



Tolerance $\pm 0.01\text{mm}$ CNC Aluminum Extrusion For Medical Device Housings / Automotive

Our Product Introduction

Basic Information

- Place of Origin: China Shenzhen
- Brand Name: Aluminum
- Certification: Polishing, Anodizing, Painting, Chrome Plating, Silkscreen
- Model Number: CNC Aluminum Extrusion
- Minimum Order Quantity: 1 piece
- Price: USD 30 piece
- Packaging Details: Carton, Plywood Box
- Delivery Time: 3 - 5 Days
- Payment Terms: T/T, Paypal
- Supply Ability: 1 piece per day



Product Specification

- Tolerance: $\pm 0.01\text{mm}$
- Application: Aerospace Prototypes, Medical Device Housings And Enclosures
- Material: Aluminum And Other Metal Material
- Type: CNC Extrusion Aluminum Machining
- Surface Treatment: Anodized, Painting, Plating. Powder Coating
- Lead Time: 3 - 5 Days
- Usage: Automotive Industry, Electronics Products, Industrial Equipment And Machinery
- Payment Term: T/T, Paypal
- Highlight: housings cnc aluminum extrusion, housings cnc aluminium extrusion, medical device cnc aluminum extrusion



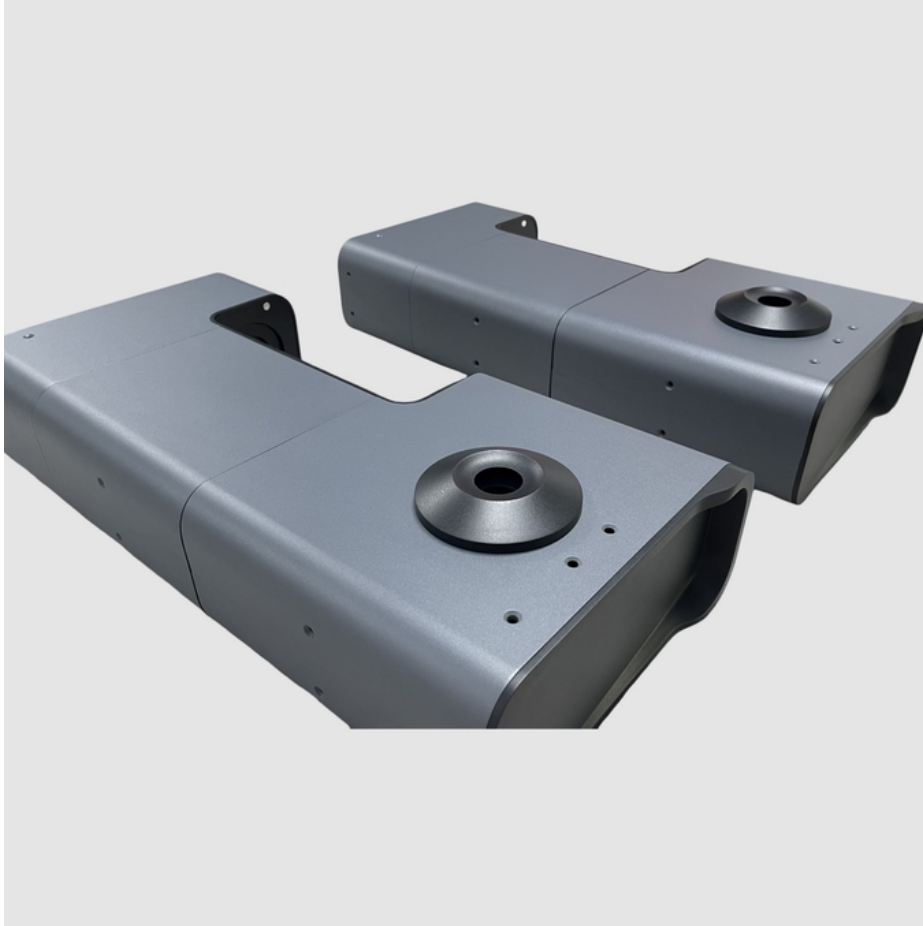
Product Description

CNC Aluminum Extrusion: Unleashing Creativity and Precision for Every Industry

In the fast-paced realm of manufacturing, CNC aluminum extrusion emerges as a revolutionary technology that materializes concepts with unparalleled precision and efficiency. As a premier CNC manufacturing entity in China, our expertise lies in delivering custom aluminum extrusion solutions catering to diverse sectors, including automotive, aerospace, construction, and electronics. Explore how our cutting-edge capabilities can optimize your production workflow and augment your product offerings.

Our Capabilities

1. High Precision Extrusion: We utilize advanced CNC machines capable of handling complex extrusions with tight tolerances. Our technology allows us to produce profiles with intricate geometries and exact dimensions, ensuring each piece meets stringent specifications with impeccable accuracy.

