



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 13.4 kWh:** hours of normal use, maintenance-free.
- **Two charging options: on board system, 230 V / 16 A or external system, 400 V / 32 A:** power battery pack can be charged up to 80 % in as little as 45 minutes!
- **Battery life warranty:** 5,000 charging processes 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 

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.



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.

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.



YOUR DEALER:

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Schäffer

24e

ELECTRIC LOADER

Emission-free, powered by lithium-ion technology



0.5/18.22/110. Technical changes reserved. Dimensions are approximate. In some cases, illustrations show models with custom designs.



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.

A FLEXIBLY DESIGNED CONCEPT

Two battery capacities and two charging options offer flexibility for daily use.

1. The 24e is equipped with two lithium-ion battery packs. They work with a voltage of 260 V at a capacity of 6.7 kWh each. The operating time is up to five hours under normal use.
2. The on-board charger fitted as standard enables the battery to be charged using a 230 V / 16 A Schuko plug. The charging time is approx. four hours (80 %).
3. Alternatively, the battery can be charged by an external charging system with 400 V / 32 A power current. The charging time is just 45 minute to charge to 80%!



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 charging cycles or five years of use, whichever comes first.

Two charging systems promise additional flexibility: An on-board charger comes as standard, which is operated with a standard 230 V power supply. Add an optional 400 V external charger for even faster charging – the power battery system is charged to 80% in just 45 minutes. This means enough energy for the entire working day with a quick charge, for example during a lunch break. The battery can be charged at any time without affecting the battery lifetime – another advantage of lithium-ion technology.

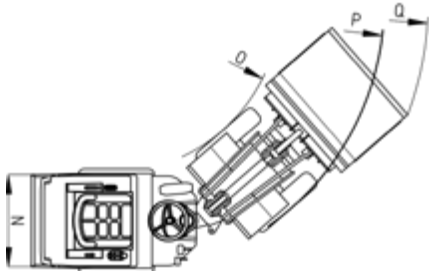
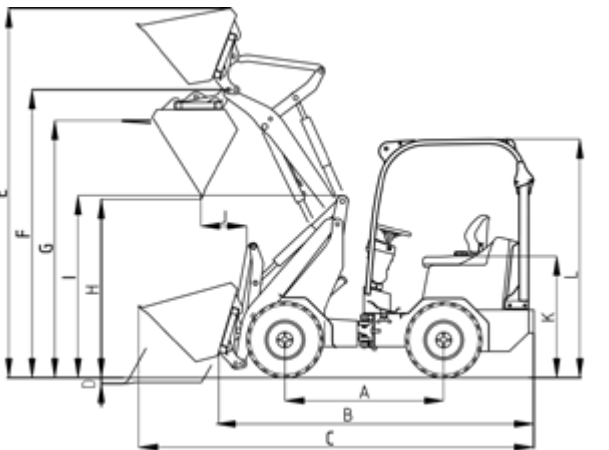


TECHNICAL DATA DIMENSIONS

24e		
Engines	Drive: 21 kW Working hydraulics: 9.7 kW	
Drive unit	4-wheel-drive, fully electric	
Battery	Lithium-Ion, 260 V; 13.4 kWh	
Charging system	On board charger, 3 kW/230 V/16 A Option: ext. charging system, 15 kW/400 V/32 A	
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 Bucket	1,610 - 1,749 kg 1,690 - 1,935 kg	
Tipping load, articulated ¹⁾ Pallet fork Bucket	1,140 kg 1,470 kg	
Payload Pallet fork, even ground ²⁾ Pallet fork, uneven ground ²⁾ Bucket ³⁾	912 kg 684 kg 735 kg	
Axles	Original Schaffer axles, 6 wheel nut rim	
Speed	20 km/h	
Electric system	Operating voltage: 12 V	
Fill quantities	Hydraulic oil: 12 l	
Specific gravity of material	1.6 t/m³	
Bucket capacity ⁴⁾	0.45 m³	
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/s²	
Total body vibration ⁵⁾	< 0.5 m/s²	

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



24e as standard

- Electric motor driving hydraulics: 21 kW; electric motor working hydraulics: 9.7 kW
- Low version front carriage for best lifting force
- Electric four wheel drive with cardan shaft
- On board charging device 3 kW/230 V/16 A
- 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 Schaffer axle
- 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 procetion roof version: 1 x on the boom; cabin version: 2 x front, 1 x rear
- Acoustic reverse warning signal
- 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
- Quick-change frame SWH with hydraulic tool lock

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