Number 12/2024

****

**Presse Information.**

Press Release.

Linde MH launches innovative electric counterbalanced trucks with load capacities up to 2.0 tons

**New variety of forklifts designed for application-specific performance and productivity**

**Aschaffenburg, November 6, 2024 – Linde Material Handling (MH) is setting the course for the future: The logistics specialist is replacing its existing range of electric forklifts with a total of 26 new three- and four-wheel truck models with load capacities ranging from 1.0 to 2.0 tons. The new trucks have been designed to offer significant enhancements in ergonomics and performance. In particular, the models with integrated lithium-ion batteries make a significant contribution in this regard.**

The largest market segment of all industrial truck classes is comprised of three- and four-wheel electric forklifts with a load range of up to two tons. These versatile vehicles are an indispensable asset in a multitude of settings, including beverage stores, distribution centers, food production facilities and the building materials trade. Additionally, they are well-suited for use in metalworking shops, chemical production facilities, paper manufacturing plants and woodworking operations. Applications are extensive, encompassing everything from just a few transport jobs per day to demanding multi-shift operations with loads that are constantly at the maximum load limit. In other applications, the trucks must operate in confined spaces and contend with challenging environmental conditions such as extreme temperatures, dust and dirt.

To meet a wide range of customer requirements, the new electric counterbalanced trucks are available in an unprecedented variety of models, with load capacities ranging from 1.0 up to 2.0 tons, three or four wheels, and a choice between integrated lithium-ion and trough batteries. All vehicles can be tailored to provide the ideal performance for their intended use, with the highest possible capacities if required, and feature an ergonomic workplace. “Linde MH is once again setting the benchmark for this crucial industrial truck sector. Thanks to new technologies and optimized vehicle design, we can now meet our customers’ demands for high-performance, energy-efficient, comfortable and safe vehicles even better than before,” said Torsten Rochelmeyer, Senior Director Strategy & Solution Portfolio at Linde Material Handling, at the product launch event.

**Two different versions: Linde Xi and Linde E**

The latest 12 models in the Linde Xi range feature an integrated lithium-ion battery and load capacities of between 1.0 and 2.0 tons, offering unparalleled performance and an extended range of applications. An additional 14 variants upgrade the existing standard electric forklifts, the Linde E14 to E20, with load capacities of 1.4 to 2.0 tons and a trough battery. Operators have the option to switch between lead-acid or lithium-ion batteries according to the plug-and-play principle or continue using existing batteries. Furthermore, the E-models have been designed to accommodate fuel cell technology.

**Performance at its best**

The Linde Xi10 to Xi20 models have seen a notable increase in efficiency in everyday use, largely due to the combination of a 90-volt lithium-ion battery and a synchronous reluctance motor. The truck can reach 20 km/h in minimal time and offers lifting and lowering speeds that are up to 20 percent higher than the average for competitor trucks. A corresponding thermal management system ensures that the full motor power is consistently available, even under heavy loads and in continuous operation. “In terms of performance, the new forklifts represent a considerable improvement over previous models and also clearly raise the bar in comparison to the competition,” states Torsten Rochelmeyer. In the Linde E14 to E20 models, Linde MH relies on proven 48-volt lithium-ion battery technology and maintenance-free asynchronous motors to achieve a high level of performance.

**Driver-focused: User-friendliness creates an attractive workplace**

“It is becoming increasingly difficult to fill vacancies in logistics and warehousing,” says portfolio manager Rochelmeyer, describing the growing shortage of personnel in this area. “The new Linde electric forklifts are therefore a real advantage for human resources managers in their efforts to recruit and retain employees. The spacious workplace delivers on its promise: Our development engineers have designed these vehicles with the specific needs of the truck drivers in mind and created a product that will optimally support them.” This is particularly evident in the Linde Xi10 – Xi20 trucks. The integrated lithium-ion battery has provided the engineers with additional flexibility. As a result, the entry step is significantly larger and lower, and the footwell is approximately 30 percent larger than is typical in this vehicle class, providing additional space for movement. Furthermore, all electric truck versions offer additional headroom. Torsten Rochelmeyer refers to this as a genuine space marvel, noting that even individuals of considerable height can operate the vehicle with comfort and ease. The new heating system also represents a unique selling point in the industry. The adjustable vents positioned around the driver’s workplace and the 60-percent improvement in heating performance compared to previous models create a comfortable climate in the cabin, even at cold outside temperatures. To compensate for high temperatures, the forklifts can be equipped with an optional air conditioning system. Its integration into the driver’s overhead guard is a first for the industry. Another significant contributor to comfort is the damping and decoupling technology integrated into the axles and lift mast. These features effectively reduce shocks and human vibrations, thereby ensuring physical relief and maintaining the driver’s health while preventing rapid fatigue. Both the standard 3.5-inch display and the optional 7-inch display are consistent with current interior standards in the automotive industry, providing the driver with a comprehensive range of information. The list of optional extras includes another industry-wide unique selling point, the Linde Steer Control. Optionally, a mini-wheel or a joystick can be fitted instead of the classic steering wheel. With the left arm resting on the armrest, drivers can steer the trucks with minimal movements using only their fingers, which provides additional relief.

