

Customized CNC Machining 6063 6061 Alloy Anodized Aluminum Cylinder Profile for Electric Motor Shell

Our Product Introduction

for more products please visit us on aluminumextrusion-profiles.com

Basic Information

- Certification: ISO, RoHS
- Minimum Order Quantity: 500
- Price: 2



Product Specification

- Model NO.: Aluminum Cylinder Profile
- Shape: Round
- Grade: 6000 Series
- Temper: T3-T8
- Alloy: Alloy
- Surface Finishing: Anodic Oxidation
- Alloying Ingredient: 6063
- Polished Aluminum: Chemical Polishing
- Material: Aluminum
- Surface Treatment: Anodizing
- Production Capacity: 50000PCS /Month
- Profile Shape: Round, Hollow Profile, Oval, Tube, Flat, Triangle, Square, Rectangle, Rectangular, Pentagon Pentagonal, Hexagon Hexagonal, Heptagon Heptagonal, Octagon Octagonal, Trapezoid Trapezoidal, Diamond, Wave-shape, Curve shape, I-profile, L-profile, T-



More Images



Product Description

Custom CNC Machined Aluminum Profiles for Electric Motor Shells & Cylinder Applications

Our 6063 and 6061 aluminum profiles are precision CNC machined to create high-quality electric motor shells and aluminum cylinder profiles for various industrial applications.

Product Specifications

Item	Pneumatic Cylinder Profile
Material	Aluminum Alloy 6000 series (6005, 6061, 6063, 6082, etc.)
Profile Shapes	Round, Hollow, Oval, Tube, Flat, Triangle, Square, Rectangle, Pentagon, Hexagon, Heptagon, Octagon, Trapezoid, Diamond, Wave-shape, Curve-shape, U-profile, L-profile, T-profile, H-profile, and custom designs
Production Process	Aluminum Extrusion, Fabrication, Anodizing, and comprehensive All-In-One services
Fabrication Methods	Machining, CNC, Sawing, Milling, Punching, Lathing, Tapping, Chamfering, Laser, Welding, Bending, Assembling
Applications	Industrial enclosures, advertising equipment, office furniture, windows & doors, curtain walls, ceiling systems, heat sinks, LED strips, medical equipment, DIY furniture, electrical products
Certifications	ISO9001-2008/ISO 9001:2008 SGS
Surface Guarantee	Color stability for 10-20 years with indoor use
Free Samples	Available with free packaging (shipping charged to buyer)
Packaging Options	EP Paper with Craft Paper/Shrink Film, EP Paper with carton and pallet, or wooden carton
Minimum Order	1000 kgs (flexible based on drawings, material, and fabrication requirements)

Technical Support & Development

With over 600 employees including 50 R&D and structural design professionals, we provide comprehensive technical support from initial design to final production.

Our streamlined process includes:

- Rapid design drawing and heat sink specification development
- Quick quotation and lead time confirmation
- Sample production with extrusion and CNC machining for testing
- Prototype delivery for client approval
- Full-scale production following prototype confirmation

This customized approach delivers high-performance heat sinks at the most cost-effective pricing.

Manufacturing Capabilities

Extrusion Facilities

Our 44 aluminum extrusion lines with PLC control systems produce commercial and industrial profiles up to 350mm outer diameter. Our largest 6800-ton extruder handles complex industrial profiles up to 600mm diameter for applications including radiators, industrial fan blades, motor enclosures, solar cell frames, and architectural components.

Custom Mold Production

We design and manufacture custom molds for complex aluminum profiles, with R&D teams providing cost-effective design solutions.

Anodizing Process

Our 6 anodizing production lines create uniform aluminum oxide layers for enhanced corrosion resistance, hardness, and wear resistance. Available in silver, black, gold, champagne, imitation steel, and custom colors with strict quality control for consistent batch coloring.

Painting Facilities

Four powder spraying lines equipped with Gema Switzerland nozzles using environmentally friendly, durable paints with strong adhesion and color retention.

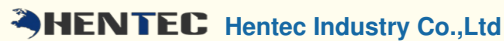
Application Areas

Our aluminum heat sinks and electronic radiators serve critical cooling applications across multiple industries:

- Consumer Electronics: Video cards, CPUs, chassis power supplies
- Industrial Power Systems: UPS power supplies, EPS power supplies, inverters
- Energy Sector: Transformers, monocrystalline/polycrystalline silicon, battery packs
- New Energy: Electronic controllers, charging stations, inverter power supplies
- Industrial Equipment: Switching power supplies, welding machines, communication transmitters
- Infrastructure: Base stations, control cabinets, power regulators, thyristors

Quality & Manufacturing Advantages

- ISO 9001:2008 certified quality management system
- Comprehensive equipment including extrusion machines, powder painting lines, anodizing lines, Wire-cut EDM, CNC, milling, turning, and grinding machines
- Advanced equipment supported by excellent R&D team
- Professional designers and experienced manufacturing workforce
- Strict quality control systems throughout production
- Highly skilled manufacturing processes ensuring precision and reliability



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