

Press release

It`s a matter of control: Liebherr 120-tonne mobile crane with new LICCON3 control system

- LTM 1120-4.2: 120-tonner converted to LICCON3
- Liebherr is successively converting existing crane types to the new control system and new design
- New features: TraXon DynamicPerform oil-cooled starting clutch, driver assistance systems and RemoteDrive preparation

Liebherr presents a further crane model with the new LICCON3 control system: The LTM 1120-4.1 becomes the LTM 1120-4.2. The 4-axle 120-tonne crane is also characterised by the new future-oriented crane design. In addition, the LTM 1120-4.2 is equipped with the TraXon DynamicPerform oil-cooled starting clutch and new driver assistance systems for increasing driving safety on the road. Liebherr will be exhibiting the LTM 1120-4.2 at Bauma in Munich.

Ehingen (Donau) (Germany), 20 January 2025 – The family of Liebherr mobile cranes boasting the latest crane design and next-generation LICCON3 control system is growing. Not only will all completely new crane types receive the new control system, but Liebherr will also successively be converting its existing crane types. To signify the changes, the last digit of the type designation is incremented by one: the LTM 1120-4.1 is now the LTM 1120-4.2. The cranes' performance parameters and lifting capacities remain unchanged.

LICCON3 crane control system

With what is now the third generation of the LICCON control system (Liebherr Computed Control), Liebherr is taking proven operating concepts to a new technological level - completely new software and programming language, faster data bus, significantly more memory and higher computing power. The changeover remains child's play for crane operators: the familiar operating concept ensures a high recognition value, so that the switch to the new control system is seamless.

Proven hardware components, such as the mobile operating and display unit BTT, have been adopted. The touchscreen function on the new large display in the superstructure cab means that it is now even easier and more comfortable to control. The way in which the information is shown has also been revised and simplified. In addition, LICCON3 cranes are prepared for telemetry and fleet management as standard. In the future, crane contractors will be able to view and evaluate all the relevant data using the MyLiebherr customer portal.

New driver's cabin and crane cab

As a result of the high synergy effects involved, Liebherr is launching the new driver's cabin at the same time as the LICCON3 control system. The modern design features premium materials and timeless lines as well as delivering a whole host of improvements for the crane driver. These include the new multifunction steering wheel, side roller blind on the driver's door, improved instruments and modules as well as new displays. Additional convenience is offered by options such as a central locking system with remote key and the "Coming and Leaving Home" function.

A completely new, modern automatic heating and air-conditioning system in both the driver's cab and the crane operator's cab ensures a high level of comfort. A sun sensor detects strong sunshine and automatically adjusts the heating settings. The lighting packages for the crane cab, the superstructure, the rear of the vehicle, the front headlights and the telescopic boom as well as the lattice fly jib have been optimised and can be operated with LEDs. The benefits of LED technology include a longer service life and superior lighting performance.

LTM 1120-4.2 – There's nothing more on 4!

In 2020, Liebherr set new standards in the field of all-terrain cranes and launched the LTM 1120-4.1 - a 120-tonne crane that caused a stir with the slogan "There's nothing more on 4!". Its concept: maximum performance on four axles. This made it the most powerful 4-axle all-terrain crane ever built and pushed the boundaries of its class. It pushed forward into performance ranges that were previously reserved for the larger 5-axle cranes and thus completely redefined the possibilities of a compact crane.

As far as boom length is concerned, the LTM 1120-4.2 is even on a par with 200-tonne class cranes: its 66-metre telescopic boom is the longest ever to be installed on a 4-axle mobile crane. The LTM 1120-4.2 delivers outstanding lifting capacity values, particularly with the boom fully raised. Its lifting capacity of 9 tonnes on the 66 metre telescopic boom makes it ideal for erecting tower cranes and radio masts. Lattice extensions enable the 120-tonne crane to achieve hook heights of up to 91 metres and radii of up to 64 metres.

The compact design of a 4-axle crane makes the LTM 1120.4.2 the ideal choice for applications where there is simply no room for larger cranes. Liebherr's VarioBase® and VarioBallast® innovations come into their own on tight construction sites and ensure increased performance, flexibility and safety. With its VarioBallast® system, the crane's ballast radius can be flexibly adjusted between 3.83 and 4.77 metres. Thanks to the standard, mechanically swivelling ballast cylinders, the radius can be easily reduced by 940 mm - ideal for confined spaces. The larger ballast radius, on the other hand, increases performance and often reduces costs, as many operations can be carried out with less counterweight, eliminating the need for additional ballast transport.

Innovations for higher customer benefit

In addition to the new crane control and the new design, the LTM 1120-4.2 also has other technical features that increase efficiency, comfort and safety. The innovative DynamicPerform clutch module provides almost wear-free starting and manoeuvring for the modular ZF TraXon gearbox without

overheating, because it transmits the engine output via an oil-cooled multi-disc package. New assistance systems, such as Blind Spot Information System and Moving Off Information System, increase driving safety in road traffic.

In addition, the LTM 1120-4.2 will be prepared for the use of RemoteDrive as standard. This allows the mobile crane to be driven from the outside with wireless remote control - a major benefit on cramped construction sites. Liebherr has also decided to equip the new crane with the popular VarioBase[®] variable supporting base as standard.

Liebherr now also offers new options for the LTM 1120-4.2 that are very popular with other crane types, such as the central lubrication system for the chassis or the digital tyre inflation pressure display. Liebherr thus supports its customers in operating a well-serviced and fail-safe crane in their fleet.

About Liebherr-Werk Ehingen GmbH

Liebherr-Werk Ehingen GmbH is a leading manufacturer of mobile and crawler cranes. Its range of mobile cranes extends from 2-axle 35 tonne cranes to heavy duty cranes with a lifting capacity of 1200 tonnes and a 9-axle chassis. Its lattice boom cranes on mobile or crawler travel gear deliver lifting capacities of up to 3000 tonnes. With universal boom systems and extensive additional equipment, they can be seen in action on construction sites throughout the world. The Ehingen site has a workforce of 5,000. An extensive, global service network guarantees the high availability of Liebherr mobile and crawler cranes. In 2023, the Liebherr plant in Ehingen recorded a turnover of 2.81 billion euros.

About the Liebherr Group

The Liebherr Group is a family-run technology company with a highly diversified product programme. The company is one of the largest construction equipment manufacturers in the world. It also provides high-quality, user-oriented products and services in a wide range of other areas. The Liebherr Group includes over 150 companies across all continents. In 2023, it employed more than 50,000 staff and achieved combined revenues of over 14 billion euros. Liebherr was founded by Hans Liebherr in 1949 in the southern German town of Kirchdorf an der Iller. Since then, the employees have been pursuing the goal of achieving continuous technological innovation, and bringing industry-leading solutions to its customers.

Image



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The LTM 1120-4.2 is a further crane in Liebherr's all-terrain crane portfolio that features the new LICCON3 control system and new crane design.

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