First CLAAS wheel loader with electric drive for up to 16 hours of battery capacity

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Available from 2026: TORION 537e SINUS from CLAAS with locally emission-free battery-electric drive

At Agritechnica 2025, CLAAS will be presenting the production-ready TORION 537e SINUS, a six-tonne class telescopic wheel loader with a locally emission-free battery-electric drive. It combines the outstanding features of SINUS steering with an innovative electric drive and will complement the product range in the material handling segment from 2026.

With the TORION 537e SINUS, CLAAS is presenting its first battery-electric

wheel loader at Agritechnica 2025. The machine, which is in the six-tonne class, combines the unique advantages of the SINUS series with a low-noise and locally emission-free electric drive, but offers the full performance of a comparable model with a conventional drive. These features make the TORION 537e SINUS particularly suitable for use in livestock farming, where a quiet and emission-free environment significantly increases animal welfare and productivity. Operators also benefit from the low noise emissions and locally emission-free technology - as well as easy maintenance of the drives.

The new TORION 537e SINUS will be available from 2026 and is particularly suitable for locally emission-free, low-noise use in livestock farming.

Long running time, short loader: Lithium-ion battery with onboard charger
In the TORION 537e SINUS, a battery-electric drive replaces the diesel engine and hydrostat of the otherwise identical TORION 537 SINUS. The lithium-ion battery with modular battery concept has a capacity of 32.2 kWh as standard and 64.4 kWh as an option at an average voltage of 322 V. During operation, this provides up to 30 kW for the ground drive and 15 kW for the hydraulic pump drive. In normal use, this enables running times of 8 to 16 hours, depending on the integrated battery capacity. When braking via the ground drive and when travelling downhill, the energy released is recovered by means of recuperation and fed back into the battery.

Depending on the on-board charger and available connected load, the battery is fully charged in just one and a half to three hours. The integrated on-board charging system also enables fast charging without an additional external device - for maximum charging flexibility and easy intermediate charging. The interface to the charger is easily accessible under a flap in the step-up area of the TORION 537e SINUS.

The lithium-ion battery with its modular design is available with either 32.2 or 64.4 kWh capacity. This allows for practical runtimes of up to 16 hours. The integrated onboard charging system enables fast and easy charging and intermediate charging.

Uncompromising charging performance

When it comes to performance parameters such as breakaway force and cycle times, the TORION 537e SINUS is just as uncompromising as its combustion-powered twin, the TORION 537 SINUS. With an operating weight of 5,910 kg, the breakaway force of the Z-bar kinematics is 48 kN. And thanks to the hydraulic pump with 75 l/min at 240 bar, the manoeuvrable loader completes the lifting, dumping and lowering cycles in 4.9 seconds, 1.7 seconds and 3.5 seconds respectively - which can be mixed well in the loading cycle thanks to the excellently tuned working hydraulics.

The unique SMART LOADING assistance system, which comes as standard, supports the operator with repetitive loading tasks. It precisely coordinates all functions that contribute to optimising the loading cycles. This includes lift height and programmable lowering height as well as automatic bucket return for accelerated and precise loading cycles.

The impressive loading performance is also enhanced by the electrics ground drive with immediate power release, rapid acceleration and maximum speeds of 20 km/h as standard, 30 km/h optional.

Manoeuvrable and stable thanks to SINUS steering

The maximum height of the bucket pivot point when the arm is fully raised is 3,215 mm.

The TORION 537e SINUS benefits from its unique SINUS steering when working in narrow passageways, barns and yards. The combination of articulated steering with a 30-degree angle of articulation and a co-steering rear axle with a maximum steering angle of 25 degrees results in a minimum turning radius of just 3,520 mm (outer edge of tyres). This steering concept also improves stability and results in a very favourable ratio of operating weight to tipping load (3,750 kg fully articulated and steered).

Quiet, comfortable and clear

Thanks to the electric drive, the TORION 537e SINUS is audibly quieter than its combustion-powered counterpart. However, at 65 db(A) in the cab, the wheel loader is not only pleasant to drive for the operator. The reduced noise emissions are also noticeable outside the cab.

The spacious, ergonomic comfort cab offers the best working conditions thanks to an ergonomic workplace and plenty of head and legroom. All-round visibility is excellent thanks to the generous window areas. The height-adjustable terminal with touch display to the right of the operator enables a quick overview of all machine and process-relevant data. While the lithium-ion battery is charging, the terminal displays the percentage of the charging process and a charging time forecast, allowing work to be optimally planned.

Machine and process management in CLAAS connect
Users of the TORION 537e SINUS have mobile access to the machine's location and machine parameters via an existing or new CLAAS connect ID. In addition, the maintenance history is documented in CLAAS connect, and service work can be planned proactively and efficiently together with the responsible CLAAS service and sales partner. The stored digital operating instructions, the lubricant guide for the right oils and greases and access to the CLAAS Parts Shop with the guaranteed correct wear and spare parts save time and simplify machine management and everyday work.

The key features of the TORION 537e SINUS at a glance:

- *Low-noise and locally emission-free electric drive.*
- *Lithium-ion battery with 32.2 kWh as standard and 64.4 kWh as an option for 8 to 16 hours of operation without recharging.*
- *On-board charger for flexible charging.*
- *Full battery charge possible in 1.5 to three hours depending on the available connected load and battery size (400 V charging network with 16 - 32 A).*
- *Two-to-one power output: 30 kW for the ground drive, 15 kW for the hydraulic drive.*
- *Max. 30 km/h driving speed for rapid repositioning.*
- *SINUS steering with articulated steering and co-steering rear axle combines manoeuvrability with maximum stability and a high tipping load.*
- *Powerful and perfectly tuned working hydraulics for fast loading cycles.*
- *SMART LOADING assistance system for repeatable loading cycles.*
- *Quiet and ergonomic cab with excellent all-round visibility.*
- *Touch terminal in the cab for machine and process information as well as loading time forecast and loading status display.*
- *Machine management in the CLAAS connect cloud - with digital operating instructions, lubricant guide and interface to the CLAAS*

Parts Shop for ordering spare and wear parts.

About CLAAS

Founded in 1913, the family-owned company CLAAS (www.claas.com) is one of the world's leading manufacturers of agricultural machinery. Headquartered in Harsewinkel, Westphalia, the company is the world market leader in forage harvesters. CLAAS is also the European market leader in another core segment, combine harvesters. CLAAS is also a world leader in agricultural technology with tractors, agricultural balers and grassland harvesting machinery. The product range also includes state-of-the-art agricultural information technology. CLAAS employs 12,000 people worldwide and achieved a turnover of 5 billion euros in the 2024 financial year.

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