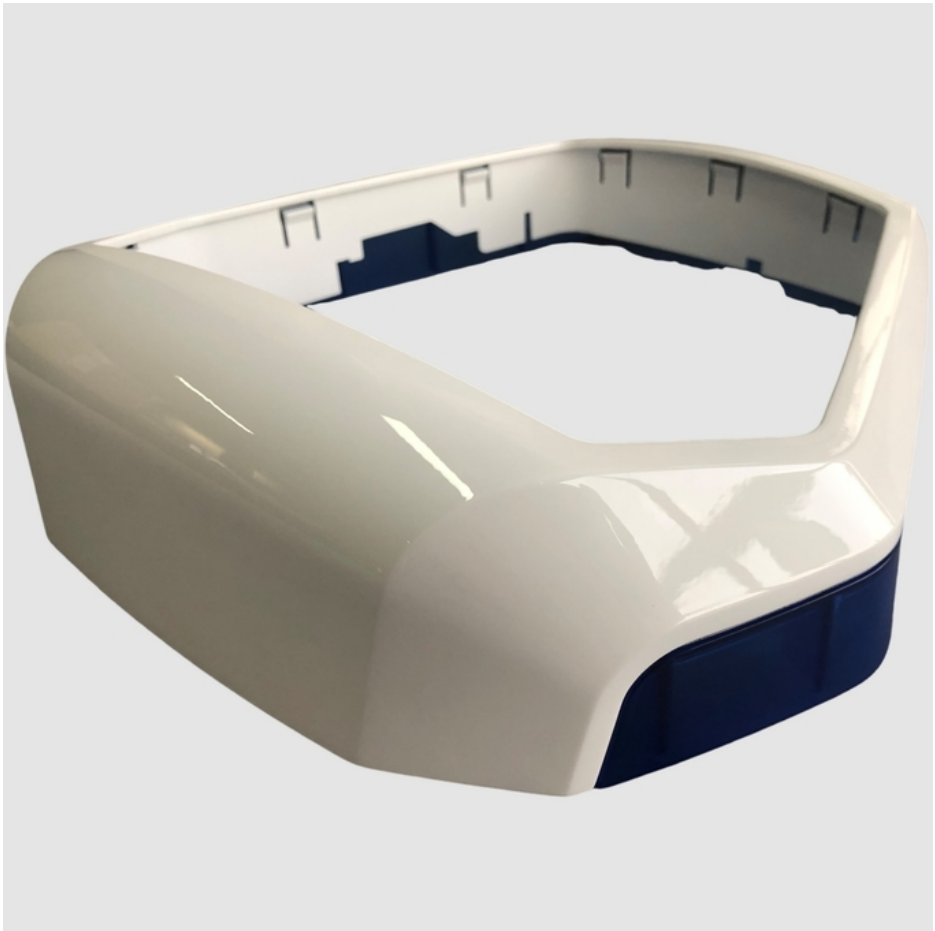


2. Versatile Material Options: Our aluminum extrusion services offer a variety of alloys, each selected for its unique properties to match specific environmental and mechanical requirements. From standard 6061 and 7075 alloys to custom blends, we provide the optimal material for your specific application.



3. Custom Dies and Tooling: Equipped with state-of-the-art tooling capabilities, we design and manufacture custom dies that allow for endless possibilities in shape and size. This flexibility enables us to create bespoke profiles that are precisely tailored to your project's needs.

4. Rapid Prototyping and Production: Speed to market is crucial in today's competitive landscape. We offer rapid prototyping services that accelerate the development phase, allowing for quicker feedback and adjustments. Our efficient production processes ensure that once a design is finalized, mass production can commence swiftly, reducing time-to-market significantly.



5. Superior Finishing Techniques: A good product isn't just about function—it must also appeal aesthetically. Our CNC aluminum extrusion services include a range of finishing options, such as anodizing, powder coating, and painting, to improve both appearance and resistance to corrosion and wear.

| CNC Turning Tolerances | |
|---|--|
| we machine CNC turning lathe parts to meet tight tolerance requirements. Based on your design, our CNC lattes can reach tolerances of up to $\pm 0.005"$. Our standard tolerances for CNC milled metals is ISO 2768-m and ISO 2768-c for plastics. | |
| Type | CNC Turning Tolerances |
| Linear dimension | ± 0.025 mm- ± 0.001 inch |
| Hole diameters | ± 0.025 mm- ± 0.001 inch |
| Shaft diameters | ± 0.025 mm- ± 0.001 inch |
| Part size limit | 950 * 550 * 480 mm-37.0 * 21.5 * 18.5 inch |

6. Eco-Friendly Production: Aluminum is a sustainable material, being both recyclable and durable. Our extrusion processes are designed to minimize waste and reduce environmental impact, aligning with global standards for eco-friendly manufacturing practices.

