

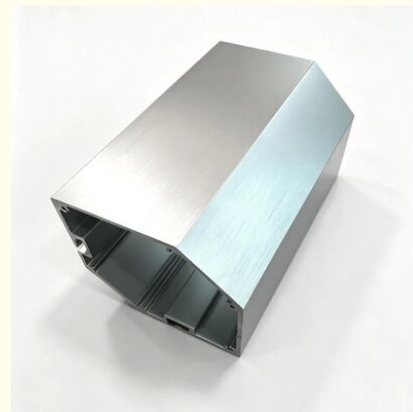
Perfect Surface Large Custom-Shaped Audio Columns

Our Product Introduction

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

Basic Information

- Certification: SONCAP, ISO, RoHS, TUV
- Minimum Order Quantity: 500
- Price: 1

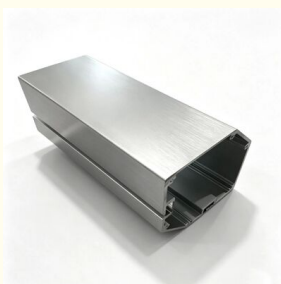


Product Specification

- Alloy Grade: 6063, 6061, 6060, 6005, 6082
- Temper: T3-T8 (T4, T5, T6, T66)
- Surface Treatment: Anodizing, Electrophoresis, Powder Coating, PVDF Coating, Wood Grain Painting
- Profile Shape: Square
- Length Tolerance: 0.2mm
- Hole Tolerance: 0.05mm
- Max Outer Diameter: 600mm
- Tensile Strength: $\geq 160\text{MPa}$ (6063-T5), $\geq 205\text{MPa}$ (6063-T6), $\geq 265\text{MPa}$ (6061-T6)
- Yield Strength: $\geq 110\text{MPa}$ (6063-T5), $\geq 180\text{MPa}$ (6063-T6), $\geq 245\text{MPa}$ (6061-T6)
- Elongation: $\geq 8\%$
- Package Dimensions: 30cm x 50cm x 50cm
- Package Gross Weight: 15.000kg
- Extrusion Lines: 44



More Images



Product Description

Custom-Shaped Aluminum Audio Columns — Precision Extrusion & CNC Manufacturing

MetalPlus manufactures a comprehensive range of high-quality, customized standardized enclosures for the electronics and industrial sectors. Our portfolio includes aluminum profile housings, die-cast aluminum boxes, standard aluminum chassis, rack-mount housings, and CNC precision-machined parts.

A core advantage of our offering is the custom aluminum profile housing. Using state-of-the-art CNC processing equipment, we manufacture enclosures to each customer's exact specifications and deliver finished products on time, every time.

Product Specifications

Item	Aluminum Extrusions for Electronics
Material	Alloy 6063, 6061, 6060, 6005, 6082, or according to customer's choice
Temper	T4, T5, T6, T66
Surface Finish	Anodize (clear, satin, bronze, black, golden, silver, other multicolor), electrophoresis, powder coating, PVDF coating, wood grain painting, etc.
MOQ	1 ton. Usually 12 tons for a 20-foot container; 24 tons for a 40-foot container.
Profile Type	Industrial aluminum profiles used in machinery, trailers, electronics, medical, and other industrial fields
Processing	Aluminum profile extruding, precise cutting, straight rectification, bending, drilling, tapping, stamping, pulling, CNC milling, CNC lathe. For precision machining and cutting, length tolerance can be 0.2 mm and hole tolerance can be 0.05 mm.
Moulding	1. Using our existing moulds; 2. Producing new moulds according to customer's drawing
Certificate	ISO14001:2004, ISO9001:2000, RoHS, SGS
Standard	Meets China national standard GB/T6892-2006, Europe standard EN12020-1,2 (2001), and American standard AAMA611-98
FOB Port	Shanghai, etc.

Product Components

S/N	Part Name	Qty	Material
1	Extrusion profile	1	AL6063
2	Front and rear panels	2	AL
3	Screws	4/8	SS

Design Features & Specifications

Aluminum top and bottom plates combined with an aluminum case design — suitable for rail transit, new energy, power equipment, meteorological testing, marine monitoring, and other application fields.

The extruded aluminum frame and die-cast aluminum panels make the enclosure extremely suitable for hostile environments where waterproofing and heat dissipation are essential.

PCBs or chassis can be mounted by sliding horizontally into the inner-grooved body frame.

