RHI MAGNESITA

STEEL

# RH Degasser



© RHI Magnesita

# There for you, wherever you need us

RHI MAGNESITA

The more closely we work with our customers, the greater the impact we can make for them. So a global network of offices, research centers, and production sites is important to us, and to them. We are continuously extending our global reach to be closer to even more customers.

Being closer to customers doesn't just mean we can be more responsive to their needs. It also helps us to listen better — to understand their concerns, cultures and ways of working. It makes us alert to new ways of thinking and ideas that enable us to deliver even better advice, services, and solutions.

Our exceptional resources and expertise extend far beyond making and selling products. We provide solutions to customers worldwide for cover projects, material specifications, thermal studies, numerical simulations, follow-ups and technical support in application of minerals, and maintenance and electromechanical services for refractory equipment.



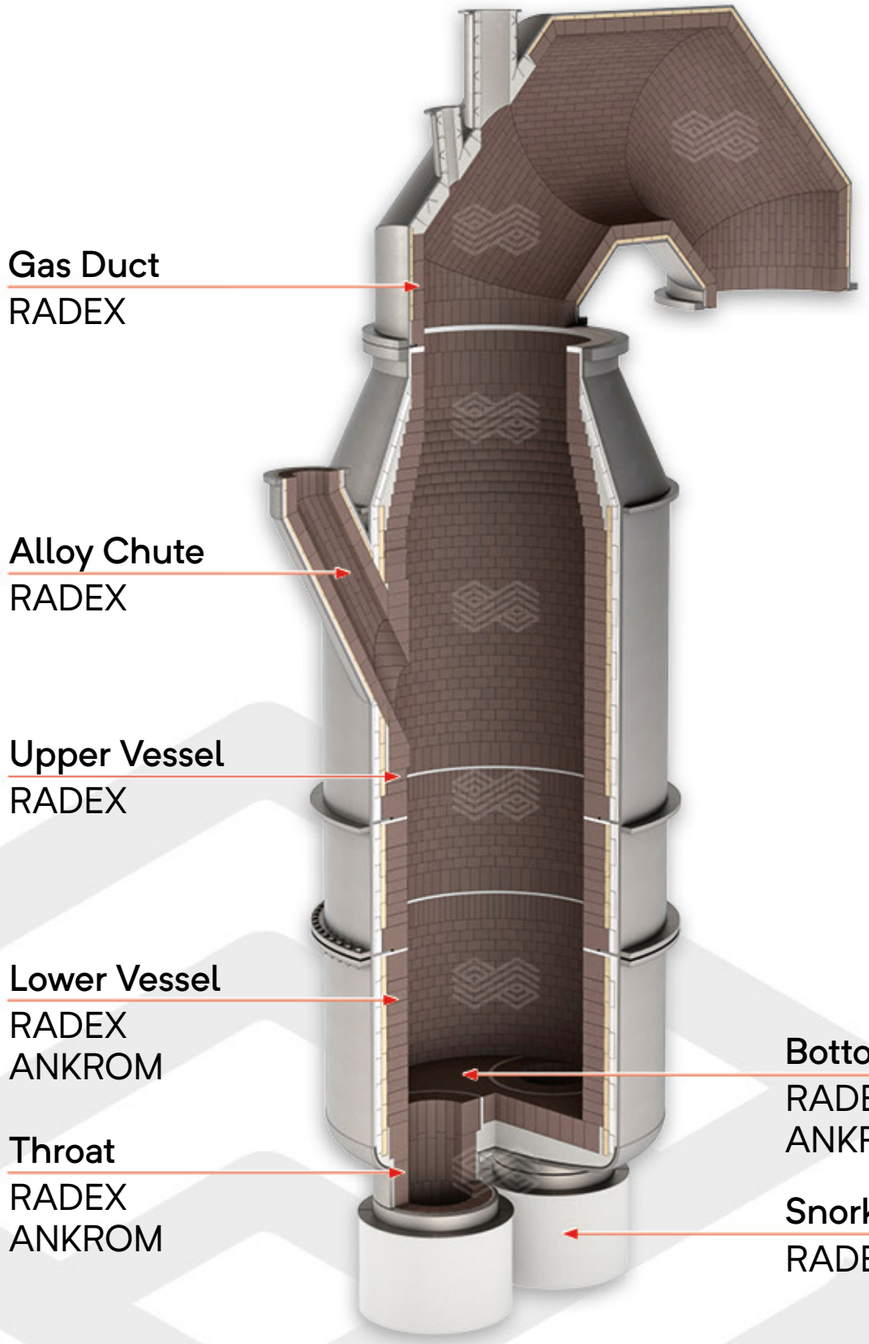

**35**
**Main production and raw material sites**

**70**
**Sales offices**

**180**
**Countries shipped to worldwide**

# The RH Degasser

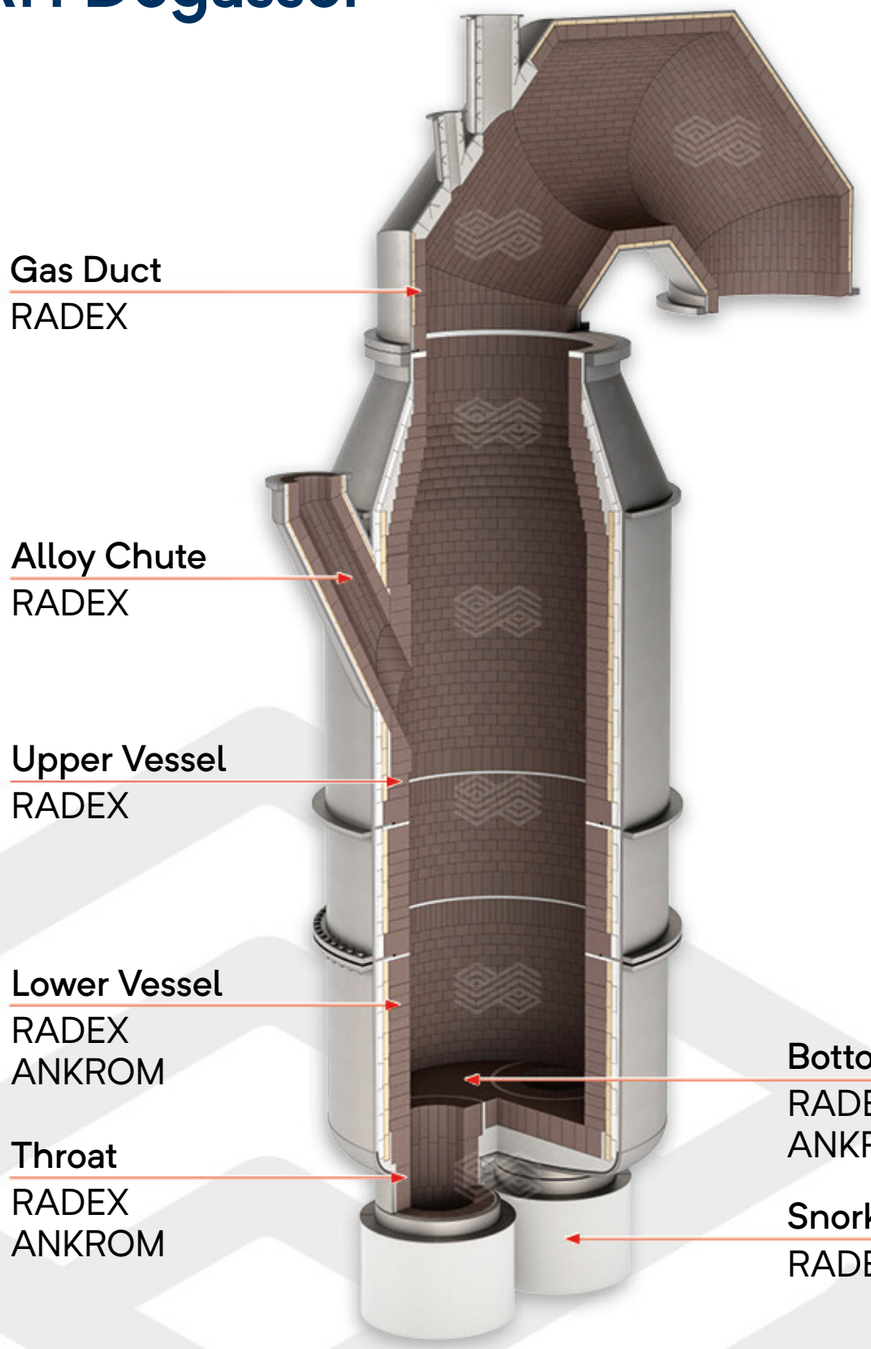
RHI MAGNESITA



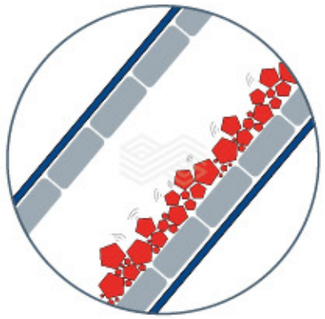
# Optimized Lining for RH Degasser

RHI MAGNESITA

Today, high-grade steel is more in demand than ever before. To produce top-quality steel economically, degassing is indispensable. And wherever quality steel is produced, you will find RHI Magnesita refractory products and systems.

