



## Customized 60 Series Aluminum Extrusion Profile for Automation Equipment with Precision CNC Machining

Our Product Introduction

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

### Basic Information

- Certification: CE, ISO
- Minimum Order Quantity: 1,000
- Price: 4.99



### Product Specification

- Material: 6063, 6061, 6060, 6005, 7075, 7055, 7150, 2A12,
- Temper: T4, T5, T6, T66
- Shape: Octagonal
- Surface Finishing: Anodic Oxidation
- Alloying Ingredient: 6063
- Size: 30/40/50/60/80/100mm
- Specification: 20\*20, 30\*30, 40\*40, 40\*80, 30\*60, 80\*80mm
- Production Capacity: 100000 Ton/ Year
- 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
- Deep Processing: Cutting, Drilling, Tapping, Milling
- Surface Treatment: Sandblasting, Anodized



### More Images



Product Description

Customized Aluminum Automated Robotic Arms

Precision CNC Machined Extrusion Profiles for Automation Equipment

In the world of automation, every micron matters. Our custom CNC machined aluminum profiles are the foundational building blocks designed to elevate the performance, reliability, and efficiency of your automated production line. We transform high-grade aluminum alloys into complex, lightweight, and incredibly strong structural components tailored precisely to your design specifications.

Specifications

Material	6063, 6061, 6060, 6005, 7075, 7055, 7150, 2A12, 2024
Temper	T4, T5, T6, T66
Shape	Octagonal (custom designs available)
Surface Treatment	Powder Painting, Anodizing, Brush, Satin, Polish
Machining	Cutting, Drilling, Tapping, Punching, CNC Machining, Bending, Welding
Package	EP foam + cartons + wooden cases (custom packaging available)
Certificate	ISO9001:2008, SGS
Applications	Automated Production Lines, Mechanical Arms, Robot Arm Beams, Automation Equipment

Key Features

- Lightweight construction with high strength and credible stability
- Excellent resistance to corrosion, abrasion, acid and alkali
- Incombustible material capable of resisting strong impact
- Tight joint design with excellent sound proofing effect
- Waterproof structure available for specific applications

Why Choose Our Custom Aluminum Profiles?

Unmatched Precision & Repeatability

Every profile is machined with state-of-the-art CNC equipment to exacting tolerances, ensuring perfect fitment for linear guides, bearings, and sensors. This guarantees flawless, repeatable motion essential for precision tasks.

Superior Strength-to-Weight Ratio

Aluminum provides exceptional structural rigidity while remaining remarkably light, reducing overall mass for faster acceleration, lower motor strain, and higher energy efficiency.

Complete Design Freedom & Customization

We machine complex geometries, intricate channels, precise mounting holes, cavities, and threads to your exact specifications.

Enhanced Durability and Corrosion Resistance

Manufactured from high-quality alloys with optional surface treatments including anodizing and powder coating for demanding industrial environments.

Technical Specifications

Chemical Composition

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Impurity	Al
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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%

### Packaging & Shipping

#### Packaging:

Standard export package (EP foam + cartons + wooden cases), with custom packaging options available.

#### Shipping:

Samples shipped via express (FEDEX, DHL, UPS, EMS) with freight paid by client

Mass production shipped FOB Shanghai

Delivery Time: 3 weeks after order confirmation

### Company Profile

MetalPlus invested in an express extrusion machine with a 3600 ton extrusion force in 2007, enabling our factory to produce heat sinks with maximum diameters of 600mm. We specialize in aluminum extrusions for construction and industry, offering complete services from mold making to surface treatment and fabrication.

### Certifications

### Company History

- 2004: Recognized Brand of the Building Industry Material Market
- 2006: ISO9001 Certification
- 2009: Jiangsu Famous Brand Certificate
- 2012: Established business relationships with Panasonic, LG
- 2015: Innovative producer and supplying partner for European clients
- 2019: Supplier to world's largest heater manufacturers

### Notable Projects

#### Soccer City Stadium, Johannesburg

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

#### Lobster Trailers

We collaborate with this Nordic trailer giant, optimizing designs and production processes to minimize costs while improving performance.

