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**SHENGFA**



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## Carbon Steel Investment Castings

Over the 15 years since we start our factory in Ningbo China, SHENGFA Hardware has been manufacturing and providing a wide range of carbon steel investment castings to our customers from home and abroad. Carbon steel casting is an extremely popular option for investment casting, and it is widely used in several different industries. Due to its ferromagnetic properties, this material is particularly useful for motor and electrical appliances. Carbon steel is safe and durable and has a high level of structural integrity, features that add to its popularity and make it one of the most created alloys in the world. If you are looking for a manufacturing partner who providing carbon steel investment castings service precisely to your specifications, do not hesitate to contact us.

### SHENGFA's Capabilities at Carbon Steel Investment Castings

Starting our factory from year 2007, SHENGFA Hardware has full experience to manufacture carbon steel castings with tight tolerances and outstanding repeatability at reasonable cost. We adopt new melting methods to produce carbon steel investment castings with consistent hardness and strength.

We also offer secondary process such as machining of critical surfaces and threaded holes. Carbon steel investment castings are also commonly heat treated to improve their ductility, strength and other mechanical properties. Our factory consists of experts and technicians who have wide experience working with various of carbon steels.

Beside carbon steel, we also specialize in high-strength stainless steel, aluminum and armor alloys. Customers turn to SHENGFA Hardware to meet premium mechanical properties through a combination of strict process controls and secondary thermal treatment parameters in alloys. SHENGFA pours more than 100 different ferrous and non-ferrous alloys, such as carbon and low Alloy Steels, stainless steels and tool steels.

### Common Alloying Elements to Carbon Steel

Nickel (Ni) – Added to steel to provide strength, stability and toughness – corrosion resistance

Chromium (Cr) – Added to steel to increase hardenability and strength – wear and corrosion resistance

Molybdenum (Mo) – Added to steel to increase hardenability and strength – withstands elevated temperatures



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### Why work with SHENGFA Hardware?

Being a leading carbon steel investment castings manufacturer in Ningbo China with more than 15 years' experience, we are always focus on perfection in every component and parts we make. Here are what we can offer you if you start business with us:

- \*Products of high grade parts according to your requirements
- \*On time delivery with short lead times
- \*Cost saving parts
- \*Expert technical advice if needed.
- \*24\*7 full time customer service

### 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 Precision	Positioning accuracy 0.008 mm, Rep. position. accuracy 0.006 mm
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	● Aerospace and defense



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