

Liebherr updates the integrated planning software for smaller crawler cranes

- New Crane Planner 2.0 software enhances accuracy and speed
- New features for easy selection of the ideal crawler crane
- Liebherr Positioning System LIPOS® ensures precise operations

Las Vegas, NV (USA), March 7, 2017 – Liebherr presents its latest planning software, Crane Planner 2.0 for the crawler crane range LR 1100 – LR 1300. This new software ensures accurate lift planning and increases safety for heavy lifts.

Jobsite installations can be very challenging for planners and engineers due to the lack of space, difficult soil conditions or limited crane capacity. In such situations, Crane Planner 2.0 is the ideal tool for selecting the perfect equipment for the particular application. This saves time, money, and it also ensures that safety standards for challenging heavy lifts are taken into account.

Crane Planner 2.0 – Smart Software for Tough Challenges

Crane Planner 2.0 combines highly detailed, interactive 3D models with relevant planning data, based on the machine's load moment limitation (LML). Any change in the crane's geometry instantly triggers a new calculation of the entire situation. The software displays a warning should it recognize potential collisions between the crane, load and the surrounding area, or non-compliance with safety distances. Additionally, typical measurements such as lifting height or radius can be activated and user-specific measurements (in both metric and imperial units) can be defined accordingly.

This application is the ideal tool for all planners and engineers who require accurate 3D models of the utilized crane configuration.

The ability to supply infinite configurations of cranes in a multitude of positions through this new software is unique to Liebherr.

Helpful Features Support Automatic Planning

The “Quick-Config” enables a planner to quickly reconfigure various dimensions of the crane during the planning process (e.g. length of the main boom from 194 ft. to 223 ft.) and have the system recalculate the entire lift.

The Rigging Editor enables the generic definition of lifting accessories. The planner can choose from six different templates and has the possibility to set customer-specific heights, lengths, widths and weights of the lifting devices involved. The set criteria enables the system to calculate the resulting angles and lengths, taking into account the original dimensions for the evaluation of potential collisions.

Any planning data like the load capacity (including individual load charts for all angular adjustments), ground pressure distribution and specific measurements can be exported into a lift plan for each specific work step. Additionally, technical drawings from all angles, including the activated configuration, can be exported into PDF format. Configuration functions, as well as various import and export options are designed for the tasks of the planners and engineers.

A comprehensive search function is ideally suited for sales managers. The new Crane Planner 2.0 is notably faster and considerably more user-friendly than the previous version.

LIPOS: Outstanding Accuracy

Exact positioning and precise execution of drilling processes are crucial for the success of deep foundation machinery. While there are thousands of satellite supported systems in operation, Liebherr’s positioning system LIPOS allows for direct integration of; Differential Global Navigation Satellite Systems (DGNSS), machine control solutions from Trimble or Leica into the process data recording (PDE®), and reporting systems (PDR).

The LIPOS add-on kit includes a fixture for the easy and quick installation of two GNSS antennas, mounted on the pivot point of the leader inclination cylinders. Since the

positioning enables an ideal signal quality and intensity, there is no need to change the machine structure.

DGNSS data is integrated using a software enhancement of the process data recording system (PDE). LiDAT® data transmission enables automated transfer of PDE data via GSM and GPRS to the reporting software PDR for visualization and analysis purposes. Reports generated in the PDR system are used for traceability, documentation and quality assurance of drilling processes. Beyond that, LIPOS is seamlessly integrated into existing Liebherr IT solutions and compatible with a wide range of Liebherr deep foundation machines.

Moving Further Towards an Integrated System Supplier

The new Crane Planner 2.0 and LIPOS, well complement the Liebherr crawler crane portfolio and deep foundation machinery with intelligent software solutions. As a system supplier, Liebherr utilizes crane data to support operators with difficulty choosing the most suitable machine for operations or in determining the accurate position for drilling purposes. The IT tools for simulation purposes, transfer of crane data or the recording and analysis of crane performances, allows Liebherr to set the pace for digital construction sites.

Captions

liebherr-crane-planner-01.png

General view

liebherr-crane-planner-02.png

Cross section technical drawing – surficial display

Further information

<https://www.youtube.com/watch?v=bajUiCocUY>

Animation video LIPOS

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