There for you, wherever you need us

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.
Foundry Equipment

- Induction Furnace
- EAF
- AOD Converter
- Casting Ladle
- Transfer Ladle
- Cupola Furnace
Product Variety of Bricks for Foundries

SINDOFORM
Fired Doloma Bricks
- Best price-performance ratio
- Carbon/resin bonded for standard steel, fired doloma for special steel production

ANCARBON
Magnesia-Carbon Bricks
- Highest refractoriness
- Unparalleled flexibility for different and even changing process conditions
- Universal usability in all areas of the wear lining of EAF, treatment ladles, converters and AOD

RESISTAL
Fired Alumina Bricks
- High thermal shock resistance and low thermal conductivity
- Available as combinations of fireclay, mullite, bauxite, corundum-spinel and chromium-corundum
- Products for bath area, safety lining and insulation of ladles

ANKER
Fired Magnesia Bricks
- Exceptional products restricted to special applications such as conventional EAF and treatment ladles
- Available as pure burnt magnesia or combined with either chromium oxide, direct-bonded oxicrom and/or spinel

DELTEK
Isostatic Products
- Nozzles, stoppers, sleeve bricks for stopper rod, zirconia nozzles

ANKERPERM, RADEX DPP, DIPERMAL, URBLOCK, URSTAR
Purging Plugs
- Gas purging sets for EAF, AOD, converters, ladles and induction furnaces
- Gas control systems

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**Product Variety of Mixes for Foundries**

**DIDURIT, COMPRIT, COMPAC SOL**
*Wet Alumina Mixes*
- Castables known worldwide for all applications
- Castables and mortars for general applications

**ANKERINDUX**
*Dry Alumina Mixes*
- High-refractoriness mixes for steel production on induction furnaces
- Optimized spinel formation for having thermal and structural stability during operation

**RAM-MIX ZIS**
*Dry Silica Mixes*
- High-purity mixes for iron production in induction furnaces
- Thermal and chemical stability during the furnace operation
- Available in South America

**ANKOFORM**
*Alumina Prefabs*
- Pocket blocks, spouts and crucibles
- High-performance deltas with innovative technologies

**RUBINIT, ANKERJET**
*Wet Basic Mixes*
- Gunning and/or ramming mixes for EAF, converters and ladles
- Mortars for general applications

**ANKERHARTH, ANKERFILL, PERRAMIT**
*Dry Basic Mixes*
- Excellent corrosion resistance against aggressive slags
- Dry MgO based ramming mixes for EAF applications (hearth mixes and backfilling mixes)
- MgO–C mixes for converters and EAF
- Fettling mixes for EAF
The Induction Furnace

- **Spout**
  - DIDURIT
  - COMPRIT
  - COMPAC SOL
  - ANKOFORM (prefab)

- **Top Cap**
  - DIPLAST
  - DIRAM

- **Bricked Lining**
  - RADEX
  - ANKROM

- **Monolithic Lining**
  - ANKERINDUX
  - RISAMIX
  - RAM MIX ZIS

- **Gas control Box**

- **Purging Plug**
  - ANKERPERM
  - DIPERMAL
  - URBLOCK
  - URSTAR
**The AOD for Foundries**

