

Cnc Machining Auto Spare Parts Aluminum 6063 6061 Cnc Machining Aluminium Parts

Basic Information

Place of Origin: China Shenzhen

Brand Name: CNC Precision Machining

• Certification: Polishing, Anodizing, Painting, Chrome Plating,

Silkscree

Model Number: Aluminum,SS,SGCC,Copper,MS

• 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/day



Product Specification

Material: Aluminum 6082, Aluminum 7075, Aluminum

6063, Aluminum 6061, Copper, Brass, SS304

• Tolerance: ±0.1mm, ±0.02, ±0.05,

Surface Finish: Debur, Polishing, Anodizing, Painting, Chrome

Plating, Silkscreen, Laser Etching

Courier: DHL, FedEx, UPSShipping: Express Or Air Freight

• Usage: Medical Device, Aerospace

Prototype, Automotive Rapid Prototyping

Machining Type: CNC Precision Machining

• Processing Time: 3-5 Days

Highlight: 6082 cnc machining aluminium parts,

aluminum 6063 cnc machining auto spare parts,

6061 cnc machining aluminium parts



Product Description

Understanding CNC Machining

CNC machining stands for Computer Numerical Control machining, a method where computer-controlled machine tools precisely remove material from a workpiece. This computerized control results in faster, more precise, and accurate machining compared to conventional methods.

At Baranar Rapid, we utilize advanced equipment to provide a wide range of CNC machining services, including milling, turning, EDM, wire EDM, surface grinding, and more. Our imported 3, 4, and 5-axis CNC machining centers, operated by skilled machinists, can produce turned and milled parts using various plastic and metal materials. Additionally, our robust supply chain allows us to scale according to project requirements.

CNC Machining + Assembly Check



Tolerances

Our CNC machining tolerances adhere to DIN-2768-1-fine for metals and DIN-2768-1-medium for plastics. Tolerance levels may vary depending on part geometry and material type. Our project managers work closely with clients to ensure the highest precision possible for each project.

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 strength-to-weight ratio and is available in many types for a range of applications.		ALuminum
0 0		Machinable Material Types	AL 6061, AL6063,AL6082,AL7075
		Lead Time	3 days
		Tolerances	±0.01mm
		Max part size	200 x 80 x 100 cm
	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 Brass has desirable properties for a number of applications. It is low friction, has excellent	Wall Thickness	0.75 mm
		Lead Time	3 days

	electrical conductivity and has a golden (brass) appearance.	Tolerances	±0.01mm	
		Max part size	200 x 80 x 100 cm	
	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 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	
8/	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	ABS,PC,PMMA,PTFE,PVDF,POM,PA	
		Lead Time	3 days	
		Tolerances	±0.01mm	
		Max part size	200 x 80 x 100 cm	
	Magnesium Magnesium is a silver-white metal with a density of 1.74 g/cm3. 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.		Magnesium	
		Wall Thickness	0.75 mm	
		Lead Time	3 days	
		Tolerances	±0.01mm	
		Max part size	200 x 80 x 100 cm	

Applications of CNC Machining

Our precision CNC machining services are employed in producing complex finished parts, components, and tools for plastic injection molding or pressure die casting. Additionally, CNC manufacturing is utilized for secondary operations such as drilling, tapping, and milling on machined parts or components from other processes. Among CNC machine tools, CNC mills are the most common and versatile multi-axis machines used in our daily operations at Barana Rapid.

CNC Machining + Assembly Check



Common Metal Materials for CNC Machining

Aluminum 6061: Commonly used for various applications such as auto parts, bicycle frames, sporting goods, aircraft components, and RC vehicle frames.

Aluminum 7075: Known for its strength, often used in high-stress applications like aerospace, automotive, and recreational equipment.

Brass: Versatile alloy used in plumbing fittings, decorative hardware, naval hardware, musical instruments, and more.

Magnesium AZ31: Lightweight alloy favored for aircraft components, power tools, laptop cases, and camera bodies.

Stainless Steel 303, 304, 316: Stainless steels with varying properties suitable for nuts, bolts, fittings, shafts, gears, kitchen accessories, architectural elements, and marine applications.

