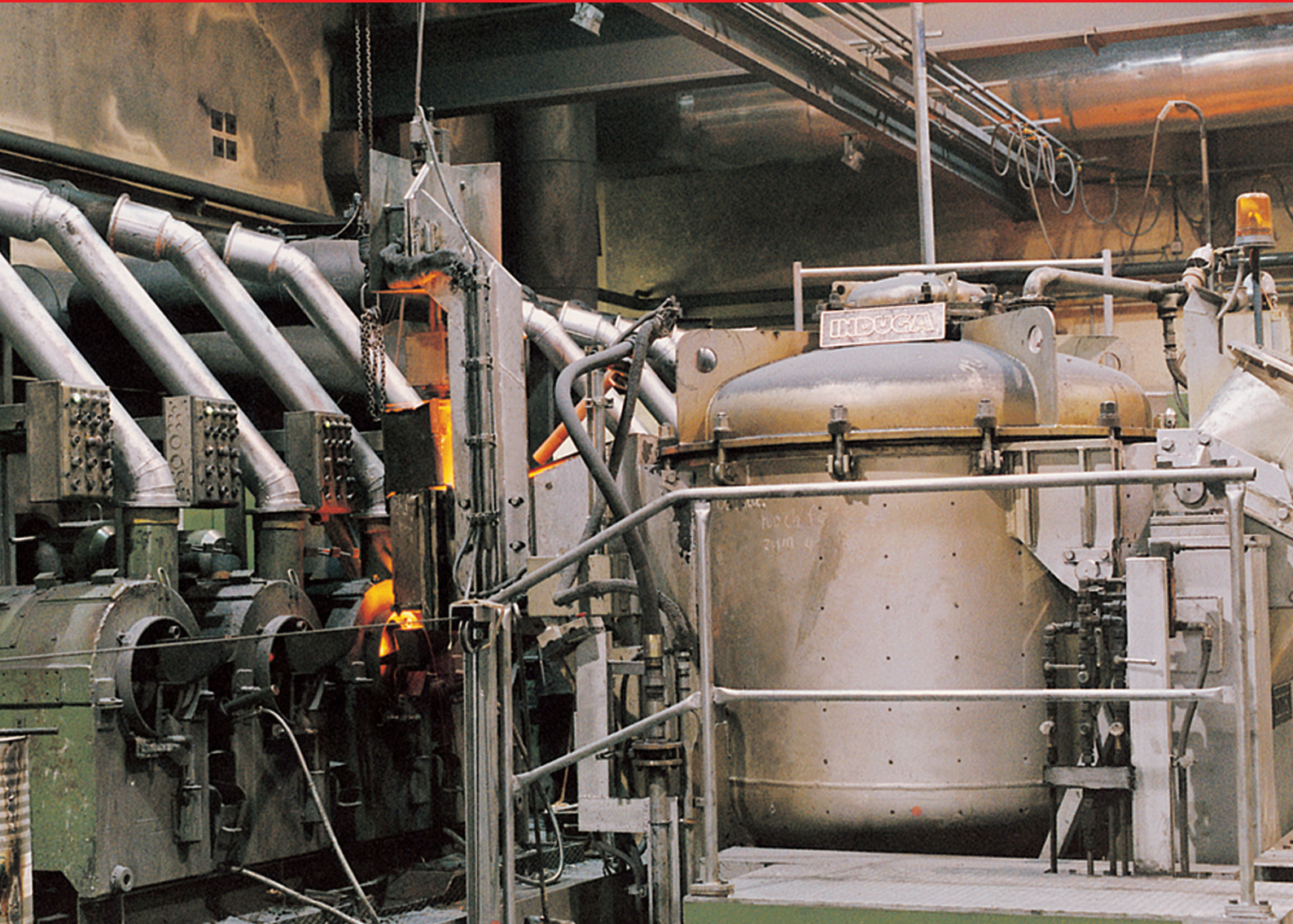


INDUGA



INDUMAT®

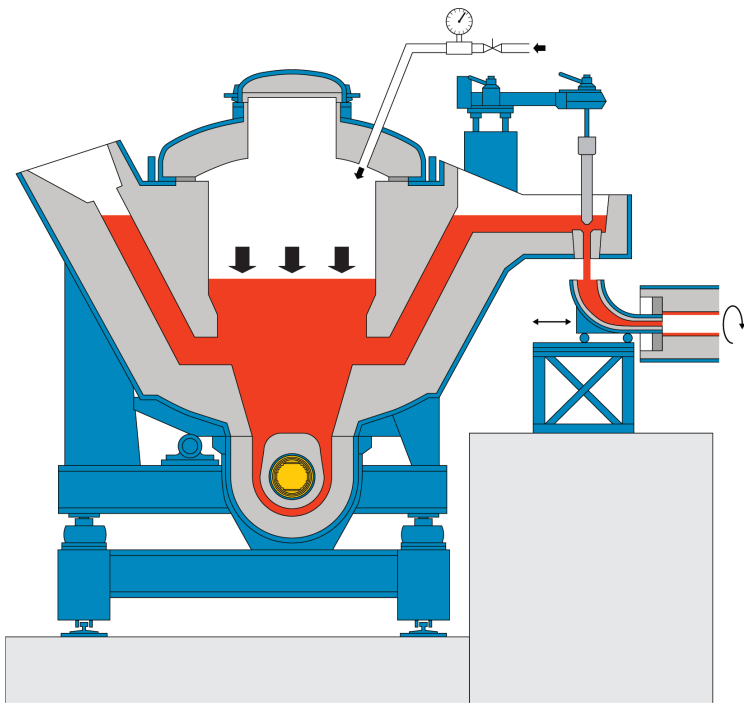
pressurized holding & metering furnace



Pouring of accurate metal weights in automatic sand moulding lines, rotary casting machines or direct casting machines makes high demands on the necessary plant technology. For such applications Induga recommends the INDUMAT®, an induction heated, pressurized holding and metering furnace mounted on load cells with stopper controller.

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Pressurized holding & metering furnace



Technical data

Design	pressurized holding 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	5 - 15 tons
Application	pouring of non-ferrous alloys, cast iron, steel

The INDUMAT furnace consists of a pressurized main chamber to which an inlet siphon and a discharge siphon with receiver are flanged. A pouring stopper is integrated into the receiver. The furnace is heated by an inductor flanged to the main chamber.

The automatic pressure control in the main furnace chamber guarantees a constant metal bath level in the receiver, and hence a constant static pressure above the pouring nozzle. By defined reducing of the pressure in the main chamber, the furnace can be refilled without interrupting the pouring process. The furnace can be depressurized for sudden discharging of the receiver for a stopper or nozzle change.

The close design of the INDUMAT® furnace minimises any gas absorption into the melt. The furnace is mounted on load cells so that the furnace weight is permanently monitored. The interplay of weighing system, pressure control and stopper metering device via the PLC furnace controller guarantees precise metal pouring for each individual flask and permits correction of the pouring volume after each cast so that an over-filling of the moulds is avoided.

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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