

## **Liebherr to Present its Latest Construction Machinery in Finland at the 2015 Maxpo**

- Liebherr on stand A 60 at the Maxpo
- A dozen construction machines from the fields of earthmoving, material handling and mobile cranes

**Hyvinkää (Finland), 10 September 2015 – The Liebherr Group is present at Finland's largest trade fair for construction machinery Maxpo, which is held from 10 to 12 September in Hyvinkää. On stand A 60, measuring 1500 m<sup>2</sup>, Liebherr offers trade visitors a range of construction machinery from the fields of earthmoving, material handling and mobile cranes.**

Liebherr presents a total of twelve exhibits of its current range of construction machinery. The highlights at the Liebherr stand include the new R 926 Compact crawler excavator, the LH 22 M material handling machine and the LTM 1160-5.2 mobile crane with variable supporting base.

Since 2004, the Group has been operating a sales, distribution and service center for earthmoving machines in Tuusula in the south of Finland. The sales and distribution organization of Liebherr-Finland Oy Ab has a favorable position in the vicinity of Helsinki and Vantaa airport. From this location, close contact with manufacturing plants is maintained and the high quality of services is assured.

### **Crawler Excavator R 926 Compact**

From the portfolio of crawler excavators, Liebherr is exhibiting the R 926 Compact with an operational weight of 25 tonnes at the Maxpo 2015 trade fair. Its diesel engine features a DOC (Diesel Oxidation Catalyst) emissions treatment device. A Liebherr particulate filter is available as an optional extra. The engine delivers an output of 120 kW /163 HP and like all the Liebherr engines on the latest-generation machines, it meets stage IIIB exhaust emission standards.

The R 926 Compact combines the power and versatility of a standard excavator with a compact design particularly suited to urban building sites. Thanks to its unique range of equipment and options, this machine can be configured for all types of work involving excavation, pipe-laying or demolition.

The new maintenance concept integrated into the R 926 Compact, with access points within arm's reach and accessible from the ground, helps reduce service times to increase productivity. Operating costs are also lower thanks to its low fuel consumption and the integration of an automatic tool change system.

The cab on the R 926 Compact is more comfortable, more spacious and offers exceptional visibility; it is ROPS certified and features the latest technologies to ensure optimum machine performance while further enhancing working conditions. The particularly quiet cab is also equipped with a high-definition colour screen with touch screen control and reversing video camera; it also boasts numerous options for settings, checks and monitoring, including air conditioning and engine or tool parameters.

### **LH 22 M Material Handling Machine**

The machine exhibited at the Maxpo 2015 trade fair in Hyvinkää, is an excellent representative from the Liebherr range of small material handlers. The LH 22 is available with both mobile and tracked undercarriage.

The LH 22 M Litronic material handling machine combines comfort, performance and reliability. Furthermore, it offers the winning combination of ground-breaking fuel efficiency, high lift capacity and long reach distances.

With an operating weight of approx. 22 tones, the compact LH 22 M Litronic is the smallest machine in the Liebherr range designed for material handling works. In spite of its compact dimensions, it is extraordinarily powerful. The turbocharged four-cylinder diesel engine with intercooler delivers its power of 100 kW / 136 hp at only 1,800 rpm<sup>-1</sup>. The increased engine's power combined with boosted pump flow, leads to increased significant handling's performance, compared to the previous model.

The new developed Liebherr diesel engine complies with Stage IIIB / Tier 4i exhaust emissions regulations and allows the fuel consumption of the LH 22 M to be reduced by as much as 30 % compared to the previous model, the A 316 Litronic. Exhaust post-treatment is handled by a maintenance-free oxidation catalytic converter. A diesel particle filter is also available as an option. This means the Liebherr material handling machine complies with globally applicable regulations on particulate emissions. The service-oriented machine structure guarantees short maintenance times and minimizes the resulting maintenance costs.

