

Press release

Strong, long and easy: Liebherr presents the LTM 1400-6.1, the world's most powerful 6-axle crane

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- The LTM 1400-6.1 is the successor to the successful LTM 1350-6.1
 - The new crane from Liebherr is characterised by strong lifting capacities and a 70-metre telescopic boom
 - It is designed for simple set-up processes and rapid operational readiness

The Liebherr factory in Ehingen has updated its product range and launched the world's most powerful 6-axle crane: the new LTM 1400-6.1 has a 70-metre telescopic boom and is characterised by clever and simple set-up processes. The new crane is the successor to the proven and successful LTM 1350-6.1. Like its predecessor, the LTM 1400-6.1 is now the smallest crane with Y-guying, making it the perfect introduction to this boom technology with its enormous increase in lifting capacity. The new all-rounder is extremely flexible and economical thanks to a wide range of accessories, a highly functional modular boom kit and the familiar Liebherr technologies. It also features driver assistance systems that increase the safety of everyone on the road.

Ehingen (Donau) (Germany), 13 June 2024 – Liebherr's engineers have succeeded in getting the most out of a 6-axle crane during the product development process. The LTM 1400-6.1 achieves significantly higher lifting capacities than its predecessor, the LTM 1350-6.1, and is now the market leader worldwide. By successfully integrating its latest engineering expertise and innovative systems into this mobile crane, Liebherr has created an extremely powerful yet easy-to-handle machine.

Raring to go: fast operational readiness and strong performance

In addition to achieving outstanding performance data, Liebherr has focused on simple and fast set-up processes during development of the new crane. The entire workflow leading up to full operational readiness on the construction site has been designed with maximum simplicity in mind. There are major differences to the predecessor model, the LTM 1350-6.1, particularly in terms of the assembly process for the Y-guying system. With just one self-assembly lift, the LTM 1400-6.1 places the guying system on the chassis, where it is then pinned in place. The hydraulic quick coupling closes automatically when the boom is luffed down between the two Y-frames. The electrical connection is established with one final movement and the telescopic boom with Y-guying is ready for use in just a few minutes.

Various lattice jibs enable the new crane to work efficiently in a wide range of applications. The fixed lattice jib extends the telescopic boom by up to 45.5 metres and can be mounted at an angle of 0°, 10°, 20° and 40°. As an option, the fixed jib can be adjusted between 0° and 40°. The luffing lattice jib, with a length ranging from 14 to 80.5 metres, delivers maximum height, radius and performance.

Additional flexibility thanks to VarioBallast®

As with its predecessor, the total available ballast for the new LTM 1400-6.1 consists of 100 tonnes of basic ballast and 40 tonnes of additional ballast. The hydraulic ballasting device is integrated in the counterweight frame – ballast assembly is simple, quick and does not require an auxiliary crane. The VarioBallast® system is fundamentally different to the one found on the predecessor model. The 140 tonnes of total ballast can now be set to an enormous radius of 7.7 metres to achieve the maximum lifting capacity. In confined spaces, the ballast radius can be reduced to 5.6 metres. The counterweight plates are compatible with those found on other large Liebherr cranes – a major advantage for the crane operator in terms of both economy and logistics.

The variable VarioBase® supporting system ensures additional versatility. Here too, Liebherr engineers have come up with a new development: in addition to the option of flexibly using the predefined support positions with pinning options of 0%, 25%, 50%, 75% and 100%, the sliding beams can now also be freely extended between 0% and 50%. Until now, this was only possible on mobile cranes with up to five axles.

Economical thanks to single-engine concept

Unlike its predecessor, the new 400-tonne crane is powered by the Liebherr single-engine concept and a mechanical drive for the superstructure, which results in better economy. An eight-cylinder Liebherr diesel engine with 455 kW / 619 h.p. and 3,067 Nm of torque ensures a powerful travel drive.

Liebherr has developed different driving conditions to ensure worldwide, economical mobility. With an axle load of 12 tonnes, the LTM 1400-6.1 with telescopic boom and detachable hook block has an overall length of 17.8 metres. On the construction site, the 400-tonne machine can be driven with 10 tonnes of ballast, a three-line hook block and Y-guying with an axle load of less than 16.5 tonnes. Equipment can be removed for road journeys requiring lower axle loads.

Driver assistance systems for greater safety

Another new feature is the installation of various driver assistance systems to increase road safety, especially for vulnerable road users such as pedestrians and cyclists. For example, the Blind Spot Information System warns the crane driver when someone is in the vehicle's blind spot, particularly when the crane is turning. The moving off information system also provides a visual and acoustic warning if someone is in front of the crane. By monitoring the areas around the crane while it is moving, a significant increase in safety is achieved despite the presence of components that restrict visibility, such as the boom and hook block.

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 – 75 years of moving forward

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. Under the slogan '75 years of moving forward', the Group celebrates its 75th anniversary in 2024.

Images



liebherr-ltm-1400-6-1.jpg

The new Liebherr LTM 1400-6.1 is characterised by its high lifting capacities and 70-metre telescopic boom.

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Published by

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