

## KIDS<sup>4.0</sup> - fixed inlet in motion

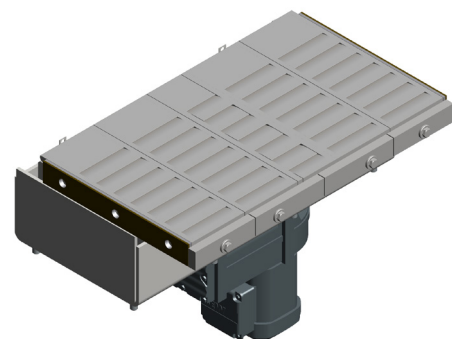
Undisturbed operation is key for a modern and efficient cement plant. However, challenges in the clinker production process arise daily. The increasing use of alternative fuels, inhomogeneous raw materials and particular operating conditions influence clinker chemistry and provide a tough environment in the kiln and in the clinker cooler including buildups and uneven distribution. KIDS<sup>4.0</sup> comprises important features to cope with varying clinker types ranging from agglomerations to fine clinker.

- + Hybrid aeration
- + Dynamic Transport Segments
- + Variable slope
- + Based on proven concept

### IKN technology in brief

Partially movable segments in the KIDS<sup>4.0</sup> surface mobilize static and immobile material onto the movable grate. Operator activation of individual segments dislodges snowman formations effectively at an early stage. The remaining material agglomerations are torn away together with the rest of the clinker bed and moved by the movable grate to the cooler discharge. KIDS<sup>4.0</sup> further expands on the notion of a conditioned clinker bed without mixing for a maximum degree of heat exchange.

KIDS<sup>4.0</sup> can be retrofitted into existing coolers or included as an option for new Pendulum Coolers®.



Movable segment

