



Melting

MF Induction Furnace Type Smart FS

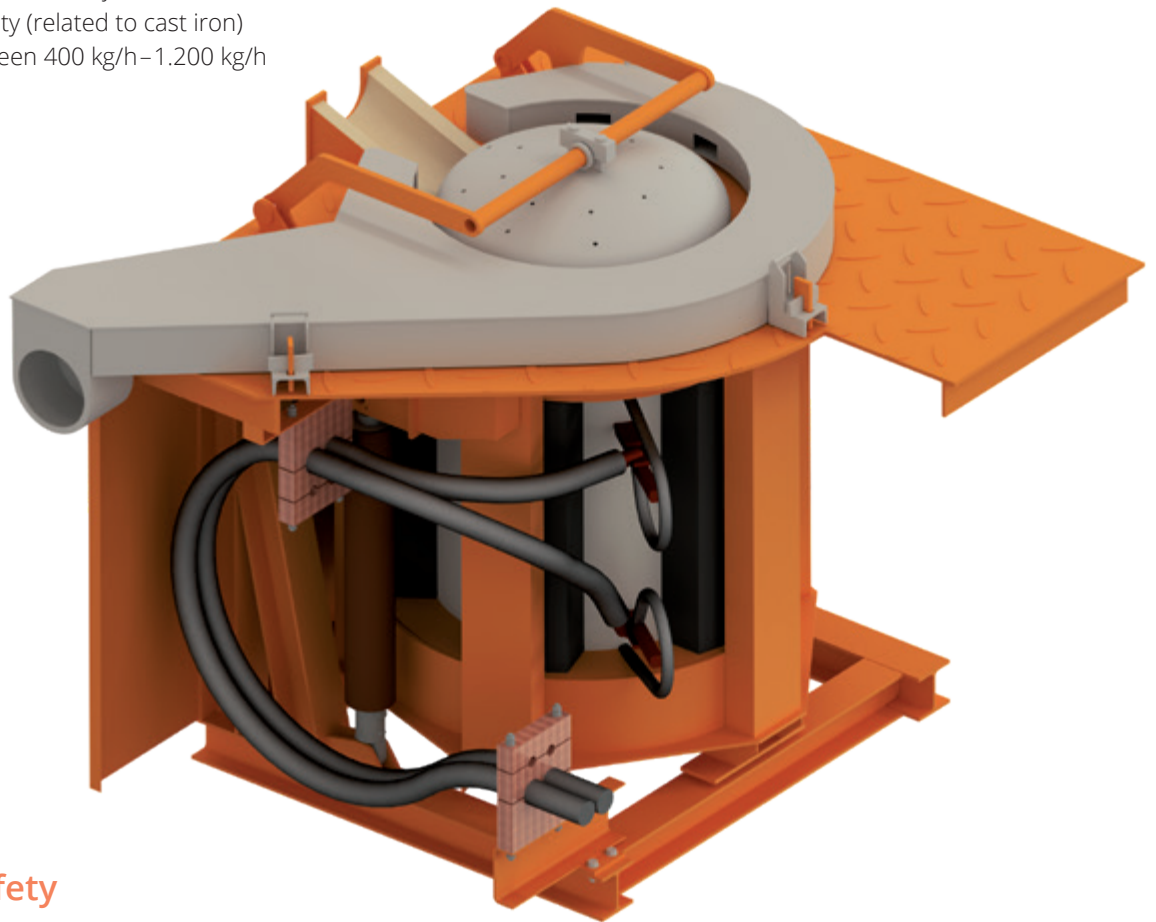
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MF Induction Furnace

Available systems

- meets requirements for melting ferrous and non-ferrous alloys
- 300–800 kg capacity (related to cast iron)
- Melting rates between 400 kg/h–1.200 kg/h



