

Beck u. Kaltheuner Feuerfeste Erzeugnisse GmbH & CO. KG

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FURNACE- & PLANT ENGINEERING.

MADE IN PLETTENBERG



TODAY AND IN FUTURE. TOGETHER. TECHNOLOGY.

... Progress made in Plettenberg.







// TECHNOLOGY

FURNACE- & PLANT ENGINEERING.

Complete solutions and supplies for all types of industry furnaces.

- Qualified partner for lining of new furnaces and repairs
- Full-Service from one-hand: engineering, installation and supervision on-site
- Project documentation, in order to guarantee consequent development of plant
- The supply program contains roof systems, curve blocks, sandwich blocks, lintel and diaphragm blocks, hearth blocks, burner blocks and many more...





ROOF CURVES.

Prefabricated roof curves

Often used in rolling furnaces for separating the burner zone from the rest are battle lintels running across the furnace. The repairs are complicated and take a lot of time.

Separation curves made of individual prefabricated pieces allow an extremely short installation time of only 1-2 days for a complete curve.

- controlled production process
- steel frame and anchors are pre-assembled at our works
- short installation time, no shuttering necessary
- screw mounting allows exact adjustment of block
- minimum heating-up time = fast operational readiness after installation

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ROOF BLOCK SYSTEM.

Roof block system

- immediate installation after arrival possible, as already pre-assembled at our works, incl. insulation blocks and ceramic anchor bricks
- before delivery blocks are completely dried and burned
- guaranteed high life time
- due to production process rammed blocks allow higher elasticity
- coordinated anchor system allows construction variety and exact adjustment

Reduction of failing times

- high operation security, long life time
- fast heating-up time after shut down
- easy repair of small damages

Saving of energy

- low heat loss
- low surface temperature
- low blow out losses

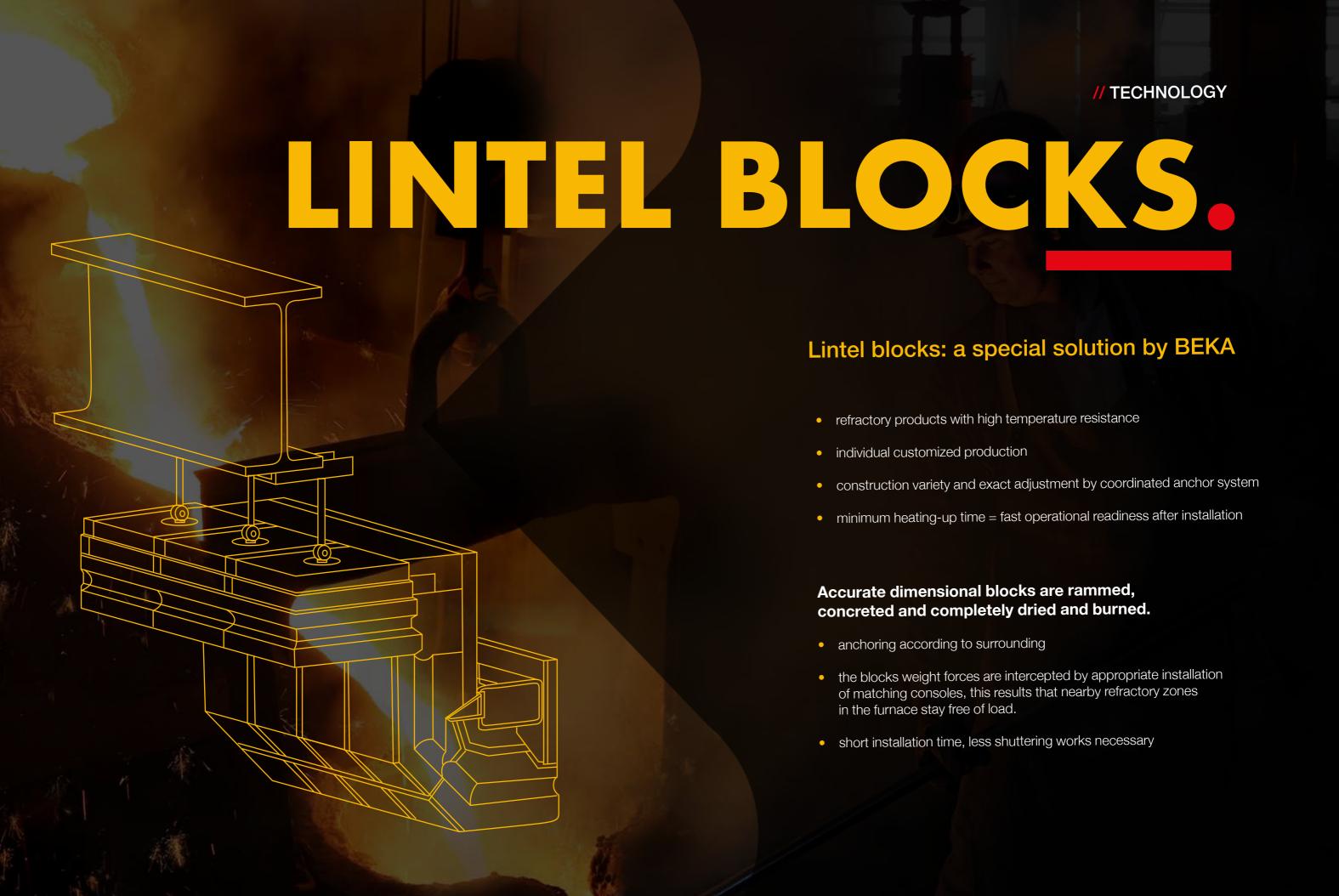


Install quality

- by quality securement
- controlled block-production at our works

Easy installation

- not qualified personal necessary
- no complicated shuttering necessary
- short heating-up time



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BLOCK WALLS

Block walls: a special solution by BEKA for all wall linings

- construction of individual wall blocks according to the furnace geometry and with a slot-spring connection
- anchoring is executed by support of a ceramic and metallic fixing element onto the existing steel construction
- supply of the elements after these have been completely dried and burned
- installation of the wall blocks is done without shuttering
- short installation time
- short heating-up time = fast operational readiness after installation





BURNER- & NOZZLE BLOCKS.

- are rammed or concreted according to details from the customer or burner producer
- production can be done single or multiple, complicated geometry is no knock-out factor
- the patented BEKA anchoring system can be useful for fixing on any other steel construction
- suitable versions for each roof- and wall system
- products can be delivered totally dried and burned
- on request, it is possible to install a special sealing system next to the refractory material
- hort heating-up times = fast operational readiness



BLAST FURNACE

The blast furnace route, so called integrated route, is still the most significant method in order to produce raw iron.



CEMENT

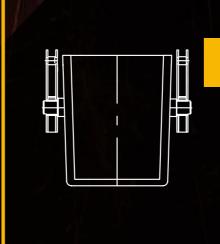
The product portfolio of Beck u. Kaltheuner includes high-alumina monolithic products with special properties, specially designed and developed for the use in cement works.



COKE OVENS

We have many years of experience in the delivery range of door plug systems with anchor bolts anchorage for coke oven doors.

TECHNO-LOGIES.



STEEL PLANTS

Accurate dimensions and all in one-hand service solutions, is our reaction to the worldwide increasing demands for refractory masses and monolithic prefabricated blocks.



ALUMINUM

Our service includes the maintenance as well as the repair of firm plants and can be executed while the system is running or switched off position.