



RHI MAGNESITA

# RHI Magnesita

Services and Portfolio for  
Europe, CIS, Turkey

# The Global Leader in Refractories

There for our You, wherever You need us



**13,500**

Employees

**€ 3.3 bn**

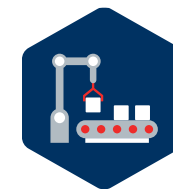
2021 revenue

**€ 77 m**

Investment in R&D and  
Technical Marketing

**+1,500**

Global patents



**33**

Main production  
sites



**+100**

Countries shipped  
to worldwide



**5**

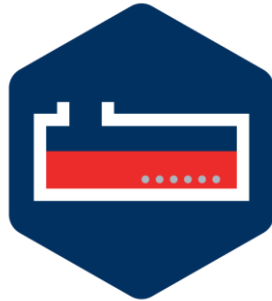
R&D hubs and  
centers

# Covering a wide Area of Applications worldwide

## Applications



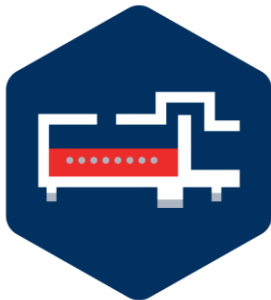
Rotary Kiln



Copper-converter



Glass furnace



Secondary  
reformer



Basic oxygen-, electric  
arc furnace casting ladles



Multiple Waste  
Incinerator

## Refractories as Investment Goods

- Longer replacement cycles
- Customized solutions based on the specific requirements of various industrial production processes
- Complete lining concepts including refractory engineering
- Wide areas of application
- Project driven demand cycles



# A complex Range of tailored Refractory Products and Solutions

## Bricks



1

Permanent lining

2

Non-basic, ex. Alumina



3

Basic, ex. Mag-Carbon



## Monolithics & pre cast



4

Mixes



5

Pre Castables

## Functional products



6

Slide Gates



7

Nozzles



8

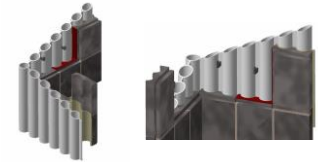
Purge Plugs



9

ISO

## Tile system - Didotherm Fix



## Digital Solutions



## Systems & Machinery



# The Industries we serve



Cement &  
Lime



Environmental



Non-Ferrous  
Metals



Chemical &  
Petrochemical



Iron & Steel



Waste to  
Energy



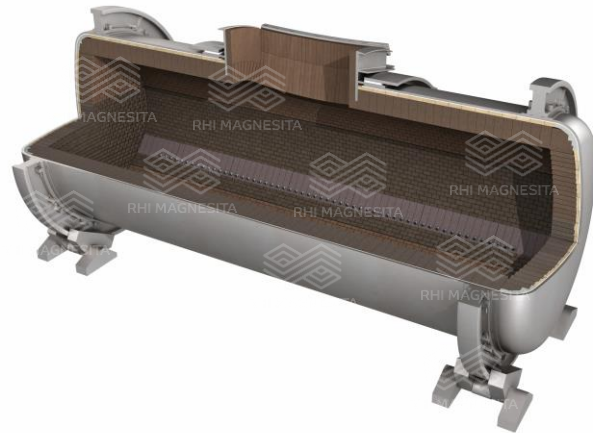
Glass



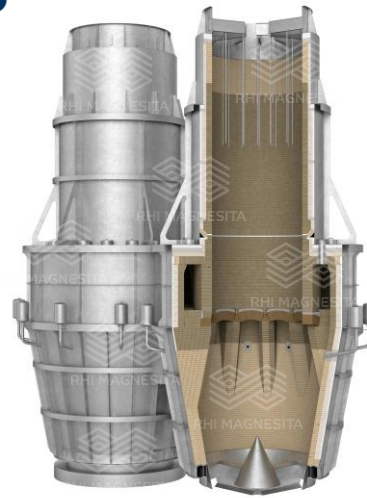
Chimney



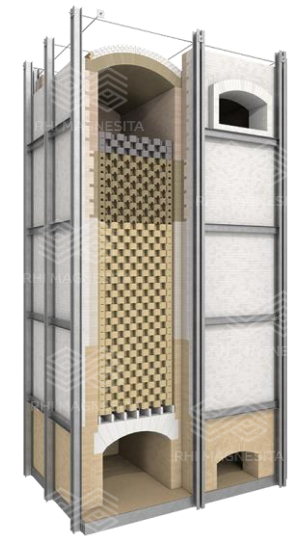
# Refractory Systems and Linings for Environmental Technologies und Incineration



