

Stainless Steel CNC Machining Parts



Features of [stainless steel machined parts](#):

- Product name:Stainless Steel CNC Machinnng Parts
- Material:Stainless Steel 303, 304, 316
- Machining Tolerances:0.01mm
- Machining Process:
CNC Turning, CNC Milling, Grinding, Threading, Tapping, Bending, Welding, Drilling, Forging
- Min. Order:500PCS
- Surface Treatment: Polishing, Heat Treatment, Sand Blasting, Zinc Plated, Anodization, Chemical Fim,
- Packing: Carton Box, Blister tray, Pallet, Wooden Case.A
- Certificate:ISO9001:2008, ISO/TS16949

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As [stainless steel parts manufacturers](#), we provide **stainless steel CNC machining services**.
The **stainless steel machine parts** are of good quality in our company.

What we can Provide:		Machining Material:	
CNC Machining Service		Carbon Steel	
CNC Turning Service		Stainless Steel	
CNC Milling Service		Aluminum	
Cold Forging Service		Brass	
Metal Stamping Service		Copper	
		Titanium Alloy	
Surface Treatment		Application:	
Heat Treatment		Automobile Spare Parts	
Sand Blasting		Electrical Appliance Industry	
Polishing		Electronics Industry	
Zinc Plated		General Industry	
Anodization		Machinery and Equipment	
Chemical Fim		Hydraulic and Pneumatic	

Stainless Steel Parts Features:

Chemical Composition

Corrosion resistance of stainless steel decreases with the increase of carbon content. Therefore, most stainless steels have low carbon content, the maximum is not more than 1.2%, and some steels have ω_c (carbon content) even lower than 0.03% (eg 00Cr12). The main alloying element in stainless steel is Cr (chromium). The corrosion resistance of steel is only when the Cr content reaches a certain value. Therefore, stainless steel generally has a Cr (chromium) content of at least 10.5%. Stainless steel also contains elements such as Ni, Ti, Mn, N, Nb, Mo, Si, and Cu. Stainless steel machining components have the following features:

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Weldability: Stainless steel machined products have good weldability. These products can be used for vessel parts, water heaters, drinking fountains, etc.

Heat resistance: Heat resistance means that stainless steel machining components can still maintain its excellent physical and mechanical properties at high temperatures.

Corrosion resistance: When the amount of chromium atoms in the steel is not less than 12.5%, the electrode potential of the steel can be abruptly changed from a negative potential to a positive electrode potential. Prevent electrochemical corrosion.

Physical properties of stainless steel machine parts compared with carbon steel

1, density

The density of carbon steel is slightly higher than that of ferritic and martensitic stainless steels and slightly lower than that of austenitic stainless steels;

2, resistivity

The resistivity is increasing in order of carbon steel, ferrite, martensitic, and austenitic stainless steels;

3. The order of linear expansion coefficient is also similar, austenitic stainless steel is the highest and carbon steel is the smallest;

4, carbon steel, ferritic and martensitic stainless steel magnetic, austenitic stainless steel non-magnetic, but the cold work hardening martensitic transformation will produce magnetic, heat treatment can be used to eliminate the martensite Organize and restore its non-magnetic.

Differences in below four stainless steels

303: It is easier to turn than 304 by adding a small amount of sulfur and phosphorus.

304: The most commonly used stainless steel. Products such as: corrosion resistant containers, fittings, furniture, valves, pumps, medical equipment. The standard composition is 18% chromium plus 8% nickel. It is a non-magnetic stainless steel that cannot be changed by its heat treatment method.

316: Following 304, the second most widely used type of steel, mainly used in the food industry, watch accessories, pharmaceutical industry and surgical equipment, adding molybdenum elements to obtain a special structure against corrosion. Because it has better resistance to chloride corrosion than 304, it is also used as "marine steel". SS316 is usually used in nuclear fuel recovery devices. 18/10 grade stainless steel also generally meets this application level.

316 L: low carbon, so it is more resistant to corrosion, easy to heat treatment, products such as: chemical processing equipment, nuclear power generators, refrigerant storage tanks.

			
Stainless Steel Piston Rod	Stainless Steel CNC Parts	Stainless Steel Housing	Stainless Steel Valve Parts
			
Stainless Steel Shaft	Stainless Steel Precision Parts	Stainless Steel Pump Parts	Stainless Steel Flange

Why Choose [Hewcho](#)?

Low price, process performance (e.g., weldability and cold formability) good.