CNC Turning Parts with Advanced Surface Finishes for Industrial Machinery Fabrication for Precision Engineering

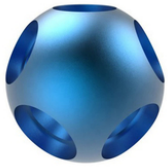
Our Product Introduction

Basic Information

- Place of Origin: Shenzhen China
- Brand Name: Xianheng
- Certification: ISO9001:2015
- Model Number: TN-CNC-89
- 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: CNC Milling
- Material Capabilities: Copper, Aluminum, Bronze, Stainless Steel, Brass
- Surface Treatment: Anodized, Anodizing, Anodize/natural, Sandblast, Silk Screen
- Service: OEM/ODM, OEM ODM Metal Stamping, Customized OEM OEM ODM, OEM Service
- Tolerance: 0.01mm, 0.05 Mm, +/-0.005, 0.003-0.05mm
- Application: Machinery, Automotive, Laptop, Industrial Equipment, Engineering
- Color: As Per Customers' Requirement



More Images

Our Product Introduction

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

Product Description

What We Can Provide

CNC Turning Parts with Advanced Surface Finishes for Industrial Machinery Fabrication for Precision Engineering

Description of CNC Turning Parts with Advanced Surface Finishes for Industrial Machinery Fabrication for Precision Engineering

Precision CNC turning parts with advanced surface finishes are integral to industrial machinery fabrication, where exacting standards for accuracy, durability, and performance are non-negotiable. These components are crafted using CNC (Computer Numerical Control) lathes, which leverage advanced software to achieve unparalleled precision and repeatability. The process involves rotating a workpiece against stationary cutting tools to create cylindrical or axially symmetric parts, such as shafts, pins, threaded components, and bushings, with tight tolerances often within ±0.005 mm (±0.0002 inches).

Specification of CNC Turning Parts with Advanced Surface Finishes for Industrial Machinery Fabrication for Precision Engineering

CNC Capacity				
CNC Machining Center	3 / 4 / 5 axis CNC Machining Centers		40+ CNC Machines	
CNC Turning	φ0.5 - φ300 * 750 mm		DIN-2768-Fine +/-0.005 mm	
CNC Machining	1270×508×635 mm(max)		DIN-2768-Fine +/-0.005 mm	
CNC Stamping	1000 * 1000 mm(max)		DIN-2768-Fine +/-0.005 mm	
Drawing Format	IGS,STP,X_T ,DXF,DWG , Pro/E, PDF			
Inspection Equipments	Measurement Instrument, Projector, CMM, Altimeter, Micrometer, Thread Gages, Calipers, Pin Gauge etc.			
Material Available				
Stainless Steel	SS201,SS301, SS303, SS304, SS316, SS416, 17-4PH, etc.			
Steel	Mild steel, Carbon Steel, 4140, 4340, Q235, Q345B, 20#, 45# etc.			
Brass	HPb63, HPb62, HPb61, HPb59, H59, H68, H80, H90 etc.			
Copper	C11000,C12000,C12000 C36000 etc.			
Aluminum	AL6061, Al6063, AL6082, AL7075, AL5052, A380 etc.			
Iron	A36, 45#, 1213, 12L14, 1215 etc.			
Plastic	ABS, PC, PE, POM, Delrin, Nylon, Teflon, PP,PEI, Peek etc.			
Surface Finishing				
Aluminum Parts	**Stainless Steel Parts**	**Steel Parts**	**Copper /Brass**	**Plastic Parts**
Clear Anodized	Polishing	Zinc plating	Polishing	Painting
Color Anodized	Passivating	Oxide black	Passivation	Chrome plating
Sandblast Anodized	Sandblasting	Nickel plating	Galvanized	polishing
Chemical Film	Laser engraving	Chrome plating	Nickel Plating	Sandblast
Brushing		Carburized	Chrome plating	Laser engraving
Polishing		Heat treatment		
Chroming		Powder Coated		

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)

Application Of CNC Turning Parts with Advanced Surface Finishes for Industrial Machinery Fabrication for Precision Engineering

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

Why Choose Us

Our Advantages

Unmatched Precision and Consistency
CNC turning machines operate with minimal human intervention, eliminating errors caused by manual operations. This ensures that every part meets exact specifications, regardless of production volume. For instance, in aerospace applications, where component compatibility is critical, CNC turning guarantees that parts fit seamlessly into assemblies, enhancing overall system reliability. The ability to maintain tight tolerances across large production runs also reduces waste and rework, optimizing resource utilization.
Enhanced Durability and Performance
Advanced surface finishes significantly improve a part's resistance to environmental factors such as corrosion, abrasion, and chemical exposure. For example, anodized finishes create a protective oxide layer on aluminum parts, extending their service life in harsh conditions. Similarly, polished surfaces reduce friction in moving parts like hydraulic shafts and bearings, leading to quieter operation, lower energy consumption, and improved efficiency. This durability is essential in industries like automotive and robotics, where components must withstand high mechanical stress and thermal fluctuations.
Design Flexibility and Complexity
CNC turning enables the creation of intricate geometries and features that would be difficult or impossible to achieve with manual methods. Combining turning with milling operations in a single setup allows for the production of parts with complex external and internal profiles, such as flanges with precise sealing surfaces or bushings with internal threads. This versatility supports innovation in product design, enabling manufacturers to meet evolving customer demands and stay competitive in dynamic markets.
Cost-Effectiveness in Mass Production
While CNC turning may involve higher initial setup costs compared to manual machining, its efficiency in high-volume production offsets these expenses over time. The automation of cutting paths and tool changes reduces labor costs and production time, while the elimination of secondary finishing operations (e.g., grinding or polishing) further streamlines the manufacturing process. Additionally, the ability to use a wide range of materials, including hard metals and exotic alloys, without compromising precision ensures that parts are both high-quality and economically viable.

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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