

Website: www.partscasting.com

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How CHAENG to cast qualified large rolling mill housing

The rolling mill housing is the main bearing part, so it is especially important to control its mechanical properties. However, because the rolling mill housing has large dimensions and weight, there are probably problems such as contraction cavities, shrinkage porosity, and coarse grain.

The quality requirements can be met by analyzing large steel castings, proposing reasonable casting processes, rationally controlling the composition of molten steel, and determining reasonable heat treatment processes.



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Quality control measures of CHAENG casting rolling mill housing

1. Casting process design

In order to ensure the uniform quality of columns at both sides, the technical team designs a suitable casting process according to the casting structure, and carry out numerical simulation through casting simulation software InteCast, which can avoid contraction cavities, shrinkage porosity, and crack. Practice has also proven that the casting process is reasonable.

2. Composition control

Alloying is an effective way to improve the properties of steel. Therefore, reasonable control of the casting composition is very important to meet the mechanical properties requirements. CHAENG uses imported spectrometer from German to analyze the composition of molten steel to ensure the quality of castings.

3. Heat treatment process

Heat treatment is an effective process measure to improve material structure and mechanical properties. Rolling mill housing belongs to a thick and large frame structure, and the thickness is uneven. The cooling rate is slow during the casting process, and the shrinkage is inconsistent, resulting in coarse cast structure and poor mechanical properties. It is necessary to improve the structure and remove the stress by heat treatment.

If you need casting rolling mill housing, contact CHAENG! We will provide you with high-quality product and service.

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