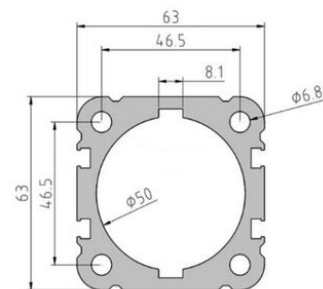


6063 Aluminum Extrusion House for Electric Servo Cylinder

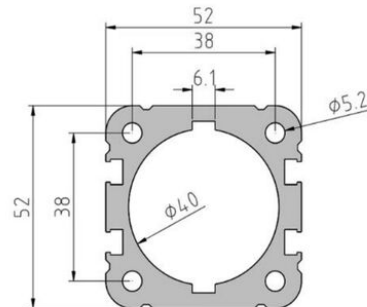
Basic Information

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

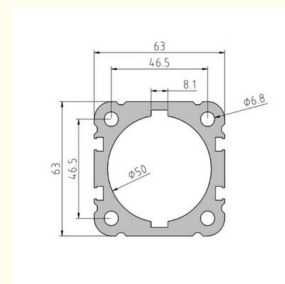
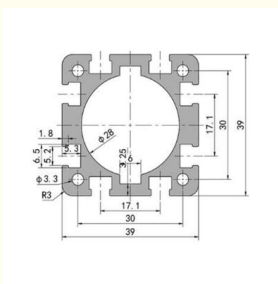
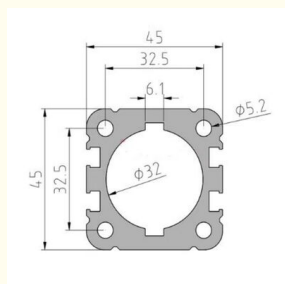


Product Specification

- Alloy Grade: 6063, 6061, 6082, 6005, 6060
- Temper: T3-T8 (T5, T6)
- Tensile Strength: ≥ 160 MPa (6063-T5), ≥ 205 MPa (6063-T6), ≥ 265 MPa (6061-T6)
- Yield Strength: ≥ 110 MPa (6063-T5), ≥ 180 MPa (6063-T6), ≥ 245 MPa (6061-T6)
- Elongation: $\geq 8\%$
- Profile Shape: Round, Hollow, Oval, Tube, Flat, Square, Rectangle, Hexagon, Custom
- Surface Treatment: Anodizing, Powder Coating, Sand Blasting, Mechanical Polishing
- Anodizing Colors: Silver, Black, Gold, Champagne, Imitation Steel, Custom RAL
- Cut Length: Custom Cut Length
- Max Profile Diameter: 350mm (standard), 600mm (6800-ton Extruder)
- Machining Services: Cutting, Drilling, Tapping, Milling, Punching,



More Images



Product Description

6063 Aluminum Extrusion House for Electric Servo Cylinder — custom extruded aluminum profiles engineered for electric cylinders and linear actuators. Available in 6061, 6063 and 6082 alloys with anodized or powder-coated finishes, plus full OEM machining including cutting, drilling and tapping. Contact us for linear module aluminum frame solutions.

We support custom cross-section extrusion based on your drawings or samples. A complete range of secondary machining services is available: cutting, drilling, tapping, milling and deburring. Multiple surface finishes — anodizing, sandblasting and powder coating — can be supplied to meet your assembly and appearance requirements.

Widely used for electric cylinder housings, linear actuator frames, automation equipment and industrial linear modules. As a professional aluminum extrusion manufacturer, we accept OEM and ODM orders with strict ISO tolerance control. Send us your technical drawings to receive a quotation.

Product Specifications

Item	Aluminum Cylinder Profile
Material	Aluminum Alloy 6000 series, such as 6005, 6061, 6063, 6082, etc.
Profile Shape	Round, hollow profile, oval, tube, flat, triangle, square, rectangle, rectangular, pentagon, hexagon, heptagon, octagon, trapezoid, diamond, wave-shape, curve-shape, U-profile, L-profile, T-profile, H-profile, and any customized design.
Production Process	Aluminum extrusion, fabrication, anodizing, etc. All-in-one aluminum service available.
Fabrication	Machining, CNC, sawing, milling, punching, lathing, tapping, chamfering, laser, welding, bending, assembling, etc.
Application	Electric cylinder housing, linear actuator frame, linear module, automation machinery, industrial motion equipment, sliding table assembly.
Certificate and Standard	ISO9001:2008, SGS
Guarantee	Surface color remains stable for 10–20 years of indoor use.
Packing	1. EP paper inside for each profile, then craft paper / shrink film outside 2. EP paper inside for each profile, then carton paper, then pallet 3. Wooden carton
MOQ	1000 kgs. More or less is acceptable, depending on drawings, material and fabrication requirements.

Design Features & Specifications

Aluminum top and bottom plate with 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 housing extremely suitable for hostile environments where waterproofing and heat dissipation are essential.

PCB or chassis can be mounted by sliding it 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.

Key Advantages

Light weight with high structural rigidity, reducing the load on the linear motion system.

Good corrosion resistance after anodizing or powder coating for a long service life.

Precise extrusion and machining for stable assembly of electric cylinders.

Custom cross-section design to fit your linear actuator internal structure.

Multiple secondary machining services delivering ready-to-assemble parts.

Strict dimensional tolerance control to guarantee consistent batch quality.

Flexible MOQ supporting both prototype trials and mass production.

Applications

Electric cylinder housing, linear actuator frame, linear module, automation machinery, industrial motion equipment and sliding table assembly.

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 the molds, and extrude aluminum profiles that meet the customer's requirements.

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.

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 production, 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 factory is a 6800-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 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 ability and experience to produce aluminum profiles with complex structures. Our own R&D team provides reasonable suggestions so customers can 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 the surface can withstand various weather conditions. The aluminum oxide 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 for 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 of profiles from different angles. They are especially suitable for 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, our cutting price 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 relatively thick profiles over 5 mm. There are also 10 stretch bending / bending machines that 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, satisfying different customer machining requirements.



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 — 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 German 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 distributor network 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 aluminum supplier. 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 through our optimization expertise.

We are 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 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 finish machining, powder painted the heaters and installed the products, creating superior products for our customer.

Share your drawings or samples, and we will provide professional technical support and a competitive quotation for electric cylinder aluminum extrusion.



+86-13861643436



aluminum@hentec.com.cn



aluminumextrusion-profiles.com

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