



THE INNOVATIVE ELECTRIC LOADER

- 100 % emission-free: no exhaust fumes. no
- Efficient high-voltage technology, hydraulics and drive each powered by their own electric
- 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
- 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





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

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

YOUR DEALER:

Purchasing a Schäffer loader is the beginning of a longterm 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



Schäffer

ELECTRIC LOADER

Emission-free, powered by lithium-ion technology





EMISSION-FREE OPERATION – A BENEFIT IN MANY APPLICATIONS

The new electric loader 23e from Schäffer delivers emission-free operation: exhaust gases and noise are now a thing of the past. This is a significant advantage when working inside, but as animals, people and the environment all benefit from clean air and extremely low noise levels, the 23e is well suited to use in outside stables, barns, sheds, storage depots, warehouses and riding arenas too. The innovative water cooling system contributes to clean ambient air, and regulates the temperature of the electric motors, removing the need for an oversized fan and the associated dust and straw turbulence that comes with it.

The output of the electric loader corresponds to that of a 45 HP diesel machine. The electric loader is also a match for its diesel counterpart when it comes to performance: tipping load and lifting height are almost identical for electric and diesel engines. Of course, existing tools can be used on the 23e*.

All other advantages which distinguish the proven Schäffer diesel loaders are also standard. These include the maintenance-free articulated pendulum joint and the original Schäffer axles, which guarantee high thrust forces.

The 23e is the only electric loader to reach a speed of 20 km/h. The typical rapid acceleration of an electric vehicle comes as standard, powered by the 21 kW electric motor, which is responsible for the traction drive. It is flanged directly to the rear axle to ensure direct power transmission of the torque. The new 23e is a pleasure to drive and has all the technology and power needed to make light work of most tasks.

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



■ Electric motor drive: 21 kW; electric motor working Multiple disk brake, maintenance free; service and

- hydraulics: 9,7 kW
- Electric four wheel drive with cardan shaft Li-lon 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

23e as standard

- Energy recuperation
- Hill-Hold funktion: 'start up assistant' to make hill starts
 Working hydraulics: 42 l/min easier
- Tyres 10.0/75-15.3 AS, offset +40
- 20 km/h
- Eco mode to extend the operating time
- Genuine Schäffer axle, 6-hole
- Water cooling of electric motors

- 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 (can be switched off)
- Parallel lift
- Electronically operated additional controller
- Adjustable steering column
- Hour meter, range display and charging status display
- Rear weight end plate
- Main battery switch
- Driver-on-board switch
- Quick-change frame SWH with hydraulic tool lock



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

mum energy efficiency alongside emission-free operation to the electric drive. Together with the lithium-ion battery, was of real importance.



When developing the 23e electric loader, achieving maxi- All components of the drive system are perfectly matched 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. If there's a biogas plant or a photovoltaic system at the site of operation, the 23e will be even more economical to use.

> 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 use of lithium-ion technology makes the 23e a real innovation. The customer receives a guarantee of 5,000 operating hours or five years of use, whichever comes first. It can be charged at any time without affecting the lifetime of the batteries - another advantage of lithium-ion technology.

DIMENSIONS

| | 23e |
|---|--|
| Engines | Drive: 21 kW Working hydraulics: 9.7 kW |
| Drive unit | 4-wheel-drive, fully electric |
| Battery | Lithium-lon, 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 AS Option I 27x10.5-15 Option II 31x15.5-15 |
| Service braking system | Mulai diaa haalee aanaina in all haab |
| Parking brake | Multi-disc brake running in oil bath |
| Working hydraulics Output/pressure | Delivery rate: 42 l/min Operating pressure: 180 bar |
| Steering | Fully hydraulic articulated/swivel steering |
| Operating weight | 2,240 / 2,305 kg with cabin |
| Lifting capacity | 1,700 kg |
| Tipping load, straight* ¹ Pallet fork Bucket | |
| Tipping load, articulated* ¹ Pallet fork Bucket | , · · · · · · · |
| Payload Pallet fork, even ground ^{*2} Pallet fork, uneven ground ^{*2} Bucket ^{*3} | 528 kg 396 kg 480 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 |
| Sound pressure level LpA | 64 dB(A) |
| Sound power level guaranteed LwA equivalent LwA | |
| Hand/arm vibration*4 | < 2.5 m/s² |
| Total body vibration*4 | < 0.5 m/s ² |

re dimensions and additional equipment can change the deployment weight, tilting load and bucket capacity.

| | | 23e |
|---|---|----------------|
| Α | Wheelbase [mm] | 1,550 |
| В | Chassis length [mm] | 3,230 |
| С | Overall length with standard bucket [mm] | 3,880 |
| D | Digging depth [mm] | 90 |
| E | Max. working height [mm] | 3,570 / 3,800* |
| F | Max. bucket pivot point. [mm] | 2,880 / 3,110* |
| G | Loading height with pallet forks [mm] | 2,680 / 2,960* |
| Н | Max. dumping height [mm] | 2,045 / 2,300* |
| I | Front end height [mm] | 1,690 / 1,790* |
| J | Dumping width [mm] | 470 |
| K | Seat height [mm] | 1,160 |
| L | Overhead guard height (mm) Cabin height (mm) | 2,190 2,140 |
| N | Overall width [mm] | 1,020 - 1,570 |
| 0 | Inner turning radius [mm] | 1,200 |
| Р | Outer turning radius [mm] | 2,220 |
| Q | Outer radius with standard bucket [mm] | 2,865 |



