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## Carbon Steel Investment Casting Parts

China Ningbo SHENGFA Hardware, a professional manufacturer who provides carbon steel investment casting parts or other casting materials parts according to custom requirements. Carbon steel is one of main materials in steel casting industry, due to its incredible properties, leading to it being one of our most used metals here at SHENGFA Hardware, where we often supply carbon steel investment casting parts. You provide us your demand and we provide you our solution. It will be easy and quick if you cooperate with us for your project

### What is Carbon Steel?

First, let us know what is carbon steel. Carbon steel is an iron-carbon alloy with a carbon content of 0.0218% to 2.11%. and it is one of the most popular materials in the world of manufacturing, due to its incredible properties. It also generally contains small amounts of silicon, manganese, sulfur, and phosphorus. The higher the carbon content, the higher the strength and the hardness.

As an experienced factory and supplier, SHENGFA Hardware provides high-precision carbon Carbon Steel Investment Casting Parts to more than 30 countries and regions around the world.

### BENEFITS OF CHOOSING CARBON STEEL

Carbon steel an extremely popular option for investment casting, as it has a wide range of applications in many industries. Due to its ferromagnetic properties, carbon Carbon Steel Investment Casting Parts are particularly useful for motor and electrical appliances. Carbon steel is very safe and durable. Besides, it has a high level of structural integrity. All those features that add to its popularity and make it one of the most created alloys in the world.

### WHAT IS INVESTMENT CASTING?

Investment castings, also known as lost wax castings, are formed by a traditional process, which has been used for centuries to produce detailed, intricate metal parts and components. The full process of investment casting includes Metal die construction, Wax pattern production, Mold creation, Pouring, Cooling, Shakeout and finally Finishing. Compared to other manufacturing methods, it is a cost-effective way of producing intricate products, providing significant design flexibility, with excellent dimensional accuracy and surface finish.



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SHENGFA Hardware provides advanced carbon steel and low alloy castings for demanding modern industries. We produce precision carbon Carbon Steel Investment Casting Parts with industry-leading tolerances and desirable mechanical properties.

#### Product Parameters

Material	Carbon steel, alloy steel, stainless steel, copper Alloy
Process	Investment (lost wax) casting + CNC machining
Casting dimension tolerance	CT7
Casting surface roughness	Ra 12.5 um
Casting weight range	0.1-90 kg
Casting Size	Max linear size: 1200 mm, Max diameter size: 600 mm
Machining	Positioning accuracy 0.008 mm, Rep. position. accuracy 0.006 mm



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Precision	
Machining surface roughness	Ra0.8 ~ 6.3 um
Max Travel Of Spindle	1900 mm x 850 mm x 700 mm
Max Turning Diameter	830 mm
Material standard	GB, ASTM, AISI, DIN, BS, JIS, NF, AS, AAR
Surface treatment	KTL (E-coating), Zinc plating, Mirror Polishing, Sand Blasting, Acid pickling, black oxide, Painting, Hot galvanizing, Powder coating, Nickel plating.
Service available	OEM & ODM
Quality control	0 defects, 100% inspection before packing
Application	<ul style="list-style-type: none"><li>● Aerospace and defense</li><li>● Power generation</li><li>● Automotive</li><li>● Oil and gas</li><li>● Space exploration</li><li>● Medical/orthopedics</li><li>● Agriculture</li><li>● Construction</li><li>● Commercial and consumer products</li></ul>