

REFRALINE

Refractory & Corrosion

ENGINEERED RELIABILITY

STRENGTH & INNOVATION IN EVERY LAYER

Complete Refractory, Corrosion &
Pyrometallurgical Engineering Solutions



45+

Established
1981



200+

Skilled
Personnel



ISO

Certified



24/7

Support



ABOUT REFRALINE

Engineering Reliability Since 1981

The Refraline Group has grown into one of Southern Africa's leading providers of refractory, corrosion and pyrometallurgical engineering solutions.

Our integrated capabilities span:

material development, engineering design, manufacturing, refractory anchor production, installation, maintenance and complete turnkey project execution, delivering safe, reliable and innovative solutions to heavy industry.



INDUSTRIES & SECTORS



STEEL



MINING



FERRO ALLOYS



PGM



PETROCHEM



POWER



CEMENT



GLASS



PAPER

WHY REFRALINE ?



ENGINEERING DESIGN

Engineered refractory solutions tailored to operational requirements.



MATERIAL DEVELOPMENT

Customer-specific refractory materials developed through in-house R&D.



TURNKEY PROJECTS

Single-source responsibility from design to commissioning.



ANCHOR MANUFACTURING

Complete stainless-steel anchor design and manufacture.



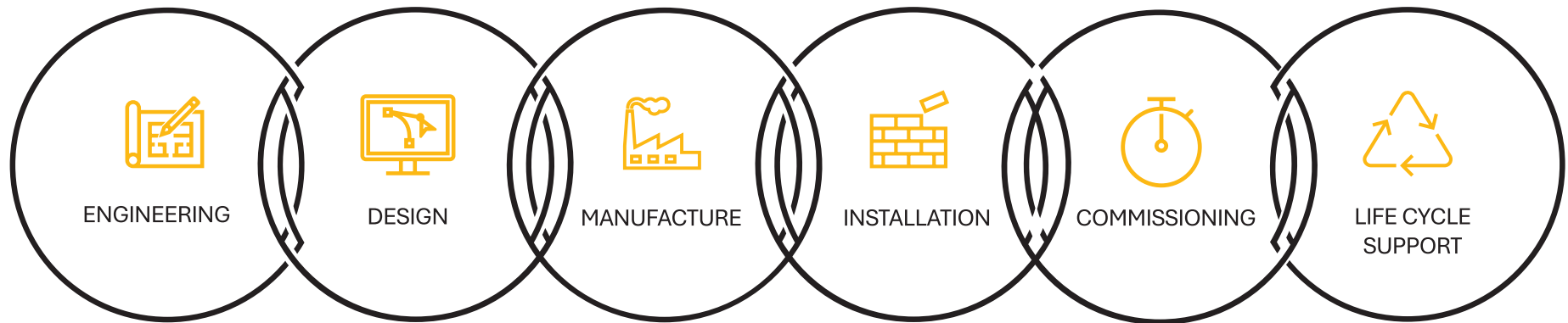
INSTALLATION

Highly skilled refractory installation teams.



TURNKEY PYROMETALLURGICAL SOLUTIONS

Complete Engineering Solutions from Concept to Commissioning



CUSTOMER BENEFITS

- Single Engineering Partner
- Reduced Project Complexity
- Extended Campaign Life
- Lower Maintenance Costs

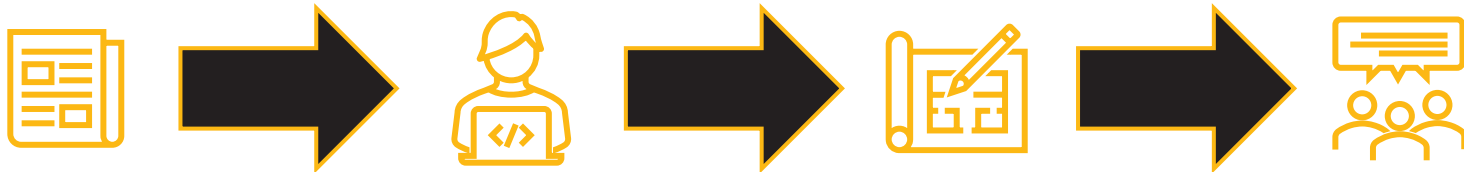
TYPICAL APPLICATIONS

Blast Furnaces	Induction Furnaces
AC/DC Arc Furnaces	Roasters & Kilns
Submerged Arc Furnaces	Converters & Ladles
Ferroalloy Furnaces	Non-Ferrous Smelters

