



6060 6063 6005 Aluminium T-Slot Profile with 20 Years Warranty and 5-10 Years Weather Resistance

Our Product Introduction

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Basic Information

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



Product Specification

- Model NO.: T-Slot Profile
- Grade: 6000 Series
- Temper: T3-T8
- Alloy: 6063
- Surface Finishing: Anodic Oxidation
- Surface Treatment: Anodizing/Powder Painting
- Colour: Customized
- Polish: Chemical/Mechanical Polish
- Production Capacity: 50000PCS /Month
- Tensile Strength: $\geq 160\text{Mpa}$ (T5), $\geq 205\text{Mpa}$ (T6)
- Yield Strength: $\geq 110\text{Mpa}$ (T5), $\geq 180\text{Mpa}$ (T6)
- Elongation: $\geq 8\%$
- Max Diameter: 350mm
- Max Extruder: 6800 Ton
- CNC Machining: PRATIC Machining Centers, Wegoma



More Images



Product Description

6060 6063 6005 Anodized / Powder Painted Aluminium T-Slot Profile with Customized CNC Machining

Product Overview

High-quality aluminum T-slot profiles available in 6060, 6063, and 6005 alloys with customizable CNC machining and surface treatment options including anodizing and powder coating.

Key Specifications

Product Name	6063 T5 Anodized Aluminium T-Slot Profile
Material	Aluminum
Size	Customizable according to drawings, samples, or requests
Industry Standards	DIN/ISO 9001:2015, RoHS compliant
Payment Term	L/C, T/T

Product Features

- 20 years warranty
- High corrosion resistance
- 5-10 years weather resistance
- Excellent wear resistance & anti-scratch properties
- Customizable sizes
- Available in various alloy tempers: 6061-T6, 6063-T6, 6082-T6
- Multiple surface treatment options: Mill finishes, Anodized, Powder coated, Wooden grain, Machine/Acid polished

Applications

- Heavy duty racks
- Robot safety fencing
- Industrial material handling trolley
- Work benches
- Material handling systems
- Conveyor frames
- Parts racks
- Machine guarding and enclosures
- Lean manufacturing tools
- Rolling carriages
- Flexible work cells
- Material handling carts
- Machine bases and frames
- Clean room frames

Technical Specifications

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

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

Our professional R&D team provides comprehensive support including:

- Custom design based on your requirements
- CAD drawings and 3D models for confirmation
- Mold customization
- Design optimization to reduce costs and improve performance
- One-stop service from design to surface treatment

Production Capabilities

Extrusion

44 aluminum extrusion lines capable of producing profiles with maximum outer diameter of 350mm. Our largest 6800 ton extruder can handle industrial profiles up to 600mm diameter.

Anodizing

6 anodizing production lines producing uniform oxidation film thickness in various colors including silver, black, gold, champagne, and imitation steel.

Anodizing production process Anodized aluminum samples

CNC Machining

Advanced machining equipment including 12 PRATIC machining centers, automatic cutting machines, 30 punching machines, and 10 stretch bending machines for precision processing.

CNC machining center Precision machining process

Quality Assurance

- Strict inspection process
- RoHS compliance testing
- Batch consistency control
- Defective product elimination

Certifications

Quality certification Industry certification

Notable Projects

Soccer City Stadium, Johannesburg: Supplied aluminum materials for Africa's largest stadium with 94,000 seat capacity.

Lobster Trailers: Provided customized aluminum solutions for this Nordic trailer manufacturer.

Lobster Trailers project School furniture project



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