6063 6061 Alloy Customized CNC Machining Industrial Aluminium Profile with Anodized Surface

Our Product Introduction

Basic Information

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

Product Specification

- Grade: 6000 Series
- Temper: T3-T8
- Alloy: 6063 6061
- Surface Finishing: Anodic Oxidation
- Surface Treatment: Anodizing/Powder Painting/Electrophoresis
- Machining Process: Tapping, Cutting, Milling
- Production Capacity: 50000PCS/Month
- Tensile Strength: 160-265Mpa
- Yield Strength: 110-245Mpa
- Elongation: ≥ 8%
- Max Extrusion Diameter: 350mm
- Max Extruder Tonnage: 6800 Ton
- Anodizing Colors: Silver, Black, Gold, Champagne, Imitation Steel
- Profile Length: Up To 6 Meters

More Images

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Product Description

Customized CNC Machining Aluminum Profile Systems

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 applications.

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	6061/6063/6082-T5/T6
Standard	GB/5237-2004
Process	Extrusion, Machining, Anodizing / Powder Painting / PVDF Powder Painting / Electrophoresis / Packing
Material	6063 6061 T5 T6 Aluminum Alloy
Color	Natural, Black, Silvery and custom-made colors available
Surface	Mill finish, Anodizing, Sand Blasting, Powder Coating, Electrophoresis

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

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 varying load 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

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 production process

Factory Equipment

Extrusion

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

Anodizing

Our 6 anodizing lines produce uniform oxidation films in various colors including silver, black, gold, champagne, and imitation steel, with strict quality control for consistent results.

Painting

Four powder spraying lines using Gema Switzerland nozzles with environmentally friendly, durable paints.

CNC Machining

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

Packing and Shipping

Strict warehouse management with manual packaging and quality examination before delivery.

Certifications

Company History

Established track record since 2004 with continuous growth, including partnerships with Panasonic, LG, and German clients, and recognition for product quality and innovation.

Featured Projects

Soccer City Stadium, Johannesburg

Main aluminum supplier for Africa's largest stadium with 94,000 seat capacity.

Lobster Trailers

Collaboration with Nordic trailer manufacturer featuring design optimization and cost-effective production.

School Desk Project

Supplied aluminum legs for school desks, supporting local education infrastructure.

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