ENGINEERING & REFRACTORY DESIGN

Integrated Engineering from analysis to design to review

INPUT	ENGINEERING	DESIGN	REVIEW
• Receiving all the needed information. • Check the design factors • Client brief	• Material quality • Layer thickness • Thermal/Expansions calculations • Hot face • Dimensions of Bricks	• GA, detailed and sectional drawings • BOM + Qualities • Installation price • Commissioning	• Internal • External • Go back to previous stages if needed. • Get the design approved.



MATERIAL DEVELOPMENT & INNOVATION

Engineering Advanced Refractory Materials for Maximum Performance



CUSTOMER-SPECIFIC FORMULATIONS

Our team of experts can formulate materials based on your current refractory problems



PERFORMANCE ANALYSIS

Advanced monitoring and analysis of your refractories to provide solutions



CONTINUOUS R&D

Refraline leads the market in material innovation, from advanced tap-hole clays, wear compounds and other castable



MATERIAL TESTING

Materials are tested in our own laboratory as part of the development process, and controlled field trials are conducted



PRECAST DESIGN & MANUFACTURE

Refractory Precast Shapes for Easy Installation



CUSTOM-DESIGNED SHAPES

Designed precast shapes to suit the client's needs



CONTROLLED CURING

All cast shapes are cured under controlled conditions, monitored and recorded for QA purposes



DIMENSIONAL ACCURACY

All precast shapes undergo quality control inspections to ensure dimensional accuracy



SPECIALISED MATERIALS

Precast shapes can be manufactured using specialised and unique mortars and castable



REFRACTORY ANCHOR MANUFACTURING

Precision-Engineered Anchors for Reliable Refractory Performance



CUSTOM ANCHOR DESIGN

Anchors can be designed in a wide variety of shapes



PRECISION MANUFACTURING

Anchors are bent using the latest CNC technology



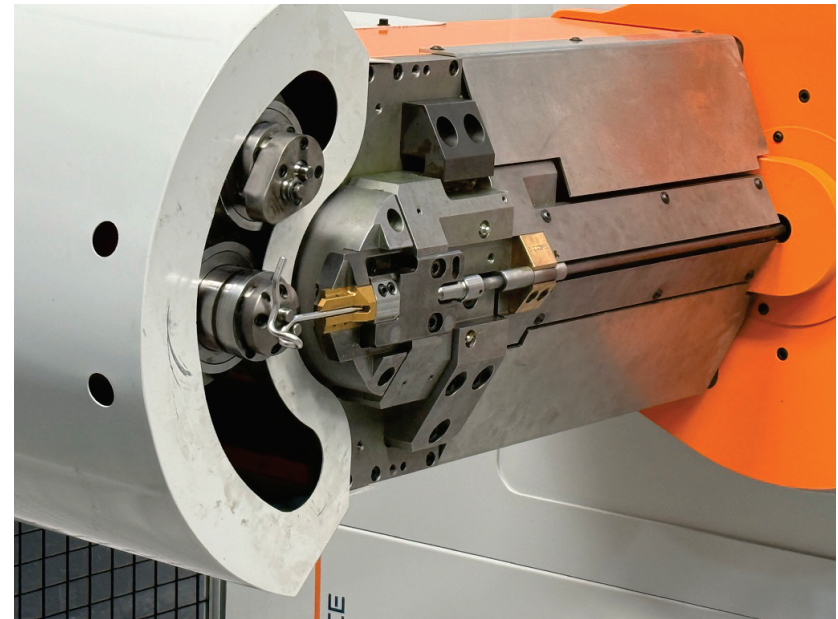
STAINLESS STEEL GRADES

Various grades of stainless steel are available, including specialised steels



MECHANICAL INTEGRITY

All manufactured anchors undergo strict quality control processes, from material testing to dimensional inspection



CASTABLE MANUFACTURING

Advanced Monolithic Refractory Solutions Engineered for Performance



CASTABLE



GUNNING MATERIALS



MORTARS



RAMMING MIXES



INSULATING PRODUCTS



SPECIALITY PRODUCTS



INSTALLATION & SHUTDOWN SERVICES

Safe. Efficient. Reliable. Executed by Experienced Specialists.