**Non-Ferrous -  
Teniente Converter**



**Lime -  
Shaft Kiln**



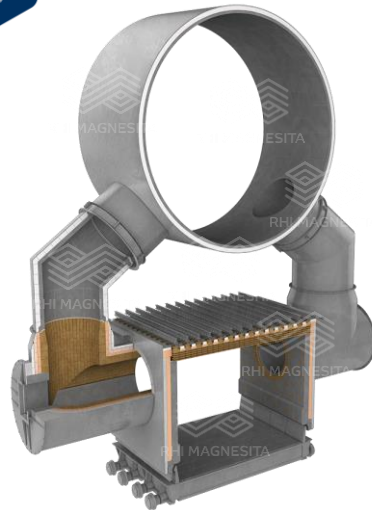
**Glass -  
Regenerator**



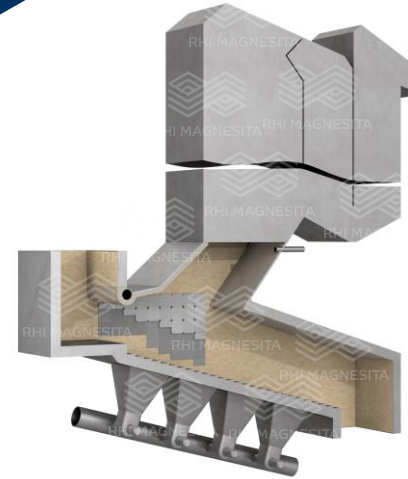
# Refractory Systems and Linings for Environmental Technologies und Incineration



**Cement -  
Rotary Kiln**



**EEC -  
FCC Units**



**Waste to Energy -  
Waste Incinerator**



**Steel -  
Ladle for Foundries**

# Our Modular Solution System — Maximum of Flexibility and Reliability



## Engineering

- Professional CAD-drawings
- BOM-Bill of material
- all relevant technical documentation
- As built drawings



## Material

- Production
- Packing
- Transportation
- Warehousing



## Maintenance

- After sales service
- Inspection services incl. technical reporting
- Maintenance work



