CNC Turning Parts for Industrial Machinery Fabrication The Perfect Combination of Precision and Efficiency

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen China
- Brand Name: Xianheng
- Certification: ISO9001:2015
- Model Number: TN-CNC-84
- 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

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Product Description

What We Can Provide

CNC Turning Parts for Industrial Machinery Fabrication The Perfect Combination of Precision and Efficiency

Description of CNC Turning Parts for Industrial Machinery Fabrication The Perfect Combination of Precision and Efficiency

In the fast-paced automotive and electronics industries, the demand for high-precision, complex components with tight tolerances and superior surface finishes is ever-increasing. Custom CNC (Computer Numerical Control) milling has emerged as the gold standard for manufacturing these intricate parts, offering unmatched accuracy, efficiency, and versatility. By leveraging advanced multi-axis machining, high-speed cutting tools, and real-time monitoring, CNC milling transforms raw materials into mission-critical automotive components (e.g., engine blocks, transmission gears, ECU housings) and miniaturized electronic parts (e.g., connectors, heat sinks, sensor brackets) with sub-micron precision.

Specification of CNC Turning Parts for Industrial Machinery Fabrication The Perfect Combination of Precision and Efficiency

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 for Industrial Machinery Fabrication The Perfect Combination of Precision and Efficiency

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

1. Unrivaled Precision & Tight Tolerances
CNC milling machines operate with sub-micron accuracy, ensuring parts meet extremely tight tolerances (e.g., ±0.005mm to ±0.01mm). This level of precision is critical in automotive applications like fuel injector nozzles, where even a 0.01mm deviation can affect combustion efficiency, or in electronics, where connector pins must align perfectly for reliable electrical contact.
Example: A CNC-milled automotive cylinder head achieves a surface finish of Ra 0.2–0.4μm, ensuring optimal sealing and thermal conductivity.
Example: In electronics, miniaturized RF connectors are machined to ±0.008mm tolerances, preventing signal loss in high-frequency applications.
Unlike manual machining, CNC eliminates human error, delivering consistent, repeatable results even in high-volume production.

2. High-Speed Efficiency & Reduced Lead Times
Modern CNC milling machines feature high-speed spindles (10,000–40,000 RPM) and ultra-fast feed rates, slashing cycle times by up to 50% compared to conventional methods. This efficiency is further enhanced by multi-axis machining (3-axis, 5-axis, even 7-axis), which allows complex geometries to be produced in a single setup, reducing repositioning errors and secondary operations.
Example: A 5-axis CNC mill can produce a turbine blade for an automotive turbocharger in one clamping, eliminating the need for manual grinding or polishing.
Example: Electronic heat sinks with intricate fin structures are machined in minutes instead of hours, accelerating product development cycles.
This rapid turnaround is essential for automotive and electronics manufacturers competing in fast-moving markets.

3. Design Flexibility & Rapid Prototyping
CNC milling excels in customization, allowing engineers to modify designs on-the-fly by adjusting CAD models and G-code programs. This flexibility supports rapid prototyping, enabling same-day iterations for testing new automotive components (e.g., lightweight suspension arms) or refining electronic enclosures for ergonomic fit.
Example: An automotive manufacturer can test multiple versions of a brake caliper in days, optimizing it for weight reduction and thermal performance before full-scale production.
Example: In electronics, CNC-milled prototypes of wearable device housings can be evaluated for comfort and durability before mass manufacturing.
This agility reduces development costs and accelerates time-to-market, giving companies a competitive edge.

4. Material Versatility & Superior Surface Quality
Custom CNC milling supports a wide range of materials, from soft aluminum alloys (for lightweight automotive parts) to hardened steels (for durable gears) and high-performance plastics (for insulated electronic components). Advanced cooling and lubrication systems minimize thermal distortion, ensuring dimensional stability even when machining heat-sensitive materials like titanium or PEEK.
Example: CNC-milled titanium valve springs for high-performance engines maintain consistent tension under extreme heat and pressure.
Example: Electronic connectors machined from liquid crystal polymer (LCP) exhibit excellent dimensional stability in harsh environments.

Factory Show

Factory Equipment


WEDM


Milling Machine


CNC Wire Cut

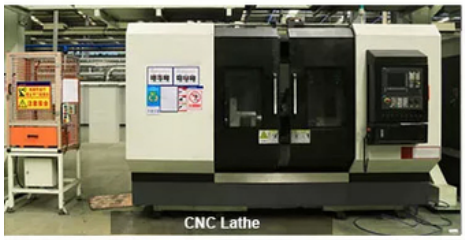

Coordinate measuring machine


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

Shenzhen Xianheng Technology Co.,Ltd

0086-13682614486 shawn@xianheng-tech.com cnc-metalmachining.com

Room 8-1409, Xingji jiayuan building 8-9#, HongXing community, Songgang street, Bao'an District, Shenzhen City China