

Press Information

World première: Liebherr presents the new generation of articulated dump trucks

- **Digital product presentation: Liebherr unveils the new TA 230 Litronic within the framework of an online event**
- **New generation with specially developed components, sophisticated technology and modern design**
- **Convincing in every aspect – top quality right down to the finest detail**
- **Liebherr is now a full-liner in the earthmoving area**

Yesterday evening Liebherr-Hydraulikbagger GmbH unveiled the first representative of the new generation of articulated dump trucks within the framework of a digital product presentation. The TA 230 Litronic has been redeveloped from scratch on the basis of comprehensive market and customer analyses, designed with state-of-the-art technical implements and tested to the limits in extensive test phases according to the highest quality standards. The result: An excellent product with a new design, which represents maximum quality and reliability, impresses in terms of performance and efficiency and at the same time provides the utmost comfort.

Kirchdorf a.d. Iller (Germany), 30 October 2020 – With the introduction of the new generation of articulated dump trucks, Liebherr becomes a full-liner in the earthmoving area. Apart from a comprehensive product portfolio of earthmoving machines for diverse applications, a Liebherr dump truck is now available to customers with the new TA 230 Litronic.

The extremely robust, powerful and all-terrain machine is primarily designed for overburden transport and the mining industry. The articulated dump trucks are also a useful assistant for larger infrastructure projects. Thanks to their optimal structure gauge, they can also be used for special applications, such as tunnel construction.

New machine concept: Maximum performance in challenging off-road applications

The new TA 230 Litronic convinces with a clever machine concept, which has been developed specially for challenging off-road applications. New designs in the front end area

create maximum ground clearance for superb off-road performance. For example, in the TA 230 Litronic the powershift transmission is positioned safely and compactly under the operator's cab and the exhaust gas aftertreatment is safely installed behind the operator's cab in a space-saving manner, whereby a large slope angle could be generated.

The newly designed, solid articulated swivel joint creates excellent off-road capability: It allows independent movements of front and rear end, thus ensuring maximum manoeuvrability. The robust and positive-locking swivel joint with tapered roller bearing is perfect for the shear stresses arising during use, withstands maximum loads and provides optimal force distribution.

The front and rear axles of the machine are secured via sturdy A-rods at the articulated swivel joint and at the rear end. Also here the focus was on maximum ground clearance in the development: Both the front axle suspension with A-rods and shock absorbers at the articulated swivel joint and the position of the separate and oscillating A-rods of the rear axles at the rear end provide maximum ground clearance.

Powerful drive with maximum traction: Superb driving performance and combined pulling force

A powerful 6-cylinder construction machinery engine with 12 l displacement and 265 kW / 360 hp is installed in the new TA 230 Litronic, which complies with the requirements of exhaust emissions standard V. A robust and efficient drivetrain with automatic 8-speed powershift transmission ensures optimal force distribution. With the actively controlled longitudinal differential locks, automatic traction control is also available for the TA 230 Litronic: As soon as slip occurs at an axle, the torque is cleverly transferred to the axle or axles with traction. The new Liebherr dump truck impresses with an excellent driving performance and enormous pulling force, even in the most difficult ground conditions and on challenging gradients. Maximum safety is always guaranteed thanks to optimal adhesion.

Increased productivity: More material movement in a short time thanks to optimised trough

The large and robust trough of the new TA 230 Litronic is designed for the effective transport of a 28-tonne payload. Numerous improvements have been made for quick and efficient loading and unloading, as well as safe transport of the material. The front of the trough is straight and the sills are low so that loading with a wheel loader, for example, is easily possible across the entire length. A standard, innovative weighing system shows the current

payload during the loading process on the display in the operator's cab. An optional loading light on both sides at the back of the operator's cab shows the loading level outdoors.

In order to accelerate the release of the material during unloading, the inner edges of the new trough are tapered. Thanks to the optional trough heating with exhaust gas management, unloading can also be easily realised at cooler temperatures. The two tipping cylinders at the side give the TA 230 Litronic high tipping pressure. The load can be tipped against the slope easily and quickly. During transportation the long chute at the end of the trough ensures minimal material loss. The trough volume can be increased with the optional tailgate. Thanks to the large opening width, tipping of large and bulky transported material is easily possible. Even with the tailgate the overall width of the TA 230 Litronic is still below 3 m – this allows the machine to be easily and quickly transported on the low-loader.

