Melting
MF Induction Furnace Type FS

www.abpinduction.com
Meltprocessor PRODAAPT® - Advanced

- 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
  - Converter power freely distributable between both furnaces
  - Melting in one furnace and simultaneously sintering or holding in the other possible
  - Improved usage of the converter
  - Lower maintenance costs
  - Lower investment costs compared to separated power supplied

- Available systems
  - Meets requirements for melting ferrous and non-ferrous alloys
  - 1,000–6,000 kg capacity (related to cast iron)
  - Melting rates between 1,000 kg/h–6,000 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 headgehog-coil to avoid breakthroughs

- Coil Design
  - Open design for easy maintenance
  - Robust designed magnetic yokes for higher efficiency and reduction of stray fields
  - Separate furnace head for easy exchange reduces downtimes
  - Optimized fume-extraction with adapted ABP ECOTOP®-hoods

- Meltpower conversion
  - PLC-based solution
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- 2 furnaces, 1 converter - TWIN-POWER® principle
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Efficient power supply with modern IGBT technology

- Compact design based on modular structure
- High efficiency
- Cooling with plant water possible
- Improved availability through short service times during a breakdown
- Power factor cos φ > 0.95

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IGBT Converter

TWIN-POWER® principle
Type 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 as well as in approved SCR design
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