| Materials for CNC Turning Parts | | | |
|---|--|---------------------------|----------|
| Our CNC turning processes are compatible with a wide range of materials, including machine-grade metals and plastics. Depending on your applications, we can create precise rapid prototypes and low-volume production from various superior-quality materials. Check out some of the common materials for your CNC turning projects. | | | |
| | ALuminum Aluminum is a highly ductile metal, making it easy to machining. The material has a good | | ALuminum |
| | | Machinable Material Types | |
| | | Lead Time | 3 days |
| | | | |



strength-to-weight ratio and is available in many types for a range of applications.

| | |
|---------------|-------------------|
| Tolerances | ±0.01mm |
| Max part size | 200 x 80 x 100 cm |



Copper

Copper displays excellent thermal conductivity, electrical conductivity and plasticity. It is also highly ductile, corrosion resistant and can be easily welded.

| | |
|----------------|-------------------|
| | Copper |
| Wall Thickness | 0.75 mm |
| Lead Time | 3 days |
| Tolerances | ±0.01mm |
| Max part size | 200 x 80 x 100 cm |



Brass

Brass has desirable properties for a number of applications. It is low friction, has excellent electrical conductivity and has a golden (brass) appearance.

| | |
|----------------|-------------------|
| | Brass |
| Wall Thickness | 0.75 mm |
| Lead Time | 3 days |
| Tolerances | ±0.01mm |
| Max part size | 200 x 80 x 100 cm |



Stainless Steel

Stainless steel is the low carbon steel that offers many properties that are sought after for industrial applications. Stainless steel typically contains a minimum of 10% chromium by weight.

| | |
|----------------|-------------------|
| | Stainless Steel |
| Wall Thickness | 0.75 mm |
| Lead Time | 3 days |
| Tolerances | ±0.01mm |
| Max part size | 200 x 80 x 100 cm |



Titanium

Titanium has a number of material properties that make it the ideal metal for demanding applications. These properties include excellent resistance to corrosion, chemicals and extreme temperatures. The metal also has an excellent strength-to-weight ratio.

| | |
|----------------|-------------------|
| | Titanium |
| Wall Thickness | 0.75 mm |
| Lead Time | 3 days |
| Tolerances | ±0.01mm |
| Max part size | 200 x 80 x 100 cm |




Plastics

Plastics are also a very popular option for CNC machining because of its wide choices, relatively lower price, and significantly faster machining time needed. We provide all common plastics for CNC machining services.

| | |
|---------------------------|-------------------|
| | Plastics |
| Machinable Material Types | |
| Lead Time | 3 days |
| Tolerances | ±0.01mm |
| Max part size | 200 x 80 x 100 cm |

Magnesium

| | | | |
|---|--|----------------|-------------------|
|  | Magnesium | Wall Thickness | 0.75 mm |
| | Magnesium is a silver-white metal with a density of 1.74 g/cm ³ . Its characteristics are small density, good ductility, high strength, large elastic modulus, good heat dissipation, good shock absorption, greater impact load capacity than aluminum alloy, and good corrosion resistance to organic substances and alkalis. | Lead Time | 3 days |
| | | Tolerances | ±0.01mm |
| | | Max part size | 200 x 80 x 100 cm |

7. International Standards Compliance: Our manufacturing facilities adhere to international quality standards, including ISO 9001, ensuring that our products consistently meet the high expectations of our global clientele. We understand the intricacies of international trade and ensure compliance with all relevant regulations and standards.

8. Tailored Solutions and Support: We pride ourselves on our customer-centric approach. Our team of experts works closely with each client to understand their specific needs and challenges. We provide ongoing support from the design phase through to post-production, ensuring a seamless experience and optimal outcomes.

8. Inspection Support:

| Our First Article Inspection Process | | | | |
|---|---|---|--|---|
| When Barana Rapid receives your order requirements, we will carry out the first article inspection service. According to our company's regulations, NOBLE will provide the first article inspection service to ensure better completion of your machining project if the order demand reaches 3,000 US dollars or the minimum order quantity is 300 pieces. | | | | |
| | Step 1 | Step 2 | Step 3 | Step 4 |
| Barana Rapid | Offer first article inspection We offer first article inspection services for batch production. | Draft contract We review the project and contact customers for detailed information. | Produce sample We produce sample parts according to the FAI agreement and deliver them to you. | Full-scale production The full-scale production starts and finishes production within lead time. |
| Client | Request inspection You request first article inspection for a project that meets our FAI requirements. | Sign contract You sign the FAI agreement provided by us and agree on our Terms and Conditions. | Receive sample You receive and examine the parts, inform us of full-scale production may begin. | Receive products You receive your prototypes or production parts on the required lead time. |



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