

High Precision CNC Parts with Anodized Finishes Supplier Corrosion Resistance Ensured

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen China
- Brand Name: Xianheng
- Certification: ISO9001:2015
- Model Number: CNC-XG-092
- Minimum Order Quantity: 1 pcs
- Price: USD $0.1-$1.99
- Packaging Details: Carton, As Customers'packaging requirements
- Delivery Time: Samples 7-10 days, Mass production 20-25 days
- Payment Terms: T/T, Western Union,
- Supply Ability: 10000 pcs per week



Product Specification

- Application: Automotive, Aerospace, Medical, Etc.
- Drawing Format: CAD, PDF, JPG, Etc.
- Inspection: 100% Inspection Before Shipment
- Lead Time: 7-15 Days
- MOQ: 1 Piece
- Material: Metal
- Package: Carton Box, Wooden Box, Etc.
- Payment Term: T/T, L/C, PayPal, Etc.
- Process: CNC Machining
- Size: Customized
- Surface Treatment: Polishing, Sandblasting, Anodizing, Etc.
- Tolerance: ±0.005mm
- Transport: By Air, By Sea, By Express, Etc.



More Images



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Our Product Introduction

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Product Description

What We Can Provide

High Precision CNC Parts with Anodized Finishes Supplier Corrosion Resistance Ensured

Description Of High Precision CNC Parts with Anodized Finishes Supplier Corrosion Resistance Ensured

This specialized supplier delivers high-precision CNC-machined components enhanced with anodized finishes to ensure superior corrosion resistance, durability, and aesthetic quality. Using advanced multi-axis CNC machining centers, the process achieves tolerances as tight as ±0.0005 inches while applying Type II (sulfuric acid) or Type III (hardcoat) anodizing to aluminum, titanium, and other alloys. The anodizing layer, typically 3–25µm thick, acts as a protective barrier against environmental factors such as moisture, chemicals, and UV exposure, meeting ASTM B117 salt spray test standards (1,000+ hours) and equivalent industry anodizing specifications.

Material Of High Precision CNC Parts with Anodized Finishes Supplier Corrosion Resistance Ensured

Processing	CNC Turning, CNC Milling, Laser Cutting, Bending, Spinning, Wire Cutting, Stamping, Electric Discharge Machining (EDM), Injection Molding
Materials	Aluminum: 2000 series, 6000 series, 7075, 5052, etc.
	Stainless steel: SUS303, SUS304, SS316, SS316L, 17-4PH, etc.
	Steel: 1214L/1215/1045/4140/SCM440/40CrMo, etc.
	Brass: 260, C360, H59, H60, H62, H63, H65, H68, H70, Bronze, Copper
	Titanium: Grade F1-F5
	Plastic: Acetal/POM/PA/Nylon/PC/PMMA/PVC/PU/Acrylic/ABS/PTFE/PEEK etc.
Surface Treatment	Anodized, Bead Blasted, Silk Screen, PVD Plating, Zinc/Nickel/Chrome/Titanium Plating, Brushing, Painting, Powder Coated, Passivation, Electrophoresis, Electro Polishing, Knurl, Laser/Etch/Engrave etc.
Tolerance	±0.002 ~ ±0.005mm
Surface Roughness	Min Ra 0.1~3.2

Application Of High Precision CNC Parts with Anodized Finishes Supplier Corrosion Resistance Ensured

1. Computers and Laptops: Skived heatsinks are widely used in computer processors, graphics cards, and other internal components to dissipate heat generated during intense computing tasks. They help prevent overheating and maintain optimal performance.

2. LED Lighting: LED lights generate heat, and efficient cooling is essential to maintain their longevity and brightness. Skived heatsinks are used in various LED lighting applications, including residential, commercial, and automotive lighting systems.

3. Audio Amplifiers: High-power audio amplifiers generate significant heat during operation. Skived heatsinks are employed to cool down the amplifier circuitry, ensuring stable performance and minimizing distortion.

