



Customized CNC Machining Aluminum Alloy Railway Fitting Casting Parts

Our Product Introduction

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

Basic Information

- Certification: ISO 9001:2000
- Minimum Order Quantity: 100
- Price: 1.99



Product Specification

- Material: Aluminum Alloy
- Tolerance Grade: 7
- Surface Quality: 12.5
- Production Capacity: 10000 Pieces/Year
- Machining Type: CNC Milling
- Surface Treatment: Polishing
- Alloy Type: 6063, 6061
- Temper Options: T4, T5, T6
- Max Extrusion Diameter: 350mm
- Extrusion Press Capacity: 6800 Ton
- Anodizing Lines: 6
- Powder Coating Lines: 4
- CNC Machining Centers: 12
- Punching Pressure: 50 To 100 Tons
- Profile Length: Up To 6 Meters



More Images



Product Description

Customized Railway Fitting CNC Milling Hardware Aluminum Casting Parts

Metalplus specializes in aluminum industrial profile design and manufacturing with a production base of more than 100,000 square meters and annual capacity exceeding 100,000 tons.

Product Specifications

Item	Aluminum Casting Parts
Material	Alloy 6063, 6061; as requested
Temper	T4, T5, T6
Color	Aluminium Silver, Brilliant Black, Grey

Research & Development Capabilities

- Mould/Tooling analysis, design, and manufacturing
- Mould/Tooling testing and sample confirmation
- CNC machining services
- Surface treatment: Trimming, polishing, cleaning, powder coating
- Full inspection and quality control
- Professional packing solutions

Machining Equipment

- CNC milling, turning, grinding, honing, lapping, broaching and secondary machining
- Integral CNC machineries including four machining centers
- CNC Milling Machines and CNC Lathe Machines
- 4-axis machining capabilities

Quality Testing Equipment

- Hardness testers
- Chemical analysis equipment
- Digital Measuring Projectors
- Dynamic Balancing Testers
- Universal testing machines and Coordinate-Detectors for CNC machining

Quality Certifications

- ISO 9001:2000
- TS16949

Surface Treatment Options

- Powder Coating in RAL Colors, Anodizing (AA10/15/20/25)
- Sandblasting, Brushing, Passivation, Silk screen printing
- Mechanical/Chemical Polishing, Wood grain coating/transfer
- Galvanizing, Nickel/Tin/Chrome/Copper Plating
- PVDF coating, Matt finishes
- Zinc/chrome plating and heat treatment
- Custom surface treatments per customer requirements

Production Applications

- Automotive parts and motorcycle components
- Pump parts and locomotive components
- Machinery parts and metal components
- CNC machining and precision machined parts

Company Advantages

We export the majority of our customized products to the United States and Europe, where our customers have become regular clients. With over 17 years of manufacturing experience in aluminum extrusion, we possess strong capabilities in design, extrusion, CNC machining, milling, and turning with fast turnaround times.

Our complete metal processing facility includes stamping, laser cutting, CNC bending, and welding capabilities. We maintain strict control over all manufacturing steps to ensure long-term stability and excellent product quality.

Technical Support Services

Based on customer requirements, we provide comprehensive design support including CAD drawings and 3D models for confirmation, custom mold creation, and extrusion of aluminum profiles that meet exact specifications.

For clients with existing designs, our professional R&D team analyzes and optimizes designs using our extrusion processing experience to reduce production costs and improve product performance.

Our "one-stop" service model encompasses product design, custom mold creation, aluminum bar melting and casting, extrusion profiling, precision machining, and surface treatment. We maintain strict control over raw material composition and production accuracy to deliver high-quality products.

Factory Equipment Capabilities

Extrusion

Equipped with 44 aluminum extrusion lines, MetalPlus produces various standards of commercial and industrial aluminum profiles with maximum outer diameter of 350mm. Our largest 6800-ton extruder handles industrial profiles up to 600mm diameter, serving diverse customer requirements including radiators, industrial fan blades, motor enclosures, solar cell frames, doors, and windows.



Anodizing

Our 6 anodizing production lines create uniform aluminum oxide layers for improved corrosion resistance, hardness, and wear resistance. Available in silver, black, gold, champagne, and imitation steel colors, with custom options available. All products undergo rigorous inspection to ensure consistent quality.



Painting

Four powder spraying lines equipped with high-quality Gema Switzerland spray nozzles use safe, environmentally friendly paint with strong adhesive force and durable color retention.

CNC Machining

Advanced machining equipment operated by experienced technicians ensures fine machining precision and product quality. Our capabilities include:

- 12 PRATIC machining centers for milling, drilling, and tapping profiles up to 6 meters
- Fully automatic Wegoma cutting machines for precise cutting with continuous material feeding
- 30 punching machines (50-100 ton capacity) for thick profiles over 5mm
- 10 stretch bending machines for precise arc and angle bending
- 10 milling machines for planes, bevels, and grooves



Packing & Shipping

Finished products are manually packaged and ready for delivery. Strict warehouse management procedures ensure organized storage with detailed transaction records and pre-delivery examination of all products.



Company History

- 2004: Recognized brand of the building industry material market
- 2006: Certificate for product exemption from quality surveillance inspection and ISO9001 certification
- 2009: Advanced company status, Jiangsu famous brand certificate, and credible product of quality in Jiangsu Province
- 2012: Established business relationships with Panasonic and LG
- 2015: Became innovative producer and supplying partner for European clients
- 2017: Developed new baseboard heater products
- 2019: Cooperated with world's largest heater manufacturers as aluminum shell supplier
- 2023: Expanding overseas distributor network for win-win market benefits

Notable Projects

Soccer City Stadium, Johannesburg

As the main aluminum supplier for Africa's largest capacity stadium (94,000 seats), we were honored to participate in this major South African construction project that received unanimous praise upon completion.

Lobster Trailers Partnership

Proud cooperation with Nordic trailer giant Lobster Trailers. Our professional R&D team analyzed and improved designs, processing them with excellent equipment and technology to minimize production costs and enhance product performance.

School Desk Project

Supplied aluminum legs for school desks through local customer Dadn's successful school project bid. Our strong design capabilities and mature techniques continue to help customers win tenders.



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