

Process advantages of CHAENG square slag pot and round slag pot

Slag pot is also called slag ladle, which is a necessary equipment for steelmaking production in metallurgical enterprises. The square slag pot and round slag pot are commonly used types. The slag pots produced by the well-known Chinese steel casting factory Great Wall Steel Casting (CHAENG) are greatly magnified in the large-scale steel castings market at home and abroad. Because CHAENG rigorously carry out every step of the dozens of processes in the production of cast slag pots, from mold manufacturing, inspection, molding sand preparation, molding and core making to mold assembly, and from steel raw material preparation, batching, smelting, metal liquid processing, to pouring, falling sand, cleaning, heat treatment, inspection.



The first part - optimized pouring and special treatment of special parts

Casting process one: Before casting, the casting process is numerically simulated by InteCast software, process analysis and quality prediction are carried out on the molding process of the product, to continuously optimize the casting of the slag pot.;



Casting process two: CHAENG adopts high-quality materials such as ZG230-450/GS-16Mn5/BS3100B2 which can make the cast slag pot have good plasticity and high melting point;

Casting process three: the qualified raw and auxiliary materials are placed in an electric arc furnace for smelting. The liquid steel is sampled for spectral analysis. After passing the test, the casting is carried out according to the principle of “low temperature fast pouring”, and the pouring time and temperature are recorded.

Casting process four: In order to ensure the quality of slag pot, CHAENG adds a certain amount of alloying elements in the smelting molten steel, thereby increasing its strength, reducing the deformation of the slag pot during use, and preventing the overall cracking of the slag pot. Increase the number of uses;

Casting process five: For the problem that the slag pot trunnion alloy steel and the slag pot body carbon steel are difficult to weld, CHAENG has customized a complete process to strictly control the welding problem in the slag pot production process.

The second part - grinding, inspection, flaw detection

Casting process six: CHAENG has professional polishing and finishing team, large-scale shot peening equipment to effectively improve the appearance quality of slag pot, and make its surface finish meet customer requirements;

Casting Process seven: CHAENG uses advanced flaw detection equipment to perform 360° non-destructive testing on the inner wall, trunnion and tipping mechanism of the slag pot, the key parts can reach the level 2 inspection standard of GB7233-2007, or according to the customer's specific flaw detection standard.



With the spirit of constantly perfecting ourselves, the slag pots made by CHAENG has been sold to many countries and regions, such as Asia (Korea, Japan, Turkey, India), America (USA, Mexico.), Europe (Russia, France, Germany), Oceania (Australia), Africa (South Africa), etc., having won high praise from customers in terms of quality and delivery time.

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