Features Of High Precision CNC Parts with Anodized Finishes Supplier Corrosion Resistance Ensured

1. Efficient Heat Dissipation: Aluminum is a highly efficient conductor of heat, and skived heatsinks are designed to maximize the surface area for heat dissipation. The skived fin structure enhances the heatsink's ability to transfer heat away from the electronic components.

2. Thin and Lightweight: Skived heatsinks are manufactured using a precision machining process that allows for the creation of thin and lightweight fins. This design makes them suitable for applications where space and weight are critical considerations.

3. Customizable Fin Geometry: The skiving process allows for the creation of intricate and customizable fin geometries, which can be tailored to specific thermal requirements and airflow conditions. This flexibility ensures optimal performance for various applications.

Why Choose Us

Advantages

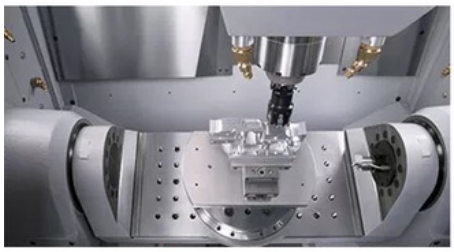
Enhanced Durability in Harsh Environments
Anodized surfaces resist corrosion from saltwater, acids, and industrial chemicals, making them ideal for marine, aerospace, and medical devices. For example, anodized titanium surgical implants withstand sterilization cycles without degradation, while aluminum heat sinks resist galvanic corrosion in outdoor electronics.

Improved Mechanical & Aesthetic Performance

Hardcoat anodizing (Type III) increases surface hardness to 60–70 Rockwell C, reducing wear in high-friction components (e.g., gears, bearings). Simultaneously, anodizing enables customizable colors (black, blue, gold, etc.) via dye infusion, allowing functional branding and thermal management (dark colors absorb heat, light colors reflect it).

Electrical Insulation & EMI Shielding
Anodized layers act as natural electrical insulators (dielectric strength up to 1,000V), critical for electronic enclosures and connectors. When combined with conductive coatings (e.g., EMI gaskets), anodized parts achieve >60dB EMI shielding effectiveness, meeting FCC/CE compliance for 5G and IoT devices.

Sustainable & Cost-Effective Lifecycle
Anodizing is a zero-waste process—98% of bath chemicals are recyclable—and eliminates the need for frequent replacements. Compared to paint or powder coating, anodized surfaces require no maintenance, reducing long-term ownership costs by 30–50% for industrial equipment, solar panels, and automotive components.



High Precision

5-Axis CNC & Imported machines with accuracy ±0.02-0.10mm



Fast Lead Time

Multipe CNC machines, skillful workers, guarantee fast lead time



Strictly Confidential

We will protect the customers'design and the customer can request a confidentiality agreement



Quality Inspection

We have a strict quality inspection process to ensure the quality of our products

Factory Show

Factory Equipment







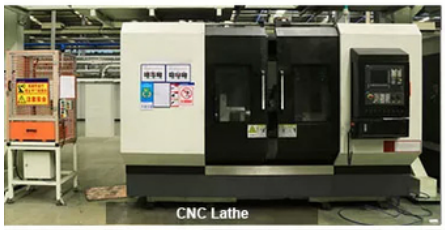


















FAQ

Q1: Where can I get product & price information?
A1:Send us inquiry e-mail, we will contact you as we receive your mail.

Q2: How long can I get the sample?
A2:Depends on your specific items, within 3-7 days is required generally.

Q3: What kinds of information you need for quote?
A3:Kindly please provide the product drawing in PDF, and will be better you can provide in STEP or IGS.

Q4: What are the payment terms?
A4: We accept 50% as payment deposit, when the goods is done, we take photos for your check and you then pay the balance.

Q5: Are you a trading company or factory?
A5:We are direct factory with 10 experienced engineers and more than 650 employees as well approximate 2,000 square ft. workshop area.

Q6: What shall we do if we do not have drawings?
A6:Please send your sample to our factory, then we can copy or provide you better solutions. Please send us pictures or drafts with dimensions (Length, Hight, Width), CAD or 3D file will be made for you if placed order.

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