Carbon Steel 1045: Commonly used in industrial applications for nuts, bolts, gears, shafts, connecting rods, and mechanical parts requiring strength.

Titanium: High-strength, lightweight material utilized in aerospace, military, biomedical, and industrial applications.

Common Plastic Materials for CNC Machining

Plastic resins used for CNC milling and turning must be rigid enough to hold their shape while clamped. The following types of plastic resin have proven themselves over the years:

ABS

Tough, impact-resistant, and resistant to chemicals and electrical current, ABS is commonly used in automotive components, power tools, toys, and sporting goods.

Nvlon

With greater tensile strength, Nylon is used for fabric, rope, and mechanical parts, often mixed with ABS resins for enhanced properties.

PMMA Acrylic

Rigid and transparent, PMMA is used for clear optical parts, display screens, light pipes, lenses, enclosures, and food storage.

PEEK

A high-strength and stable engineering plastic, PEEK is used for advanced medical, aerospace, and electronic components, known for its resistance to high temperatures.

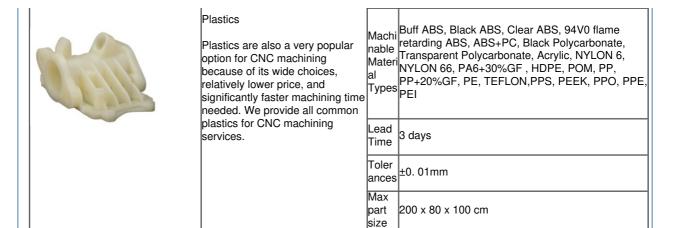
UHMWPE

Ultra high molecular weight polyethylene, known for its hardness, strength, chemical resistance, and slippery surface, is commonly used in joint replacements, marine environments, and gear trains.

Materials for Custom CNC Machining Parts
Various materials are available for CNC machines, giving you options for rapid prototyping and custom production runs of complex parts. We provide instant quotes on more than 150 metals and plastics for your manufacturing needs, and you can even compare prices on different processed materials.

Aluminum

100 D	Aluminum is a highly ductile metal, making it easy to machining. The material has a good strength-to-weight ratio and is available in many types for a range of applications.	Types Lead Time Toler ances Max	AL6061-T6,AL6063-T6,AL6082 AL7075-T6,AL5052-H32
	Copper Copper displays excellent thermal conductivity, electrical conductivity and plasticity. It is also highly ductile, corrosion resistant and can be easily welded.	ness Lead Time Toler ances Max	0. 75 mm 3 days ±0. 01mm 200 x 80 x 100 cm
	Brass has desirable properties for a number of applications. It is low friction, has excellent electrical conductivity and has a golden (brass) appearance.	ness Lead Time Toler ances Max	0. 75 mm 3 days ±0. 01mm 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.	Machi nable Materi al Types Lead Time Toler ances Max	304 SS, 303 SS, 316 SS, SS 430F, 301 SS etc. 3 days
	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.	Titaniu Wall Thick ness Lead Time Toler ances Max	um 0. 75 mm 3 days ±0. 01mm 200 x 80 x 100 cm
		Plastic	CS .



Inspections and Review for Every Stage of Production

To ensure quality from start to finish, Barana Rapid provides the following inspection and review services:

Extensive incoming materials verification

Design for manufacturing reviews for all quotes provided

Contract reviews upon receipt of POs

First article and in-process inspections

Final inspections and testing with reports and certifications as required

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, Barana Rapid 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.

your machining project it the cross demand readines e, our est demand of the minimum cross quartery to ever process.				
	Step 1	Step 2	Step 3	Step 4
Barana Rapid	inspection We offer first article inspection services for	We review the project and contact customers for detailed information.	FAI agreement and deliver them to you.	Full-scale production The full-scale production starts and finishes production within lead time.
Client	You request first article inspection for a project	You sign the FAI agreement provided by us and agree on our	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.

Quality Inspection



Packing









CUSTOM

Bubble bag

Bubble bags

Cartons

Customized packing as custom request









Carton

Pallet carton

Wooden case

Shipping

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