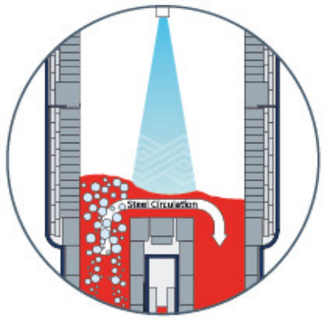



## Alloy Chute



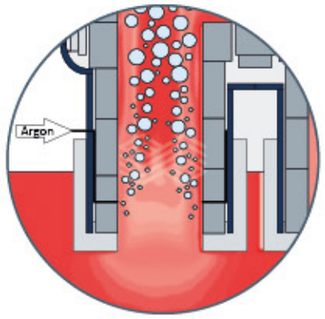
Erosion

## Lower Vessel




Erosion
Redox Reaction

## Snorkel/Throat




Erosion
Corrosion
Thermal Shock

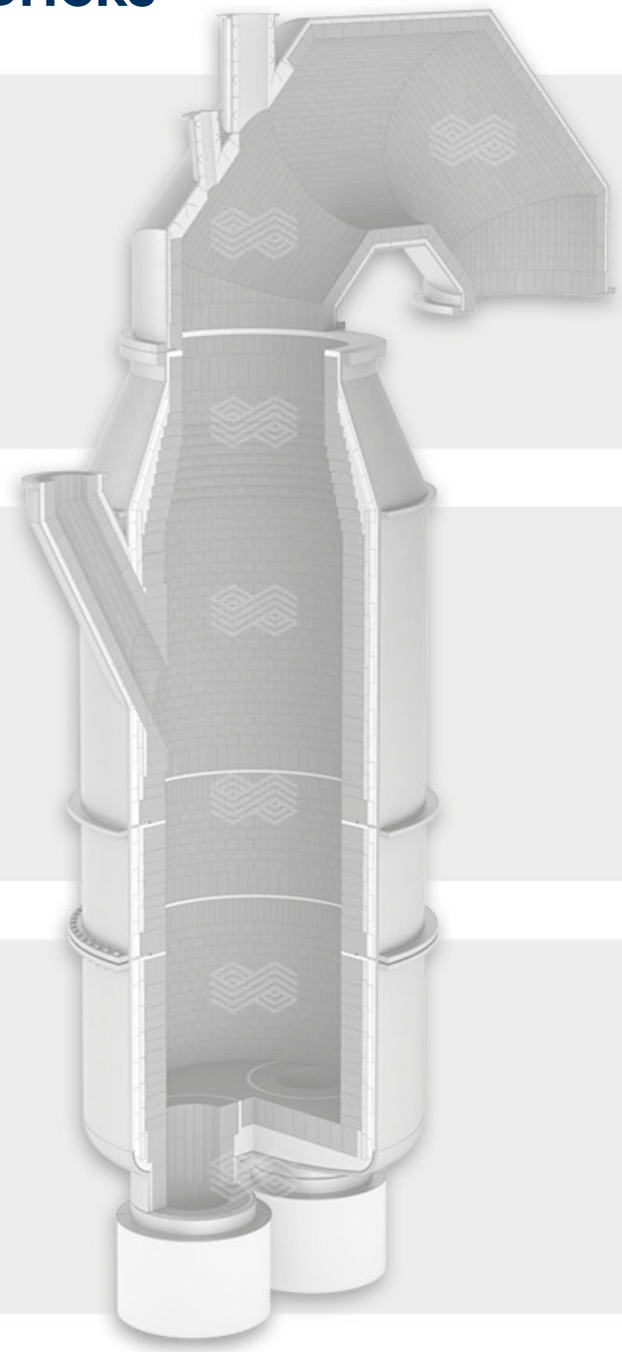
# Types of Magnesia Chromite Bricks

RHI MAGNESITA

## RADEX
### Direct Bonded
- Based on sinter magnesia and chromite
- Universal usability in most areas of the working lining
- Standard brick type for permanent lining
- Excellent thermal shock resistance

## ANKROM
### OXICROM Sinter
- Based on pre-reacted co-clinkered magnesia chromite sinter
- Working lining application in snorkel, leg and lower vessel
- Best compromise between corrosion, erosion and thermal shock resistance

## RADEX
### Rebonded
- Based on fused magnesia chromite
- For working lining areas with high chemical and mechanical wear
- Excellent corrosion and erosion resistance



