6063 Aluminum Alloy Customized CNC Machining Anodized Surface Industrial Fan Blade

Basic Information

Certification: SONCAP, ISO, RoHS, TUV

Minimum Order Quantity: 500Price: 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: ≥160Mpa, T6: ≥205Mpa; 6061 T6:

≥265Mpa

• Yield Strength: 6063 T5: ≥110Mpa, T6: ≥180Mpa; 6061 T6:

≥245Mpa

• Elongation: ≥8%

• Chemical Composition: 6063: Si 0.2-0.6%, Fe \leq 0.35%, Cu \leq 0.1%,

Mn ≤0.1%, Mg 0.45-0.9%, Cr ≤0.1%, Zn ≤0.1%, Ti ≤0.1%; 6061: Si 0.4-0.8%, Fe ≤0.7%, Cu 0.15-0.4%, Mn ≤0.15%, Mg 0.8-1.2%, Cr 0.04.0.25%, $\frac{1}{2}$ <0.25%, $\frac{1}{2}$ <0.25%,

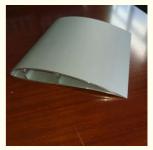


More Images









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

CI a s	Min-Average Film Thickness (μm)	Min-Part Film Thickness (µm)	Acid- Resistant CASS	Abrasion Resistance (S)	Abrasion Resistance (h)	CI as s	Abrasion Resistance (f, g/μm)
A A 1 0	10	8	16	≥9	≥50	≥3 00	
A A 1 5	15	12	32	≥9	≥75	≥3 00	

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	
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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