

24e



THE INNOVATIVE ELECTRIC LOADER

- **100 % emission-free:** no exhaust fumes, no noise
- **Efficient high-voltage technology,** hydraulics and drive each powered by their own electric motor
- **Power battery system with a capacity of 15.65 kWh or 31.3 kWh:** hours of normal use, maintenance-free.
- **On-board charger with type 2 charging socket for charging from a 230 V socket (3 kW) or a wallbox (11 kW).** 80% battery charge with the wallbox in just 2.2 hours (31.3 kWh battery) or 1.1 hours (15.65 kWh battery).
- **Battery life warranty:** 5,000 operating hours or 5 years, whichever comes first
- **Energy recuperation:** automatic charging of the battery, e. g. during braking processes
- **Significant savings:** reduced maintenance costs and lower operating costs compared to diesel machine or other battery concepts, due to better efficiency
- **No memory effect:** recharging possible at any time
- **Safe temperature regulation:** reliable water cooling of the entire system
- **20 km/h:** the only battery-powered wheel loader with a top speed of 20 km/h
- **Hill-Hold function:** 'start up assistant' to make hill starts easier

Li-Ion



MADE BY
Schäffer

Schäffer offers a programme with more than 30 different models, each adapted to your needs. Our loaders' range of operations is versatile: whether in agriculture or construction, gardening and landscaping, industrial and commercial applications, in stabling or warehouse management – Schäffer is always your best choice.

The way Schäffer loaders are developed, produced and serviced is unique. The real difference is our experience of more than 60 years. We think of the end user first, because we seek to make your job safer, more comfortable and more profitable. Additionally, at our Erwitte location in Germany we rely on state-of-the-art development and production technologies. Ultimately, it is our employees who continuously develop new solutions, in close contact with the end user. Years of company service together with an enduring spirit form the basis for the special competence and for our global success.

The Schäffer name does not just mean unique product quality. It also stands for safety and optimal service that we guarantee both in Germany, Europe and around the globe.

YOUR DEALER:

Purchasing a Schäffer loader is the beginning of a long-term relationship. Your machine will only remain a 100% genuine Schäffer if you use original replacement parts. Only then will it guarantee the reliability you need, and have the right to expect. We offer you and our service partners a 24 hour delivery service – 7 days a week, 365 days a year.



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Schäffer



ELECTRIC LOADER

Emission-free, powered by lithium-ion technology

All technical specifications in this prospectus refer to serial models and describe their standard functions. The equipment components and their functions as well as the accessories depend on the individual model and the product options and also on the country and customer specific requirements. Images may contain products or equipment components which are not mentioned or cannot be obtained as a standard. The descriptions, measurements, images, weight specifications and technical data correspond to the state of the art at the time of printing and are non-binding. We reserve changes in the field of construction, equipment, optics and technology without prior notice, due to the continuous development of the products. In case of doubts concerning the performance or the mode of operation of our products due to special circumstances, we recommend the execution of work samples under controlled conditions. We cannot exclude deviations from images or measurements, calculation errors, printing errors or incompleteness in the prospectus despite all due care. We do therefore not accept any liability for the correctness and completeness of the specifications in this prospectus. We do guarantee the proper functioning of our products within the scope of our General Terms and Conditions. Any guarantees that go beyond these are on principle not provided. Any liability beyond the ones set out in our General Terms and Conditions is excluded.

24e

Low operating costs,
quick payback!

WORKING WITHOUT NOISE AND EXHAUST GASES, EVERYWHERE AND AT ANY TIME OF THE DAY

The new electric wheel loader 24e delivers emission-free operation, which means exhaust gases are now a thing of the past. This is a significant advantage in emission-sensitive areas. When it comes to demolition work inside buildings, in underground garages or in greenhouses, you can be confident that the driver and other employees can enjoy clean air - despite the use of a powerful wheel loader.

Noise pollution is dramatically reduced too as the 24e offers almost noiseless work, ideal for residential areas and city centres, in zoos, parks and cemeteries as well as in regions with a high proportion of tourism at any time of the day. The 24e is a future-proof purchase as you will be perfectly prepared to tender for jobs where machines without combustion engines are required.

The power of the machine corresponds to that of a 45 HP diesel loader that belongs to the 0.5 m³ class. Thanks to its low operating weight of 2,215 kg, the electric loader can easily be transported from one construction site to the next on a car trailer. Of course, existing tools can be used on the 24e.*

As the only electric loader to reach a speed of 20 km/h and with the fast acceleration typical of electric vehicles, the new 24e is a pleasure to drive and has everything you need to power through the work.

* hydraulically driven attachments require separate oil cooling on the attachment.

