

Press release

The master of all roads: New Liebherr LTM 1100-5.3 mobile crane

- Axle loads of 19,840 lb (9 t) for worldwide mobility
- Large working range with 203 ft (62 m) telescopic boom
- New cabs, crane control and gear unit
- First 5-axle crane worldwide with a width of 8 ft 4 in (2.55 m)

At Conexpo 2023, Liebherr presents a mobile crane that takes the combination of mobility, economy and performance to a new level. The LTM 1100-5.3 offers a powerful 203 ft (62 m) telescopic boom and carries up to 37,250 lb (16.9 t) of ballast with a 26,450 lb (12 t) axle load on public roads. The new crane also offers economical mobility worldwide, as it can travel with an axle load of only 19,840 lb (9 t). For this reason, Liebherr is presenting the new LTM 1100-5.3 under the slogan "The master of all roads". It is the second crane in the Liebherr range to feature the new LICCON3 control system.

Las Vegas, NV (USA), March 14, 2023 – When designing the LTM 1100-5.3, Liebherr focused above all on lightweight construction to allow as much ballast as possible to be carried with a 26,450 lb (12 t) axle load; and to achieve the lowest possible axle loads by reducing ballast. In addition, the new crane was designed with a long, strong telescopic boom in mind.

High mobility, worldwide

Even in countries where mobile cranes with a 26,450 lb (12 t) axle load are permitted on the roads, operators have been requesting cranes that can be driven with low axle loads and total weights by simply removing the ballast. These models deliver major benefits when it comes to obtaining licenses and route permits. Day-to-day circumstances often require reduced weights, such as when driving over bridges and in inner cities.

When it comes to flexible axle loads, the new LTM 1100-5.3 sets unprecedented standards. With 1,760 lb (0.8 t) of ballast, it reaches a total weight of 94,800 lb (44 t) with axle loads of 19,840 lb (9 t). With 9,700 lb (4.4 t) of ballast, it can travel with 22,050 lb (10 t) of axle load and a total weight of 105,800 lb (48 t). With an axle load of 26,450 lb (12 t), the new 110 USt (100 t) crane can carry up to 37,250 lb (16.9 t) of counterweights. At 75 percent of the maximum ballast of 49,600 lb (22.5 t), this is a new record for mobile cranes worldwide. This allows the new LTM 1100-5.3 to perform most of its jobs as a taxi crane without additional ballast transport. Even with maximum ballast, the axle loads of 29,760 lb (13.5 t) are low and evenly distributed across all axles. The new LTM 1100-5.3 has a narrow

width of 8 ft 4 in (2.55 m) – an additional advantage when driving on roads and construction sites. It is the first 5-axle mobile crane worldwide based on this narrow design.

The new LTM 1100-5.3 offers operators in California a particularly big advantage: it is the first and so far the only 5-axle all-terrain crane to receive Cal-trans approval. This means that it is road-legal in the normal driving condition, with the telescopic boom over the front. Operation with a dolly is not necessary. This means that the new Liebherr LTM 1100-5.3 is ideal to enter the “truck crane” market, which is particularly popular in the USA.

Large working range with the 203 ft (62 m) telescopic boom

At 203 ft (62 m), the telescopic boom is 6 ft 7 in (2 m) longer than the next most powerful Liebherr 5-axle machine, the LTM 1110-5.2. In addition, a 31 to 53 ft (9.5 to 16 m) folding jib is available which, as an option, can also be adjusted hydraulically between 0° and 40°. This enables the LTM 1100-5.3 to achieve hoisting heights of up to 249 ft (76 m) and radii of up to 210 ft (64 m). Other options include a 6 ft 7 in (2 m) assembly jib and a side-folding rooster sheave, which offer additional flexibility in use.

The new 110 USt (100 t) crane offers extra safety, flexibility and lifting capacity thanks to the VarioBase® variable outrigger. Greater flexibility on the construction site is also provided by the standard VarioBallast®, which allows the ballast radius to be adjusted between 13 ft 1 in and 16 ft 8 in (4.0 and 5.1 m).

LICCON3 crane control system

The third generation of the LICCON (Liebherr Computed Control) system relies on proven control features, but also includes a completely new software package and programming language as well as a faster databus, significantly more storage space and more computing power. Crane operators who are familiar with the previous control system will quickly and easily get to grips with the new version, as the recognition value is very high. Proven hardware components, such as the mobile operating and display unit BTT, have been adopted. The touchscreen function on the large new 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 cab and crane cab

As a result of the high synergy effects involved, Liebherr is launching the new operator's cab 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 operator. These include the new multifunction steering wheel, side roller blind on the operator's door, improved instruments and modules as well as new displays. Options such as a central locking system with remote key and the "Coming and Leaving Home" function also offer additional convenience.

A new automatic heating and air-conditioning system in the operator's cab and in the crane cab features an adapted design and 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, superstructure, rear of the vehicle, front headlights, lattice fly jib and telescopic boom have been optimized and can be operated with LEDs. The benefits of LED technology include a longer service life and superior lighting performance.

ZF TraXon DynamicPerform gear unit

The new LTM 1100-5.3 features the innovative DynamicPerform coupling module which ensures virtually wear-free starting and maneuvering without overheating for the modular ZF TraXon gear unit, as it transmits the engine output via an oil-cooled clutch plate pack. The friction heat generated when starting is dissipated in the clutch oil and supplied to the vehicle's cooling system via an oil/water heat exchanger. Operators benefit from greater efficiency and lower maintenance costs.

About Liebherr USA, Co.

Liebherr USA, Co. based in Newport News, VA provides sales and service on behalf of ten different Liebherr product segments: earthmoving, material handling, mining, mobile and crawler cranes, tower cranes, concrete technology, deep foundation machines, maritime cranes; components, and refrigeration and freezing.

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 crane chassis 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 3,800. Extensive, global service guarantees the high availability of Liebherr mobile and crawler cranes. In 2021, the Liebherr plant in Ehingen recorded a turnover of 2.33 billion euros.

About the Liebherr Group

The Liebherr Group is a family-run technology company with a highly diversified product portfolio. The company is one of the largest construction equipment manufacturers in the world. It also provides high-quality and user-oriented products and services in a wide range of other areas. The Liebherr Group includes over 140 companies across all continents. In 2021, it employed more than 49,000 staff and achieved combined revenues of over 11.6 billion euros. Liebherr was founded in Kirchdorf an der Iller in Southern Germany in 1949. 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 new Liebherr LTM 1100-5.3 mobile crane offers a new level of combined mobility, economy and performance.

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