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New KRONE Cool Liner

With the new generation of Cool Liner, KRONE Trailer presents a consistently refined version of its proven refrigerated semi-trailer. The focus is on detailed design optimisations in the insulated structure, further increased structural stability and improvements in tightness, durability and economy – while maintaining the same high level of flexibility in temperature-controlled transport.

The new generation builds on the established Cool Liner concept, which already stands for efficient and versatile refrigerated logistics solutions – including fully electric refrigeration concepts, multi-temperature equipment and intelligent telematics solutions. The aim of the current further development was to enhance the substance of the vehicle in key areas and to further optimise life cycle costs.

‘With the new Cool Liner generation, we deliberately did not aim for a revolution, but rather further developed the design details where they make the biggest difference in everyday use,’ explains Frank Nordhoff, Cool Liner product expert at KRONE. "Our aim was to further increase stability, robustness and value retention, while at the same time optimising cost-effectiveness over the entire life cycle. The result is a vehicle that is even more reliable in the tough everyday world of refrigerated transport."

Insulated body with optimised structure

The side walls and roof continue to be manufactured as large panels using an open foaming process. The homogeneous foam structure ensures an optimum K value and thus stable temperature control over the entire service life. The inner deck layer of the side wall has been redesigned at the transition to the roof and in the highly stressed area at the floor interface. This increases structural stability, especially during intensive loading and unloading.

The base skirting has also been redesigned. An optimised cross-section increases resistance to mechanical impact from industrial trucks and at the same time improves the seal against moisture. Adapted edging profiles on the outside support an optimised bonding process and contribute to a

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further increase in overall stability.

Rear frame structurally reinforced

In the rear area, detailed, locally reinforced sections and reinforced door hinge blocks significantly reduce stress peaks, especially in the sensitive corner areas. New plastic inserts improve insulation and sealing and also support the rear frame floor profile during high-frequency forklift traffic.

A new design in the lower corner area of the rear frame enables permanent sealing to the side wall. At the same time, the sealing joint in the wet area of the floor has been eliminated by design. The result is increased long-term tightness and a noticeable contribution to value retention.

New floor design

The floor continues to be manufactured as a large panel using an injection moulding process and offers maximum load-bearing capacity thanks to its homogeneous foam structure. A revised cross-member design reduces stress and ensures optimised foam distribution throughout the entire floor structure. The shear stress-optimised sandwich design further increases structural performance.

In addition to a completely revised KingPin module, a reinforced floor design is available as an option at the front for increased requirements. For intermodal applications, a RoRo module is available that significantly increases strength in the ferry block position. Newly designed floor edge strips with high structural density minimise the risk of moisture absorption and ensure long-term durability. A newly designed cable duct and sealing concept in the neck area also enables the safe integration of optional cable packages.

Extensive testing ensures design revisions

In addition to extensive analytical support, the design revisions were validated by numerous tests at KRONE's own test centre in Lingen, where the detailed optimised radiator had to prove its resilience in demanding test programmes over a period of several months.

For the first time, the entire vehicle was validated on specially designed test benches against a wide range of requirement profiles for highly developed truck test tracks and against evaluation vehicles.

Robust Krone Cool Liner with new details

The result is a refrigerated semi-trailer that consistently builds on its proven strengths in insulation performance, stability and versatility and has been further optimised in key technical details: for maximum efficiency in national and international refrigerated transport.

If you have any questions, please do not hesitate to contact me.:
SIMON RICHENHAGEN
Phone +49 5951 209-8216 · E-mail: simon.richenhagen@krone.de

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