



## Tight Tolerance Brass CNC Parts for Aerospace Medical and Electronics with Advanced Machining and Precision Machining

Our Product Introduction

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

### Basic Information

- Place of Origin: Shenzhen China
- Brand Name: Xianheng
- Certification: ISO9001:2015
- Model Number: BS-CNC-083
- 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, MoneyGram
- Supply Ability: 10000 pcs per week



### Product Specification

- Cnc Machining Or Not: CNC Machining
- Type: Milling, Turning, Machining
- Material Capabilities: Copper, Aluminum, Bronze, Stainless Steel, Brass
- Surface Treatment: Anodized, Anodizing, Anodize/natural, Sandblast, Silk-screen
- Application: Machinery, Automotive, Laptop, Industrial Equipment, Engineering
- Tolerance: 0.01mm, 0.05 Mm, +/-0.005, 0.003-0.05mm
- Service: OEM/ODM, OEM ODM Metal Stamping, Customized OEM OEM ODM, OEM Service
- Color: As Per Customers' Requirement
- Keyword: CNC Milling Brass Parts
- Sample: Acceptable



### More Images



## Product Description

### What We Can Provide

#### Tight Tolerance Brass CNC Parts for Aerospace Medical and Electronics with Advanced Machining and Precision Machining

#### Description of Tight Tolerance Brass CNC Parts for Aerospace Medical and Electronics with Advanced Machining and Precision Machining

Precision brass CNC parts are engineered for industries where tight tolerances, reliability, and performance are critical. Brass, an alloy of copper and zinc, is chosen for its excellent machinability, corrosion resistance, thermal/electrical conductivity, and low friction, making it ideal for aerospace, medical, and electronics applications. Advanced CNC machining techniques—such as multi-axis milling, high-speed machining (HSM), and micro-machining—enable the production of components with tolerances as tight as  $\pm 0.003\text{mm}$  ( $\pm 0.0001$  inches), meeting the stringent demands of these sectors.

#### Specification of Tight Tolerance Brass CNC Parts for Aerospace Medical and Electronics with Advanced Machining and Precision Machining

Business Type	CNC Machined Parts Factory / Manufacturer
Service	1. CNC Machining 2. Turning and Milling 3. CNC Turning 4. OEM Parts
Material	Aluminum: 5052, 6061, 6063, 6082, 7075-T etc 2. Steel: 4140, Q235, Q345B, etc. 3. Titanium: TA1, TA2/GR2, TA4/GR5, TC4, TC18, etc. 4. Stainless steel: 303, 304, 316L, etc. 5. Brass: C36000, C37700, C26800, C22000 etc 6. Plastic: POM, ABS, Nylon, etc.
Main Equipment	CNC Machining center (Milling), CNC Lathe, Grinding machine
Treatment	Sandblasting, Anodize color, Blackening, Zinc/Nickel Plating, Polish, Passivation PVD, Titanium Plating, Electro galvanizing, electroplating chromium, electrophoresis, QPQ (Quench-Polish-Quench), Electro Polishing, Chrome Plating, Knurl, Power coating, Laser etch Logo,
Tolerance	$\pm 0.01\text{mm}$ $\pm 0.05\text{mm}$
Drawing format	STEP, STP, GIS, CAD, PDF, DWG, DXF etc or samples.

#### Application Of Tight Tolerance Brass CNC Parts for Aerospace Medical and Electronics with Advanced Machining and Precision Machining

1. Auto Components Hardware Parts Auto Parts
2. Communication Equipment
3. Industrial Equipment
4. Medical Equipments Mechanical Parts
5. Ship Accessories
6. Electrical Equipment
7. Mechanical Equipment

#### Quality Control

1. Checking the raw material after they reach our factory----- Incoming quality control ( IQC)
2. Checking the details before the production line operated
3. Have full inspection and routing inspection during mass production---In process quality control (IPQC)
4. Checking the goods after they are finished---- Final quality control (FQC)
5. Checking the goods after they are finished-----Outgoing quality control (OQC)

### Why Choose Us

#### Advantages

##### Unmatched Precision & Consistency

Advanced CNC machining eliminates human error through automated tool paths, ensuring identical parts with tolerances as tight as  $\pm 0.003\text{mm}$ . This is critical for aerospace fuel systems, where a  $0.001\text{mm}$  deviation could compromise safety, or medical implants requiring biocompatibility.

##### Cost-Effective High-Volume Production

Brass's high machinability reduces tool wear and production time, lowering costs for large-scale orders. Aerospace manufacturers can produce thousands of precision fittings with minimal waste, while electronics firms benefit from affordable prototyping and mass production.

### Corrosion Resistance & Longevity

Brass resists tarnishing and corrosion, making it ideal for harsh environments. Medical devices like surgical instruments or electronic connectors exposed to moisture/chemicals maintain performance over decades, reducing replacement costs.

### Design Flexibility for Complex Geometries

Advanced techniques like multi-axis milling and micro-machining enable the production of intricate shapes, such as aerospace turbine blades with internal cooling channels or medical implants with porous structures for bone integration. This flexibility accelerates innovation in product design.

## Factory Show

### Factory Equipment



WEDM



Milling Machine



CNC Wire Cut



Coordinate measuring machine



CNC Bending Machine



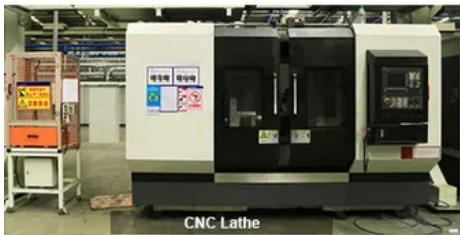
Hydraulic Press Machine



SLS/SLA Machine



5-Axis CNC



CNC Lathe



Laser cutting Machine



CNC Punching Machine



Injection Molding machine



## 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, Height, Width), CAD or 3D file will be made for you if placed order.





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