

40 Series 6000 Grade T5-T6 T-Slot Aluminum Profile System for High Load Applications

Our Product Introduction

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

Basic Information

- Certification: CE, ISO
- Minimum Order Quantity: 500
- Price: 2.99

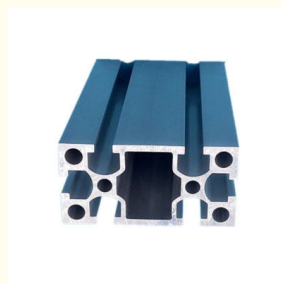
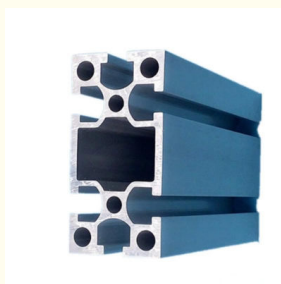


Product Specification

- Model NO.: Profile Systems
- Type: Industrial Aluminium Profile, Aluminum Profile System
- Shape: T - Profile
- Grade: 6000 Series
- Temper: T3-T8
- Alloy: Alloy
- Surface Finishing: Anodic Oxidation
- Alloying Ingredient: 6063
- Surface Treatment: Sandblasting Anodized
- Specification: 20*20, 30*30, 40*40, 40*80, 30*60, 80*80mm
- Production Capacity: 100000 Ton/ Year
- Material: Aluminium 6000 Series Alloy, Such As 6061, 6063, 6060, 6005 6082 Etc.
- Tensile Strength: $\geq 160\text{Mpa}$ (T5), $\geq 205\text{Mpa}$ (T6), $\geq 265\text{Mpa}$



More Images



Product Description

6063 6061 Customized CNC Machining T-Slot Aluminum Profile Systems with High Loads

T-slot aluminum profile systems are engineered for high-load applications including heavy work stations, fixtures, machine supporting structures, and transporting shuttles. The 40-dimension optimized load-carrying capacity provides a cost-effective, stable solution for design engineers. Lightweight dimensions can be used for less critical areas to optimize weight and cost efficiency.

Product Specifications

Item	Aluminum Assembly Line
Material	Aluminium 6000 series alloy (6061, 6063, 6060, 6005, 6082)
Temper	T4, T5, T6, T66
Size	Customized
Shape	Square, flat, round, hollow, oval, triangle, U-profile, L-profile, T-profile, H-profile, customized
Surface Treatment	Anodizing, Powder Painting, Mill Finished
Color	Silver, champagne, black, bronze, gold, white or customized
Deep Process	CNC, drilling, milling, cutting, tapping, welding, bending, assembling
MOQ	500 kgs per item (13-15 tons for 20GP, 25-28 tons for 40HQ)
OEM Service	Accepts customer drawings, samples, or design specifications
Production Capacity	2400-3000 Metric tons monthly
Brand Name	MetalPlus
Certifications	ISO, RoHS, SGS
Guarantee	Surface color stability for 10-20 years indoor use

Material Properties

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%

Packaging & Shipping

Packaging: Standard export package with EP foam interior and craft paper/pallet/wooden case exterior. Custom packaging available upon request.

Shipping Options

Samples shipped via express (FEDEX, DHL, UPS, EMS) with freight paid by client

Mass production shipped FOB Shanghai Port

Delivery Time: 3 weeks after order confirmation

Company Profile

MetalPlus operates a 3600-ton extrusion press capable of producing heat sinks up to 600mm diameter. We specialize in custom aluminum extrusions for construction and industrial applications, offering complete services from mold making to fabrication and surface treatment.

Certifications

Company Milestones

- 2004: Recognized Brand of the Building Industry Material Market
- 2006: ISO9001 Certification & Product Exemption from Quality Inspection
- 2009: Jiangsu Famous Brand Certificate & Advanced Company Award
- 2012: Established partnerships with Panasonic and LG
- 2015: Became innovative supplier for European clients
- 2017: Developed new baseboard heater products
- 2019: Supplier to world's largest heater manufacturers
- 2023: Expanding global distributor network

Notable Projects

Soccer City Stadium, Johannesburg: As primary aluminum supplier for Africa's largest stadium (94,000 seats), our materials contributed to this landmark project's success.

Lobster Trailers: Our R&D team collaborates with this Nordic trailer manufacturer to optimize designs, reduce production costs, and enhance product performance through advanced aluminum solutions.

School Furniture Project: Supplied aluminum legs for school desks to local customer Dadn, demonstrating our capability to support education infrastructure projects.



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