



Press release

Kramer presents the first fully electric all-wheel drive wheel loader with 80-Volt technology

(Pfullendorf, January 2016). There are currently no fully electric wheel loaders on the market in the size class of the 5055e. The loader convinces with its performance parameters, the off-road capability and the freedom from emissions. So the customer has a choice — fully electric or diesel drive system.

Working with diesel-powered vehicles in buildings or tunnels poses the particular challenge of providing fresh air to the construction site. Exhaust fumes and particles have to be removed so that there are no health dangers for the employees. Expensive and large exhaust systems must be purchased and maintained or rented for this purpose. Due to the fully electric drive system of the Kramer 5055e, it is possible to perform fully emission-free work indoors. Both the end user and the environment are spared, due to the lack of emissions and the extremely low noise level. The 5055e not only scores here with its environment-friendly aspects, but also with its high economic efficiency.

The initially high overhead costs are soon amortised through significantly lower variable costs (fuel costs, service costs, etc.). As with all machines and vehicles, the usual maintenance intervals must be met. The maintenance of the engine, however, is not applicable and the machine service is therefore correspondingly shorter as well as lower priced. In addition, the price advantage of electricity compared to expensive fuel is also used to save more costs.

The 5055e represents a new class of vehicle – there are currently no fully electric wheel loaders on the market yet in this size class. The goal is to meet particular customer needs and to offer a fully electric wheel loader with the same performance parameters. So the customer has a choice — fully electric or diesel drive system. Like the diesel-powered 5055, the new 5055e is also delivered with a bucket capacity of 0.55 cubic metres.



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Performance parameters, off-road capability and operating comfort all correspond to the features of a conventional Kramer diesel wheel loader. Kramer places great value on co-ordinating the vehicle with a great deal of power in the loading system and a finely metered drive system. One electric motor is installed for the drive system that provides a high level of performance with good resolution.

The second electric motor regulates the work hydraulics. Depending on the requirement on the wheel loader and its area of application, the power is claimed from the respective motor. This helps to regulate and reduce the energy consumption. The hydraulics of the 5055e is comparable in performance to that of a diesel-powered machine. However, the hydraulic performance is made available tailored-to-suit via the second electric motor with the 5055e. In this way, the 5055e achieves a higher degree of efficiency and achieves a higher performance with lower costs.

The lead-acid batteries, which are time-tested and proven in the forklift industry, are used with the Kramer 5055e. Depending on the area of application and utilisation of the wheel loader, one battery charge therefore suffices for a work application of up to six hours.



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About the company Kramer:

Kramer-Werke GmbH is a medium-sized manufacturing company that places great value on its own research and development. Compact wheel loaders, tele wheeled loaders and telehandlers are sold under the brand name Kramer in the construction industry, agriculture, gardening and landscaping, municipalities, rental parks and recycling companies. All products made by Kramer are characterised by advanced technology and the highest quality. With the typical Kramer all-wheel steering, the company is a market leader in Europe. Kramer-Werke GmbH is an affiliate of Wacker Neuson SE.