## Site Management

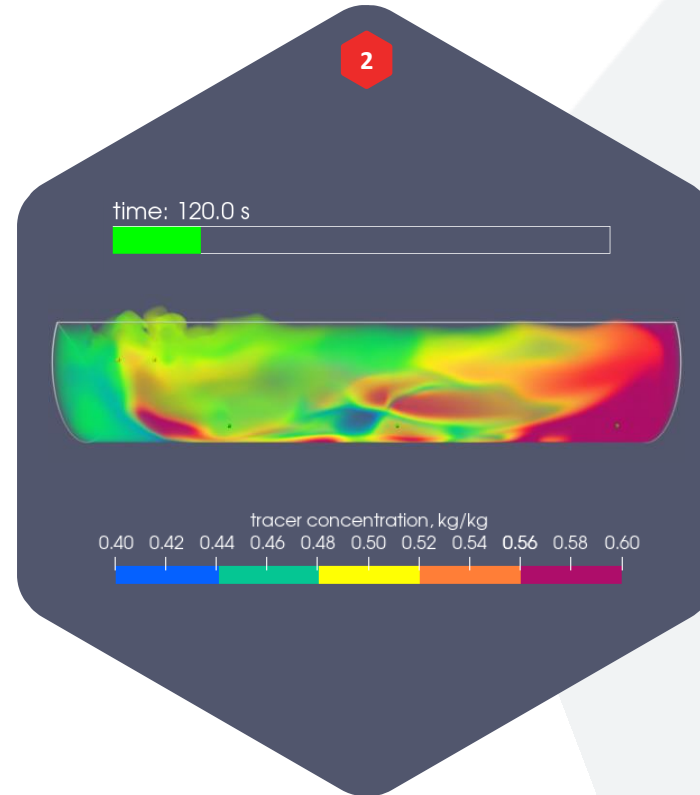
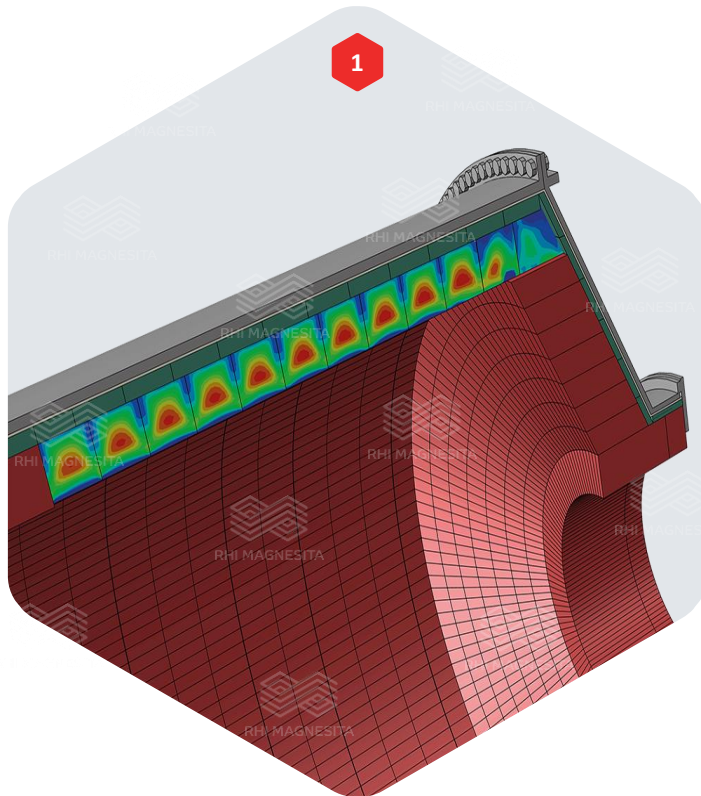
- Installation
- Supervision
- Site-organization
- Dry-Out





# Customized Analyses & Determination

## Our Engineering Services



### 1 Computational Fluid Dynamics

CFD analysis of vertical mixing efficiency (copper converter)

### 2 Finite Element Analysis

FEA analysis of the stresses in linings (rotary furnace)