DEMOLITION



FURNACE RELINES



REFRACTORY INSTALLATION



HOT REPAIRS



COMMISSIONING



MAINTENANCE



EMERGENCY REPAIRS

ASSET LIFECYCLE & SERVICE CONTRACTS

Long-Term Engineering Partnerships That Maximise Plant Performance

SERVICES MODEL



RESIDENT SITE TEAMS



FULL-LINE SUPPLY



REFRACTORY EQUIPMENT
MANAGEMENT



PREVENTATIVE
MAINTENANCE



EMERGENCY RESPONSE



SHUTDOWN PLANNING



LAGGING & CLADDING SOLUTIONS

Complete Thermal Insulation Systems Engineered for Performance and Energy Efficiency

SERVICES



PIPEWORK INSULATION



REMOVABLE BLANKETS



STORAGE TANKS



BOILERS



PROCESS VESSELS



OVENS & PANELS



OTHER PRODUCTS

Contact Our Material Trading Department for Other Refractory Products



KILN FURNITURE



INDUCTION FURNACE
LININGS



INSULATING FIRE
BRICK



CERAMIC FIBRE
PRODUCTS



CALCIUM SILICATE
BOARD



REFRACTORY
BRICKS



STAINLESS STEEL
FIBRES



HOT FACE
INSULATION



MICROPOROUS
INSULATION

CORROSION ENGINEERING



Protecting Critical Assets in the Most Demanding Industrial Environments

SOLUTIONS



ACID-RESISTANT BRICK LINING



CORROSION-RESISTANT LININGS



MAINTENANCE & REPAIRS



EPOXY FLOORING SYSTEMS



TILE LININGS



CORROSION ENGINEERING



Protecting Critical Assets in the Most Demanding Industrial Environments

APPLICATIONS



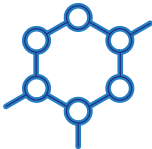
SULPHURIC ACID TOWERS



AUTOCLAVES



REACTORS



CHEMICAL PROCESS
VESSELS



CONTAINMENT AREAS

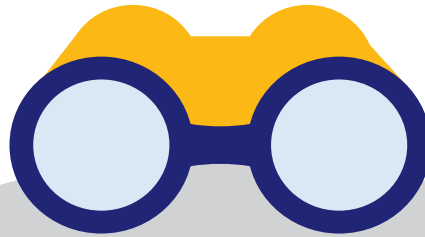




Projects – DCE



VISION | MISSION | VALUES



VISION

We envision ourselves to be
the preferred supplier of
refractory & corrosion
engineered solutions through
a customer –focused
approach

MISSION

To offer innovative solutions
in the development,
manufacture, supply &
installation of refractory &
corrosion materials &
services by challenging
current industry practices &
technologies

VALUES

Teamwork
Customer Commitment
Care & Well-being
Personal Accountability
Agility
Innovation



COMPANIES IN THE GROUP



REFRALINE

Refractory & Corrosion



REFRALINE
Natal

Refractory & Corrosion



REFRALINE
Northern KZN

Refractory & Corrosion

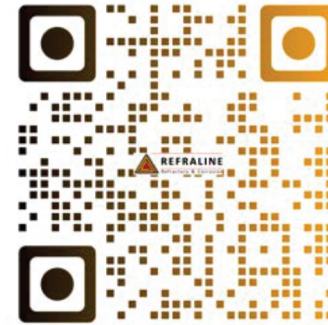


RefNtombi

Refractory & Corrosion



**CORROSION
ENGINEERING**



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& Contact Details

