

Holding

MF Induction Furnace Type LFS

www.abpinduction.com

ABP | PEOPLE.
INDUCTION | TECHNOLOGY.
SUCCESS.

MF Induction Furnace

Type LFS

Available systems

- meets requirements for melting ferrous and non-ferrous alloys
- 10.000–40.000 kg capacity (related to cast iron)
- Power supplies between 750–8.000 kW available

Enhanced safety

- Approved ground-fault detection system
- Automatic test of bath-grounding
- Automatic reactivation of detection system after manual deactivation
- Automatic self-test
- Furnace coil designed as headgeho-coil

Furnace Design

- Open design for easy maintenance
- Magnetic yokes
- Separate furnace head for easy exchange
- Segmental technology
- Optimized fume-extraction with ABP ECOTOP®-hoods



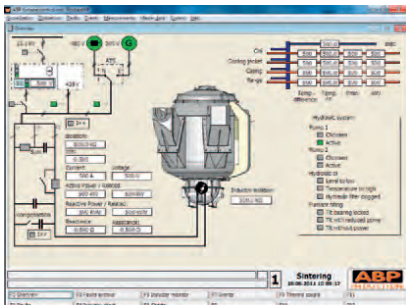
Coil Design

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



Meltprocessor PRODAPT® - Advanced

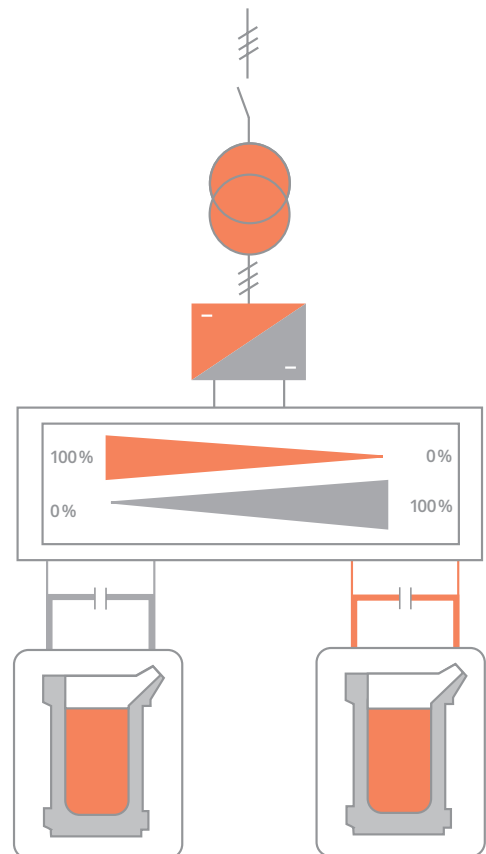
- PLC-based
- Calculation of energy request according to the furnace content
- Control of energy supply for melting and holding operation, as well as for cold-start and sintering
- Monitoring and visualization of operation data and conditions
- System monitoring and alarm function
- Reporting function



Meltprocessor PRODAPT®

2 furnaces, 1 converter – TWIN-POWER® principle

- Converter power freely distributable between both furnaces
- Refractory of a furnace can be sintered, while melting operation of the other
- Simultaneously holding of melt in one furnace, while melting in the other
- Improved usage of the converter
- Lower maintenance costs
- Lower investment costs compared to separated power supplied



TWIN-POWER® principle

Type LFS

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





ABP INDUCTION

Holding

**Channel Induction Furnace
Type LFR and IRT**

Available systems

Type LFR

- 13 – 40 t capacity for smaller volumes
- Inductor power rating between 500 – 1.000 kW available

Inductor design

- Water-cooled
- Various channel models for optimized operation and long refractory lifetime
- Automatic trend monitoring of the inductor condition

Type IRT

- 60 – 155 t capacity for bigger volumes
- Inductor power rating between 700 – 3.000 kW available

Vessel design

- Simultaneous filling and tapping
- Compact, cylindrical-shaped vessel (LFR) for smaller volumes
- Spherical-shaped vessel (IRT)
- Deslagging door at the back
- Tilttable in two directions
- Minimized heat losses

www.abpinduction.com

ABP | PEOPLE.
INDUCTION | TECHNOLOGY.
SUCCESS.



ABP INDUCTION

Furnace processor PRODAPT®-H/P

- Calculation of energy request according to the furnace content
- Control of energy supply for holding operation, as well as for cold-start and sintering
- Monitoring and visualization of operation data and conditions
- Monitoring of inductor key figures and evaluation in inductor diagram
- System monitoring and alarm function
- Reporting function

Efficient power supply with modern IGBT technology

- Compact design based on modular structure
- High efficiency
- No de-ionized water necessary
- Improved availability through short service times during a breakdown
- Power factor $\cos \varphi > 0,95$

Advantages at a glance

- High reliability and availability
- Low energy consumption
- High operational safety
- Maintenance friendly design
- Functional design
- Simultaneous filling and tapping
- High refractory lifetime

Your Contacts

GERMANY

ABP Induction Systems GmbH
Kanalstrasse 25
44147 Dortmund
Phone: +49 (0) 231 - 997 - 0
Fax: +49 (0) 231 - 997 - 2293

RUSSIA

ABP Induction Systems GmbH
Branch Office
Ryazanski prospect, 75/4
109456 Moscow
Phone: +7 (495) 620 57 26
Fax: +7 (495) 620 57 26

INDIA

ABP Induction Systems Pvt. Ltd.
455, Manjusar G.I.D.C. Industrial Area Savli
391770, Vadodara
Phone: +91 2667 264808/809
Fax: +91 2667 264808/810

CHINA

ABP Induction Systems (Shanghai) Co. Ltd.
No.118, Lane 289 Fulian II Rd.
Baoshan District,
Shanghai 201906
Phone: +86 (0) 21 - 5639 1278
Fax: +86 (0) 21 - 5639 0822

USA

ABP Induction LLC
1460 Livingston Ave.
North Brunswick, NJ 08902
Phone: +1 732 - 932 - 6400
Fax: +1 732 - 828 - 7274

MEXICO

ABP Induction Systems SRL de CV
Priv. La Puerta 2882-4
Parque Ind. La Puerta
Santa Catarina, N.L. 66350
Phone: +52 81 8390 - 2775
Fax: +52 81 8390 - 2774

SOUTH AFRICA

ABP Induction Furnaces (PTY) Ltd.
77 Heidelberg Rd.
City Deep/Johannesburg
Phone: +27 (0) 11 623 1814/17
Fax: +27 (0) 11 623 1809

SWEDEN

ABP Induction AB
Spännarhyttans Ind. område
738 92 Norberg
Phone: +46 223 23135
Fax: +46 223 21429

THAILAND

ABP Induction Ltd.
80/1 Moo 11, Phaholyotin Road
Tambol Klong Nueng
Amphur Klong Luang
Pathumthanee 12120
Phone: +66 25 29 34 57
Fax: +66 25 29 34 84