



6063-T5 Aluminum U Channel Profile Automotive Trunk Aluminum Extrusion

Our Product Introduction

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

Basic Information

- Certification: ISO, RoHS
- Minimum Order Quantity: 1
- Price: 4.99



Product Specification

- Alloy Grade: 6063
- Temper: T5
- Profile Thickness: 0.8 - 5.0 Mm
- Profile Length: 3 - 6 M Per Piece
- Cross-Section Shape: U-channel
- Surface Treatment: Anodizing
- Anodized Layer Thickness: 8 - 25 μ m
- Powder Coating Thickness: 60 - 120 μ m
- Tensile Strength: ≥ 160 MPa
- Yield Strength: ≥ 110 MPa
- Elongation: $\geq 8\%$
- Max Outer Diameter: 350 Mm
- Max Extrusion Diameter: 600 Mm
- Punching Pressure: 50 - 100 Tons
- Package Dimensions: 600 $\times$ 60 $\times$ 60 Cm



More Images



Product Description

6063-T5 Aluminum U Channel Profile Automotive Trunk Aluminum Extrusion — versatile structural aluminum profiles for construction, automation, solar and cabinet projects. Custom sizes and surface finishes are available to meet your project requirements.

Product Description

Our aluminum C channel and U channel profiles are custom extruded from high-quality 6063 or 6061 aluminum alloy. Featuring lightweight construction, high rigidity, corrosion resistance and easy fabrication, these aluminium channel extrusions are among the most versatile structural profiles for industrial and architectural applications.

Aluminum U channel comes with a U-shaped cross-section, ideal for panel edging, glass retaining, LED light housing, sheet metal wrapping and enclosure borders. Aluminum C channel (C extrusion) has an open C-shape design, perfect for building frames, sliding guide grooves, equipment supports, solar mounting rails and safety fence assembly.

We provide a full range of surface treatments including natural anodizing, clear anodizing, black anodizing and powder coating. Profiles can be cut to your required length, with additional CNC machining services such as drilling, tapping and milling available on request.

Product Specification

Item	Aluminum Profile
Material	6061, 6063, 6005, 6082, 6060
Temper	T4, T5, T6, T66
Size	3m – 6m per piece, or customized
Shape	Round, square, flat, hollow, oval, triangle, U-profile, L-profile, T-profile, customized available
Thickness	General profile thickness: 0.8 – 5.0mm

Surface Treatment

Surface Treatment	Mill-finish, anodized, powder coated, electrophoresis, brushed, PVDF
Anodized Color	Silver, black, champagne, bronze, gold or customized
Anodized Thickness	8 – 25µm
Electrophoresis Color	Silver, black, champagne, bronze, gold or customized
Powder Coated Color	Customized
Powder Coated Thickness	60 – 120µm
Guarantee	Surface color stable for 10 – 20 years of indoor use

Packing Options

Bundles Packing	Inside: packed with EP foam to protect each piece. Outside: wrapped into bundles with waterproof craft paper.
Carton Packing	Inside: each piece packed in one plastic bag. Outside: quantities placed in one carton.
Wood Pallet Packing	Inside: bundles or cartons. Outside: bundles or cartons laden on one wood pallet.
Customized Requirement	Customized packing requirements available

Other Service Details

MOQ	500kg; usually 13 – 15 tons for a 20GP, 25 tons for a 40HQ
OEM Service	Drawing, sample or design service offered by customer
Production Capacity	10,000 metric tons monthly
Deep Process	CNC, drilling, milling, cutting, bending, tapping, welding, assembling, punching
Brand Name	MetalPlus
Certificates & Standard	ISO9001; ISO14001; SGS
Delivery Time	Die developing and sample testing: 10 – 15 days; mass production: 20 – 30 days after sample confirmation by buyer
Payment Terms	T/T, L/C
FOB Port	Shanghai
Settlement Terms	Charged by final actual weight or by drawing theoretical weight

Applications

Industrial machine frames, safety guards and workstations

Solar mounting brackets and PV component fixing

Glass partitions, curtain walls and architectural trim

LED linear light housings and decorative edging

Cabinet, enclosure and electrical chassis frames

Conveyor line side guards and sliding guide tracks

RV, transportation and new energy equipment structures

Advertising frames, poster frames and signboard borders

Competitive Advantage

Engineering design and technical support

Aluminium profile deep processing: cutting, punching, drilling, tapping, milling and fabricating

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

Reliable performance with a 15-year product warranty

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 Property

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

1. Based on customer 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 the customer's requirements.
2. For customers with design capabilities, our professional R&D team analyzes and optimizes the design based on the customer's drawings and our extrusion processing experience, using the most reasonable design to reduce production costs and improve product performance.
3. Our company adopts a "one-stop" service and production model, including 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, providing you with 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 350mm.

MetalPlus has 44 aluminum profile extrusion lines equipped with PLC control systems and precise molds. The largest extruder in the MetalPlus factory is a 6800-ton unit, used for the production of industrial profiles in various shapes with a maximum diameter of 600mm. This allows us to satisfy the different requirements of our various customers. 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. We have our own R&D team, so we can provide reasonable suggestions for our customers in order to create 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. Meanwhile, the aluminum oxide also increases the product's hardness and wear resistance. MetalPlus has 6 anodizing production lines. The profiles processed in our anodizing lines feature uniform oxidation film thickness and color, giving them a beautiful appearance. The oxidized profiles come in various color options including silver, black, gold, champagne and imitation steel. Other colors can be customized upon request.

The anodized products are all inspected by highly trained professional inspectors. Defective products which cannot be re-processed are directly scrapped. Products with uneven color are de-coated and re-anodized until they meet the requirements. This ensures there is no color difference among each batch of products.



Painting

Our factory is equipped with 4 powder spraying lines, all using high-quality spray nozzles from Gema Switzerland. MetalPlus only uses 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 which can be used for milling, drilling or tapping of profiles from different angles. They are especially suitable for the production of long profiles up to 6 meters and can realize machining of complex profiles with the simplest methods.

MetalPlus has fully automatic cutting machines from Wegoma which accomplish precise cutting with automatic and continuous material feeding, featuring low labor cost and high production efficiency. Therefore, the cutting price of MetalPlus is significantly lower than that 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 5mm. There are also 10 stretch bending/bending machines which can bend profiles to arcs or different angles with highly precise machining angles. The factory is also equipped with 10 milling machines, realizing machining of different planes, bevels or grooves to satisfy different machining requirements of our customers.



Packing and Shipping



Finished products are packaged manually and ready 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 — "The 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"; "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 distributors 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 participate in the construction of the 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 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 glad that our local customer Dadn won the bid for the 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 their tenders.



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