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KRONE eMEGA LINER: CURTAINSIDER WITH ELECTRIC TRACTOR UNIT ASSISTANCE

Curtainsider with electric tractor unit assistance

At the IAA Transportation 2022 in Hanover, Krone is exhibiting three flatbed semitrailers: the eMega Liner, which uses battery electric power to assist the tractor in its drive, the Profi Liner, which demonstrates the versatility of Krone's Multi Safe load securing system, and the Profi Liner Comfort, which makes the driver's job much easier with its ergonomic features.

Krone eMega Liner: an innovative drive in the trailer

In line with the "Mission beyond zero" slogan, the innovative eMega Liner above all represents the two megatrends – of sustainability and electrification. As part of a collaboration with a start-up called Trailer Dynamics, Krone has developed electrified trailers that can reduce the diesel consumption and CO₂ emissions of an semitrailer by 20 to 40 percent. A powerful e-axle is at the heart of the innovative technology, which supports the drive of the semitrailer tractor and also recovers braking energy through recuperation. The battery energy carried in the eTrailer is also enough to cover long routes of more than 500 km.

The intelligent control software is yet another highlight. It works to use and distribute the battery-sourced electrical energy optimally, over the entire route to be driven. The functionally reliable real-time control of the system is independent of the tractor. Essentially, the semitrailer system is transformed into an electric plug-in hybrid, by intelligently combining an eTrailer and a diesel HGV.

Michael W. Nimtsch, Co-Founder and Managing Director of Trailer Dynamics, says: "Thanks to the eTrailer technology, we are able to significantly reduce the diesel consumption and CO₂ emissions of a semitrailer and thereby make a significant contribution to the decarbonisation of heavy goods transport. The eTrailer can be combined with any semitrailer tractor, regardless of the manufacturer.

This means we can now introduce low-emission green logistics to the approximately 2.5 million diesel semitrailers in the European fleet. In addition, the energy carried in the eTrailer increases the range of BEV semitrailer tractors, enabling fully electrified heavy goods transport over long distances of up to 1000 km.”

The Profi Liner and “all in Krone”

Visitors to the fair can experience just how versatile the Profi Liner is as well as the “all in Krone” principle, on a specially equipped Profi Liner. One highlight is the new stacker support system, which is modular, galvanised and bolted. The system is designed to be modular so that all standard truck-mounted forklifts can be used (weighing up to 2.7 t from various manufacturers). To match this, Krone has developed a new modular counterweight system, which takes up to three separate loads of 550 kg on the front wall.

The versatility of the Krone Multi Safe load securing system can also be experienced first hand. Based on the patented Multi Lock external frame with around 130 lashing holes on each side of the vehicle, the robust Multi Lock loading beam, which offers 22 lashing holes, can be locked transversely to the direction of travel, providing more than 3,000 lashing options. Other examples to be displayed on the Profi Liner are the Multi Strap sliding tension strap system and the Multi Lash extension module, which allows the universal use of all hook shapes on lashing belts. Other variants are the welded or bolted pallet stop, plug-in posts and a variety of different stowage devices.

The Profi Liner is also fitted with the load securing Safe Curtain. It features high-strength spring steel strips in the vertical PVC tunnel pockets integrated into the side curtains. In the event of dimensionally stable loads, this means that no plug-in laths are required for all standard load securing certificates, such as CodeXL or Daimler. This means there is no loss of laths, no risk of injury and significantly less handling effort when opening and closing the vehicle. In addition, the different types of tarpaulin tensioners – latch-type tension lock, anti-tilt tension lock, knee lever tensioner – can be seen on the Profi Liner.

The exhibit is set up according to the “Krone all in” principle: from the Krone sliding roof and Krone axle right through to Krone telematics and the Krone Smart Tyre Pressure Monitoring System (TPMS). In addition, the new Krone full-LED lamps will be presented. Krone will install these as standard in the future.

Profi Liner Comfort: making things easy for the driver

The Profi Liner Comfort is a modular vehicle, with a quick-release curtain that can be opened in just 30 seconds, via micro-rungs in the sliding rails. The curtain can be operated with a tension lever on the front for opening and closing. It is tensioned as usual via a tension ratchet located on the side of the rear. In between, the curtain runs on two rail systems on the roof and on the outer frame. The Profi Liner Comfort meets the requirements of Daimler’s load securing directive 9.5 and is certified according to EN 12642 Code XL, as well as for transporting beverages. The lifting roof can be raised by 500 mm. Operation occurs centrally via a hydro-pneumatic pump, and you can choose the desired side.

The Comfort Liner has a chassis with an 82 mm neck and is designed in such a way that it can be supplied with the basic chassis with both 19.5 inch Mega tyres and corresponding Mega axles or, for greater coupling heights, with Profi Liner tyres and 22.5 inch axles.

Visit us at the Krone trade fair stand!

IAA Transportation 2022 | 20/09/22 – 25/09/22 |

Hanover Fair | Hall 27 | Stand C40 | outdoor area N41, Q41, P43



If you have any questions, please do not hesitate to contact me.:

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