

1390e



WEIDEMANN
designed for work



Think Electric.

The Hoftrac® 1390e with lithium-ion battery.

Electric, emission-free and still innovative.

CO₂ exhaust emissions, noise and soot particles in buildings — a thing of the past! With the electric 1390e you can work just the same. And even the neighbours will rejoice over such a machine on your farm!

This matter is deep-rooted in Weidemann tradition: Already in 2015, we successfully produced electrically powered Hoftrac® as standard. Many of our customers consciously selected the aforementioned benefits and would not do without these machines in their day-to-day working life.

For the 1390e, Weidemann also has a cabin on offer - ideal for all-year-round application. The 96 Volt lithium-ion battery is selectively available in three power ratings so that the running and charging times can be ideally attuned to your working requirements.

Low operating costs.

The running energy costs of a machine with diesel drive are considerably higher than those of an electrically driven machine. The higher acquisition costs of the eMachine are recouped after some time and therefore this represents a more economical investment throughout the period of use.

Always the right running time.

Depending on the size of the battery, it is possible to achieve a running time of up to 5.3 hr with uninterrupted operation. In doing this, the running times of the battery are dependent on the respective application conditions, the work task and the driving style. This can also mean that essentially a longer running time can also be achieved.

Trailer operation.

With the optional trailer coupling, the 1390e can tow a trailer of up to 3.5 t total weight. There is also an automatic or a ball hitch K50 trailer coupling available. The option to tow a trailer extends the application range of the machine and provides more flexibility in use as no additional vehicles are required.

Selectable operator's cab.

Coordinated with different application purposes, we provide a suitable selection of different operator cabs for the 1390e: Fixed operator's canopy, hinged operator's canopy eps (Easy Protection System) and cabin.

Simple loading options.

The central charging flap is easily accessible from the outside. Behind this, you will find the socket, the activation switch and the charge indicator. You will receive the charging cable (type 2 plug on the machine, familiar from the automotive sector), including the control box, with a number of different plugs: 230 V / 10 A Schuko, 230 V / 16 A CEE (blue, 3-pole), 400 V / 16 A CEE (red, three-phase, 5-pole), 400 V / 16 A (type 2 socket wall box, IEC 62196) and other adapter sockets. All things considered, the flexible charging system provides you with an efficient and safe charging procedure.



Battery Management System (BMS).

The lithium-ion battery is optimally monitored optimally by the applied electronic system. The BMS also enables clearly increased charging currents, a short-term provision of performance peaks and permanent temperature monitoring. Also, the battery is always pre-warmed to the optimum operating temperature. The BMS thus increases the efficiency and safety of the battery and excludes the possibility of deep discharge.

THINK ELECTRIC 1390e



With its great provision of space, the new comfort cab of the 1390e is pioneering in the Hoftrac® sector. It has been optimised to the needs of the operator, provides lots of new features and enables safe and comfortable working conditions:

- 4-pillar design and panoramic rear windscreen for the best all-round visibility.
- Selectable one-piece doors or two-piece doors with adjustable windows with possible gap ventilation. Electrically heated front and rear windscreen for optimal visibility in any weather.
- Optional roof panel heating for comfortable warmth, which radiates the operator from above.
- Good ventilation, even without air conditioning. Door the right and left is adjustable for gap ventilation. Door to the right and left adjustable by 180°.
- Cabin suspension with hydro-mounts optimally protects the operator against impacts and vibrations.
- Optimised entry with anti-slip steps ensures safety upon entry and exit.
- New interior: colour-oriented operating concept and ergonomically arranged display enable safe and comfortable working conditions.
- Steering wheel that is adjustment in height and incline enables ergonomic working conditions for every operator.
- Multi-functional joystick with many functions, familiar from larger wheel loaders.
- Radio preparation (FM/DAB+), USB connection, mobile phone holder, sun blind, drinks holder and diverse storage compartments.