**Occupational safety a major focus**

The topic of safety is another key priority. An increasing number of forklift functions, available either as standard or optional features, ensure a high level of protection for drivers and their working environment. The Linde Load Assist system, which automatically adjusts lifting and tilting functions according to the weight of the load and lifting height to prevent tipping accidents, is installed in the new trucks as standard. Should the vehicle be fitted with a cabin, electronic safety belt monitoring can be integrated with a door monitoring system. Through software configuration, the service technician can determine whether the seat belt must be worn even when the door is closed or if it is sufficient for the driver to either close the door or fasten the seat belt. The Linde Reverse Assist Radar, the latest safety assistance equipment available exclusively from Linde, can be utilized when necessary. It is designed to detect both moving and static objects behind the truck and, in the event of potential danger, will rapidly apply the brakes to bring the vehicle to a safe stop. Finally, the AI-based safety assistance systems Linde Reverse Assist Camera and Front Assist Camera help to ensure accident-free logistics. The camera systems integrated into the vehicle display are capable of distinguishing between people and objects and can actively intervene by reducing the speed of the truck in the event of danger.

**Networking as a key factor in achieving further efficiency gains**

Digitization and the seamless networking of processes are also contributing to higher productivity. Wireless data transmission between the truck control and cloud-based applications on a data-protected server enables both predictive maintenance and software updates over the air. Further efficiency increases are anticipated by way of integrating the forklift trucks into digital process chains with warehouse management and forklift control systems.

**Linde Material Handling GmbH**Linde Material Handling GmbH, a KION Group company, is a globally operating manufacturer of forklift trucks and warehouse trucks, and a solutions and service provider for intralogistics. With a sales and service network that spans more than 100 countries, the company is represented in all major regions around the world.

**Press contact:**Heike Oder: +49 (0) 6021 99-1277 – E-mail: [heike.oder@linde-mh.de](mailto:heike.oder@linde-mh.de)

****

**Presse Information.**

Press Release.

**Images and captions:**



Image no. 4669\_3085\_CX.jpg

**They are ready to take in-house goods handling to the next level: the new compact electric counterbalanced trucks from Linde MH with load capacities ranging from 1.0 to 2.0 tons.**



Image no. 4669\_2887\_CX.jpg

**A wide range of models, exceptional performance, outstanding ease of use: The new electric forklifts from Linde MH in the 1.0- to 2.0-ton load range are the first to include models with an integrated lithium-ion battery.**



Image no. 4668\_208\_CX.jpg

**The new E and Xi models in Linde MH’s new electric forklift truck series comprise a total of 26 new three- and four-wheel models in the 1.0- to 2.0-ton load range.**



Image no. 4670\_667\_CX.jpg

**In the cabins of the new Linde electric forklift trucks, forklift drivers can expect even more operating comfort, optimized visibility in all directions and helpful assistance systems.**



Image no. 4668\_178\_CX.jpg

**The right solution for every application – that’s the promise of the new Linde MH electric counterbalanced trucks in the 1.0- to 2.0-ton load range.**



Image no. 4671\_3518\_CX2.jpg

**Developed for use in a wide range of applications across various industries: the new electric counterbalanced trucks from Linde MH with load capacities ranging from 1.0 to 2.0 tons.**



Image no. 4680\_9852\_CX.jpg

**The spacious workplace of the new electric forklift trucks from Linde MH provides ample room even for taller individuals.**



Image no. 4681\_0903\_CX.jpg

**The new electric counterbalanced forklift trucks from Linde MH feature large viewing windows, providing excellent visibility even when reversing.**

You can find this photo in printable resolution for download on:

[Press releases overview (linde-mh.de](https://www.linde-mh.de/de/Ueber-uns/Presse/))

Photo: Linde Material Handling GmbH

Released for publication.