24e as standard

- Electric motor drive: 21 kW; electric motor working hydraulics: 9.7 kW
- Low version front carriage for best lifting force
- Electric four wheel drive with cardan shaft
- Li-Ion battery pack, 240 V / 15.65 kWh (31.3 kWh on option)
- On-board charger with type 2 connector enables charging at a 230 V power outlet (3 kW) or a wallbox (11 kW)
- Battery management system
- Energy recuperation
- Hill-Hold funktion: 'start up assistant' to make hill starts easier
- Tyres 10.0/75-15.3 MPT, offset +40
- 20 km/h
- Eco mode to extend the operating time
- Genuine Schäffer axle, 6 hole
- Water cooling of electric motors
- Multiple disk brake, maintenance free; service and parking brake
- Maintenance free articulated pendulum joint
- Restraining system for protection roof
- LED working headlights on protection roof version: 1 x on the boom; cabin version: 2 x front, 1 x rear
- Acoustic reverse warning signal (can be switched off)
- Parallel lift
- Electronically operated additional controller
- SilencePlus gear pump, especially quiet
- Working hydraulics: 42 l/min
- Adjustable steering column
- Hour meter, range display and charging status display
- Counter weight 100 kg mounted under rear chassis
- Rear weight end plate
- Main battery switch
- Tool Box
- Driver-on-board switch
- Quick-change frame SWH with hydraulic tool lock



MAXIMUM EFFICIENCY – MINIMUM CHARGING TIMES THANKS TO INNOVATIVE LITHIUM-ION TECHNOLOGY

When developing the 24e electric loader, achieving maximum energy efficiency alongside emission-free operation was of real importance.

All components of the drive system are perfectly matched to the electric drive. Together with the lithium-ion battery, the loader achieves an efficiency about three times as high as that of a comparable diesel engine. This means that only one third as much energy is needed to operate the machine. Maintenance of the electric motors and battery takes considerably less effort too, which further reduces the costs per operating hour.

The use of lithium-ion technology makes the 24e a real innovation. The customer receives a guarantee of 5,000 operating hours or five years of use, whichever comes first.

With the help of the standard type 2 plug and an 11 kW wallbox, the large battery pack can be charged to 80 % in just 2.2 hours. With the small package, this time is halved. Alternatively, it can also be charged using 230 V / 3 kW household power.

The battery can be charged at any time without affecting the battery lifetime – another advantage of lithium-ion technology.



TECHNICAL DATA DIMENSIONS

		24e
Engines	Drive: 21 kW Working hydraulics: 9.7 kW	
Drive unit	4-wheel-drive, fully electric	
Battery	Lithium-Ion, 240 V; 15.65 kWh or 31.3 kWh	
Charging system	On board charger, 3 kW/230 V/16 A Option: wallbox, 11 kW	
Tyres	10.0/75 - 15.3 MPT / AS Option I 27x10.5-15 Option II 31x15.5-15	
Service braking system	Multi-disc brake running in oil bath	
Parking brake		
Working hydraulics Output/pressure	Delivery rate: 42 l/min Operating pressure: 180 bar	
Steering	Fully hydraulic articulated/swivel steering	
Operating weight	2,215 / 2,280 kg with cabin	
Lifting capacity	1,900 kg	
Tipping load, straight ¹⁾	Pallet fork 1,610 - 1,749 kg Bucket 1,690 - 1,935 kg	
Tipping load, articulated ¹⁾	Pallet fork 1,140 kg Bucket 1,470 kg	
Payload	Pallet fork, even ground ²⁾ 912 kg Pallet fork, uneven ground ²⁾ 684 kg Bucket ³⁾ 735 kg	
Axles	Original Schäffer axles, 6 wheel nut rim	
Speed	20 km/h	
Electric system	Operating voltage: 12 V	
Fill quantities	Hydraulic oil: 15 l	
Specific gravity of material	1.6 t/m ³	
Bucket capacity ⁴⁾	0.45 m ³	
Recommended bucket width	1.3 m	
Sound pressure level LpA	64 dB(A)	
Sound power level guaranteed LwA equivalent LwA	99 db(A) 90 db(A)	
Hand/arm vibration ⁵⁾	< 2.5 m/s ²	
Total body vibration ⁵⁾	< 0.5 m/s ²	

¹⁾ acc. to ISO 8313 ²⁾ acc. to EN 474-3 ³⁾ acc. to ISO 14397-1 ⁴⁾ acc. to ISO 7546 ⁵⁾ acc. to ISO 8041
Tyre dimensions and additional equipment can change the deployment weight, tilting load and bucket capacity.

		24e
A	Wheelbase [mm]	1,755
B	Chassis length [mm]	3,320
C	Overall length with standard bucket [mm]	4,045
D	Digging depth [mm]	105
E	Max. working height [mm]	3,230
F	Max. bucket pivot point [mm]	2,500
G	Loading height with pallet forks [mm]	2,360
H	Max. dumping height [mm]	1,700
I	Front end height [mm]	1,490
J	Dumping width [mm]	260
K	Seat height [mm]	1,160
L	Overhead guard height [mm] Height with cabin [mm]	2,190 2,140
N	Overall width [mm]	1,020 - 1,570
O	Inner turning radius [mm]	1,310
P	Outer turning radius [mm]	2,330
Q	Outer radius with standard bucket [mm]	2,710