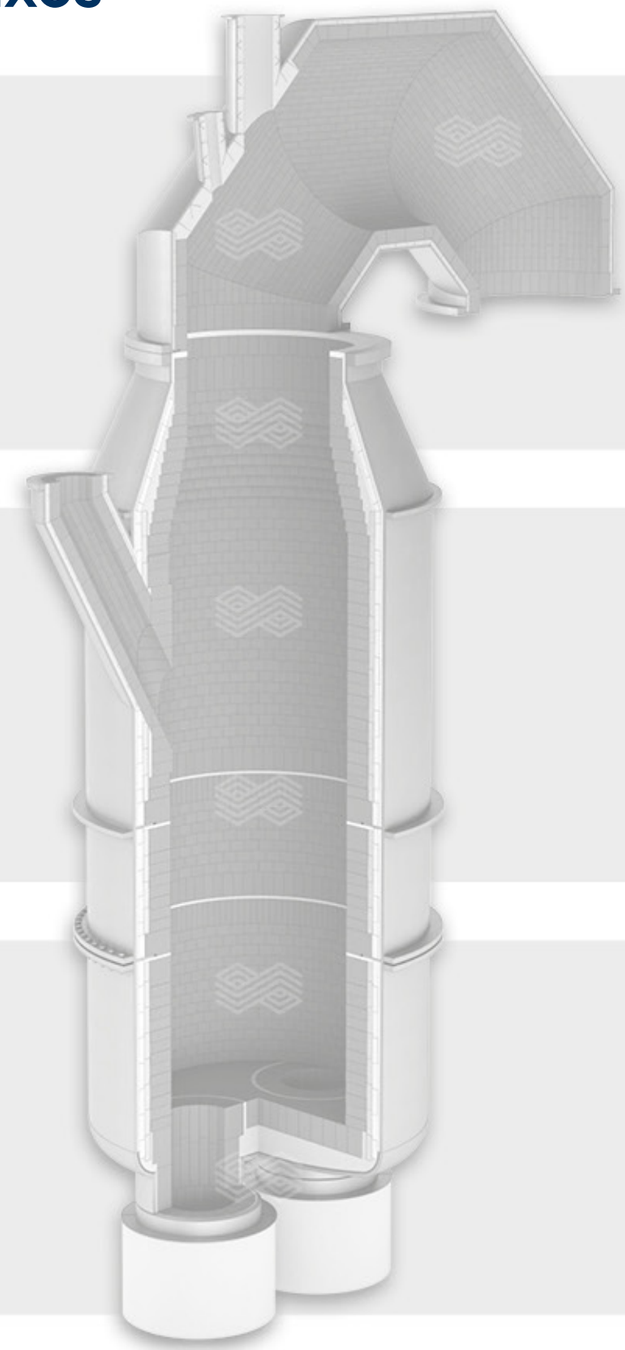
# Product Variety of Bricks & Mixes

RHI MAGNESITA

## RADEX, ANKROM

### Magnesia Chromite Bricks

- Based on sinter magnesia, chromite, OXICROM sinter or fused magnesia chromite
- Fired at temperatures above 1600 °C
- Highest refractoriness



## RADEXSNORKEL

### Prefab Parts

- Ready for use
