

At the CTT Moscow 2017, Liebherr presents Earthmoving Machines and Special Deep Foundation for various applications

- PR 734-4 crawler tractor designed to meet the requirements of the Russian market
- L 580 wheel loader with Z-kinematics
- R 920 crawler excavator for less regulated markets
- LRB 355 piling and drilling rig as innovative solution for the deep foundation industry

Moscow (Russia), 30 May 2017 – From its extensive range of earthmoving machines, Liebherr's exhibits at the CTT in Moscow include the PR 734-4 crawler tractor, the R 920 crawler excavator and the L 580 wheel loader. In addition, Liebherr also presents the piling and drilling rig LRB 355, part of its range of special deep foundation equipment.

PR 734-4 Crawler Tractor

At the CTT Moscow 2017, Liebherr presents the crawler tractor PR 734-4 in the 20 tonnes class. This is aimed at the special customer requirements on the Russian market. The PR 734-4 on show features a Liebherr diesel engine with an output of 150 kW / 204 hp and satisfying the Stage IIIA / Tier 3 emissions standard. The PR 734-4 is available with an operating weight of 18,000 kg - 22,100 kg and a blade capacity of 3.8 m³ - 5.56 m³.

The crawler tractors employ the 4th generation Litronic system in their control system. Essential characteristics include the automatic engine output increase when cornering and the “turn with contra-rotating chains” function. This is automatically actuated by the machine when a sufficiently tight turn is executed. This gives the machine unrivalled turning capability. Another advantage of the drive concept of the 4th crawler generation can be found in the significantly reduced fuel consumption.

The undercarriage versions XL for road building and LGP for use on less stable ground extend the machines' range of applications. The options packages for different

industrial applications such as waste disposal sites, wood chip and coal handling and for forestry allow the crawler tractors to be perfectly adapted for the requirements of the specific application. Special cold kits are also available for operation at very low temperatures.

R 920 Crawler Excavator

With the R 920, Liebherr presents a representative of the new crawler excavator model series. The new models are specifically oriented towards the needs of customers from less regulated markets such as Russia.

The 21-tonne machine was developed especially for use in earthmoving, digging and drainage/sewerage work and has an output of 110kW / 150hp. The concept of the Liebherr R 920 is based on European standards and aims to improve reliability, as well as generate even higher productivity on the construction site – with lower fuel consumption at the same time.

The market launch of the R 920 is accompanied by a complete renewal of all crawler excavator models for these markets between 20 tonnes and 25 tonnes. In addition to the R 920, this also includes the models R 922 and R 924 with operating weights of 21 tonnes and 24 tonnes respectively and outputs of 110kW / 150hp and 125kW / 170hp.

L 580 Wheel Loader

At the exhibition, Liebherr presents the L 580 wheel loader with Z-kinematics and a 5.0 m³ excavation bucket. With an operating weight of 24,720 kg the exhibit has a tipping load of 18,000 kg.

The L 580 is powered by an economical 209 kW / 284 HP Liebherr diesel engine which satisfies exhaust emissions standard Stage II / Tier 2. Similar to all Liebherr wheel loaders for less regulated markets, the L 580 has a hydrostatic travel drive. This is characterised by its fuel efficiency, among other things.

The Liebherr L 580 wheel loader consumes up to 25 percent less fuel than comparable wheel loaders in the same size category. In addition, the operator can accelerate in all speed ranges with the powerful and infinitely variable Liebherr travel drive – without noticeable gear shifting or interruption in tractive force. The continuous traction control reduces the tyre wear by up to 25 percent. The drive concept also protects the brakes: Owing to the hydraulic braking effect of the drive the service brake remains virtually wear-free.

For higher tipping loads Liebherr installs heavy components such as the engine and variable displacement pumps in the rear of the wheel loader. With this unique compact design the components act as natural counterweight. Liebherr can therefore forego any additional ballast and attain higher tipping loads. Together with the powerful

Z-kinematics, this ideal weight distribution ensures increased handling capacity per operating hour, thus boosting productivity.

Multi-function machine LRB 355 piling and drilling rig

As full-service provider for deep foundation applications, Liebherr will showcase its piling and drilling rig LRB 355. The robust undercarriage of the machine, with the longest tracks in its class, guarantees a high level of stability. Thanks to the parallel kinematics the LRB 355 has a large operating area. Another aspect relates to the direct mounting of all winches on the leader. On the one hand, this allows for a direct view from the operator's cab to the main winch and, on the other hand, ensures that the ropes do not move during leader adjustment. The optional elevating working platform of the LRB 355 enables safe and easy access to the attachments. Additionally, it facilitates the assembly of tools as well as maintenance work at the jobsite.

The LRB 355 is available in two different configurations with a maximum height of 33.5 m and a maximum weight of approximately 100 t without attachments. The rig is driven by a powerful V12 diesel engine offering 600 kW (option: 750 kW), which complies with the European emission standards, stage IV, and the US Tier 4 final.

Further major advantages of the new piling and drilling rig are its fast mobilisation and easy transportation. The rig can be transported with the leader and multi sledge attached to the machine. In order to minimise the transportation length to a mere 22.6 m the leader can be folded. In addition, no tools are required for folding the leader and mounting the counterweight. The LRB 355 has been specially designed for drilling with full displacement tool and achieves a torque of 450 kNm in this application. The rig can, however, be used for numerous other applications including drilling with Kelly equipment, double rotary head and continuous flight auger, soil mixing as well as piling jobs with vibrator and hydraulic hammer.

In the design stage special attention was paid to the fuel efficiency of the engine. Hence, the engine runs at a reduced operating speed of 1.700 rpm. In addition, the LRB 355 can optionally be equipped with an automatic engine stop control. Thanks to this feature the piling and drilling rig automatically switches off during longer work breaks, which is both fuel saving and environmentally friendly.

Captions

liebherr-pr-734-4-crawler-tractor.jpg

Among others, one of the key advantages of the drive concept of the 4th crawler generation is the significantly reduced fuel consumption.

liebherr-crawler-excavator-r920.jpg

At the CTT Moscow, Liebherr presents the new crawler excavator R 920 for less regulated markets.

liebherr-l580-wheel-loader.jpg

The Liebherr L 580 wheel loader impresses in rehandling with its minimal fuel consumption. It consumes up to 25 percent less fuel compared with conventional wheel loaders under the same conditions.

liebherr-lrb355-piling-drilling-rig.jpg

Liebherr's versatile piling and drilling rig LRB 355 on its premiere jobsite in the Austrian city of Dornbirn.

Contact person

Roman Tschukanov

Phone: +7 495 710 83 65

E-mail: roman.tschukanov@liebherr.com

Published by

Liebherr-Russland OOO

Moscow, Russia

www.liebherr.com