Newly developed operator's cab and lighting concept: Optimal visibility and safety

The newly developed, spacious operator's cab of the TA 230 Litronic provides ideal conditions for comfortable and safe working. Thanks to the excellent panoramic windows without any annoying struts, as well as the short, inclined bonnet, the machine driver always has an optimal view of the driving, working and articulating area of the machine. A touch display with integrated rear camera also increases visibility in the rear area. In the soundproof cab ergonomically arranged control elements facilitate intuitive operation of the machine. Various trays and storage spaces greatly expand the spatial offering. The offset steps, as well as the large driver's door, also make possible convenient and safe access to the operator's cab.

The new lighting concept with LED headlights ensures improved visibility and safety – both for the machine operator and everyone in the outdoor area. For example, dipped-beam headlamps with integrated high beam illuminate the road and the extra powerful, optional LED headlights on the front of the can illuminate the entire working area. The lighting at the rear of the trough and another light package at the mudguards light up the manoeuvring areas at night. The modern LED design light provides additional visibility of the Liebherr dump truck and thus increased safety on the construction site. The new Liebherr dump truck also has an optional LED access light which provides extra safety when getting into the operator's cab.

Modern assist systems and adaptive steering system increase comfort and safety

The modern assist systems installed in the new TA 230 Litronic support the machine operator, thus increasing safety and comfort during operation. Apart from a hill start assist, a speed assist is also available. With the hard stop function, the end position damping of the trough lifting cylinders can be activated or deactivated at the touch of a button. The trough lift is limited for work in a height-critical area with the aid of the height limit.

The speed-dependent steering provides additional driving comfort: The adaptive steering system continuously adapts the ratio of the steering movements to the current speed. This makes possible easy and accurate manoeuvring at low speeds, but also accurate steering at higher speeds, as well as fewer steering corrections when cornering or taking bends.

Maintenance-friendly machine design

With the intelligent machine check-up and a service-oriented machine design, the new TA 230 Litronic boasts an optimised maintenance concept. The Liebherr dump truck automatically performs the daily check itself thanks to the clever sensor technology: The machine runs through an inspection catalogue at the start, where levels of engine oil, coolant, the central lubrication system, for example, are checked for the nominal state. Any deviations are shown on the display in the operator's cab. As a result, the daily set-up times can be reduced, costs can be saved and the durability of the components can be extended.

The electrohydraulic opening bonnet, as well as an integrated, folding ladder with non-slip steps, provide easy, safe and clear access to the entire engine compartment. All relevant service points are visible and easily accessible. Maintenance work can be performed comfortably and safely from a platform. Refuelling with fuel or urea solution is also done easily and safely from the ground.

Key performance data of the TA 230 Litronic in standard version at a glance:

- Empty vehicle weight: 24,600 kg
- Payload: 28,000 kg (metric tons)
- Max. trough capacity with tailgate: 18.1 m³
- Engine power (ISO 9249): 265 kW / 360 hp
- Exhaust emissions standard V
- Max. driving speed: 57 km/h (forward) / 16 km/h (reverse)

Pictures



liebherr-new-articulated-dump-truck-TA230-1.jpg

The new TA 230 Litronic articulated dump truck: An impressive comprehensive package with specially developed components, sophisticated technology and modern design.



liebherr-new-articulated-dump-truck-TA230-2.jpg

The new TA 230 Litronic is designed for challenging off-road applications and impresses with superb off-road capability, maximum traction and combined pulling force.



liebherr-new-articulated-dump-truck-TA230-3.jpg

Optimised trough shape: The front is straight and the sills are low so that loading with a wheel loader, for example, is easily possible across the entire length.



liebherr-new-articulated-dump-truck-TA230-4.jpg

Everything in view: The newly developed operator's cab with large glass areas without any annoying struts provides an excellent view of the front, sides and articulating area.

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