- Quick installation
- Tailor-made by specialists

## ANKERJET, PERMASIT, ANKERMIX, DIDURIT, COMPRIT

### Mixes

- Versatile range of mixes for ramming, casting and gunning

# Prefabricated Snorkel

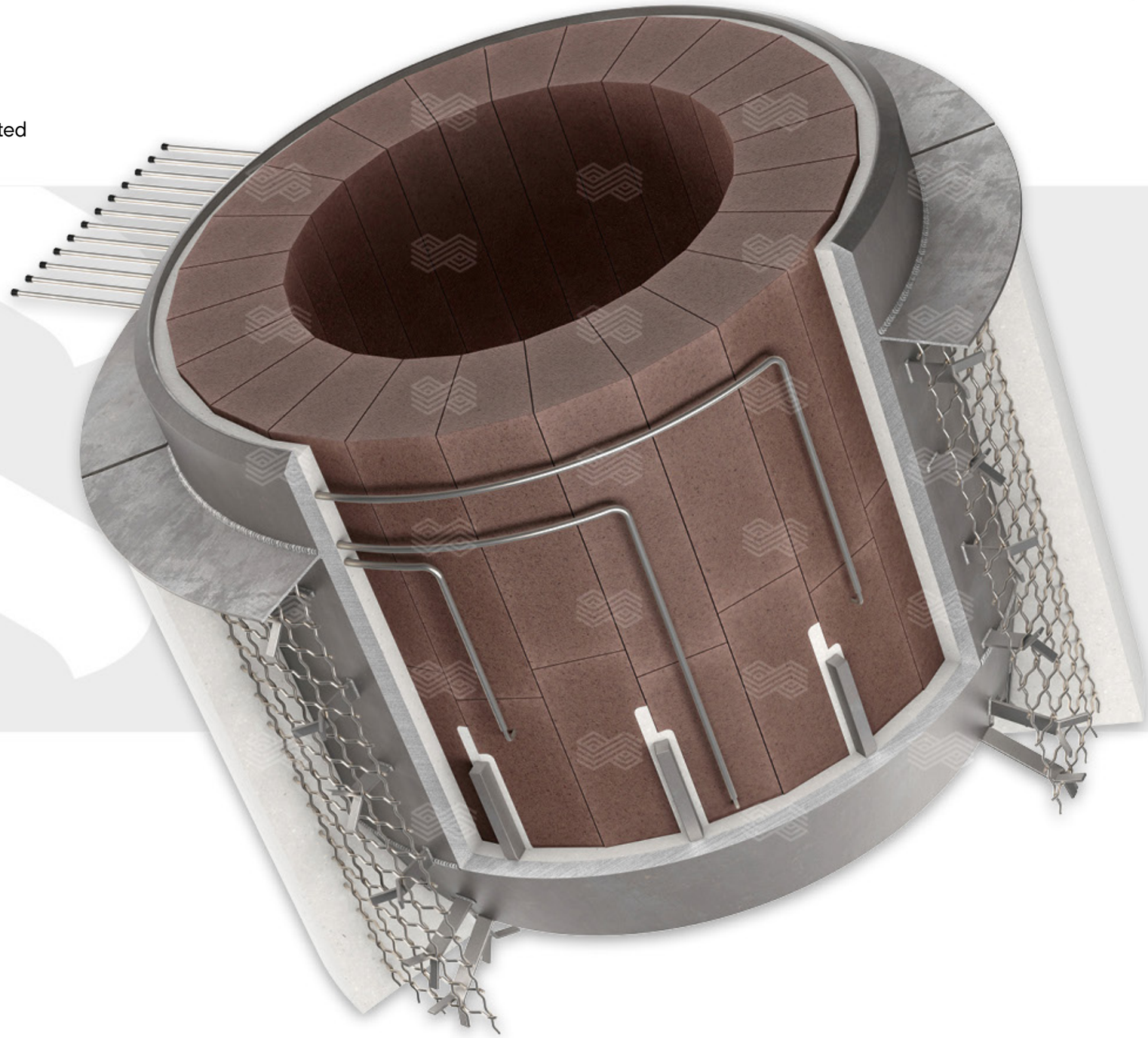
RHI Magnesita ready-for-use components — for highest lifetime.

