

Press Release

## **World Premiere: Three new Machines and one new Design**

**Nenzing (Austria), 1<sup>st</sup> December 2020 - Innovations have been the driving force at Liebherr-Werk Nenzing GmbH from the very beginning. The year 2020 is no exception. Product developments are in full swing. Today three new machines from the fields deep foundation, material handling and lifting could be unveiled in our online presentation. What was striking about it: all models gleam in a new design.**

### **Design**

All colour compositions in the latest generation combine the classic Liebherr yellow with new black, grey and white accents. The design reflects how long-standing tradition and company values unite with advanced technologies. The elegant colour scheme prevails through all product groups and lends the machines a distinctive look and immediate recognition.

The new design focuses on an even higher level of safety emphasised, above all, by improved platforms and railings on the uppercarriage. Thanks to the additional add-on wing for mounting lights or cameras, the design is more flexible on the whole.

Inside the new cabin the operator experiences immediately how the overall concept fits harmoniously together: reduced noise, panoramic view and pure operator comfort. This is achieved through a modern air-conditioning system with improved airflow, an optimised field of vision and an orthopaedic operator's seat with integrated heating and cooling. Additional safety is provided by the stone protection, even in the toughest of applications.

### **Deep Foundation– LRB 23:**

#### **The Continuation of a Success Story**

The compact piling and drilling rig type LRB 23 closes the gap between the LRB 16 and the long-proven LRB 355.

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The new all-rounder for deep foundation work offers an impressive engine output of 600 kW and so delivers the necessary capacity for all common deep foundation work, such as drilling with a Kelly drill, double rotary drill, full displacement equipment and continuous flight auger, as well as soil mixing and applications with a vibrator or hydraulic hammer.

Its compact design allows for transportation of the LRB 23 in one piece, so simplifying mobilisation between jobsites. The remote control simplifies the loading process for transportation as well as the assembly of the machine.

The advantages of the rigid leader are proven in operation. As it can withstand high torques even Kelly drilling is possible, which is unique for a machine of this size! The rotary drive BAT 300 delivers a maximum torque of 300 kNm.

Locking of the Kelly bar's telescopic sections is made significantly easier with the aid of the Kelly visualization system in the LRB 23. Thanks to the real time display of the Kelly bar's locking recesses on the cabin monitor, the operator is permanently informed about the actual distance to the next locking recess. Colour indications inform when the bar can be locked. Furthermore, false positioning of the Kelly bar during the shake-off process is indicated through a warning signal.

During continuous flight auger drilling the concreting process is automated thanks to the drilling assistant. All assistance systems contribute to time savings, higher availability of the machine and a significant increase in safety during operation. The newly designed piling and drilling rig convinces through precision, high performance and a long service life.

## **Material Handling – HS 8070.1:**

### **The All-Rounder: Versatile and Flexible**

With the brand new HS 8070.1, Liebherr unveils the newest generation of duty cycle crawler cranes. The machine has a lifting capacity of 70 tonnes and is the first choice for a multitude of applications: material handling, deep foundation work or lifting work.

Using the new self-loading system (Jack-Up System) the crawlers can be easily disassembled for transportation, so reducing the transport weight to less than 35 t. The platforms and railings must no longer be removed before transporting.

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Instead of a single counterweight, the machine now has a modular system. The duty cycle crawler crane can be individually equipped depending on the application. Further, the boom of the HS 8070.1 is compatible with the HS 8100.1. Therefore, customers can use attachments such as the slurry wall grab HSG 5-18 on both machines and install thicker slurry walls with a more compact machine.

As opposed to the fixed system, the new floating A-frame system ensures higher performance in dynamic applications. It also simplifies and speeds up the assembly and transportation of the machine. The user-friendly design extends to the tank neck, which is easily accessible via a platform on the uppercarriage – a perfect example of the modern design strategy.

### **Lifting – LR 1200.1 unplugged and LR 1250.1 unplugged: The World's First Battery-Powered Crawler Crane**

The LR 1200.1 unplugged and the LR 1250.1 unplugged are the world's first battery-powered crawler cranes. Both are driven by electric engines with a system performance of 255 kW.

There are no compromises regarding performance or availability when compared with the conventional versions. The LR 1200.1 unplugged has a maximum lifting capacity of 200 tonnes and the LR 1250.1 lifts 250 tonnes.

The blue accent in the colour composition, which lends the distinctive look to the unplugged series, symbolises the electric solution representing an advanced technology. The unplugged cranes achieve the best possible combination of operator benefit, efficiency and environmental sustainability.

Thanks to Zero Emission the new machines are emission free and have a very low noise level. That is a huge advantage in areas sensitive to noise and also for the people working on the jobsite.

The cranes can be recharged on a conventional jobsite electric supply (32 A, 63 A) in 4.5 hours and optionally with 125 A in 2.25 hours. The capacity of the battery is designed for 4 hours lifting operation. In accordance with their name, the cranes can be operated without a cable, thus “unplugged” thanks to the battery-electric drive design.

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“Especially the year 2020 has shown that one must be open-minded and bold to break new ground. With our unplugged cranes we offer our customers an alternative drive design. As we have already seen with the LB 16 unplugged, the first battery-powered drilling rig, the strategy is a complete success. Strict requirements regarding environmental sustainability in tenders for construction projects increase the demand for advanced technologies. For us, it was clear that we extend and successfully establish the design in further product groups,” says Gerhard Frainer, Managing Director for Sales at Liebherr-Werk Nenzing GmbH.

Here you can find the online product presentation and further information about the machines: [www.liebherr.com/unplugged](http://www.liebherr.com/unplugged)

## Pictures



liebherr-lrb 23\_1.jpg

liebherr-lrb 23\_2.png

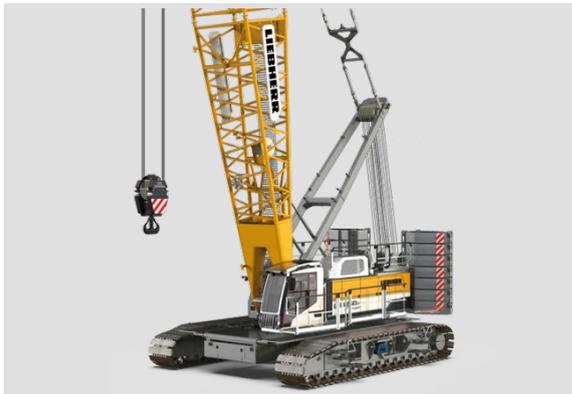
LRB 23 – The continuation of a success story.



liebherr-hs 8070\_1.jpg

liebherr-hs 8070\_2.png

HS 8070.1 – The all-rounder: versatile and flexible.



liebherr-lr 1250 unplugged\_1.jpg

liebherr-lr 1250 unplugged\_2.png

LR 1250.1 unplugged. – the world's first battery-powered crawler crane.

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