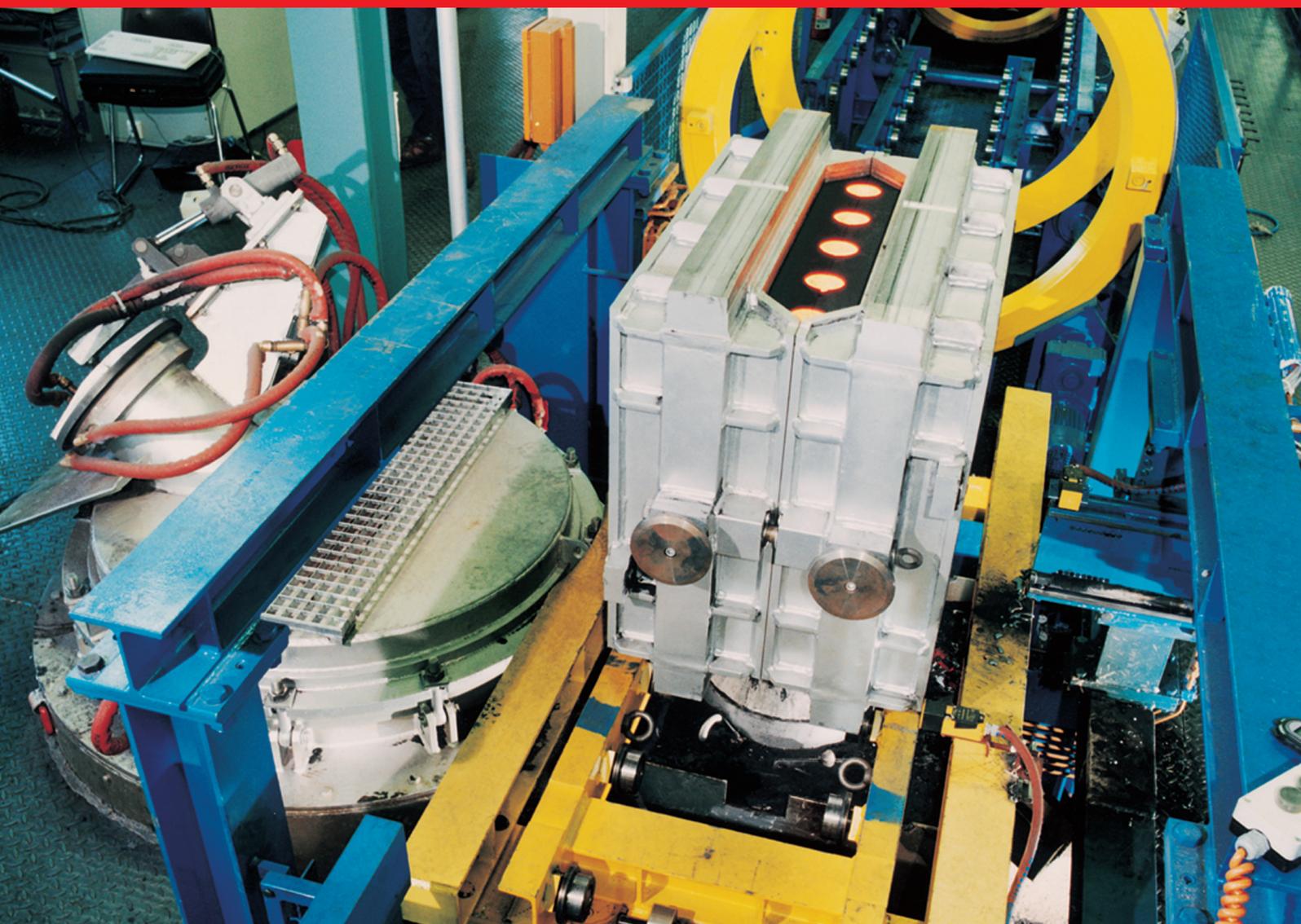
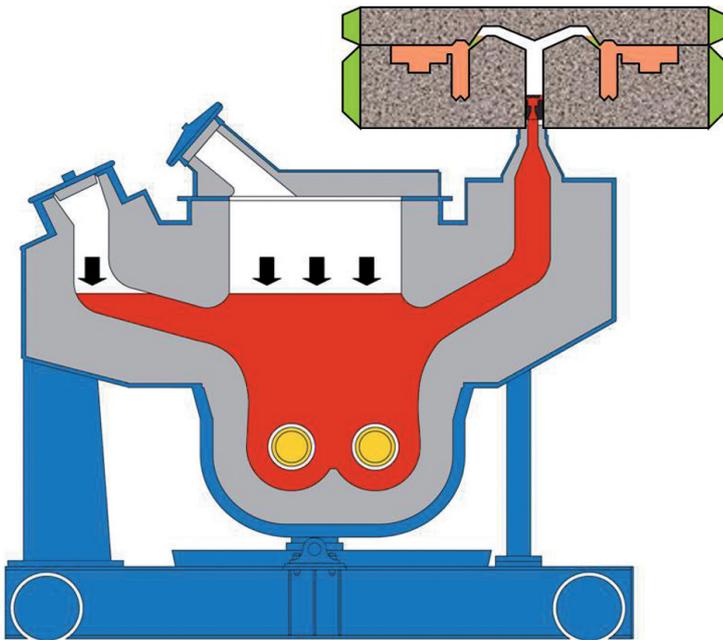


Holding furnace for low-pressure casting



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.

Low pressure casting furnace



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 |

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.

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
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