Melting
MF Induction Furnace Type IFM
Available systems for foundries

- Meets requirements for melting ferrous and non-ferrous alloys
- 8,000–35,000 kg capacity (related to cast iron)
- Power supplies between 1 MW and 18 MW available

Coil Design

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

Furnace Design

- Open design for easy maintenance
- Water-cooled magnetic yokes
- Separate furnace head for easy exchange reduces downtimes
- Pouring spout in tilting axis of the furnace to avoid moving pouring stream
- Low noise generation
- Optimized fume-extraction with ABP ECOTOP® hoods

Meltprocessor PRODAPT® - Advanced

- 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-ram and sintering
- Monitoring and visualization of operation data and conditions
- System monitoring and alarm function
- Reporting function
- Data exchange with SCADA systems possible

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 headgear coil to avoid breakthroughs

Melt processor - TWIN-POWER® principle

- 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

MF Induction Furnace

Type IFM

Type IFM

2 furnaces, 1 converter – TWIN-POWER® principle

Type IFM
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Type IFM

Advantages at a glance

- For ferrous and non-ferrous metals
- For high melt performance
- High reliability and availability
- Low energy consumption
- High operational safety
- Maintenance friendly design
- Low life cycle costs
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