Reliable quality confirmed by more than 2000 delivered prefabricated snorkels per year.

- Quick installation
- Tailor-made by specialists
- Ready for use

## Construction Features

- Innovative cone/gusset plate holding system for bricks
- Special brick shapes adapted to brick holding structure
- Bonded and castellated lining configuration
- Argon tubing between steel shell and inner brick lining
- Outer castable reinforced with stainless steel grid



# Prefabricated Parts

A precise lining starts at our manufacturing plant, trial assembly guarantees trouble-free and easy installation on site.

High dimensional accuracy by:
- Precise molding
- Advanced pressing and firing technologies
- Sophisticated finishing and assembling methods

## Prefabricated Throat Rings

- Bonded & castellated construction
- Preassembled, glued and bandaged or trial assembled and numbered



## Heating Port

- Machine pressed bricks
- Opening drilled after assembling



## Alloy Chute

- Round and square openings available
- Square opening manufactured by precise saw-cutting



# AGELLIS® Solutions

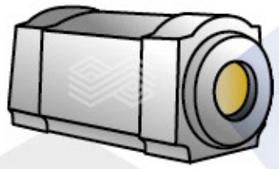
RHI MAGNESITA

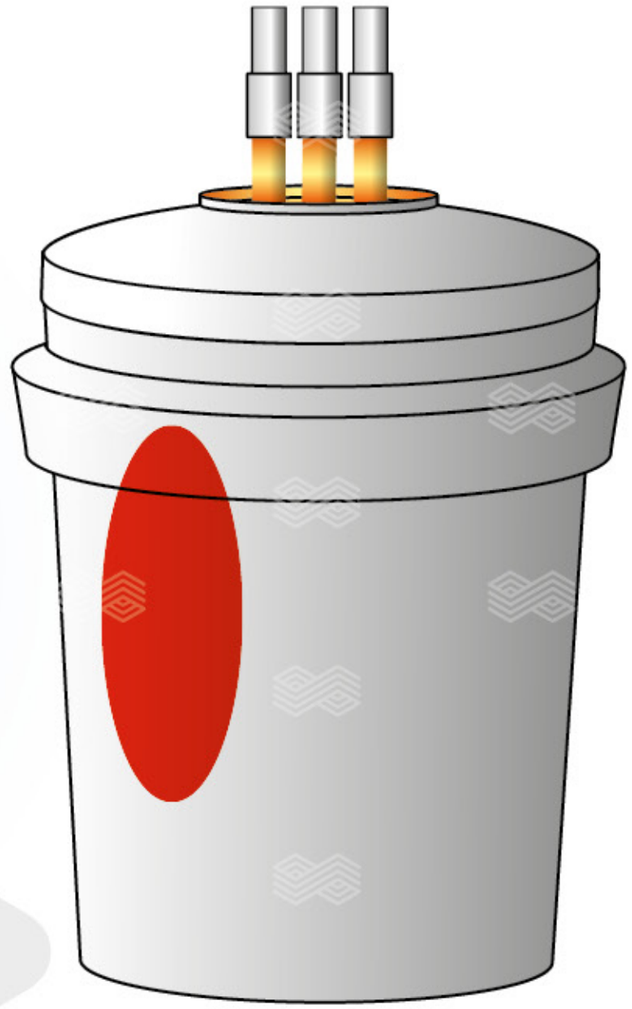
## VISIR-FurnaceSafe

Furnace breakout prevention

### User Benefits & Advantages

- Early "hot spot" detection and warning
- Used with LF, RH, EAF, AOD, LD/BOF
- Historical database open to process metallurgist





### More Information



# ANKERJET A

RHI MAGNESITA

## Application:

Multi-purpose pressure vessel machine for basic and non-basic mixes

## Advantages:

- Useable in a variety of aggregates
- Consumption data recording
- Different equipment variants available (e.g. load cells, detachable silo, ...)
- Charging by crane or forklift
- Low maintenance and wear costs
- Easy-to-use automatic and manual operation
- Transportable by crane and forklift



# ANKERJET M

RHI MAGNESITA

