



Precision CNC Machining Rivet Punching Aluminum Extrusion Profile with 6000 Series Grade and 6063 Alloy

Our Product Introduction

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

Basic Information

- Certification: ISO
- Minimum Order Quantity: 100
- Price: 1.99



Product Specification

- Model NO.: Aluminum Enclosure
- Type: Industrial Aluminium Profile, Aluminum Enclosure
- Shape: Customized
- Grade: 6000 Series
- Temper: T3-T8
- Alloy: Alloy
- Surface Finishing: Anodic Oxidation
- Alloying Ingredient: 6063
- Surface Treatment: Anodized
- Processing: CNC 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: $\geq 8\%$
- Production Capacity: 100000 Ton/ Year



More Images



Product Description

Precision CNC Machinery Rivet Punching Aluminum Extrusion Enclosure Profile

Metalplus specializes in aluminum industrial profile design and manufacturing with a production base of more than 100,000 square meters and annual capacity exceeding 100,000 tons.

Key Specifications:

Material: Aluminum alloy 6063, 6061, 6082, 6005 or custom requirements
Temper: T5, T6
Quality standard: GB5237-2008
Surface treatment: Mill finish, anodized, powder coated, electrophoresis, sand blasting, PVDF coating, wood grain painting
Available colors: Silver, Bronze, Champagne, Matte, Natural for anodizing, RAL for powder coating
Packing: Protective film inside and shrinking film outside
Production Capacity: 100,000 tons/year
MOQ: 1 TON
Delivery: 20 days after deposit

Product Advantages

Superior Heat Dissipation: Aluminum alloy maintains optimal temperature during continuous operation
Lightweight Construction: Reduces overall product weight for easier transportation and installation
Excellent Plasticity: Better ductility than steel or cast iron for complex designs
Durable Performance: Waterproof, dustproof, corrosion resistant with long service life
Environmentally Friendly: Energy efficient production with recyclable materials

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% |

Technical Support

Custom design services including CAD drawings and 3D models
Professional R&D team for design optimization and cost reduction
Complete production process from design to surface treatment
Strict quality control throughout manufacturing

Production Capabilities

Extrusion

44 aluminum extrusion lines with maximum outer diameter capacity of 350mm, including a 6800 ton extruder for profiles up to 600mm diameter.

Anodizing

6 anodizing production lines with uniform oxidation film thickness and multiple color options including silver, black, gold, and champagne.

Painting

4 powder spraying lines using high-quality Swiss Gema spray nozzles with environmentally friendly paints.

CNC Machining

12 PRATIC machining centers for complex profile processing

30 punching machines (50-100 ton capacity)

10 stretch bending machines for precise angle bending

10 milling machines for various plane and groove machining

Quality Assurance

Strict industrial standards throughout production with professional inspection teams ensuring consistent quality across all batches.

Certifications



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