# Full Range of high-quality Products

## Our Material Portfolio

### Bricks / Special Shapes

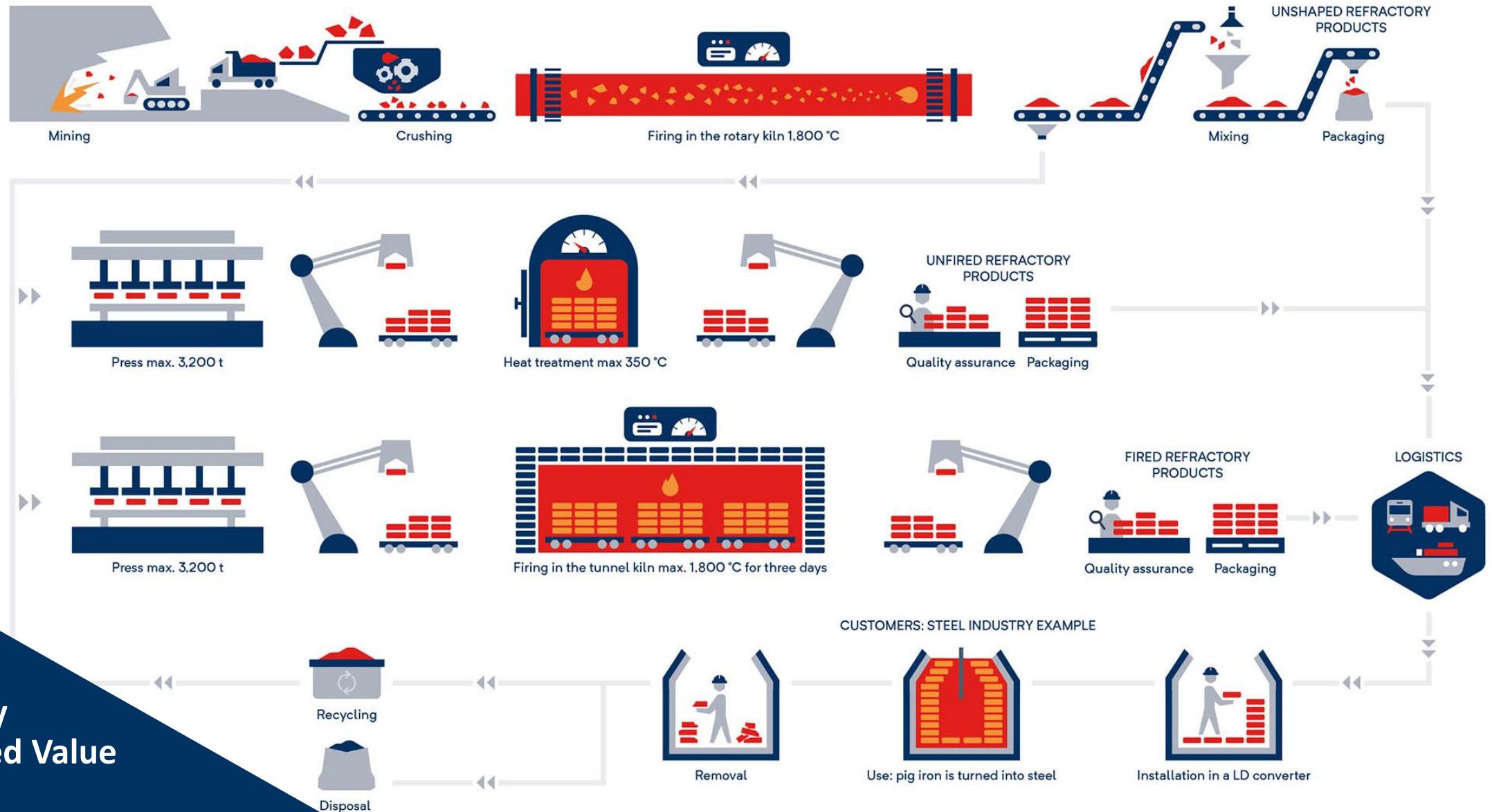
<b>LEGRAL*</b>	Insulating Fire Brick
<b>MAXIAL*</b>	Standard Fire Clay up to High Duty Fire Clay
<b>RESISTAL*</b>	Dense High Alumina High Fired
<b>DURITAL*</b>	Super Dense High Alumina and/or Ultra High Fired
<b>ZETTRAL*</b>	High Zirconium
<b>CARSIAL*</b>	High Silicon Carbide

### High Temperature isulation (HTI)

<b>PYROSTOP*</b>	Refractory Ceramic Fiber (RCF) and Soluble Fiber supplied as Blankets, Boards, Modules, Paper, Felt etc.
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### Castables

<b>LEGRIT*</b>	Insulating
<b>COMPRIT*</b>	Cement bonding
<b>SUPER COMPRIT*</b>	Medium Cement
<b>DIDURIT*</b>	Low & Ultralow Cement
<b>COMPAC SOL*</b>	No-Cement — next generation
<b>CARSIT*</b>	Silicon Carbide



Material

## Vertically integrated Value Chain

From Raw Material to Refractory Product

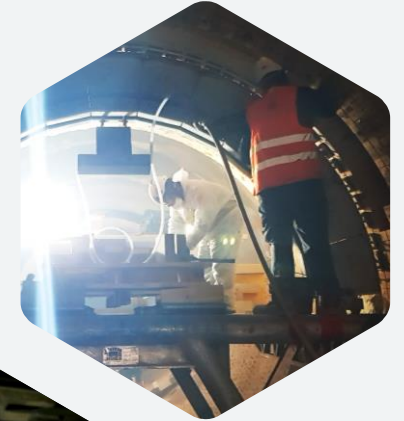




# Construction & Installation Solutions

## Our On-Site-Services

- Pool of experienced Supervisors/Construction Managers/Staff
- Project organization to handle all types and sizes of jobs
- Installation teams in Europe and North-America, including specialized crew for industrial chimneys
- Construction and dry-out equipment
- Co-operations with service companies worldwide





