

## Customized Industrial Aluminum Extrusion Profile with Precision Machining for EV Charging Poles

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

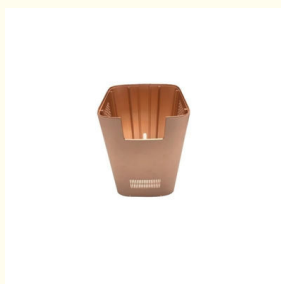


### Product Specification

- Material: Alloy 6063, 6061, 6060, 6005, 6082
- Temper: T4, T5, T6, T66
- Surface Finishing: Anodize, Electrophoresis, Powder Coating, PVDF Coating, Wood Grain Painting
- Profile Type: Industry Aluminum Profile
- Processing Tolerance: Length Tolerance 0.2mm, Hole Tolerance 0.05mm
- 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, Impurity 0.15, Al Rest
- 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:  $\geq 8\%$
- Max Outer Diameter: 350mm
- Max Extruder Capacity: 6800 Ton
- Max Profile Diameter: 600mm



### More Images



## Product Description

### Anodized Vehicle EV Charging Pole Aluminum Extrusions with CNC Machining

MetalPlus manufactures high-quality customized aluminum enclosures including aluminum profile housing, die-cast aluminum boxes, standard aluminum chassis, rack mount housing, and CNC precision machined parts.

Our special advantage is custom aluminum profile housing. Using state-of-the-art CNC processing equipment, we manufacture enclosures to exact customer specifications with on-time delivery.

### Product Specifications

Item	Details
Material	Alloy 6063, 6061, 6060, 6005, 6082 or customer choice
Temper	T4, T5, T6, T66
Surface	Anodize (clear, satin, bronze, black, golden, silver, multicolor), electrophoresis, powder coating, PVDF coating, wood grain painting
MOQ	1 ton (12 tons for 20ft container; 24 tons for 40ft container)
Profile Type	Industrial aluminum profiles for machinery, trailers, electronics, medical and industrial applications
Processing	Extruding, precise cutting (0.2mm tolerance), straight rectification, bending, drilling, tapping, stamping, pulling, CNC milling/lathe (0.05mm hole tolerance)
Certification	ISO14001:2004, ISO9001:2000, RoHS, SGS
Standards	GB/T6892-2006 (China), EN12020-1,2(2001) (Europe), AAMA611-98 (USA)

### Product Components

S/N	Part Name	QTY	Material
1	Extrusion profile	1	AL6063
2	Front and rear panels	2	AL
3	Screws	4/8	SS

### Key Features

- Aluminum top+bottom plate with case design suitable for rail transit, new energy, power equipment, and harsh environments
- Extruded aluminum frame and die-cast panels provide waterproofing and heat dissipation
- Inner-grooved body frame allows horizontal PCB or chassis mounting
- Ideal for measuring instruments, industrial control boxes, outdoor WiFi access points, and gateways

### Our Advantages

- Engineering design support and consultation
- Comprehensive aluminum processing: cutting, punching, drilling, milling, fabricating
- Strict quality control with production inspections and final checks
- 15-year product warranty
- OEM/ODM services with custom molds and production

### Applications

Inverter, Signal-Amplifier, Video Pusher, Changer of Lithium-Ion Battery, Mini Host

### 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

- Custom design services including CAD drawings and 3D models
- Design analysis and optimization by professional R&D team
- One-stop service from product design to surface treatment
- Strict quality control throughout production process

Manufacturing Capabilities

Extrusion

44 aluminum extrusion lines producing profiles up to 350mm diameter, including 6800 ton extruder for industrial profiles up to 600mm diameter. Capabilities include radiators, fan blades, motor enclosures, and solar cell frames.

Anodizing

6 anodizing lines producing uniform oxidation films in various colors (silver, black, gold, champagne, imitation steel). Strict quality control ensures color consistency.

Painting

4 powder spraying lines using Gema Switzerland nozzles and environmentally friendly paints with strong adhesion and durable colors.

CNC Machining

Advanced equipment including 12 PRATIC machining centers for complex profiles up to 6 meters, Wegoma automatic cutting machines, 30 punching machines (50-100 tons), and 10 stretch bending machines.

Packing and Shipping

Manual packaging with strict warehouse management procedures. Organized storage with detailed records for all transactions.

Certifications

Notable Projects

- Soccer City Stadium, Johannesburg:** Main aluminum supplier for Africa's largest stadium (94,000 seats).
- Lobster Trailers:** Design optimization and production for Nordic trailer manufacturer.
- School Furniture Project:** Supplied aluminum legs for school desks.

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