

Sand casting process

Sand casting is commonly known as "sand mold casting", using natural sand or artificial quartz sand, resin sand as the modeling materials. Large-scale steel castings are widely used in machinery manufacturing. In heavy machinery and mining machinery, castings account for more than 80%.

CHAENG (Great Wall Steel Casting Company) is a large steel production base in the northern part of Henan Province, has over ten years experience in manufacturing large steel castings through sand casting process.

Sand casting process:



Simulation through computer soft

Adopt Intecast CAE software to simulate numerically the casting process, analyze the molding process, predict and optimize the product quality.

Wood pattern molding

The overall size is well controlled. The use of water glass sand molding technology can prevent the appearance of hot cracks in castings. At the same time, the shape of the pit is used, which is not affected by the seasons, and the production efficiency is high. Infrared range finder, coordinate measuring instrument, endoscope and other instruments are used to control the model and modeling process.

Casting

The qualified raw and auxiliary materials are put into electric arc furnaces for smelting according to proportions. After the mature steelmaking process, the molten steel is subjected to desulfurization, deoxidation and purification processes, and the hot metal is

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sampled for spectral analysis. After passing the qualification, perform pouring according to principle of “low temperature fast pouring”, and record casting time and temperature.

Cleaning sand and polishing

CHAENG has a professional grinding and finishing team, large shot peening equipment, to make the surface finish of steel castings meet customer requirements.

Heat treatment

There are 4 large-scale natural gas heat treatment furnaces to meet the heat treatment requirements of different size products, of which the largest specification is 6*6*16.5 meters.

Flaw detection

Use advanced testing equipment for non-destructive testing of each casting to ensure the internal quality of the product, strictly prevent any defective products from being sent to users.

Machining

Machining equipment is complete, can directly provide you with finished products, with $\phi 8\text{m}$ double column heavy-duty vertical lathe, $\phi 6.3\text{m}$ lathe imported from Russia, $\phi 8\text{m}$ gear hobbing machine imported from Russia, Czech T6920 floor boring and milling machine and domestic TX220 boring and milling machine, Russia import The 6625Y (2.5m \times 8.0m) gantry boring and milling machine, domestic 120 \times 3000 heavy-duty CNC universal rolling machine and other processing equipment.

CHAENG (Great Wall Steel Casting Company) is a member company of China Foundry Association and Henan Foundry Association. It is the first announcement enterprise in Henan province that meets the conditions for the entry of the foundry industry. It is a large steel production base in the northern part of Henan Province.



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