

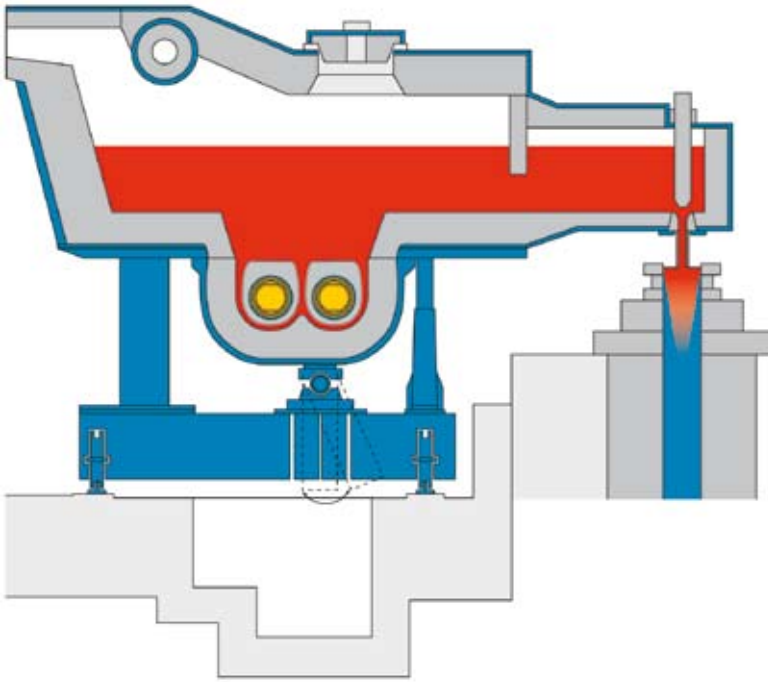


Holding and casting furnace for vertical continuous casting



The demands made on the quality of the melt for the production of continuous cast semi-finished products are rising continuously. In order to guarantee the maximum utilisation of the casting lines, an adequate volume of liquid metal ready for casting with a constant temperature has to be supplied. To meet these demands, INDUGA has continuously optimised the induction heated holding furnace with receiver.

Holding furnace for vertical casting



Technical data

Design	holding furnace with receiver
Furnace type	tiltable and movable out of line
Metal discharge	continuous or discontinuous via stopper
Holding capacity	5 - 80 tons
Heating capacity	250 - 1,200 kW
Application	vertical continuous casting of copper and copper alloys

The holding furnace with receiver (forehearth) and stopper control system for vertical casting consists of a ceramic lined furnace vessel to which a channel type inductor is flanged for heating the melt.

In order to avoid gas absorption from the air, the furnace has a lid containing a working cover. The furnace is charged with liquid metal from the rear, or optionally from the side via the tilting bearing of the furnace. This allows charging of melt even during casting. The metal is metered into the casting moulds via the stopper rod system and the pouring nozzle.

The holding furnace can be tilted hydraulically for stop the casting, for a nozzle change or for deslagging. It can be also moved out of line to the back or to the side via a furnace carriage.

Outstanding features of the furnace are:

- large holding volume
- availability of homogeneous melts
- high temperature control precision
- heating up the melt
- low gas absorption
- clean casting metal as it is poured via a nozzle
- refilling during casting is possible
- optional monitoring of the furnace weight using load cells
- optional with coreless inductor

INDUGA designs and supplies

- Channel-type induction furnaces for melting, holding and casting
- Coreless induction furnaces for special applications
- Coating pots for steel strip and pieces
- Low-pressure casting machines
- Plasma systems
- Complete plants

Individual solutions are our speciality!

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