

At the CTT Moscow 2017, Liebherr presents two mobile cranes and a tower crane

- The five-axle LTM 1130-5.1 mobile crane is flexible and economical to operate
- The LTM 1750-9.1 is powerful and suitable for universal use
- 150 EC-B 8R Litronic Flat-Top crane from Russian production

Moscow (Russia), 30 May 2017 – At this year's CTT in Moscow, Liebherr exhibits its mobile cranes LTM 1130-5.1 and LTM 1750-9.1. Due to their compact dimensions, both machines can manoeuvre on confined building sites.

LTM 1130-5.1 mobile crane

The Liebherr 130-tonne crane has a long and variable boom system with outstanding load capacities. With its ground-breaking technology and compact design, it is flexible and economical to operate. The mobile crane has a 60-metre telescopic boom, which can be extended with a 10.8-m to 19-m swing-away fly jib and additionally with two lattice sections, each 7 m long. The swing-away fly jib has hydraulic adjustment as an option. The load can be moved under full load. With a maximum axle load of 12 t, the 130-tonne crane carries with it up to 9 t of ballast, and is capable of performing a variety of operations without any additional ballast. The large number of additional ballast variations and the variable jib system afford the Liebherr mobile crane excellent flexibility of use.

Because of its compact dimensions, the LTM 1130-5.1 can manoeuvre on confined building sites. Despite a tyre specification of 16.00 R 25, the 12.34-metre-long chassis is only 2.75 m wide and operates on a maximum turning radius, measured across the operator's cab, of 10.38 m. The radius of the ballast, which weighs up to 42.1 t, is less than 4.2 m. Double telescoping outriggers provide a support base width of 7.5 m. In cramped conditions, the crane can also be operated with a support base width of just 4.98 m if required.

Air-operated disc brakes, pioneered by Liebherr in mobile cranes, ensure that the 130-tonne crane also operates safely and economically. They offer considerably improved braking performance, which is not impaired even at high braking temperatures. In comparison with conventional drum brakes, they have a significantly longer useful working life, which also means that they are more economical. Further advantages are the ease and speed with which the brake linings can be changed and the fact that they are fitted with wear indicators.

A six-cylinder Liebherr diesel engine in the undercarriage which develops 400 kW / 544 hp and torque of 2,516 Nm provides the LTM 1130-5.1 with all the power it needs. The engine meets the Stage IV / Tier 4f emissions regulations. Liebherr can also supply the engine in an ECE-R.96 version (which corresponds to Stage IIIa) for countries with less stringent emission regulations. Power transmission to the crane axles is via the 12-speed ZF AS-Tronic gearbox. An interarder is integrated as standard in the gearbox as a non-wearing permanent brake. A two-stage transfer case enables the crane to operate at minimal crawling speeds when manoeuvring.

LTM 1790-9.1 powerful and suitable for universal use

The 750-tonne mobile crane complements the Liebherr range between the highly successful models LTM 1500-8.1 and LTM 11200-9.1. One particular feature of the nine-axle unit is the fact that the complete telescopic boom can be carried during travel on public roads. To help make operation even more economical worldwide, account was taken in the design concept of the LTM 1750-9.1 of the very widely differing transport weights and axle load variations. Another point of focus in the design, too, was particularly short set-up times.

A very broad range of equipment options means that the LTM 1750-9.1 has a particularly wide operational spectrum. With the 52 metre long telescopic boom, the telescopic boom Y-guying system, and a whole array of different lattice jibs, the crane has a large number of different boom systems available, and can achieve heights under hook of up to 154 metres and outreaches of up to 112 metres. The luffing fly jib can be extended in 3.5 metre increments, out to 91 metres. The luffing of the fixed lattice jib, up to 62 metres long, can, as an option, be carried out hydraulically, which means that the jib can also

be adjusted under load. A special auxiliary jib, with a load capacity of 56 tonnes, is also available for operation on the telescopic boom, at the fixed jib, and at the luffing jib. There are individual load capacity tables for this jib in the LICCON load moment limiting system.

The tried and trusted telescopic boom Y-guying system provides for an enormous increase in load capacity on the LTM 1750-9.1 as well, in particular with long boom systems, due to the lateral stability being significantly improved. During the guying procedure, the cables are drawn by tensioning cylinders on both sides to precisely the same length, which means that the boom is held in a statically optimum straight position.

150 EC-B 8R Litronic Flat-Top Crane

Liebherr presents the modular design 150 EC-B 8R Litronic Flat-Top crane at CTT 2016 in Moscow. The 150 EC-B machine is available only in Litronic version. The Flat-Top crane is available in a 8-tonne version, providing a particularly high level of flexibility in terms of machine configuration. The 150 EC-B can be optimally adapted to the various construction site requirements and customer needs, and it also represents an economically interesting machine concept for crane rental operations.

With a maximum lifting capacity of 1,700 kg at the tip and a 60 m radius, the 150 EC-B 8R Litronic boasts an impressive performance capability. The crane has a maximum load capacity of 8,000 kg. The jib length can be adjusted as required in 5-metre increments from 25 m to 60 m. This guarantees the optimum configuration for a wide variety of site conditions, especially on sites with restricted space. In addition, all loads are moved in efficient 2-fall operation.

The entire tower crane 150 EC-B as well as the tower system 132 HC is manufactured by Liebherr in Nizhny Novgorod – “German Technology, made in Russia”. The foundation anchors for this type of crane also come from Liebherr's Russian production facilities.

Captions

liebherr-mobile-crane-ltm-1130-5.1.jpg

Because of its compact dimensions, the LTM 1130-5.1 can manoeuvre on confined building sites

liebherr-mobile-crane-ltm-1750-9.1.jpg

The LTM 1750-9.1 travels with its 52-metre telescopic boom, the front supports, an auxiliary support at the rear, and a complete hoist gear, at a gross weight of 108 tonnes with an axle load of 12 tonnes

liebherr-flat-top-crane-150ec-b8r-litronic.jpg

The Liebherr 150 EC-B 8r Litronic flat-top crane in operation

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Published by

Liebherr-Russland OOO

Moscow, Russia

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