



## 6063 Alloy Industrial Aluminum Fan Blade with Anodized Surface and Customized CNC Machining

Our Product Introduction

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### Basic Information

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



### Product Specification

- Alloy Grade: 6000 Series
- Temper: T3-T8
- Surface Finishing: Anodic Oxidation
- Alloy Ingredient: 6063
- Polish Type: Mechanical Polishing
- Surface Treatment: Anodizing/Powder Painting/Electrophoresis
- Machining Process: Tapping, Cutting, Milling
- Tensile Strength:  $\geq 160\text{Mpa}$  (6063-T5),  $\geq 205\text{Mpa}$  (6063-T6),  $\geq 265\text{Mpa}$  (6061-T6)
- Yield Strength:  $\geq 110\text{Mpa}$  (6063-T5),  $\geq 180\text{Mpa}$  (6063-T6),  $\geq 245\text{Mpa}$  (6061-T6)
- Elongation:  $\geq 8\%$
- Max Diameter: 600mm
- Production Capacity: 50000PCS/Month
- Minimum Order Quantity: 500KGS
- Chemical Composition: Si: 0.05-0.2%, Fe: 0.05%, Cu: 0.1%, Mn: 0.05%, Mg: 0.05-0.1%, Zn: 0.05%, Ti: 0.05%, Other: 0.05%



### More Images



## Product Description

### Custom Industrial Fan Blade Aluminum Profiles

MetalPlus specializes in designing and manufacturing custom industrial aluminum extrusion fan blade profiles tailored to your specific performance and design requirements. With extensive expertise in fan blade profile design, tooling, prototyping, testing, balancing, and large-scale production since 2007.

We supply zero-defect aluminum profiles for our customers!

### Product Specifications

Alloy	AA6063-T5, 6061-T6
Standard	GB/75237-2004
Specification	Customized (OEM)
Design	Custom dies based on customer samples or drawings
Mold Time	Approximately 10 days after drawing confirmation
Length	Custom cut to customer requirements
Thickness	As per customer specifications
MOQ	500kg per design
H.S Code	7604210000
Origin	Shanghai, China
Packing	Cover film or EP foam, bundled with shrink film/carton paper
Delivery Time	20-25 days after order confirmation
Loading Port	Shanghai
Payment Terms	30% deposit, balance before shipment

### 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
6060	0.3-0.6	0.1-0.3	0.1	0.1	0.35-0.6	-	0.15	0.1	0.15	Rest
6005	0.6-0.9	0.35	0.1	0.1	0.40-0.6	0.1	0.1	0.1	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%

#### Surface Treatment Specifications

Class	Min-Average Film Thickness (μm)	Min-Part Film Thickness (μm)	Acid-Resistant CASS	Abrasion Resistance (S)	Abrasion Resistance (h)
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AA10	10	8	16	≥9	≥50
AA15	15	12	32	≥9	≥75
AA20	20	16	56	≥9	≥100
AA25	25	20	72	≥9	≥125

### Technical Support & Services

- Custom design services including CAD drawings and 3D models
- Professional R&D team for design analysis and optimization
- One-stop service including product design, custom molds, aluminum bar melting, extrusion profiling, precision machining, and surface treatment

### Manufacturing Capabilities

#### Extrusion

44 aluminum extrusion lines with PLC control systems, capable of producing profiles with maximum outer diameter of 350mm. Our 6800-ton extruder can handle industrial profiles up to 600mm diameter.

#### Anodizing

6 anodizing production lines providing uniform oxidation film thickness and color options including silver, black, gold, champagne, and imitation steel.

#### Painting

4 powder spraying lines using high-quality Gema Switzerland nozzles with environmentally friendly, durable paint.

#### CNC Machining

Advanced machining equipment including 12 PRATIC machining centers, automatic cutting machines, punching machines, and bending equipment.

### Quality Assurance & Packaging

Strict warehouse management with comprehensive quality inspection before delivery.

### Certifications

### Company History & Projects

Established in 2004, MetalPlus has grown to become a trusted supplier for major international projects and manufacturers.

## Major Projects

Soccer City Stadium, Johannesburg - Main aluminum supplier for Africa's largest stadium

Lobster Trailers - Nordic trailer manufacturer partnership

School Furniture Project - Aluminum legs for school desks



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