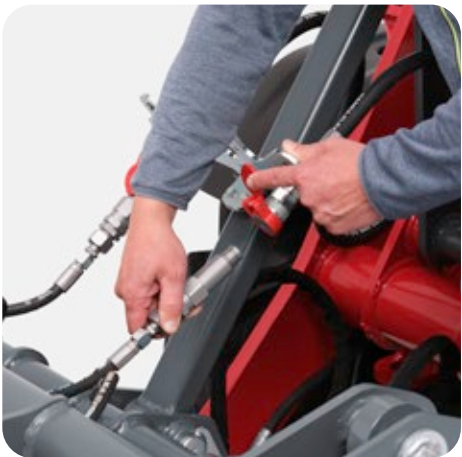
Needs-based performance.

Two separate electric motors are used in the machine: one for the drive and one for the drive system of the work hydraulics. This minimises the power consumption, because the performance is only drawn when it is really needed. The electric motor for the drive also allows a dynamic and powerful start-up of the machine. This can be felt in every acceleration process.



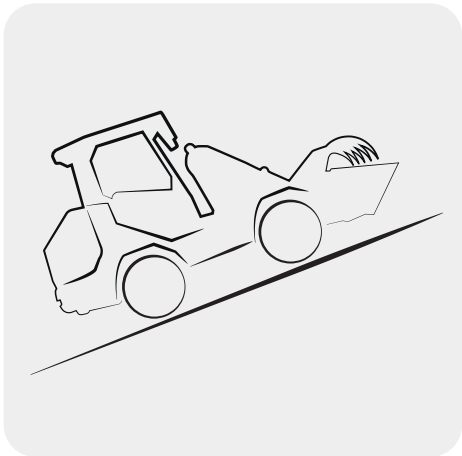
Powerful lithium-ion battery.

You can select the appropriate battery size depending on your field of application and purpose. There are three maintenance-free lithium-ion batteries available: Standard is 14.1 kWh, optionally available are 18 kWh and 28 kWh. In addition to this, there is a 3 kW on-board battery charger installed. A second 3 kW on-board battery charger can be optionally selected to increase the charging capacity to a total of 6 kW, which is suitable for medium and large batteries to achieve a fast charge time.



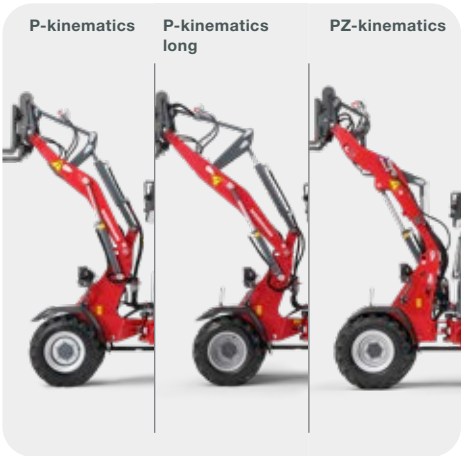
Flat-face hydraulic couplings.

The standard installed flat-face hydraulic couplings can be cleaned easily and ensure less contaminants in the whole hydraulic system. When coupling the hydraulic hoses, there is rarely a leak; therefore hands, machine, attachment and the ground remain clean. With the flat-face hydraulic couplings it is possible to couple attachments under pressure, which saves time. All coupling types are connected to the same bulkhead and are therefore easily accessible.



Electric parking brake.

The electric parking brake provides both an auto-hold as well as hill-hold function. The brake automatically activates if the machine stands still, the direction of travels is set to neutral or the operator leaves the seat. Likewise, the parking brake is automatically released if the machine is put into gear using the accelerator. Naturally, the brake can likewise be manually activated and deactivated by operating a switch. Also, the brake system enables gaining back the so-called recuperation energy, which also extends the machine's running time.



Perfectly matched kinematics.

