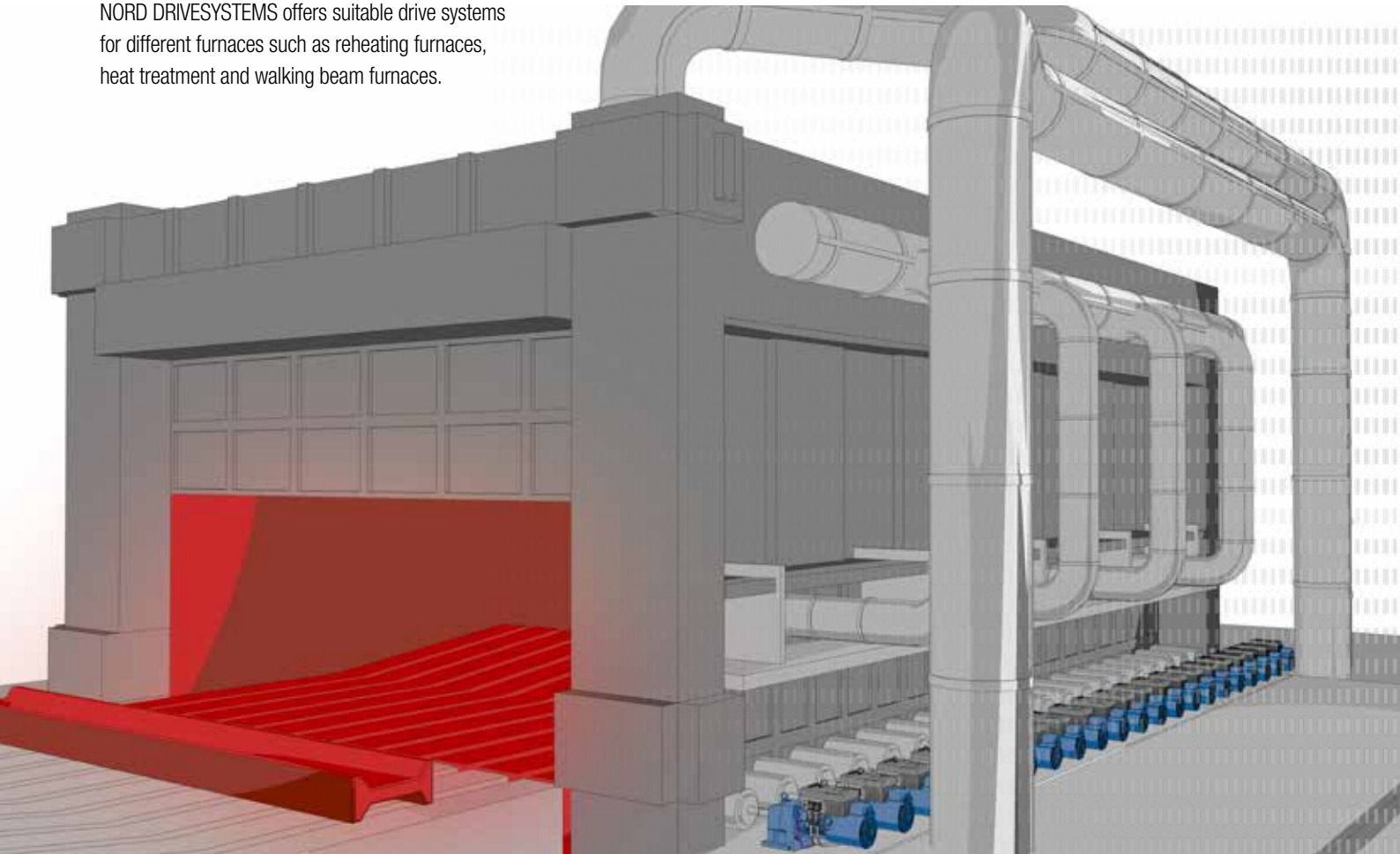


# Drive solutions for furnace applications

NORD DRIVESYSTEMS offers suitable drive systems for different furnaces such as reheating furnaces, heat treatment and walking beam furnaces.



## Plug-and-Work

Mechatronic drive units for furnace applications guarantee perfect synchronicity.

## Furnaces for material conditioning

Continuous heat treatment furnaces generate extreme temperatures in a succession of heating zones to soften or harden metals passing through them. This process serves to achieve high-quality end products. The necessary speeds for moving materials along vary by alloy.

## VFD drives for reliable conveying

Excellent results can only be accomplished if the furnace rollers reliably move in unison even under these extreme ambient conditions.

NORD VFD drives equipped with local controllers ensure all furnace rollers operate in perfect synchronicity. Delivering highly accurate performance, the rollers are driven by individual NORD systems, each controlled by a closely integrated frequency inverter.

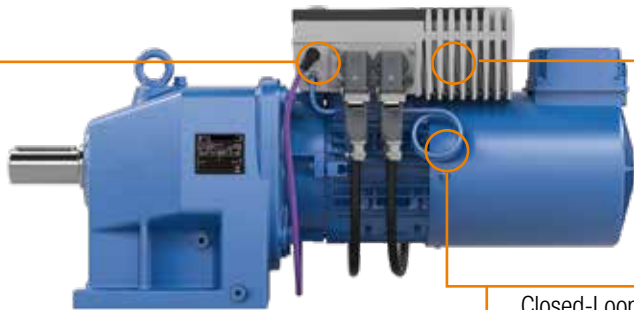
# Drive solutions for furnace applications

NORD DRIVESYSTEMS provides highly durable solutions designed to withstand severe electrical and mechanical stress. Users can rely on uncompromised performance even in extremely demanding applications.

Integrated bus system  
plug connectors



Modular system to satisfy  
individual requirements



Closed-Loop  
operation

In this decentralized drive setup, signal interference is not an issue and long distances with screened cables are not required. The drives have safety functions on board and ensure direct communication between encoder and inverter (Closed-loop operation). Additionally plug-and-work power and bus system connectors greatly simplify installation and maintenance. This saves time and expenses.



[www.nord.com](http://www.nord.com)



[metals.nord.com](http://metals.nord.com)



[www.sk200e.de](http://www.sk200e.de)

## Key features

- ▶ SK 200E series VFDs
- ▶ Inverters for local drive control
- ▶ Mounting on wall or directly on motor
- ▶ Enclosure up to IP66
- ▶ Up to 50° C ambient temperature
- ▶ Communication via several bus systems e.g. PROFIBUS, Ethernet available
- ▶ Direct communication between encoder and inverter (Closed-loop operation)
- ▶ Safety stop function on board
- ▶ Integrated brake resistor
- ▶ Incremental and absolute encoder system available
- ▶ Parameter settings to suit customer software
- ▶ Temperature monitoring e.g. TF, KTY possible
- ▶ PLC programming possible
- ▶ Forced ventilation

## Advantages of decentral drive control

- ▶ Each motor/roller controlled by VFD in closed-loop operation, ensuring precisely synchronised and simultaneous operation
- ▶ EMC/signal interference all but irrelevant
- ▶ Pluggable connection technology
- ▶ Modular design provides maximum flexibility to implement customer requirements
- ▶ Cost-efficient commissioning and operation
- ▶ Easy installation and maintenance
- ▶ System plugs for quick exchange of components
- ▶ Excellent energy efficiency

## NORD DRIVESYSTEMS Group

- ▶ Family business from Bargteheide near Hamburg with more than 4,100 employees
- ▶ Drive solutions for more than 100 branches of industry
- ▶ 7 production locations worldwide
- ▶ Present in 98 countries on 5 continents
- ▶ More information: [www.nord.com](http://www.nord.com)

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