



# **REHEAT** **INDUSTRY**

Refractory Concept Solutions

# CALDERYS PERFORMANCE YOU CAN TRUST

- For all industries with extreme temperatures and working conditions, Caldersys is there for you. Combining a global network with local expertise, we offer customised solutions wherever you are: from monolithic refractory to bricks and precast shapes to a full range of engineering and installation services.

## KEY POINTS

Over 100 years of refractory experience

Over 2 300 employees across 33 countries

19 plants in 16 countries totaling 600 000 tons capacity

Annual revenue of over € 500 million

1 Global Technology Centre and 15 Customisation Labs

150 major projects implemented every year

Wholly-owned subsidiary of Imerys Group





# ***REHEAT INDUSTRY***

## *THE CALDERYS SERVICE OFFERING:*

- Product selection
- Engineering
- Project Management

Find Out More

- Installation
- Maintenance
- Safety

# OUR VALUE TO THE REHEAT INDUSTRY

- ✔ **CALDERYS** is a trusted supplier to **Reheat Furnace** manufacturers and operators all over the world, with references from the top global OEMs in the heat treatment field.
- ✔ **CALDERYS** will ensure that you benefit from refractory solutions that are:
  - ✔ **Adapted to key Reheat technologies** such as Walking Hearth, Walking Beam and Pusher furnaces – any type of treatment furnaces using temperatures up to 1500°C
  - ✔ **Customised for local needs** through regional product ranges, refined through project experience around the globe in Europe, India, Asia and the US
  - ✔ **More energy-efficient** as we work with our clients to find the best product selection to offer high lining lifetime along with strong insulating properties
  - ✔ **Optimised to save you from downtime**, maximising your production through various quick drying refractory options and reliable refractory solutions
  - ✔ **Service-oriented through Reheat project experience**: Going beyond quality products for maintenance & turnkey projects from our teams along with installation partners globally

## Project References



Calderys is a reliable choice for all your refractory needs. Ask us about our project references around the world for key Reheat Furnace technologies, including:

- ✔ Walking Hearth Furnace
- ✔ Walking Beam Furnace
- ✔ Pusher Furnace
- ✔ Rotary Furnace
- ✔ Roller Furnace
- ✔ Soaking Pit Furnace
- ✔ Annealing Furnace
- ✔ Bogie Furnace

# OUR SERVICES

## Product Selection

By carefully examining your equipment and processes, we will offer you a complete refractory solution from monolithic refractory, to insulating castables, to ceramic anchors or to custom precast shapes, and many more.



## Engineering

Calderys engineers focus on your specific processes to propose a technical solution in order to achieve energy saving for highest thermal efficiency, lesser downtime to increase your productivity, and increased performance of your furnace.



## Project Management

Whether you are building a completely new furnace or performing important maintenance work, Calderys has experience and skills to manage your full refractory project end-to-end.







## Installation

To ensure optimal performance for your refractory, Calderys provides full installation services through our certified installation teams around the world (Calderys & partners), including safety officers and supervisors.



## Maintenance

So that our customers can focus on their core processes, Calderys offers regular and predictive refractory maintenance as well as rapid round-the-clock response to emergencies.



## Safety

Because safety is our priority, to ensure safe execution, supply, and installation, Calderys can provide you with all required documents and personal safety equipment to execute a project in the safest possible way.

# REFRACTORY SOLUTIONS

Calderys has a **complete range of refractory products** for all Reheat Furnace types:

- Traditional plastic option: world-renowned CALDE® and ACCCAST PLAST product lines such as our famous SUPERAL range which is available in ramming, gunning and casting versions for roof, walls, burners, etc. Our high-performing gunning version takes half the time as ramming
- Our wide range of monolithic: from the conventional, to low/ultra low cement, sol-gel, and QD™ patented no cement castable
- Insulating castables range to replace fibres for more safety for your teams: Extra-light (XL), Light-weight (LW), Medium-weight (MW) options available
- Trading items such as bricks, fibres (among others) are possible depending on customer needs

## Ceramic & Metallic Anchors

Industry standard offerings for Reheat Furnaces, with Calderys expertise to ensure the recommended anchors give you the best performance.

## Skids & Posts

Tried and tested systems used around the world for decades – particularly in Walking Beam and Pusher furnaces – Calderys offerings can be precast or cast in-situ.



# REFRACTORY SOLUTIONS

## Precast Shapes

At Calderys, we are proud of our expertise in offering prefabricated shapes. We take our high-performing monolithic refractories and, following strictly the requirements of your equipment and processes, cast for you at our or your facilities in prefabricated pieces the **exact refractory shapes you need**.

Many precast options are available for roof, side burners, burner blocks, and roller blocks:



- ▶ Latest technology: Prefab burner blocks (low NOx, regenerative burners, all OEM types)
- ▶ Diamond roof popular option for heat efficiency
- ▶ Prefab blocks for pusher furnace floor
- ▶ Electrofused blocks option for pusher furnaces – perfect for severe conditions with double the lifetime of other precast options







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