With all machines, Weidemann provides the right kinematics for the size of the machine. As standard for the 1390e, P-kinematics has been installed, which is characterised by precise parallel guidance via the whole hub area. A longer performed version of P-kinematics is also optionally available, which increased the lift height by 20 cm. The P-Z kinematics is also optionally available and is a combination of P-kinematics and Z-kinematics. It allows significant lifting and shearing forces and has a finely co-ordinated parallel motion in the process.



Comprehensive lighting package.

The lighting can be adapted to various requirements: LED work lights (standard, 1,000 lumen), lighting according to Road Traffic Regulations (StVZO) (halogen or LED), Performance LED work lights (2,000 lumen), rotating beacons (LED, optionally magnetic) and rear blue safety light. This enables the option to work with the machine in the dark with it individually customised. Good illumination of the working area increases work safety and allows the operator to work with concentration with the machine for a longer time.

Technical Data and Dimensions.		1390e		
ELECTRIC MOTOR		33.1		
Motor drive system (ECE R085) kW		21.2		
Motor work hydraulics (ECE R085) kW				
BATTERY		Lithium-ions		
Battery type		96		
Battery voltage V				
		Standard battery	Optional battery	Optional battery
Battery capacity (gross) kWh		14.1	18	28
Charging time (from 0% to 100%) hr		4.7 – 6*	3.2 – 7.5*	5.5 – 11.5*
Best possible charging time (from 20% to 80%) hr		2.9*	1.8*	2.7*
Running time (uninterrupted) hr		until 2.5**	until 3.5**	until 5.3**
WEIGHTS		2,700 – 3,200***		
Operating weight kg		1,670 – 2,280***		
Tipping load with bucket - machine upright, loading frame horizontal kg		1,410 – 2,020***		
Tipping load with bucket - machine pivoted, loading frame horizontal kg		1,370 – 1,870***		
Tipping load with pallet fork - machine upright, loading frame horizontal kg		1,160 – 1,660***		
Tipping load with pallet fork - machine pivoted, loading frame horizontal kg				
VEHICLE DATA		0 – 15 (20, 25)		
Travel speed (optional) km/h		30		
Tank capacity hydraulic oil l				
HYDRAULIC SYSTEM		44		
Work hydraulics flow rate (max.) l/min		210		
Work hydraulics working pressure (max.) bar				
DIMENSIONS		10.0/75 – 15.3 AS ET40		
Standard tyres		4,475 – 4,820***		
Overall length incl. bucket mm		2,340		
Height of operator's canopy mm		2,395/1,910		
Height of fold-down operator's canopy eps mm		2,340		
Cabin height mm		3,024 – 3,220***		
Max. height of bucket pivotal point mm		1,124		
Total width mm		1,526 – 1,815***		
Inner radius mm				
FSD = operator's canopy eps = Easy Protection System (fold-down operator's canopy)				
*The charging time depends on the different charging options. On-board battery charger 3 kW (standard), with additional on-board charger overall 6 kW (option). The following charger plugs are available: 230 V / 10 A Schuko, 230 V / 16 A CEE (blue, 3-pole), 400 V / 16 A CEE (red, three-phase, 5-pole), 400 V / 16 A (type 2 plug wall box, IEC 62196) and other adapter plugs.				
**The running times of the battery are dependent on the respective application conditions, the work task and the driving style. This can also mean that a longer running time can also be achieved. The specified running times can also be fallen short of in extreme cases. The specified running times relate to uninterrupted operation and work with the machine.				
***With optional equipment				
More information can be found at www.weidemann.com				



WEIDEMANN
designed for work

The Weidemann product range.



The multifunctional Hoftrac®.
Powerful helper for every application.



The powerful wheel loader.
Available either with load arm or telescopic arm.



The compact telehandler.
Aim high with optimal stability.



Attachments and tires.
Your Weidemann machine becomes a multi-tool!
The optimal attachment and the right tyres for every task.



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