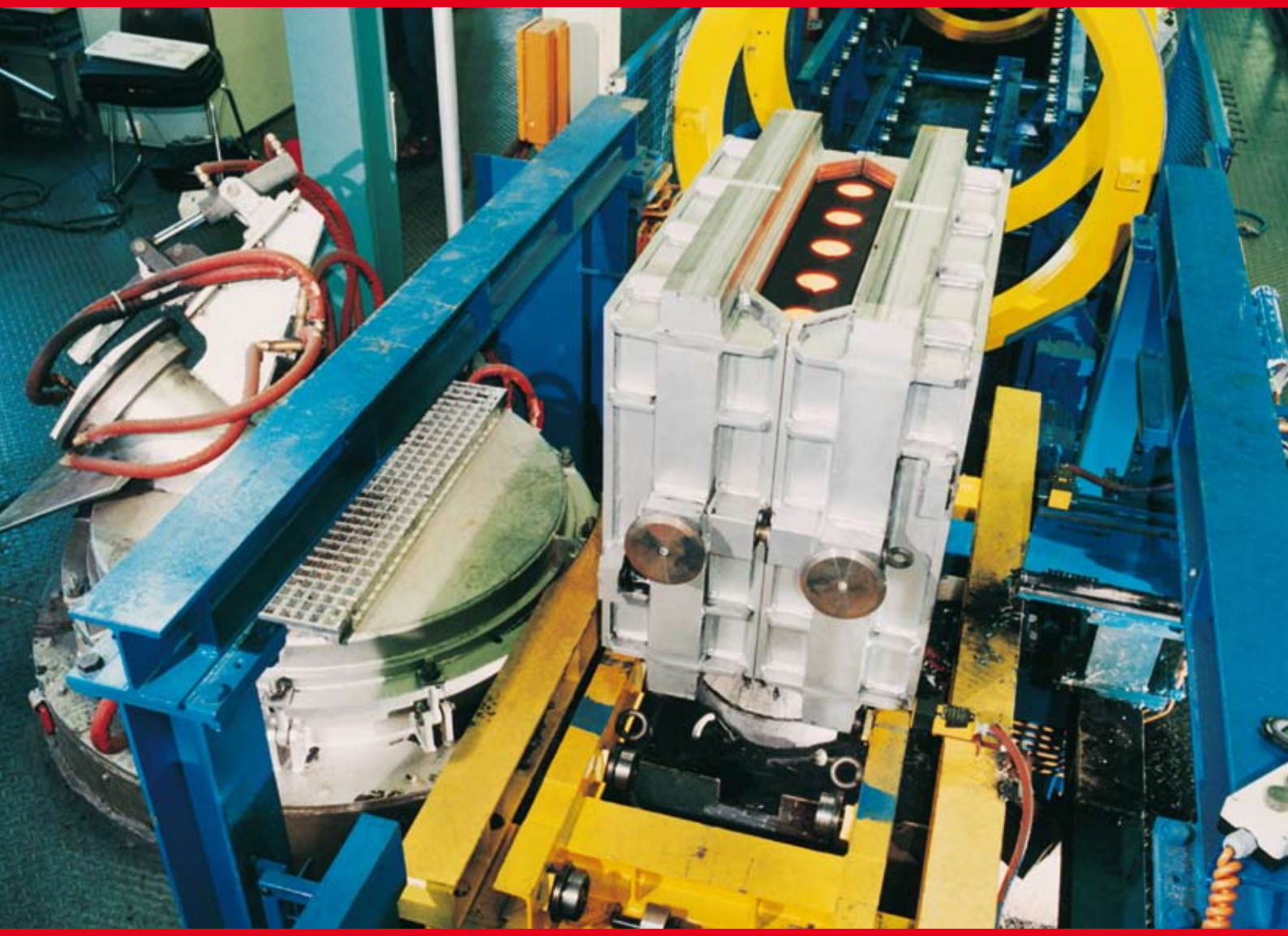
INDUGA

Holding furnace

for low-pressure casting



The production of low pressure castings on a dedicated high-performance moulding line demands a holding and casting furnace which is capable of supplying a homogeneous melt under constant defined pressure conditions with exact temperature control. The furnace permits the automatic injection of liquid metal into sand moulds using the low pressure casting principle.

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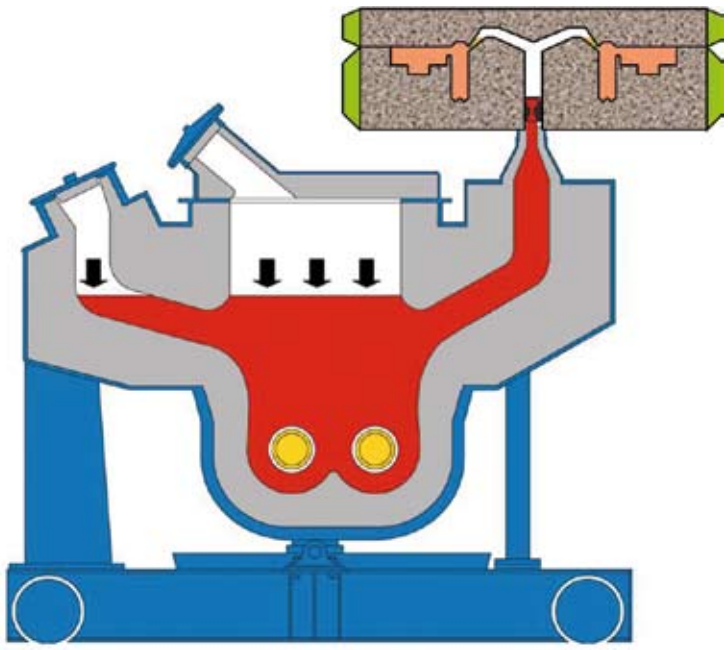
Low pressure casting furnace



The holding and casting furnace consists of a filling syphon, a pressure chamber with flanged inductor and a casting chamber for direct filling of the moulds. The furnace is hydraulically tiltable and mobile for furnace emptying.

Outstanding features of the furnace are:

- direct metering under defined pressure control
- variable filling characteristics
- completely hermetically sealed casting process
- clean metal discharge and minimisation of oxide and slag inclusions
- low energy consumption thanks to special furnace design
- high temperature control precision

In order to avoid standstill times of the moulding line during melt refilling of the casting furnace, the line can be equipped with a second casting furnace. These two furnaces will be in operation alternately.

Technical data

Design	pressurized casting vessel, either with coreless or channel inductor, tiltable and movable out of line
Metal discharge	discontinuous via nozzle
Heating capacity	60 - 500 kW
Holding capacity	1 - 5 tons
Application	casting of non-ferrous alloys, cast iron, steel

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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