

Press release

The toughest in the roughest: Liebherr expands its rough- terrain crane range with the LRT 1130-2.1

- Most powerful 2-axle rough-terrain crane with longest telescopic boom on the market
- Economical worldwide transport
- High safety standards

At Conexpo 2023, Liebherr showcases the most powerful rough-terrain crane on two axles on the market. The LRT 1130-2.1 has a maximum lifting capacity of 140 USt (130 t) and extends Liebherr's range of rough-terrain cranes at the top end of this segment. Apart from high performance; economical transport and safe crane operation played a critical role in the development of this new model

Las Vegas, NV (USA), March 14, 2023 – Liebherr showcases a 140 USt (130 t) rough-terrain crane at Conexpo 2023 under the slogan "The toughest in the roughest". The new LRT 1130-2.1 offers the highest lifting capacities and the longest telescopic boom of any 2-axle rough-terrain crane in the world. It also has the most economical transport dimensions in its performance class.

High performance with long telescopic boom

The essence of the LRT 1130-2.1 is maximum performance with economical mobility, worldwide. The new Liebherr rough-terrain crane is currently the only 140 USt (130 t) crane on a 2-axle chassis. At the same time, its telescopic boom is the longest in its class at 197 ft (60 m). It consists of the pivot section as well as six telescopic sections and is extended and bolted fully automatically with the Liebherr TELEMATIK high-speed telescopic system.

A 35 ft (10.8 m) single folding jib or a 35 – 62 ft (10.8 –19 m) double folding jib is available for the LRT 1130-2.1. It is mounted at angles of 0°, 20° or 40°, or can be hydraulically tilted from 0° to 40°. With an additional 23 ft (7 m) lattice section as a telescopic extension, this new crane reaches hook heights of up to 279 ft (85 m). The folding jib is carried on the right-hand side of the boom. At the same time, a 9 ft 6 in (2.9 m) assembly jib can be attached to the left-hand side of the boom. A side-folding rooster sheave, which can be operated in 2-line mode, rounds off the boom options.

Economical transport

Liebherr has designed the dimensions of the new LRT 1130-2.1 so that it can be transported economically on low-loaders worldwide. Its width is 11 ft 2 in (3.4 m), its height 12 ft 7 in (3.85 m) and its chassis length is 30 ft 8 in (9.4 m). The transport weight is 106,000 lb (48 t) without ballast, but with the folding jib and hook block. This can be reduced to 98,750 lb (44.8 t). These values are unique in the class of powerful 2-axle all-terrain cranes. A permit-free standard transport vehicle is sufficient for the 44,100 lb (20 t) ballast and additional equipment. The counterweight consists of three ballast slabs and is attached to the slewing platform via self-assembly with ballasting rams.

"Safety first" – safety equipment and assistance systems set new standards

High safety levels in every respect were the main priority for the design of the new LRT 1130-2.1, which features an outrigger monitoring system as standard. The outrigger status, on tires or supports, is detected automatically and saved to the crane controller. The attachment of the ballast to the slewing platform and the installation of the optional double folding jib, including its angle adjustment system, are also recorded and monitored.

The VarioBase® variable support base, which was developed by Liebherr and is standard equipment on all Liebherr LRT cranes, makes an important contribution to increasing safety. VarioBase® allows each individual crane outrigger to be extended to any length. The crane work is controlled by the load moment limiter within the LICCON controller, which calculates the maximum load capacities precisely for the current situation. This prevents accidents caused by human error during the assembly process and when hoisting loads. VarioBase® also offers greater flexibility on the construction site, higher lifting capacities and a larger working range. The greatest advantages are achieved in the areas directly above the outriggers.

Safety is also enhanced by providing greater comfort for the operating personnel. The new 140 USt (130 t) crane also features the wide crane cab that has already proven its worth on the other Liebherr LRT models. It can be tilted backwards to provide greater comfort when hoisting loads to great heights. Clear, self-explanatory controls make the crane easy to handle. They allow crane drivers to concentrate on the main focus of their job, working with the crane and the load. Liebherr calls this concept KISS: "keep it simple and safe".

There are ladders, a large number of handles and an electronically extending platform on the cab to ensure safe access to the crane. The new LRT crane features a wide range of storage boxes for extensive accessories, lifting tackle and support timbers as standard. There is also storage for the load hook.

Like the LRT 1090-2.1 and LRT 1100-2.1 cranes, the LRT 1130-2.1 also complies with a global, uniform safety standard and with globally valid regulations such as the US ASME B30.5 standard, the European EN 13000 standard and the Australian Standards (AS). The machines also include systems to prevent safety equipment being bypassed. Liebherr is a pioneer in the industry in this respect.

High off-road capability

The new LRT 1130-2.1 is designed for durability, off-road mobility and maneuverability. It is powered by a 6-cylinder CUMMINS combustion engine that complies with all applicable exhaust emission regulations. It can be operated without restrictions with hydrogenated vegetable oil (HVO). The engine develops 252 bhp (188 kW) and supplies a maximum torque of 875 lb-ft (1,186 Nm). A 6-speed powershift transmission from DANA and large 29.5 R 25 tires guarantee the required off-road capability. All-wheel and crab steering ensure easy handling and high maneuverability in constricted conditions.

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.

Images



liebherr-lrt1130-2.1.jpg

The new Liebherr LRT 1130-2.1 is now the world's most powerful all-terrain crane on two axles.



liebherr-lrt1130-2.1-transport.jpg

The LRT 1130-2.1 is designed for economical transport.

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