## Application:

Multi-purpose pressure vessel machine for basic and non-basic mixes

## Advantages:

- Useable in a variety of aggregates
- Small hopper with bag ripper for charging 25 kg paper bags
- Mobile design means flexibility of application
- Low maintenance and wear costs
- Pneumatic driven machine (no electricity required)
- Easy manual operation



# ANKERGUN

RHI MAGNESITA

## Application:

Multipurpose rotary gunning machine for basic and non-basic mixes

## Advantages:

- Useable in a variety of aggregates
- Small hopper with bag ripper for charging 25 kg paper bags
- Mobile design allows flexibility of application
- Continuous gunning mix feeding



# RH-Gun

## Application:

For inside and outside gunning of RH snorkels mounted on a maintenance car

## Advantages:

- Increased RH snorkel durability
- Full automatic gunning operation
- Manual gunning operation by radio remote control possible
- Less physical strain on operating personnel



Imprint:
Media owner and publisher: RHI Magnesita GmbH, Kranichberggasse 6, 1120 Vienna, Austria
Produced by: RHI Magnesita — 09 / 2019-EN
Place of publication and production: Vienna, Austria

Copyright notice:
The texts, photographs and graphic design contained in this publication are protected by copyright. Unless indicated otherwise, the related rights of use, especially the rights of reproduction, dissemination, provision and editing, are held exclusively by RHI Magnesita. Usage of this publication shall only be permitted for personal information purposes. Any type of use going beyond that, especially reproduction, editing, other usage or commercial use is subject to explicit prior written approval by RHI Magnesita.

RHI MAGNESITA

The Journal of
Refractory Innovations
bulletin

Subscriptions
Service and
Contributions

**RHI MAGNESITA**
Kranichberggasse 6, 1120 Vienna, Austria
**T** +43 50213 0 **F** +43 50213 6213
**E** steel@rhimagnesita.com

**rhimagnesita.com**