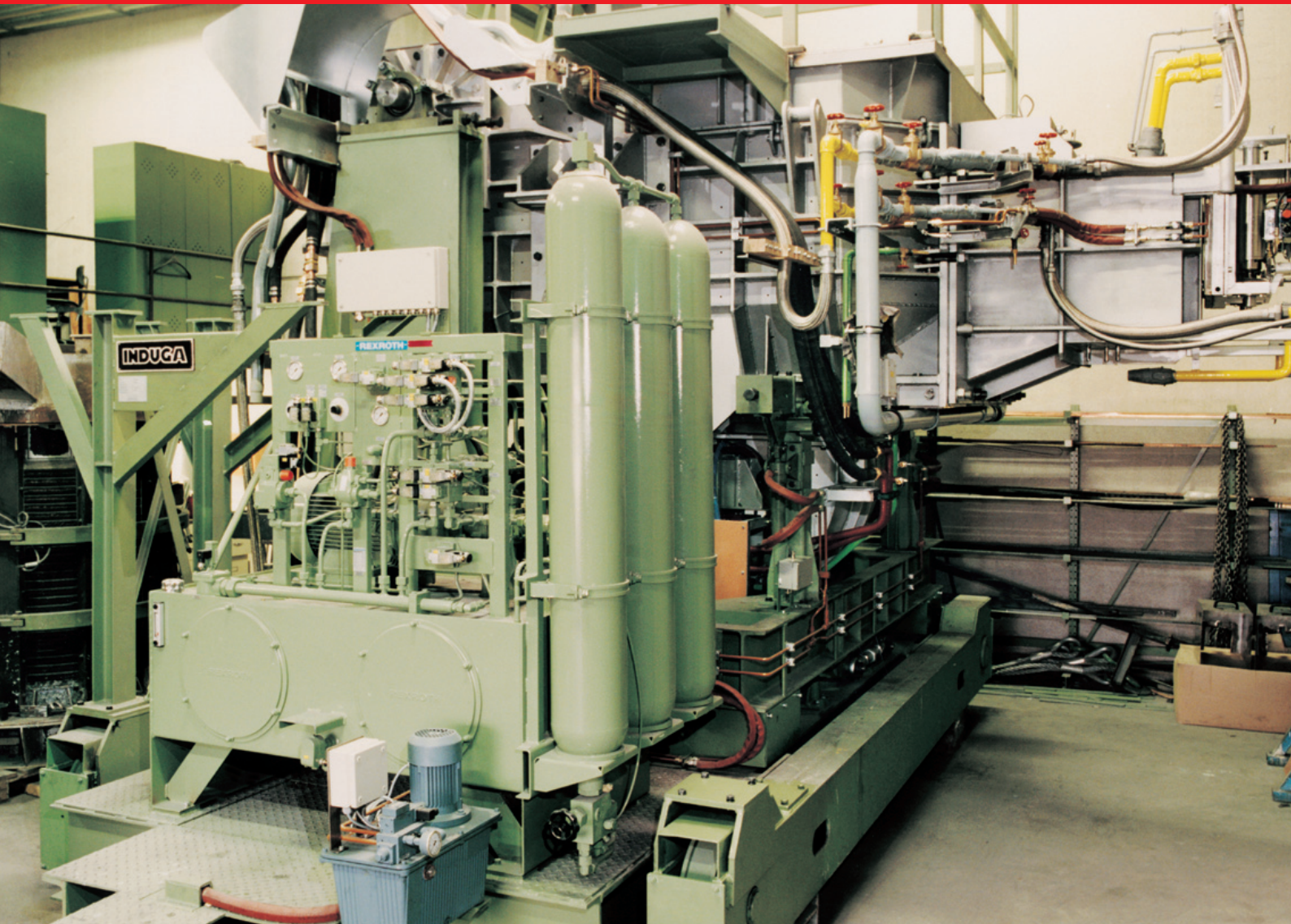


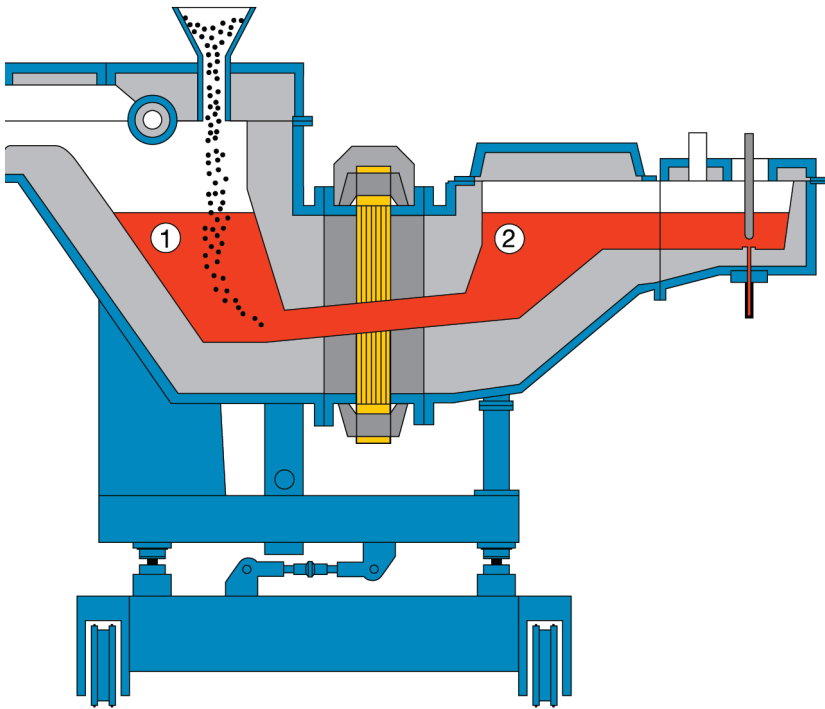


Alloying and casting furnace for vertical continuous casting



The production of vertically casted non-ferrous special alloys demands not only a highly developed continuous casting technique but also an alloying and casting furnace which is capable of supplying a homogeneous melt over the whole casting time under defined conditions with exact alloy quality and temperature control.

Alloying furnace for vertical casting



Technical data

Design	2-chamber furnace with flanged receiver and integrated channel inductor, tiltable and movable out of line
Metal discharge	continuous via stopper
Heating capacity	300 - 500 kW
Holding capacity	3 - 8 tons
Application	vertical continuous casting of non-ferrous alloys

The alloying & casting furnace consists of two chambers and a receiver which are heated by an inductor integrated into the furnace vessel:

- Chamber 1: charging of the melt through the tilting bearing and precise micro-alloy material metering
- Chamber 2: storage and homogenisation
- Receiver: slag-free multi-strand casting

The casting furnace can be tilted hydraulically and is mobile for production, mould changing and furnace discharging.

The furnace design is characterised by its modular structure and permits the installation of a stopper flow control system.

Outstanding features of the furnace are:

- encapsulation against air ingress to minimise burn-off
- low energy consumption thanks to special furnace design
- good metal exchange between charging chamber and receiver thanks to optimum inductor position
- high temperature control precision

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