Suitable for measuring instruments, industrial control boxes, industrial camera housings, WiFi outdoor access points, and outdoor IoT gateways.

Our Advantages

Engineering design and technical support.

Deep processing of aluminum profiles: cutting, punching, drilling, milling, and fabricating.

High-quality management system with strict in-process inspection and full inspection before packaging.

Reliable performance backed by a 15-year product warranty.

OEM or ODM welcome. Beyond our existing products, we can arrange production according to customer requirements. If you have your own designs or samples, we can make molds and arrange production based on your product information.

Applications

Inverter, signal amplifier, video pusher, lithium-ion battery changer, mini host, and other electronic and industrial equipment housings.

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%

Technical 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 design capabilities, our professional R&D team analyzes and optimizes designs based on customer drawings and our extrusion processing experience, using the most reasonable design to reduce production costs and improve product performance.

Our company adopts a "one-stop" service and production model covering 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 the production process, delivering high-quality products.



Factory Equipment

Extrusion

Equipped with 44 aluminum extrusion lines, MetalPlus is capable of producing various standards of commercial aluminum profiles and industrial aluminum profiles with a maximum outer diameter of 350 mm.

MetalPlus has 44 aluminum profile extrusion lines equipped with PLC control systems and precise molds. The largest extruder in the MetalPlus factory is a 6,800-ton unit, used for the production of industrial profiles in various shapes with a maximum diameter of 600 mm. This allows us to satisfy the different requirements of our diverse customer base. Some of the aluminum products produced by MetalPlus include radiators, industrial fan blades, motor enclosures, solar cell frames, doors, and windows.

MetalPlus can produce custom molds according to customer requirements. We have the abilities and experience to produce aluminum profiles with complex structures. Our own R&D team enables us to provide reasonable suggestions to customers, creating superior products at affordable prices.



Anodizing

Anodizing is a process in which a layer of aluminum oxide is formed 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 so that the surface can withstand various weather conditions. The aluminum oxide layer also increases the product's hardness and wear resistance. MetalPlus has 6 anodizing production lines. Profiles processed in our anodizing lines feature uniform oxidation film thickness and color, giving them a beautiful appearance. Oxidized profiles come in various color options including 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 among each batch.



Painting

Our factory is equipped with 4 powder spraying lines, all using high-quality spray nozzles from Gema Switzerland. MetalPlus uses only safe and

environmentally friendly paint with strong adhesive force and durable color retention.



CNC Machining

MetalPlus is equipped with highly advanced machining equipment sets. All fine machining processes are accomplished by technicians with rich industry experience. Strict industrial standards are adopted during production to ensure fine machining precision and product quality.

MetalPlus has 12 PRATIC machining centers for milling, drilling, or tapping profiles from different angles. They are especially suitable for the production of long profiles up to 6 meters and can machine complex profiles with the simplest methods.

MetalPlus has fully automatic cutting machines from Wegoma that accomplish precise cutting with automatic and continuous material feeding, featuring low labor cost and high production efficiency. As a result, MetalPlus cutting prices are significantly lower than those of other enterprises in the industry.

We have 30 punching machines with punching pressure ranging from 50 to 100 tons, suitable for punching relatively thick profiles over 5 mm. There are also 10 stretch bending/bending machines that can bend profiles to arcs or different angles with highly precise machining angles. The factory is also equipped with 10 milling machines for machining different planes, bevels, or grooves to satisfy diverse customer machining requirements.



Packing and Shipping



Finished products are packaged manually and prepared for delivery. MetalPlus adopts 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



Company History

2004 — Recognized as "THE RECOGNIZED BRAND OF THE BUILDING INDUSTRY MATERIAL MARKET"

2006 — Awarded "CERTIFICATE FOR PRODUCT EXEMPTION FROM QUALITY SURVEILLANCE INSPECTION" and ISO9001 certification

2009 — Named "ADVANCED COMPANY"; received "JIANGSU FAMOUS BRAND CERTIFICATE" and "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 — Confidently expanding overseas distributor network to grow the market for win-win benefits

Project References



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



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

and improve product performance thanks to our optimization proficiencies.



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



MetalPlus' professional R&D team assisted our Canadian customer SmartLux in designing the Heater Enclosure. We then produced custom molds, extruded the profiles, arranged finished machining, powder-painted the heaters, and installed the products — creating superior products for our customer.



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