



6063 6061 Alloy Black Anodized Customized CNC Machining Industrial Aluminium Profile for Aluminum Assembly Line

Our Product Introduction

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

Basic Information

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



Product Specification

- Grade: 6000 Series
- Temper: T3-T8
- Surface Finishing: Anodic Oxidation
- Alloying Ingredient: 6063
- Surface Treatment: Anodizing/Powder Painting/Electrophoresis
- Machining Processes: Tapping, Cutting, Milling
- 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: $\geq 8\%$
- Chemical Composition: Si: 0.2-0.6, Fe: 0.35, Cu: 0.1, Mn: 0.1, Mg: 0.45-0.9, Cr: 0.1, Zn: 0.1, Ti: 0.1, Al: Rest
- Profile Size: 10/15/20/25/30/35/40/45/50/55/60/65/70/75/80 Series
- Max Outer Diameter: 350mm
- Production Capacity: 50000PCS/Month
- Extrusion Force: 6000 Tons



More Images



Product Description

Custom CNC Machined Black Anodized Aluminum Profiles

MetalPlus's versatile T-slot aluminum framing systems provide ideal solutions for machine bases and frames, linear slide systems, safety guarding and enclosures, worktables, structural framing, and materials handling systems.

Aluminum T-Slot Profile Specifications

Size	10/15/20/25/30/35/40/45/50/55/60/65/70/75/80/85 series and Custom Made sizes
Grade	6061/6063-T5/T6
Standard	GB/5237-2004
Certification	ISO9001
Material	Aluminum
Color	Clear, Black, any custom-made colors available
Surface	Mill finish, Anodizing, Sand Blasting, Powder Coating, etc.

Applications

Heavy duty racks
Robot safety fencing and industrial safety fencing
Industrial material handling trolleys
Work benches
Material handling systems
Tables
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
Customized mechanical equipment frames

Aluminum Profile Advantages

100% recyclable and free from contamination
Economical and reusable
Lightweight and easy to assemble
Wide range of applications
High gloss finish with various loading capacities

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

- Our comprehensive technical support includes:
- Custom design services with CAD drawings and 3D models
 - Professional R&D team for design analysis and optimization
 - Complete "one-stop" service from design to surface treatment
 - Quality control throughout the entire production process

Manufacturing Capabilities

Extrusion

With 44 aluminum extrusion lines including a 6800-ton unit, we produce commercial and industrial aluminum profiles up to 600mm in diameter for applications including radiators, industrial fan blades, motor enclosures, solar cell frames, doors, and windows.

Anodizing

Our 6 anodizing production lines create uniform oxidation films in various colors including silver, black, gold, champagne, and imitation steel, with strict quality control ensuring consistent color and finish.

Painting

Our 4 powder spraying lines use high-quality Gema Switzerland nozzles and environmentally friendly paints with strong adhesion and durable color retention.

CNC Machining

Advanced machining equipment including 12 PRATIC machining centers, automatic cutting machines, 30 punching machines, bending machines, and milling machines for precise processing of complex profiles.

Packing and Shipping

Strict warehouse management with manual packaging and thorough inspection before delivery ensures product quality and proper handling.

Certifications

Company History

- 2004: Recognized brand of the building industry material market
- 2006: Certificate for product exemption from quality surveillance inspection and ISO9001 certification
- 2009: Advanced company, Jiangsu famous brand certificate, and credible product of quality in Jiangsu Province
- 2012: Established business relationships with Panasonic and LG
- 2015: Became innovative producer and supplying partner for German client
- 2017: Developed new products of baseboard heaters
- 2019: Cooperated with world's largest heater manufacturers
- 2023: Expanding overseas distributor network for win-win benefits

Notable Projects

Soccer City Stadium, Johannesburg

As the main aluminum supplier for Africa's largest stadium (94,000 seats), we contributed to this major South African project that received unanimous praise upon completion.

Lobster Trailers

Our partnership with this Nordic trailer giant involves design optimization and precision processing to minimize production costs while improving product performance.

School Desk Project

Supplying aluminum legs for school desks, helping local customers win bids through strong design capabilities and mature manufacturing techniques.



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