Discharge
- JEBCO SLAB

Upper Cone
- SINDOFORM
- ANCARBON C low carbon

VISIR-FurnaceSafe

Cylinder
- SINDOFORM
- ANCARBON C low carbon

Backfill
- JEBCO FILL
- ANKERFILL

Permanent Lining
- RUBINAL
- ANKER
- SINDOFORM

Slagline
- SINDOFORM
- ANCARBON C low carbon

Bottom Ramming Mix
- JEBCO RAM
- PERMASIT

Tuyere Area
- SINDOFORM
- ANCARBON C low carbon

Lower Cone
- SINDOFORM
- ANCARBON C low carbon

Bottom
- SINDOFORM
- ANCARBON C low carbon
The EAF for Foundries

- **Hot Spot**
  - ANCARBON

- **Backfill**
  - ANKERFILL

- **Spout**
  - ANKOFORM
  - ANKERMIX
  - COMPAC SOL

- **Intermediate phase**
  - ANCARBON

- **Door Jamb Zone**
  - ANCARBON

- **Upper Sidewall**
  - ANCARBON

- **Lower Sidewall**
  - ANCARBON

- **Ramming mix**
  - PERMASIT

- **Hearth**
  - PERRAMIT
  - ANKERHARTH

- **Permanent Lining**
  - ANKER
Three main application areas of EAF repair mixes:

- Cold repair of hearth and banks:
  Hearth mixes — ANKERHARTH
- Hot repair of hearth and banks:
  Fettling mixes with advanced sintering properties — ANKFRIT
- Repair of sidewalls, door area and slag zone:
  Gunning mixes containing different binders — ANKERJET

**Benefits**

- Easy application
- Self-compaction and quick sintering
- Individual customer solutions can be developed on request
- Prolonging sidewall lifetime and achieving a balanced lining
- RHI Magnesita offers a broad range of standard gunning mixes
- Individual customer solutions can be developed on request
- Excellent results in combination with RHI Magnesita gunning robots
Monolithic Roof Center Piece

The new generation of sol-bonded products has shown impressive results both as cast-on-site solution as well as in prefabricated deltas.

Benefits

- Excellent hot properties
- Excellent corrosion resistance
- No special requirements regarding mixing equipment (cast on site)
- Longer shelf life compared to LCC’s (cast on site)
- Remarkable time and energy savings during heat-up (cast on site)
- Increased service life/productivity
The Cupola Furnace

- Easy application materials
- Many options for fast heating up profiles
- Specially designed systems with high corrosion and erosion resistances

Charging
SUPER COMPRIT

Stack
COMPRIT

Melting Zone
CARSIT

Hearth
COMPRIT
DIDURIT
UREX

Siphon Box
CARSIT
DIDURIT
The Ladle for Foundries

Permanent Lining
MAXIAL
RESISTAL

Mortar Permanent Lining
RESIMUR
CARSIMUR
DIOTTECT
RESITECT

Wear Lining — Castable
DIDURIT
CARSIT
DIDOOFLO
COMPAC SOL
ANKOFLO

Spout/Outlet Castable
DIDURIT
CARSIT
DIDOOFLO
COMPAC SOL

Insulation
LEGRAL
PYROSTOP

Wear Lining — Brick
RESISTAL
ANCAROBON

Purging Plug
ANKPERERM
URBLOCK
URSTAR
DIPERMAL
From solid-nose to alumina graphite stoppers, RHI Magnesita’s stopper portfolio provides customized and integral flow control stopper solutions for reliable mold level control, clogging reduction and steel and/or iron quality improvement.

Achieve the smoothest casting through the combination of stable stopper handling, customized argon injection and high-end refractories.
Stopper Rod Mechanism INTERSTOP® SRM-L

Overview
- Designed for casting ladles
- Automatic or manual operation
- Easy installation and operation
- Locking system for safe ladle transfer

System Characteristics
- Tight mechanical play for precise flow regulation
- Reliable locking system
- Stopper alignment by horizontal guidance (2-axis)
- Designed for stopper rod assembly into a preheated casting ladle
- Electric or hydraulic driven actuators

Maintenance and Support
- Minimal maintenance work required
- Long lifetime of parts
- Long inspection intervals, short inspection time
- INTERSTOP® after sales service

Main Parts
- Counter weight
- Lever
- Locking system
- Drive
- Main carrier
- Drive holder
- Clamping unit
- Stopper arm
- Base plate
- Manual drive

Mounting example
ANKERJET M

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

**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
Application:
De-airing of hearth mixes for the installation

Advantages:
- Improved de-airing of banks
- Improved service life of hearths and banks due to higher lining density
- Less physical strain on operating personnel
- Substantially shorter lining times