

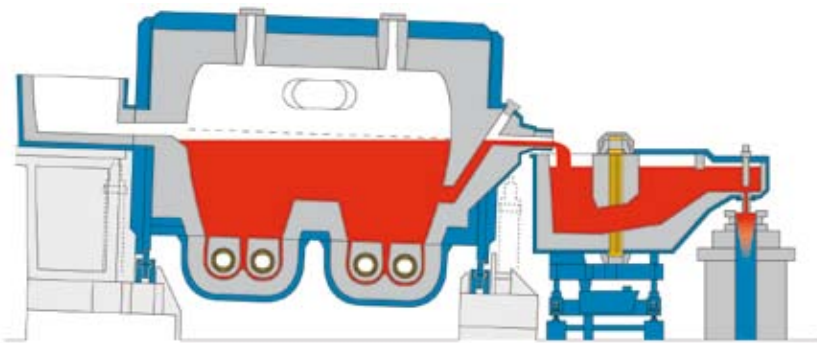


Drum type induction furnace for melting and holding copper



The production of semi-finished copper products in a continuous casting process makes high demands on the process and furnace concept. Besides the classical use of a gas fired shaft furnace for melting copper cathodes, the induction heated drum type furnace is an alternative way with many advantages in terms of lower oxygen and hydrogen contents, precise temperature control and higher process stability.

Drum type melting and holding furnace



The drum type induction furnace consists of a ceramic lined furnace vessel, which is practically complete closed. Two or four channel type inductors are flanged to this furnace for heating the melt. The furnace is rotated to transfer the metal melt to the casting furnace or a closed heated launder. The bath height is typically one meter or more so that the charged cathodes can be immediately immersed completely into the bath.

The furnace works also as holding and melt homogenizing unit. With the channel type inductors as heating elements, it achieves a high electrothermal efficiency, good mixing of the melt and a homogeneous melt temperature. The closed furnace vessel results in a clean, easily controlled furnace atmosphere with low radiation losses.

The drum type induction heated furnace is nowadays mainly used for the production of oxygen-free copper (OFC) grades.

Technical data

Design	drum type furnace
Furnace type	hydraulic rotating
Metal discharge	discontinuous or continuous via siphon by furnace rotation
Number of inductors	2 or 4
Inductor power	up to 2.000 kW
Furnace capacity	12 - 70 tons
Power supply	mains frequency with regulating transformer or converter unit
Application	melting, holding, homogenising of copper

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