The robust undercarriage of the LH 22 M Litronic is also longer than on previous model which guarantees outstanding stability of the new machine. The larger supported width and modified lever geometry between the monoblock and hoist cylinder make it possible to achieve heavier loads. They are perfectly designed for material handling, unloading and sorting materials, general cargo and bulk.

The brand new Liebherr operator's cab with fully automatic air conditioning system is equipped with infinitely variable operator's hydraulic cab elevation as standard. This offers the operator the best possible visibility of the working area, as well as ensuring safe and efficient working. The new design, with its spaciousness and comfort, sets new standards in terms of ergonomics. The air suspended operator's seat also features seat heating as standard and a lumbar support for reducing fatigue when working.

### **LTM 1160-5.2 five-axle Mobile Crane with VarioBase®**

At the 2015 Maxpo Liebherr shows its 160-tonne mobile crane LTM 1160-5.2 with VarioBase®. The load capacity of the new five-axle crane has been increased by around 20-25 % compared to its predecessor whilst the telescopic boom has remained at the same length of 62 m. The vehicle width has been reduced from 3 m to 2.75 m. That means that not only it is easier to drive on public roads but also considerably better on constricted sites.

The six-part 62 m long telescopic boom on the new LTM 1160-5.2 is telescoping in and out easily via the tried and tested rapid action TELEMATIK telescoping system. With its

10.8 m to 19 m folding jib and additional telescopic boom extensions, the new LTM 1160-5.2 can achieve hoist heights of up to 99 m and outreaches of up to 78 m.

The LTM 1160-5.2 features the new Liebherr concept for powering the superstructure. Instead of the twin-engine concept normally used on cranes in this class the new Liebherr crane is powered by a single engine with a mechanical shaft. Gear shafts are routed from the distributor gear in the crane chassis via two mitre gears through the centre of the slewing ring to the pump distributor gear in the superstructure. The high efficiency of being driven via gear shafts ensures the economy of the single-engine concept in terms of fuel consumption.

In the hydraulic system, the electric "Load-Sensing" control ensures accurate work operations. Furthermore Liebherr has developed a special mode for mobile cranes in the load-sensing range to reduce the cost of crane use whilst also reducing noise emissions. In ECOmode the crane driver sets the required working speed using the control lever. The LICCON2 control then calculates the perfect engine speed for it. This value is set on the crane engine using the engine control unit. The result of this dynamic adjustment of the engine speed compared to using a constant and therefore mostly excessive engine speed is to reduce fuel consumption and minimise noise emissions.

A six-cylinder Liebherr diesel engine which develops 400 kW / 544 h.p. and torque of 2,516 Nm provides the LTM 1160-5.2 with all the power it needs. The engine complies with the emission regulations of Directive 97/68/EC - Stage 4 and Regulation EPA/CARB.

The LTM 1160-5.2 that Liebherr is presenting in Hyvinkää, is equipped with the variable supporting base VarioBase<sup>®</sup>, which improves safety for mobile crane work. It is often not possible to extend all the supports evenly in crane use locations. Liebherr has developed a unique new system with which every individual crane support can be extended to any length and the crane operation is then made safe by the load moment limiter within the LICCON control.

The variable supporting base ensures higher lifting capacities and a larger working range, even with a maximum support base. The largest increases are made in the operating ranges directly above the supports. When the crane is used with part ballast the increase in lifting capacity and the extension of the radius is even more pronounced with the new system than with full ballast. This means that there are less ballast transports needed for many crane jobs.

### **Captions**

liebherr-crawler-excavator-r926compact.jpg

The Liebherr crawler excavator R 926 Compact in a worksite where space is restricted

liebherr-material-handler-lh22m.jpg

The Liebherr LH 22 M stacking pressed solid waste

liebherr-mobile-crane-ltm1160-5-2.jpg

Liebherr presents the mobile crane LTM 1160-5.2 on five-axle chassis at the 2015 Maxpo in Hyvinkää

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