



## Black Anodized 6063 6061 Customized CNC Machining Aluminum V Slot Extrusion Profile

### Our Product Introduction

for more products please visit us on [aluminumextrusion-profiles.com](http://aluminumextrusion-profiles.com)

#### Basic Information

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



#### Product Specification

- Model NO.: Aluminum V Slot Profile
- Grade: 6000 Series
- Temper: T3-T8
- Alloy: 6063
- Surface Finishing: Anodic Oxidation
- Surface Treatment: Anodizing/Powder Painting/Electrophoresis
- Size: 10/15/20/25/30/35/40/45/50/55/60/65/70/75/80 Series And Custom Made Size
- Material: 6063 6061 T5 T6 Aluminum Alloy
- Color: Natural, Black, Silvery Any Custom-made Colors
- Surface: Mill Finish, Anodizing, Sand Blasting, Powder Coating, Electrophoresis
- Tensile Strength:  $\geq 160\text{Mpa}$  (T5),  $\geq 205\text{Mpa}$  (T6),  $\geq 265\text{Mpa}$  (6061 T6)
- Yield Strength:  $\geq 110\text{Mpa}$  (T5),  $\geq 180\text{Mpa}$  (T6),  $\geq 245\text{Mpa}$  (6061 T6)



#### More Images



## Product Description

### Custom Aluminum V-Slot Extrusion Profiles

MetalPlus offers versatile T-slot aluminum framing systems ideal for machine bases and frames, linear slide systems, safety guarding and enclosures, worktables, structural framing, and materials handling applications.

### Product 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
Certification	ISO9001
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
- Custom 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 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

#### 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 service includes product design, CAD drawings, 3D modeling, custom mold creation, and complete extrusion processing. We optimize designs to reduce costs and improve performance through our one-stop service model covering design, mold customization, aluminum casting, extrusion, precision machining, and surface treatment.

## Manufacturing Capabilities

### Extrusion

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



### Anodizing

Six anodizing lines produce uniform oxidation films in silver, black, gold, champagne, and imitation steel colors, with rigorous quality control ensuring consistent batch quality.



### CNC Machining

Advanced equipment including 12 PRATIC machining centers, automatic cutting machines, 30 punching machines, and bending equipment enables precise processing of profiles up to 6 meters in length.



### Quality Assurance

Strict warehouse management and inspection procedures ensure all products meet quality standards before delivery.



## Certifications & History

ISO9001 certified with industry recognition since 2004. Key milestones include partnerships with Panasonic, LG, and German clients, and continuous innovation in aluminum product development.



## Notable Projects

Soccer City Stadium, Johannesburg - Major aluminum supplier for Africa's largest stadium. Lobster Trailers - Custom aluminum solutions for Nordic trailer manufacturer. School furniture components for educational institutions.

