

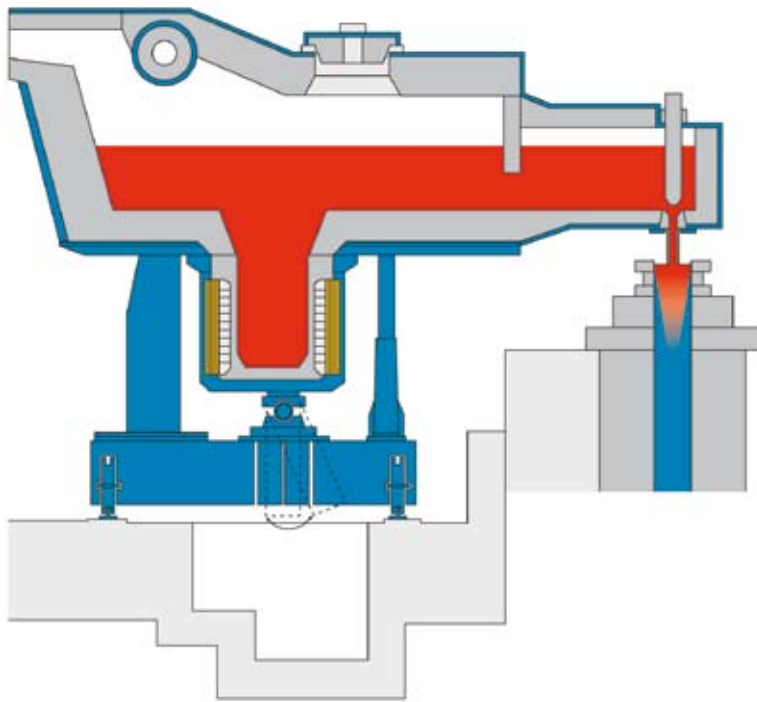


Holding and casting furnace with coreless inductor for copper alloys



In order to be able to make use of the engineering benefits of the holding furnace with receiver for vertical casting also for customers that needs to change copper alloys very often, INDUGA offers this furnace type also with a crucible type inductor. This allows high flexibility for alloy changing and stable operation even with otherwise problematical alloys.

Holding furnace for coreless inductor



Technical data

Design	holding furnace with receiver and coreless inductor
Furnace type	hydraulic tilting and movable out of line
Metal discharge	continuous or discontinuous via stopper
Holding capacity	5 - 50 tons
Heating capacity	250 - 1.300 kW
Application	vertical continuous casting of 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 coreless crucible 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, for deslagging or for complete emptying. 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:

- simply alloy changing
- casting of special alloys
- availability of homogeneous melts
- high temperature control precision
- heating up the melt, if necessary
- 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

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
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