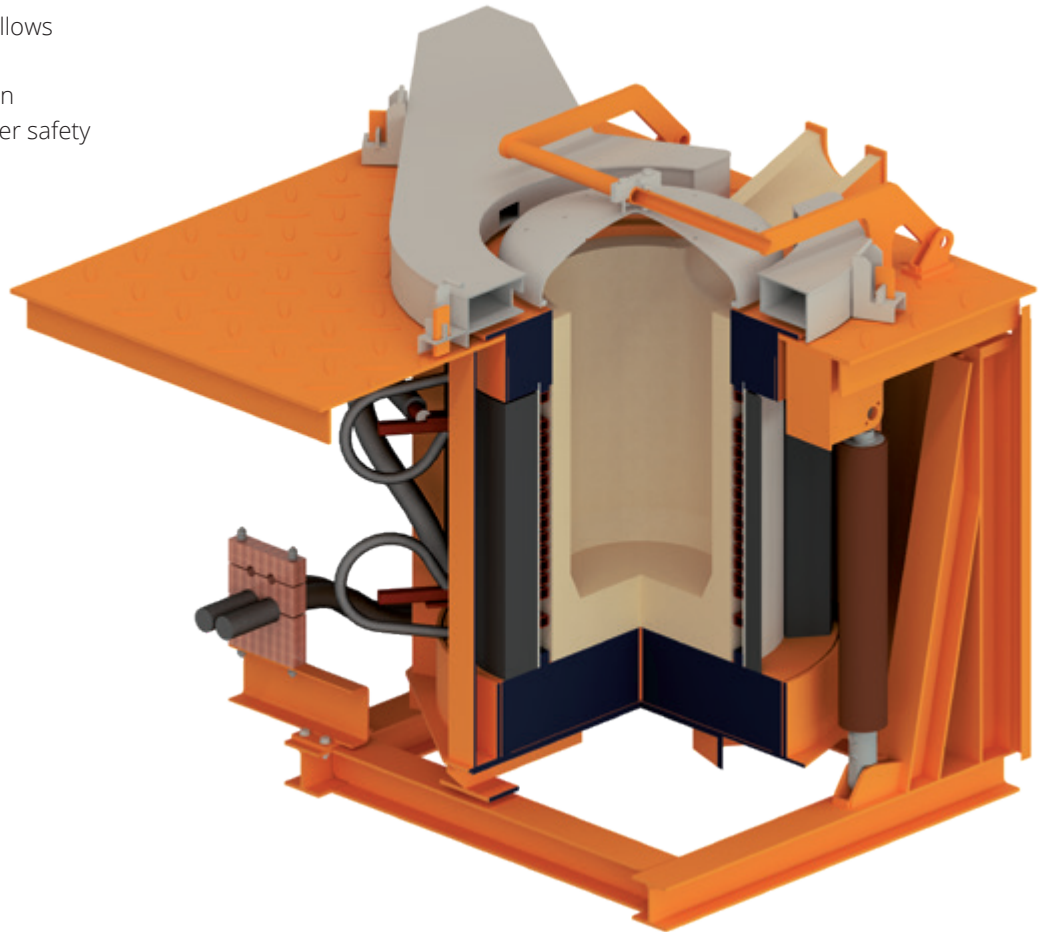
Enhanced safety

- Improved ground-fault detection system
- Automatic test of bath-grounding
- Automatic reactivation of detection system after manual deactivation
- Automatic self-test
- Furnace coil designed as hedgehog-coil to prevent breakthroughs

Type Smart FS

Coil Design

- Long lifetime, based on rectangular copper profile
- Segmental technology allows “breathing” of the coil
- Low energy consumption
- Hedgehog coil for higher safety



Furnace Design

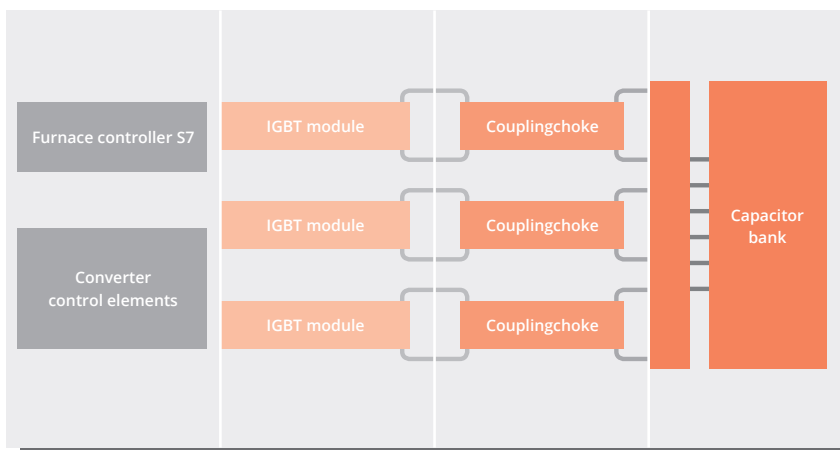
- Open design for easy maintenance
- Magnetic yokes for higher efficiency and reduction of stray fields
- Separate furnace head for easy exchange reduces downtimes

Meltprocessor PRODAPT® - Advanced (optional)

- PLC-based
- Calculation of energy request according to the furnace content
- Control of energy supply for melting and holding operation, as well as for cold-start and sintering
- Monitoring and visualization of operation data and conditions
- System monitoring and alarm function
- Reporting function

Efficient power supply with modern IGBT technology

- Compact design based on modular structure
- High efficiency
- Single cooling circuit for furnaces and power supply
- Improved availability through short service times during a breakdown
- Power factor $\cos \varphi > 0,95$ 95 in all mode of operations



Type Smart FS



Advantages at a glance

- For ferrous and non-ferrous metals
- High reliability and availability
- Low energy consumption
- High operational safety
- Maintenance friendly design
- Low life cycle costs
- energy supply in modern IGBT design
- compact layout with low space requirements

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