

SALES NEWS
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Pyrorotor® continues its triumph in South Korea

KHD was able to secure yet another purchase order for its Pyrorotor® combustion reactor in South Korea. The Halla Cement Group awarded a supply and engineering contract to Humboldt Wedag GmbH for the modernization of kiln line 2 at Okke plant.

Pyroprocessing

Upgrade



Halla Cement keeps coming back to the Pyrorotor®

This project marks the second Pyrorotor® installation at Halla's Okke plant - the modernization of production line 3 at Okke plant is ongoing, erection and commissioning is scheduled for the first quarter of 2023 - and the ninth overall in South Korea. KHD will modernize production line 2 with a new Pyroclon® R calciner and a 4.2 m x 15 m Pyrorotor® combustion reactor.

The entire scope of the modernization project consists of the following equipment:

- Pyroclon® R calciner with a Pyrotop® mixing chamber
- 4.2 m x 15 m Pyrorotor® combustion reactor
- Pyrobox® coal firing system for process start-up and operation balancing
- Replacement of stage 5 cyclones with new high-efficiency cyclones
- New kiln inlet chamber with orifice

Pyrorotor®, the best available technology for low-quality alternative fuels that require almost no pre-processing, convinced Halla Cement Group to be the right product for their demands for the second time. Aside from the high thermal substitution rate of more than 85%, the modernization with KHD's equipment also allows the reduction of NO_x emissions so that Okke plant can meet the local emission limits.



The installation of the new Pyroclon® R calciner and the high-efficiency cyclones in the lowest preheater stages will also yield an additional efficiency increase due to an overall pressure drop reduction in the entire preheater. Erection and commissioning of the modernized production line are scheduled for the first quarter of 2024.

The ninth Pyrrotor® project in Korea further exemplifies the standing of KHD as market driver for highly reliable and future-proof pyroprocessing solutions. This project is a result of close cooperation between the process, planning and service departments of Humboldt Wedag GmbH.

KEY BENEFITS

- Lower fuel costs by reducing primary fuels to a minimum
- Thermal substitution rate above 85% in the calciner
- Limited NO_x emissions thanks to staged combustion
- Unmatched fuel flexibility

LOCATION



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ABOUT KHD

For over 160 years, we have been a global authority in the cement manufacturing process. KHD innovations have shaped the modern cement plant, and we continue in that tradition today.

Our equipment and solutions help tackle the most pressing challenges: raising productivity, increasing efficiency, lowering production costs, and improving environmental performance.

From our roots in the heart of the German Rhineland, we have expanded around the world. We still develop, design and supply all core components for cement production in-house, and often rely on our own workshop. We work with proven industry partners to offer a complete suite of cement plant equipment and solutions. Our network of regional entities allows us to best serve and service every major cement market, and meet their individual requirements.

This time-tested blend of unparalleled cement industry experience, highest-quality equipment and engineering standards, and reliable industry partnerships ensures we are the expert partner when it comes to optimizing any cement plant operation – whether a new greenfield build or upgrade to an existing process lines.