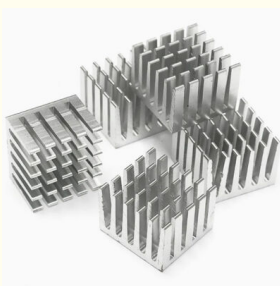


Product Specification

- Material: 6000 Series Aluminum (6063/6061/6060/6005)
- Temper: T4, T5, T6, T66
- Fin Type: Integrated Skived Fin
- Shape: Round
- Surface Treatment: Anodizing
- Process: CNC Machining & Skiving
- Tensile Strength: $\geq 160-265$ MPa
- Yield Strength: $\geq 110-245$ MPa
- Elongation: $\geq 8\%$
- Package Size: 45.00cm x 45.00cm x 45.00cm
- Gross Weight: 15.000 Kg
- Max Profile Diameter: 600 Mm
- Extrusion Lines: 44
- Anodizing Lines: 6



More Images



Product Description

Custom Aluminum Skived Fin Heat Sink Overview

Custom CNC machined aluminum skived fin heat sinks engineered for high-performance electronics cooling. As a professional aluminum manufacturer, we deliver skived fin heatsinks with thin, dense, integrated fins and excellent thermal conductivity. Custom sizes, fin geometries, and surface finishes are available to match your exact thermal management requirements.

Our skived fin heat sinks are manufactured in our own factory from high thermal conductivity 6000-series aluminum. The skived fin process produces thin, dense fins that are integral to the base material — eliminating bonding gaps and delivering superior heat dissipation for demanding electronic equipment. We support fully customized dimensions, surface treatments, and CNC precision machining. MetalPlus supplies reliable skived fin heat sinks for industrial electronics, power modules, amplifiers, and other thermal management projects. Contact us with your drawings for a quotation.

Product Specifications

Product Name	Aluminium / Aluminum Heat Sink (ISO 9001:2015, TS16949:2016)
Material	6000 Series aluminium — T4, T5, T6, T66
Color	Multiple colors available to suit your requirements
Shape & Size	Manufactured according to customer technical drawings
Surface Finish	Profile extrusion, cutting, deburring, CNC processing, stamping (drilling, tapping, chamfering, milling), brushing, sandblasting, soda boiling, polishing; surface treatment (anodizing, painting, e-coating, nickel plating); 100% inspection (function and cosmetic); assembly and packaging
Deep Processing	Cutting, punching, milling, drilling, welding, CNC machining
Applications	Computers, data servers, new energy vehicles, SVG/SVC/APF, frequency converters, inverters, charging devices, welding machines, welding controllers, power supplies (induction heating, rectifier, inverter, electroplating, SMPS, laser), power regulators, soft starters, broadcast communication (base stations, signal shielding broadcast transmitters, power amplifiers), and other electronics
One-Stop Service	Customized aluminum extrusion heat sink and machining solution — from mold design and mold making, profile extrusion, machining, thermal resistance testing, thermal imaging, and power dissipation design optimization through to finished heat sinks, all completed in-house to shorten supply cycles and improve product quality

Technical Support & Custom Development Process

Our company employs more than 600 staff, including 50 R&D and structural design personnel, enabling us to prepare initial design drawings and heat sink specifications within the shortest possible time. Once the design is signed off, quotation and actual lead time are confirmed to the client.

We then move to the sample stage: MetalPlus extrudes the profiles and CNC machines a sample for testing. Once approved, the prototype is sent to the client. After prototype confirmation, production proceeds. This is the most cost-effective customization method for achieving high heat sink performance.

Application Areas

Anyone familiar with electronic products knows that heat dissipation is a critical concern in devices such as graphics cards, CPUs, and chassis power supplies — all of which use aluminum alloy electronic radiators. These represent only the everyday consumer applications.

Beyond consumer electronics, many industrial high-power devices rely on electronic radiators. Key applications for high-power electronic heat sinks include: audio equipment, UPS power supplies, EPS power supplies, inverters, transformers, monocrystalline and polycrystalline silicon, battery packs, new energy electronic controllers, charging piles, inverter power supplies, switching power supplies, IP power supplies, welding machines, communication transmitters, base stations, control cabinets, power regulators, and thyristors.

Company Advantages

ISO 9001:2008 certified quality management system

Extrusion machines, powder painting line, anodizing line, wire-cut EDM machine, CNC, milling, turning, and grinding equipment

Advanced equipment and an excellent R&D team

Professional designers and experienced production workers

Strict quality control system throughout production

Highly skilled manufacturing processes

Primary Technical Data

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%

Engineering & Design Support

Based on customer requirements, we help design the appearance of extruded profiles, provide CAD drawings and 3D models for confirmation, customize molds, and extrude aluminum profiles that meet the customer's specifications.

For customers with in-house design capabilities, our professional R&D team analyzes and optimizes the design based on customer drawings and our extrusion processing experience — using the most reasonable design to reduce production costs and improve product performance.

Our "one-stop" service and production model covers product design, customized molds, aluminum bar melting and casting, extrusion profiling, precision machining, and surface treatment. This allows us to effectively control the alloy composition of raw materials and maintain product accuracy throughout production, delivering high-quality products.



Factory Equipment & Manufacturing Capabilities

Extrusion

Equipped with 44 aluminum extrusion lines, MetalPlus produces commercial and industrial aluminum profiles with a maximum outer diameter of 350 mm. All lines feature PLC control systems and precision molds. The largest extruder in the factory is a 6,800-ton unit, used for industrial profiles in various shapes with a maximum diameter of 600 mm — allowing us to satisfy the diverse requirements of our customers. Products include radiators, industrial fan blades, motor enclosures, solar cell frames, doors, and windows.

MetalPlus can produce custom molds according to customer requirements and has the ability and experience to manufacture aluminum profiles with complex structures. Our in-house R&D team provides reasonable suggestions to help customers create superior products at affordable prices.



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. Anodized aluminum profiles feature improved corrosion resistance, allowing the surface to withstand various weather conditions. The aluminum oxide layer also increases hardness and wear resistance. MetalPlus operates 6 anodizing production lines. Profiles processed in our lines feature uniform oxide film thickness and color for a beautiful appearance. Available colors include silver, black, gold, champagne, and imitation steel; other colors can be customized upon request.

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

Anodized aluminum heat sink profiles with uniform oxide film and color finish

Anodizing production line for aluminum heat sink surface treatment

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, and tapping of profiles from different angles — especially suitable for long profiles up to 6 meters, enabling machining of complex profiles with the simplest methods.

Fully automatic cutting machines from Wegoma for precise cutting with automatic and continuous material feeding — low labor cost and high

production efficiency, resulting in cutting prices significantly lower than industry peers.

30 punching machines with punching pressure from 50 to 100 tons, suitable for relatively thick profiles over 5 mm. Also 10 stretch bending / bending machines for bending profiles to arcs or different angles with high angular precision, plus 10 milling machines for machining different planes, bevels, or grooves to meet diverse customer requirements.

- CNC machining center processing aluminum heat sink profiles with precision milling and drilling
- Automatic cutting machine for precise aluminum profile cutting in heat sink production
- Punching and bending equipment used in aluminum heat sink manufacturing

Packing & Shipping



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

Certifications



Company History & Milestones

- 2004 — Recognized Brand of the Building Industry Material Market
- 2006 — Certificate for Product Exemption from Quality Surveillance Inspection; ISO 9001 certification
- 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 a German client
- 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 distributor network to grow the market for win-win benefits

Featured Projects



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



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 equipment and refined technology. We minimize production costs and improve product performance through our optimization expertise.



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