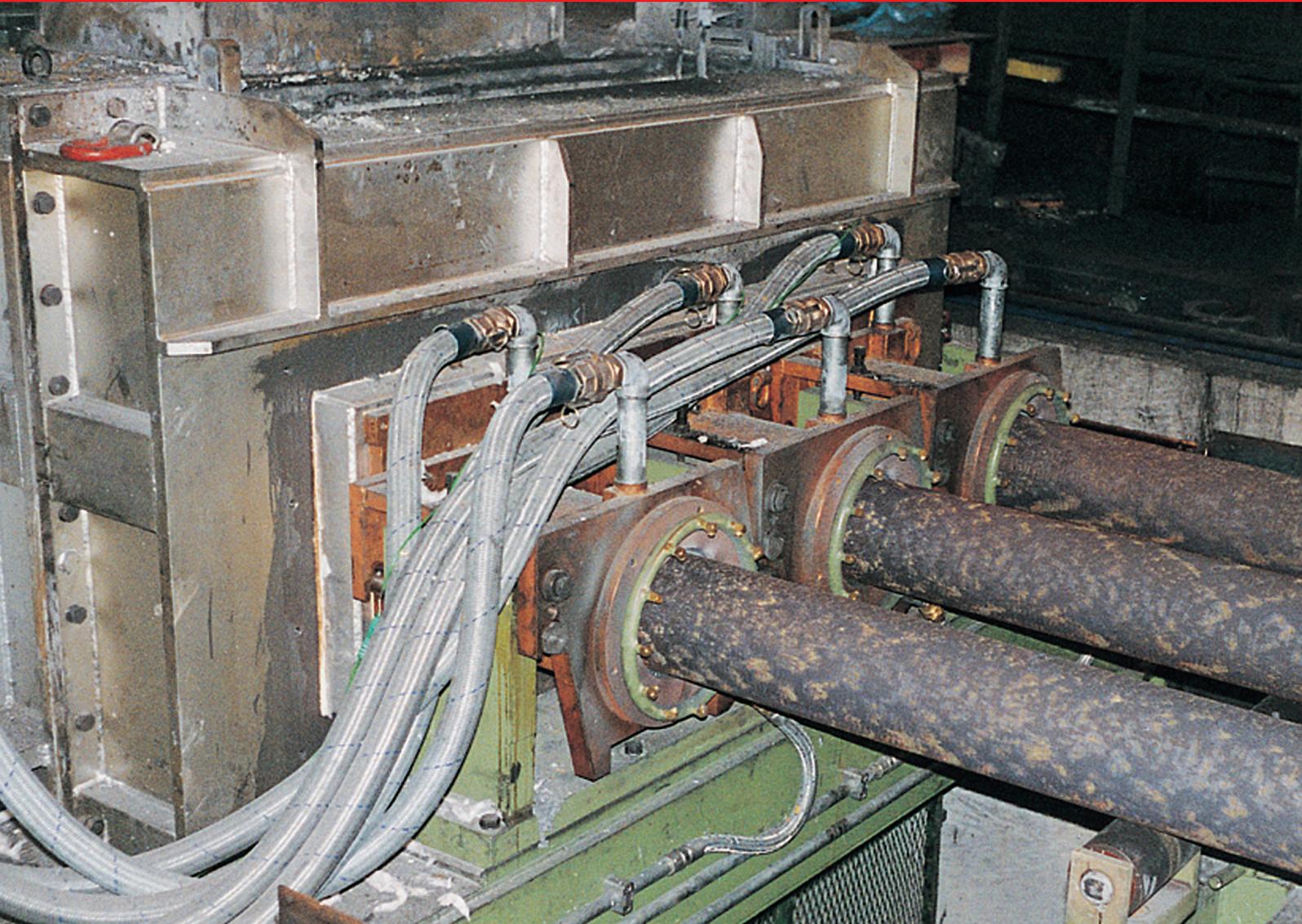
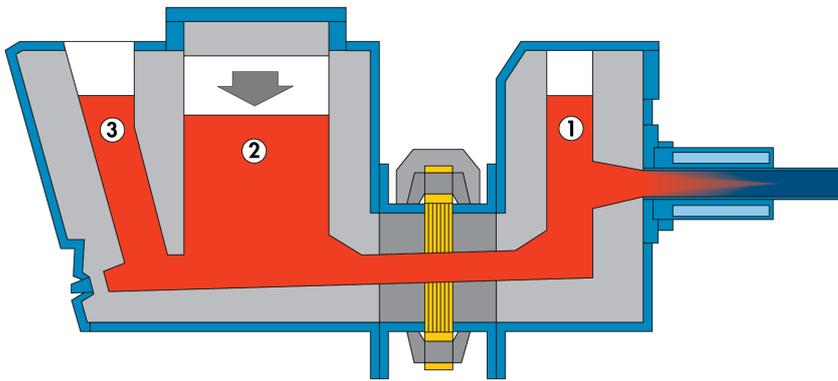


## Pressurized holding furnace for horizontal continuous casting



The horizontal casting of non-ferrous special alloys demands not only highly developed continuous casting technology, but also a holding and casting furnace which is able to maintain defined conditions with exact temperature control during the entire casting process. The static metal pressure on the strand shell must be kept constant in order to obtain an optimum strand cooling structure and an improved surface finish.

## Pressurized furnace for HCC casting lines



### Technical data

Design	3-chamber furnace with integrated channel inductor
Heating capacity	150 - 500 kW
Furnace holding capacity	5 - 30 tons
Application	horizontal continuous casting of non-ferrous alloys

The holding & casting furnace has three chambers which are heated by an inductor integrated into the furnace vessel:

Chamber 1: casting chamber with dedicated moulds

Chamber 2: pressure chamber

Chamber 3: melt charging via siphon inlet

The gas pressure (Nitrogen) in the middle chamber is controlled automatically to ensure a constant metal bath level in the casting chamber during the whole casting process.

With an appropriately dimensioned furnace holding capacity, the refilling intervals between melt transfer from the melting plant to the casting line to be extended improving flexibility.

Thanks to its special design, the furnace offers following benefits:

- quick mould changing
- constant metallostatic melt level above the mould
- extremely low inclusion rate thanks to the separation of casting and melt refilling
- negligible metal burn-off and slag formation thanks to the nitrogen pressurization
- constant casting temperature due to optimized inductor position

### 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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- Complete plants

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