Precision Brass CNC Parts Produced with Advanced CNC Machining Techniques for Tight Tolerances and Smooth Finishes

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen China
- Brand Name: Xianheng
- Certification: ISO9001:2015
- Model Number: BS-CNC-079
- 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

Our Product Introduction

for more products please visit us on cnc-metalmachining.com

Product Description

What We Can Provide

Precision Brass CNC Parts Produced with Advanced CNC Machining Techniques for Tight Tolerances and Smooth Finishes

Description of Precision Brass CNC Parts Produced with Advanced CNC Machining Techniques for Tight Tolerances and Smooth Finishes

Precision brass CNC parts are manufactured using advanced computer numerical control (CNC) machining techniques to achieve tight tolerances (±0.005 mm or better) and smooth surface finishes (Ra ≤ 0.8 µm). Brass, an alloy of copper and zinc, is favored for its excellent machinability, corrosion resistance, and aesthetic appeal, making it ideal for high-precision applications. Advanced CNC techniques such as five-axis machining, high-speed machining (HSM), Swiss-type turning, and adaptive control systems enable the production of complex geometries with minimal tool wear and exceptional dimensional accuracy.

Specification of Precision Brass CNC Parts Produced with Advanced CNC Machining Techniques for Tight Tolerances and Smooth Finishes

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, Blackenning, Zinc/Nickl Plating, Polish,,Passivation PVD, Titanium Plating,Electrogalvanizing,electroplating chromium, electrophoresis, QPQ(Quench-Polish-Quench),Electro Polishing,Chrome Plating, Knurl,Power coating,Laser etch Logo,
Tolerance	±0.01mm ±0.05mm
Drawing format	STEP,STP,GIS,CAD,PDF,DWG,DXF etc or samples.

Application Of Precision Brass CNC Parts Produced with Advanced CNC Machining Techniques for Tight Tolerances and Smooth Finishes

1. Auto Components Hardware Parts Auto Parts
2. Communication Equipment
3. Industrial Equipment
4. Medical EquipmentsMechanical 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

Five-Axis CNC Machining
Enables simultaneous movement along five axes (X, Y, Z, A, B) to machine intricate shapes in a single setup.
Ideal for complex geometries like curved slots, angled holes, and 3D contours.
Reduces repositioning errors, ensuring dimensional accuracy within ±0.005 mm.

High-Speed Machining (HSM)
Uses spindle speeds >10,000 RPM and feed rates of 20–50 m/min to cut brass efficiently.
Minimizes cutting forces and vibration, producing surface finishes as smooth as Ra ≤ 0.4 µm.

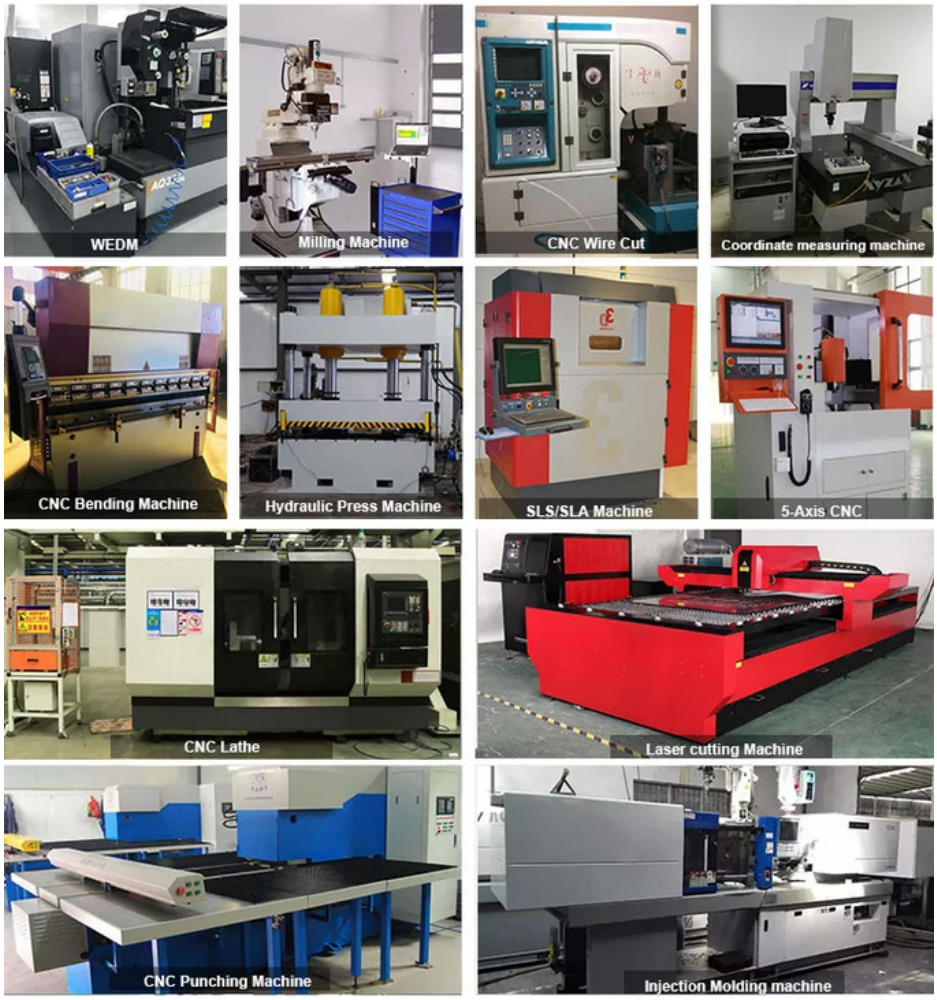
Reduces cycle times by up to 40%, improving production efficiency.