# Close to wherever You are

## Headquarter and 5 Warehouses in Europe



### Headoffice in Wiesbaden

- **Project Management:** Team of experienced Project leaders in all areas
- **Technical Marketing:** highly experienced team for layout and material selection
- **Engineering:** own design team to create drawings quickly and reliable according to customers specification
- **Procurement:** large network of strategic partners to guarantee highest quality



### 5 Warehouses/Logistics

- **Warehouses:** Own equipment which is kept on the best standard by regular maintenance
- **Logistics:** quick mobilization and demobilization due to own logistic
- **Construction site coordination** with the ability to efficiently react on short notice
- well trained team of **80 employees** with all necessary skills in the refractory field





# Maintenance Service

## Worldwide network of experts

- Comprehensive network of experts providing technical support
- (Pre-)Maintenance inspections (by application specialists)
- Inspection reports with recommendations/solutions
- Consulting services for detailed analyses supported by RHI Technology Center
- Execution of all maintenance work
- Refractory trainings for field service personnel





# Quality, Health & Safety

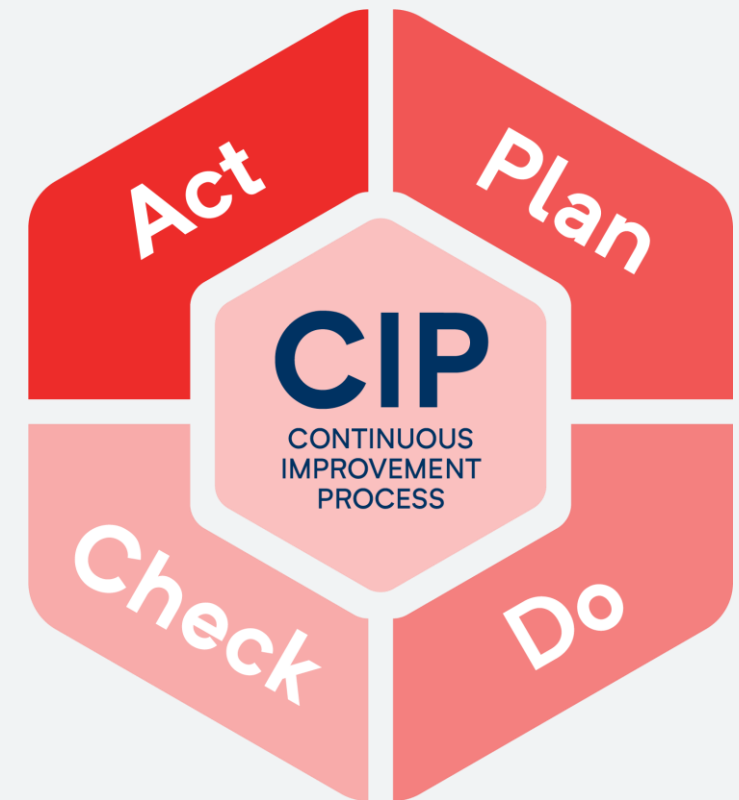
**A true value, more than a priority**

Quality, Health and Safety are key-competences of RHI Magnesita.

Management and all staff are focused to achieve the highest standards in these areas.

A continuous improvement process is in place to monitor and provide measurable results.

**Certificates our Construction & Installation organizations and staff for example hold:**



# Health, Safety and Environment

## Our vision: zero harm

Safety is a value for RHI Magnesita, hence more than a top priority. We believe that all accidents related to people, environment and assets can be prevented.

The goal of zero injuries is an integral part of our continuous improvement and learning culture.

Our approach: proactively eliminate risks and measure our performance with relevant leading and lagging indicators.



# Sustainability

A true value, more than a priority

## What we want



We support societies' targets to decarbonize industry



We engage in finding technologies that reduce CO<sub>2</sub> emissions



We aim to reduce at least 15% of CO<sub>2</sub> emissions until 2025

## What we do



We raise our public voice, actively engaging with authorities



We invest €50m until 2025 in CCUS technologies



We double the use of secondary raw materials; we change our energy mix; we launch low carbon bricks





RHI MAGNESITA

# Get in touch — stay in touch

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