



## 6063 6061 6000 Series T3-T8 Customized CNC Machining Anodized Aluminum Electric Motor Housing Shell Profile

Our Product Introduction

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

### Basic Information

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



### Product Specification

- Model NO.: Aluminum Electric Motor Housing
- Shape: Square
- Grade: 6000 Series
- Temper: T3-T8
- Surface Finishing: Anodic Oxidation
- Alloying Ingredient: 6063
- Surface Treatment: Anodizing
- Colour: Silvery /Black
- Polish: Chemical/Mechanical Polish
- Production Capacity: 50000PCS /Month
- 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:  $\geq 8\%$
- Max Diameter: 350mm
- Extrusion Lines: 44



### More Images



## Product Description

### 6063 6061 Customized CNC Machining Anodized Aluminum Electric Motor Housing/Shell Profile

Electric motor housing aluminum extrusion, also known as aluminum alloy motor shell or servo motor housing aluminum profiles, offers superior protection and performance for electric motors.

#### Key Features

- **Raw materials:** 6063, 6061, 6005, 6082 aluminum alloys
- **Temper:** T5, T6
- **Surface Treatment:** Mill finish, Anodized, Powder Coated, Wooden Transfer, and more
- **Processing:** Cutting, milling, punching, stamping, drilling, CNC machining
- **One-stop Service:** Mould design, Extrusion, Finishing, Fabrication, Assembly, and Delivery
- **Packing:** Carton and pallet packaging options
- **Delivery lead-time:** 15-25 days
- **Customization:** Various sizes and styles available with OEM/ODM support

#### Manufacturing Process

*Die design → Die making → Extruding → Cutting → CNC Machining → Surface treatment → Packing*

#### Packaging & Shipping

Products are packed with protective plastic film and sturdy wooden cases suitable for both sea and air shipment.

#### Technical Specifications

##### 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%

#### Technical Support

Our engineering team provides comprehensive support throughout your project:

- Custom design services including CAD drawings and 3D models
- Design optimization to reduce production costs while improving performance
- Complete one-stop manufacturing from raw materials to finished products
- Strict quality control throughout the entire production process

#### Manufacturing Capabilities

##### Extrusion

With 44 aluminum extrusion lines including a 6800-ton unit, we produce industrial profiles up to 600mm in diameter for applications including radiators, fan blades, motor enclosures, and solar cell frames.

## Anodizing

Our 6 anodizing lines produce uniform oxidation films in various colors (silver, black, gold, champagne, imitation steel) with enhanced corrosion resistance and hardness. Strict quality control ensures color consistency across batches.

## Painting

Our 4 powder spraying lines use high-quality Gema Switzerland nozzles with environmentally friendly paints for durable, colorfast finishes.

## CNC Machining

Our advanced machining center includes:

- 12 PRATIC machining centers for milling, drilling, and tapping long profiles (up to 6m)
- Wegoma automatic cutting machines for precise, efficient cutting
- 30 punching machines (50-100 ton capacity) for thick profiles
- 10 stretch/bending machines for precise angle forming
- 10 milling machines for complex plane machining

## Quality Assurance

Finished products undergo strict inspection before being carefully packaged in our organized warehouse system, ensuring quality and traceability.

## Certifications

## Company Milestones

- 2004: Recognized Brand of the Building Industry Material Market
- 2006: ISO9001 Certification
- 2009: Jiangsu Famous Brand Certificate
- 2012: Established partnerships with Panasonic and LG
- 2015: Became supplier for BOSCH (Germany)
- 2019: Major supplier for world's largest heater manufacturers
- 2023: Expanding global distribution network

## Notable Projects

**Soccer City Stadium, Johannesburg:** As the main aluminum supplier for Africa's largest stadium (94,000 seats), our materials contributed to this landmark project.

**Lobster Trailers:** Our R&D team collaborated with this Nordic trailer giant to optimize designs and manufacturing processes, reducing costs while improving performance.

**Educational Furniture:** Supplied aluminum legs for school desks, demonstrating our capability to support diverse applications through strong design and manufacturing expertise.



+86-13861643436



aluminum@hentec.com.cn



aluminumextrusion-profiles.com

Qinfeng Road No.555 Huashi Town Jiangyin Jiangsu China (mainland) 214421