



6063 Aluminum Alloy Customized CNC Machining Anodized Surface Industrial Fan Blade

Our Product Introduction

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Basic Information

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



Product Specification

- Material: 6063 /6061 Aluminium Alloy
- Temper: T5/T6
- Surface Treatment: Mill Finish, Powder Coating, Anodizing, Wooden Grain Coating, Polishing, Electrophoresis, PVDF, Sand Blasting
- Width: 90mm To 250mm Or Customized
- Color: Natural Silver, Black, Customizable
- Deep Processing: Cutting, Drilling, Threading, Bending
- Tensile Strength: 6063 T5: $\geq 160\text{Mpa}$, T6: $\geq 205\text{Mpa}$; 6061 T6: $\geq 265\text{Mpa}$
- Yield Strength: 6063 T5: $\geq 110\text{Mpa}$, T6: $\geq 180\text{Mpa}$; 6061 T6: $\geq 245\text{Mpa}$
- Elongation: $\geq 8\%$
- Chemical Composition: 6063: Si 0.2-0.6%, Fe $\leq 0.35\%$, Cu $\leq 0.1\%$, Mn $\leq 0.1\%$, Mg 0.45-0.9%, Cr $\leq 0.1\%$, Zn $\leq 0.1\%$, Ti $\leq 0.1\%$; 6061: Si 0.4-0.8%, Fe $\leq 0.7\%$, Cu 0.15-0.4%, Mn $\leq 0.15\%$, Mg 0.8-1.2%, Cr 0.04-0.25%, Zn $\leq 0.25\%$, Ti $\leq 0.15\%$



More Images



Product Description

Custom CNC Machined Aluminum Fan Blade 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, we deliver precision-engineered solutions.

We supply zero-defect aluminum profiles for our customers!

Product Specifications

Product Name	Aluminum Fan Blade
Material	6063 / 6061 aluminum alloy
Temper	T5 / T6
Surface Treatment	Mill finish, powder coating, anodizing, wooden grain coating, polishing, electrophoresis, PVDF, sand blasting
Width	90mm to 250mm or customized
Color	Natural silver, black, or customized
Deep Processing	Cutting, drilling, threading, bending
Application	Building, industry, machinery
Certification	ISO9001

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	≥ 160 MPa	≥ 110 MPa	≥ 8%
6063	T6	≥ 205 MPa	≥ 180 MPa	≥ 8%
6061	T6	≥ 265 MPa	≥ 245 MPa	≥ 8%

Surface Treatment Specifications

Class	Min-Average Film Thickness (μm)	Min-Part Film Thickness (μm)	Acid-Resistant CASS	Abrasion Resistance (S)	Abrasion Resistance (h)	Class	Abrasion Resistance (f, g/μm)
AA10	10	8	16	≥9	≥50	≥300	
AA15	15	12	32	≥9	≥75	≥300	

A A 2 0	20	16	56	≥9	≥100	≥3 00
A A 2 5	25	20	72	≥9	≥125	≥3 00

Technical Support & Services

- Custom design services including CAD drawings and 3D models for customer confirmation
- Professional R&D team for design analysis and optimization
- Complete "one-stop" service from product design to surface treatment
- Raw material quality control and production process precision

Manufacturing Capabilities

Extrusion

44 aluminum extrusion lines with PLC control systems, including a 6800-ton extruder capable of producing profiles up to 600mm diameter.

Anodizing

6 anodizing production lines producing uniform oxidation films in various colors including silver, black, gold, champagne, and imitation steel.

Painting

4 powder spraying lines using Gema Switzerland nozzles with environmentally friendly, durable paints.

CNC Machining

Advanced machining equipment including 12 PRATIC machining centers, automatic cutting machines, 30 punching machines, and bending equipment.

Quality Assurance & Packaging

Strict warehouse management with manual packaging and thorough inspection before delivery.

Certifications

Company History & Milestones

2004: Recognized brand of the building industry material market

2006: ISO9001 certification and product exemption from quality surveillance inspection

2009: Advanced company status and Jiangsu famous brand certification

2012: Established partnerships with Panasonic and LG

2015: Innovative supplier for German clients

2017: Developed new baseboard heater products

2019: Aluminum shell supplier for world's largest heater manufacturers

2023: Expanding global distribution network

Notable Projects

Soccer City Stadium, Johannesburg: Main aluminum supplier for Africa's largest capacity stadium (94,000 seats)

Lobster Trailers: Nordic trailer manufacturer partnership with optimized design and production

School Furniture Project: Supplied aluminum legs for school desks



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