

The New Drilling Rig LB 45: Increased Performance and Higher Flexibility

- Available immediately worldwide
- Improved performance data
- Ground Pressure Visualization, Kelly Visualization, and Drilling Assistant assistance systems available
- New cabin design

Las Vegas (USA), 10 March 2020 - a higher torque, a wider range of applications and useful assistance systems for improved operator comfort and increased safety in one elegant design: Liebherr presents the LB 45, successor to the proven drilling rig LB 36.

The name of the brand new LB 45 derives from the torque of 331,903 lbf-ft (450 kNm). That is an increase of approximately 10% in comparison to the already high performance of the LB 36. Both the counterweight and the leader are modularly constructed. This enables quick and easy assembly and flexible application.

The leader top is designed for different drilling axes and is suitable for all applications. Through the enhancement of the drilling axes by 19.7 inch (500 mm), the LB 45 can be applied for drilling diameters up to a maximum of 10.9 ft (3.3 m). At the same time, the maximum drilling depth for Kelly drilling with 5-fold Kelly bar has been increased to 328 ft (100 m) and so significantly improved. The strong winches with a maximum pull force of 92,594 lbs (42 t) enable highest performance even under the most difficult conditions. Furthermore, the noise emission is considerably reduced thanks to their elastic mounting.

Features for Increased Safety and Easier Operation

The ground load-bearing capacity and the monitoring of the ground pressure are decisive for the safe operation of a construction machine. The Ground Pressure Visualization of the LB 45 calculates the current ground pressure of the machine in real time and compares it with the specified safety limits of the relevant jobsite. The ground

pressure is displayed in the operator's cab and the operator is consistently aware of whether the machine is situated in, or is approaching, a critical area. Dangerous work maneuvers can so be avoided.

Locking of the Kelly bar's telescopic sections is made significantly easier due to the Kelly Visualization system in the LB 45. Thanks to the real time display of the Kelly locking recesses of the Kelly bar on the cabin monitor, the operator is constantly informed of the actual distance to the next locking recess. Color indications inform when the bar can be locked. Furthermore, false positioning of the Kelly bar during the shake-off process is indicated through a warning signal.

During continuous flight auger drilling, the concreting process is automated thanks to the Drilling Assistant. The remote control simplifies the loading process for transportation as well as the assembly of the machine. All assistance systems contribute to time savings, higher availability of the machine and a significant increase in safety during operation.

Comfort in an Elegant Design: the New Operator's Cab

The machine is equipped with a new cabin concept, which gives the LB 45 an elegant appearance and, above all, focuses on increased operator comfort. This is achieved through a modern air conditioning system with improved airflow, an optimized field of vision and reduced noise protection, as well as an ergonomic orthopaedic operator's seat with integrated heating and cooling. Further features for the operator are an optional cooler for snacks as well as a USB port for charging mobile phones.

Caption

liebherr-lb45-drilling-rig.jpg

Liebherr presents the LB 45, successor to the proven drilling rig LB 36.

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