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Slag Pots in Cast Steel

Expertise products made in China



Slag Pots ready for shipment

Company Profile

Our Foundry Factory can manufacture the Slag Pot from 2 CBM to 45 CBM. The weight is from 5 tons to 90 tons.

Till now, we have produced over 500pcs Slag Pots for 11 plants at home and abroad. The customers from the country like South Korea, Japan, Brazil, German and etc.

We will offer the quotation asap upon your drawings of Slag Pots.

You will be warmly welcomed to visit our factory.



Product Definition

The product covered here is a load-bearing device whose sole purpose is to collect molten or solid slag generated during metallurgical or chemical processes, to retain it during transport and to deposit it at a place of disposal.

Slag Pots are crucial items as they are part of a lifting equipment and therefore undergo in terms of mechanical design engineering and handling the national safety regulations of the state where they are supposed to be operated.

Material

The slag pots are made out of the cast-steel like Carbon Steel, Alloy Steel.

The table as following is showed for Steel Grade SC410.

- **Chemical Composition** verified on product

Elements	C	Si	Mn	S	P
Required	0.15~0.25	0.30~0.50	0.8~1.00	Max 0.020	Max 0.020
Typical	0.16	0.44	0.98	0.012	0.012

- **Mechanical Properties** Checked at room temperature in the delivery condition i.e. after completion of the quality heat treatment from cylindrical cast-on test blocks (

Properties	Yield (MPa)	Strength(MPa)	Elongate %	Reduction area %
Required	Min 205	Min 410	Min 21	Min 35
Typical	280	456	31	44

- **Delivery Condition:** Normalized

Generally, the delivery time is about 70~90days according to the volume of Slag Pot.

Manufacturing

Except the supply of the forgings for trunnions, all further operations are carried-out at the in-house foundry plant.

- **Moulding**

The castings are manufactured in a workman-like manner as required in the Chinese Standard, or ISO Standard. The moulding is individually carried out within a modular flask by using a sand preparation based on resin bonding.

- **Trunnions**

The trunnions are forged by the material with high hardness. Cast-on or Hot-fitted trunnions can be also provided.

- **Melting**





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The melting is carried out in the oxygen steel plant; the ladle capacity allows a continuous bottom pouring process the speed of which is permanently controlled. The metal analysis is checked by using a computer linked spectrograph.

- **Heat treatment**

Every pot undergoes a combined quality heat treatment (annealing) aiming both to grain refining and to stress relieving

- **Fettling and dressing**

The inner surface is processed fit-for-purpose so that the surface discontinuities which might cause sticking of the slag are extensively removed. Additionally, the castings are descaled by shot-blasting and the outside is additionally coated for transportation.

Quality Assurance

The fabrication route is governed by the provisions of the implemented Quality System ISO 9001.

The standard documentation ensures the full traceability of every process step. We will offer the Checking Report for each slag pot.

How to find us

Our factory is located in the East of China, close to Shanghai, China.

It is easy to transport the Slag pot to the Seaport.