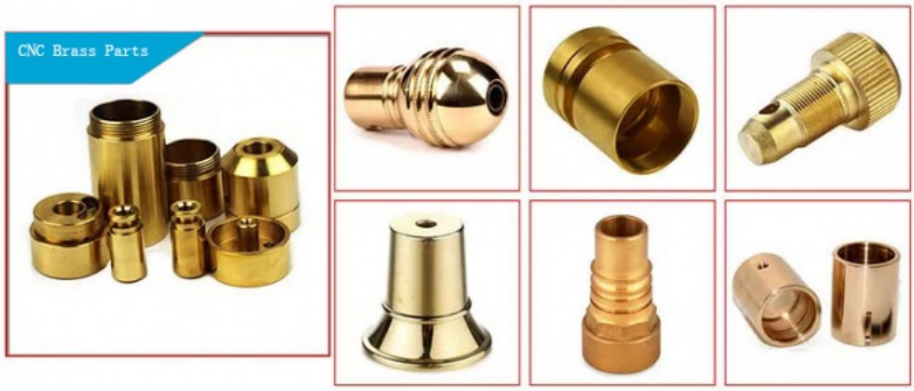
Swiss-Type CNC Turning
Employs a guide bushing to support the workpiece close to the cutting tool, minimizing deflection.
Perfect for long, slender brass parts like pins, shafts, and threaded components.
Achieves straightness tolerances ≤0.01 mm and excellent concentricity.

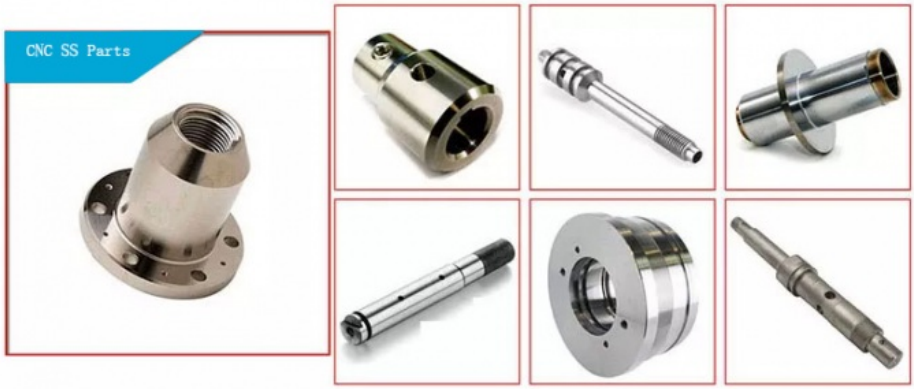
Adaptive Machining with Real-Time Monitoring
Integrates sensors to monitor cutting forces, temperature, and tool wear dynamically.
Adjusts parameters like feed rate or spindle speed to compensate for variations, ensuring consistent surface quality.
Reduces scrap rates by preventing defects caused by tool degradation.

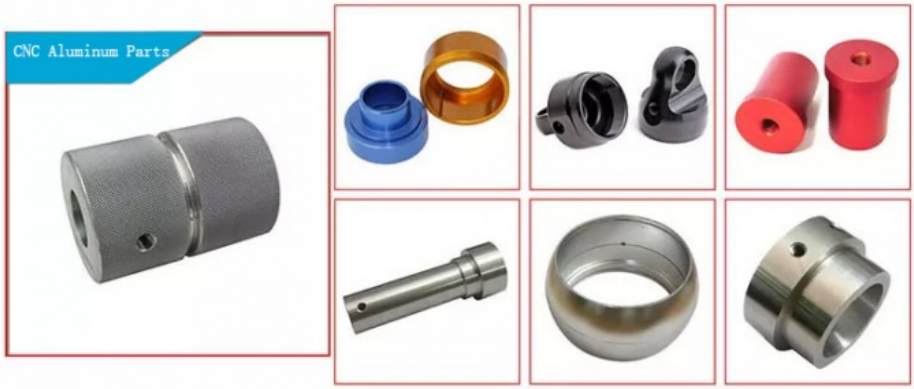
Factory Show

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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