



KILN FURNITURE AND
TUNNEL KILN CARS FOR
CERAMIC INDUSTRY



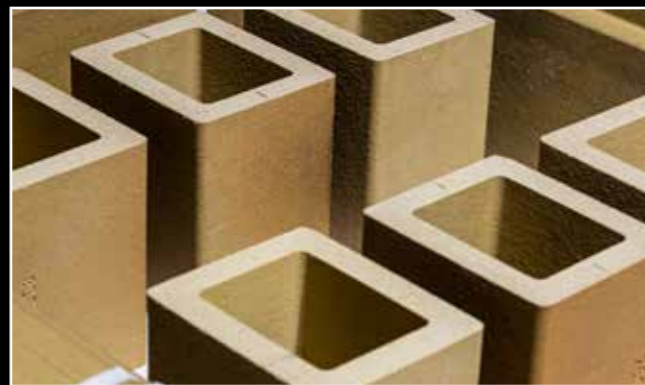
KILN FURNITURE AND TUNNEL KILN CARS

Top performance, efficiency, durability, resilience, service life. These are the goals that Steuler's engineering and planning experts set themselves when developing our solutions – which are then tailored to the customer's requirements through the choice of materials. Our focus is on the continuous improvement and efficiency of our customers' manufacturing processes.

Constantly rising energy costs and frequently changing product ranges demand flexible and versatile systems. Steuler's refractory concepts and the associated kiln furniture are specifically designed for applications in the ceramic industry and often make the key difference to the quality of the end product. Steuler tunnel kiln cars and kiln furniture are designed to be as lightweight as possible while maintaining structural stability and safety, thus ensuring durability and a long service life.



STEULER TUNNEL KILN CARS



Tunnel kiln cars are the most heavily stressed pieces of equipment used in tunnel kilns. Rapid cyclical heating and cooling, the physical loads involved during loading and unloading as well as the cleaning process all result in stresses within the car system that have to be sustainably and reliably managed over their long service lives.

Steuler tunnel kiln cars offer key benefits:

- **Lightweight but stable construction with low inherent weight**
- **Extruded border bricks and deck tiles provide a lower heat transfer thus reducing energy consumption**
- **Combinations of pressed and extruded materials (dry-pressed perforated slabs and cover plates, trays, supports), in combination with cordierite-containing materials feature excellent thermal shock properties thus maximising the service life of the car system**
- **Andalusite- and bauxite-containing materials allow for high operating temperatures of > 1,400°C**

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Our customers benefit from our decades of experience and the constant advancements made by our Development and Engineering Departments. The service life of the kiln furniture is increased and consequently the operating costs are reduced. Kiln furniture by Steuler is customer-friendly and offers a diverse range of applications with outstanding reliability. Steuler considers the interaction of thermal, mechanical and geometrical requirements to integrate them into a beneficial, high-quality system.

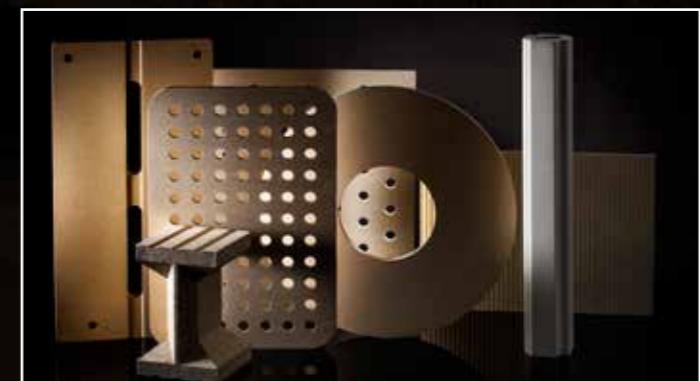
Steuler kiln furniture is precision-manufactured using the dry-press or extrusion method depending on application. This results in tight dimensional tolerances of the workpieces and minimises the amount of post-processing required, a big advantage when it comes to automating production lines. The raw materials we use, in particular cordierite, andalusite and bauxite, are characterised by excellent thermal shock resistance – a key requirement for rapid kiln cycles.



Burner pipes for tunnel kilns



Border blocks for tunnel kiln cars



Kiln furniture for side-fired kilns – supports, hollow supports, trays, perforated slabs and deck tiles

STEULER

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