

The role of the energy storage tank of the continuous casting machine

What are the applications of heating in continuous casting?

There are three applications for heating in continuous casting. 1. Heating of the tundish refractory before casting to dry the refractory, reduce hydrogen pickup, and to minimize the heat loss of the initial liquid steel to the tundish on filling. 2.

How do steelmaking-Continuous casting processes control oxygen supply?

Steelmaking-continuous casting (SCC) processes in steel plants decide oxygen demands, and oxygen distribution (OD) in oxygen stations control oxygen supply. Collaboratively managing the OD and SCC is crucial to improving operational efficiency and reducing energy consumption and emissions. Fig. 1.

What is continuous casting technology?

Continuous casting technology is a metalworking process in which metal is cast continuously, rather than being cast in discrete molds. This process is extremely efficient and cost effective, making it popular for the production of a variety of semi finished metal shapes. Once cast, the metal can be further worked as needed.

How a continuous casting machine works?

The mechanism of continuous casting process is shown below in Figure-5(a). Starting a continuous casting machine involves placing a dummy bar, essentially a curved metal beam, up through the spray chamber to close off the base of the mould. Metal is poured into the mould and withdrawn with the dummy bar once it solidifies.

What is secondary steelmaking & Continuous casting?

Secondary steelmaking and continuous casting are the central process phases with a strong influence on the final quality of the steel products. Liquid steel processing in ladle, tundish, and mold, and final solidification consists of a complicated series of successive chemical, physical, and thermal phenomena.

What is the principle of continuous casting?

The principle of the continuous casting method is simple (Figure 1.10.1). The liquid steel in a ladle is transferred to the casting machine.

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