



6063 Alloy Anodized Aluminum T-Slot Profile with Customizable Dimensions for Industrial Applications

Our Product Introduction

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Basic Information

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



Product Specification

- Grade: 6000 Series
- Temper: T3-T8
- Alloying Ingredient: 6063
- Surface Finishing: Anodic Oxidation
- Surface Treatment: Anodizing/Powder Painting/Electrophoresis
- Size Range: 10/15/20/25/30/35/40/45/50/55/60/65/70/75/80 Series
- Standard: GB/5237-2004
- Material: 6063 6061 T5 T6 Aluminum Alloy
- Tensile Strength: 160-265Mpa
- Yield Strength: 110-245Mpa
- Elongation: $\geq 8\%$
- Max Outer Diameter: 350mm
- Extruder Capacity: 6800 Ton
- Production Capacity: 50000PCS/Month



More Images



Product Description

Industrial Anodized Aluminum T-Slot Assembly Line Profile

The versatility of MetalPlus's t-slot aluminum framing systems makes them ideal solutions for machine bases and frames, linear slide systems, safety guarding and enclosures, worktables, and structural framing, as well as for use in materials handling systems.

Specifications

Size	10/15/20/25/30/35/40/45/50/55/60/65/70/75/80/85 series and Custom Made size
Grade	6061/6063/6082-T5/T6
Standard	GB/5237-2004
Certification	ISO9001
Material	6063 6061 T5 T6 Aluminum Alloy
Surface Treatment	Polishing, Sandblasting, Painting, Powder coating, Galvanizing, Chrome plating, Anodize (White or Black Color) E-coating, T-Coating, as customer's requirement
Surface	Mill finish, Anodizing, Sand Blasting, Powder Coating, Electrophoresis Etc

Applications

Heavy duty Racks
Robot safety Fencing, industrial safety fencing
Industrial Material Handling Trolley
Work Benches
Material Handling Systems
Table
Conveyor frame
Parts Racks
Machine guarding and enclosures
Lean Manufacturing Tools
Rolling carriages
Flexible work cells
Material handling carts
Machine bases and frame
The frame of Clean Room
Customized according to customer's mechanical equipment

Advantages

100% recyclable, free from contamination
Economic, Reusable
Light, easy to assemble
Wide usage field
High glossy and have different loading capacity

Technical Data

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

Mechanical Properties

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

Technical Support

Based on customer requirements, we help design extruded profile appearance, provide CAD drawings and 3D models for confirmation, customize molds, and extrude aluminum profiles that meet 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 model including product design, custom molds, aluminum bar melting and casting, extrusion profiling, precision machining, and surface treatment. We control raw material alloy composition and maintain product accuracy throughout production.

Factory Equipment

Extrusion

Equipped with 44 aluminum extrusion lines, MetalPlus produces various standards of commercial and industrial aluminum profiles with maximum outer diameter of 350mm. Our largest extruder is a 6800 ton unit capable of producing industrial profiles up to 600mm diameter.

Anodizing

Anodizing creates an aluminum oxide layer on the surface, improving corrosion resistance, hardness, and wear resistance. MetalPlus has 6 anodizing production lines producing uniform oxidation film thickness and color in various options including silver, black, gold, champagne, and imitation steel.

Painting

Our factory has 4 powder spraying lines using high-quality spray nozzles from Gema Switzerland and environmentally friendly paint with strong adhesive force and durable color retention.

CNC Machining

MetalPlus is equipped with advanced machining equipment operated by experienced technicians. We have 12 PRATIC machining centers for milling, drilling and tapping of profiles up to 6 meters, automatic cutting machines from Wegoma, 30 punching machines, bending machines, and milling machines.

Packing and Shipping

Finished products are packaged manually and ready for delivery. MetalPlus adopts strict warehouse management procedures with organized storage sections and thorough examination 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, Credible Product of Quality in Jiangsu Province
- 2012 - Established business relationships with Panasonic and LG
- 2015 - Innovative producer and supplying partner for Germany Client
- 2017 - Developed new products of baseboard heaters
- 2019 - Cooperate with world's largest Heater Manufacturers, supplying Aluminum Shells

Projects

Soccer City Stadium, Johannesburg - We participated as the main aluminum supplier for this 94,000 seat stadium, the largest capacity stadium in Africa.

Lobster Trailers - We cooperate with this Nordic trailer giant, providing design analysis and optimization with our professional R&D team and processing equipment.

School Project - Supplied aluminum legs for school desks, helping local customer Dadn win the bid with our strong design and mature technology.



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