

World première at Liebherr: Three new telescopic handler models with 7 m lifting height

- New models: TL 432-7, TL 436-7 and TL 441-7
- 7 m lifting height and lifting capacities of 3.2 t to 4.1 t
- Newly designed driver workstation

Telfs (Austria), October 2014 – Liebherr is presenting three new telescopic handler models with 7 m lifting height. During development, demands from companies in the construction industry and equipment hire were at the forefront.

The basic model of Liebherr's new telescopic handlers with 7 m lifting height is the TL 432-7 with a lifting capacity of 3.2 tonnes. Based on this standard model, the machines are also available as TL 436-7 and TL 441-7 versions with lifting capacities of 3.6 and 4.1 tonnes. The new models offer an extremely broad spectrum of use allowing challenging construction tasks to be performed reliably and efficiently.

Liebherr telescopic handlers score particularly highly with the infinitely variable hydrostatic travel drive, the sturdy overall structure, the safe, simple and convenient operation and the outstanding viewing conditions enabled by the new equipment design.

High performing and efficient

The three telescopic handler models are powered by a new turbocharged Deutz construction machine engine with 74 kW / 101 HP. This engine is equipped as standard with an oxidisation catalyst and meets the requirements of the IIIB / tier 4i emissions legislation. For deployment on steep gradients where a higher pulling force is needed, Liebherr offers a larger capacity engine with an output of 90 kW / 122 HP and a greater hydraulic delivery rate.

The hydrostatically driven fan is regulated electronically and the cooling output is set variably depending on the ambient temperature and operating conditions. This enables a fuel saving, the noise emissions can be reduced and general efficiency during operation is increased.

Sturdy and universally deployable

The new telescopic handlers from Liebherr impress with their stability during loading and lifting. The newly designed frame and the balanced wheelbase give the machines a low centre of gravity. The heavy duty telescopic boom is articulated at a point deep in the frame. Powerful friction bearings allow smooth guidance with heavy loads and offer a high lifting force.

High performing working hydraulics and the trusted hydrostatic travel drive on the telescopic handlers facilitate purposeful and fast operations as well as short working cycles. The infinitely variable controls and the fine response of the hydrostatic travel drive ensure precision and rapid manoeuvring and also jolt-free driving without shifting operations across the entire speed range.

The rims and axles designed specifically for the equipment - the 45% self-locking limited slip differential on the front axle and the particularly wide swing angle of the rear axle - not forgetting the high ground clearance - guarantee safe work and good off road capability of the new telescopic handler. The compact machines are ideally suited for use in tight operating conditions thanks to their great manoeuvrability.

Three different types of steering – front wheel steering, all-wheel steering and crab steering – can be individually selected. A standard LED display informs the driver when the wheels are in a neutral position.

Safe and precise operation

The greatest importance was attached to the comfort and safety of the driver during the development of the equipment. Ergonomic control elements in a generously-sized driver cab allow work to be carried out in a relaxed manner. Large window panes, an uninterrupted windscreen, a newly designed driver console as well as the standard tilting steering column and low articulation point of the boom guarantee all-round visibility.

The single lever operation means that the telescopic handlers can be controlled with the utmost of precision. Moreover, the travelling direction switch integrated in the joystick makes it possible to change between forwards and reverse travel quick and easily.

The acoustic and visual overload warning system provides continuous feedback to the driver about the current load situation of the machine. The standard load torque limiter also automatically regulates the speed of the working hydraulics and thereby facilitates a safe approach to the maximum rated load. In the event of overload, the functions that would otherwise lead to the machine tipping over are blocked. Only movements that allow the equipment to be moved back to the safe working range are then possible.

The standard end position damper for lifting, lowering and telescopic retraction as well as the pipe breakage protection in the hydraulic cylinders makes it possible to move the load with a particularly high level of safety. The automatic parking brake prevents the machine from rolling away unintentionally on gradients.

Economic operation and low maintenance complexity

The optimal interaction of hydrostatic travel drive and diesel engine allows fuel savings to be gained particularly in operations where the direction of travel has to be changed frequently.

Easily accessible servicing points for the diesel engine and hydraulic system, as well as an optional central lubrication system including telescopic head, reduce the maintenance complexity to a minimum.

Captions

liebherr-telescopic-handler-tl432-7.jpg

The new Liebherr telescopic handler TL 432-7 deployed in a sawmill.

liebherr-telescopic-handler-cabin-tl432-7.jpg

The driver cab of the new Liebherr telescopic handler is particularly spacious.

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