

## **ELECTRIC LOADERS**

Emission-free, powerful and quiet



## ELECTRIC YARD LOADER 16E: COMPACT, EMISSION-FREE AND VERSATILE

The electric yard loader 16e masters even the tightest working environments with ease. Based on the proven 1622 model, the 16e offers emission-free working and opens up new application possibilities in stables and agricultural facilities where manual labour or larger machines were previously required.

While the animals feed in peace and quiet, the 16e takes care of supplies - without any noise or exhaust fumes. With a width of just 0.89 m and a height of 1.99 m, it fits through the narrowest doors and gates and even reaches areas that are difficult to access.

Whether transporting feed, mucking out or maintenance work - the 16e performs a variety of tasks thanks to its compact dimensions and the wide range of Schäffer attachments. With a low operating weight of just 1,345 kg, the loader is particularly gentle on the ground outdoors

and is ideal for concrete slatted floors indoors. The lifting height of 2.23 m and the hydraulic output of 28 l/min provide the necessary power for any task.

Equipped with energy-efficient LED lights and a 9.6 kW electric motor, which is powered by a 48 V lithium-ion battery, the 16e offers up to two and a half hours of operating time for medium loading tasks. The battery pack can be charged either from commercially available wall-boxes with a Type 2 plug or from 230 V power outlets. With both variants, charging the battery pack to 80 per cent capacity takes around 2.5 hours.

The self-generated electricity from a photovoltaic or biogas system can be used economically and in an environmentally friendly manner. The new Schäffer 16e electric yard loader offers a pioneering solution for agriculture - emission-free, quiet and efficient.

### **ADVANTAGES AT A GLANCE**



### Standard equipment 16e

- Electric motor 9,6 kW
- Hydrostatic four wheel drive with automotive control
- Li-lon battery pack, 48 V / 12,2 kWh
- On-board charger with Type 2 connector enables charging at a 230V power outlet or a wallbox
- Charging cable type 2 / CEE 16 A, 4 m
- Battery management system
- Energy recuperation
- Eco mode to extend the operating time
- Tyres 23x8.50-12 AS, offset +60
- Genuine Schäffer axle, 5 hole
- Hydraulic oil cooler
- Drum brake as parking brake
- Maintenance free articulated pendulum joint

- Restraining system for protection roof
- LED working headlights: 2 x front, 1 x rear
- Parallel lif
- Mechanically operated additional controller
- Silence gear pump, especially quiet
- Working hydraulics: 28 l/min
- Adjustable steering column
- Hour meter and charging status display
- Driver-on-board switch
- Quick-change frame SWH with hydraulic tool lock

 $\mathbf{2}$ 

# ELECTRIC YARD LOADER FULL OF ACTION



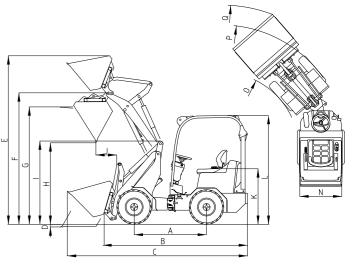


## Technical data, dimensions

Engine Electric motor, 9,6 kW  Drive unit automotive control  Battery Li-Ion battery pack, 48 V / 12.2 kWh  On-board charger with Type 2 connector enables charging at a 230V power outlet or a wallbox  23 x 8.5 - 12 AS Option I 23 x 8.5 - 12 SKD/MultiTrac Option II 23 x 10.5 - 12 AS/MultiTrac Option II 23 x 10.5 - 12 Option II 23 x 10.5 - 12 AS/MultiTrac Option II 23 x 10.5 - 12 Option II 23 x 10.5 - 12 AS/MultiTrac Option II 23 x 10.5 - 12 Option II 23 x 10.5 - 12 Option II 23 x 10.5 - 12 AS/MultiTrac Option II 23 x 10.5 - 12 Option II 23 x 10.5 - 12 Option II 23 x 10.5 - 12 AS/MultiTrac Option II 23 x 10.5 - 12 Option II 23 x 10.5 - 12 Option II 23 x 10.5 - 12 AS/MultiTrac Option II 23 x 10.5 - 12 AS/MultiTrac Option II 23 x 10.5 - 12 Option II 23 x 10.5 - 12 AS/MultiTrac Option II 23 x 10.5 - 12 AS/MultiTrac Option II 23 x 10.5 - 12 AS/MultiTrac Option II 23 x 10.5 - 12 AS MultiTrac Option I		16e
Dirve unit  Battery  Li-lon battery pack, 48 V / 12.2 kWh  On-board charger with Type 2 connector enables charging at a 230V power outlet or a wallbox  23x8.5-12 AS Option I 23x8.5-12 SKD/MultiTrac Option II 23x10.5-12 AS/MultiTrac Option II 23x10.5-12 AS/MultiTrac Option II 23x10.5-12 AS/MultiTrac Option II 23x10.5-12 AS/MultiTrac  Parking brake  Working hydraulics Output/pressure  Parking brake  Working hydraulics Output/pressure  Steering Operating yeight 1,345 kg  Lifting capacity Pallet fork Bucket  Tipping load, atriculated'1 Pallet fork Bucket S50 kg  Payload Pallet fork, uneven ground'2 Pallet fork, uneven ground'2 Pallet fork, uneven ground'2 Pallet fork, uneven ground'2 Pallet fork Speed Axles Original Schäffer axles, 5 wheel nut rim Speed Electric system Operating voltage: 12 V  Fill quantities Hydraulic oil: 22 l  Sound pressure level LpA Sound pressure level LpA Ti dB(A)  Sound power level guaranteed LwA equivalent LwA equivalent LwA Hand/arm vibration'4  < 2,5 m/s'	Engine	Electric motor, 9,6 kW
Charging system  Charging system  On-board charger with Type 2 connector enables charging at a 230V power outlet or a wallbox  23x8.5-12 AS Option 1 23x8.5-12 SKD/MultiTrac Option II 23x10.5-12 AS/MultiTrac Option II 23x10.5-12 AS/MultiTrac  Parking brake  Working hydraulics Output/pressure  Steering Operating weight Lifting capacity Pallet fork Bucket  Tipping load, straight¹¹ Pallet fork Bucket  Payload Pallet fork, even ground¹² Pallet fork, even ground²² Pallet fork, uneven ground²² Pallet fork, uneven ground²² Pallet fork, uneven ground²² Pallet fork	Drive unit	
Charging system or a wallbox  23x8.5-12 AS Option I 23x8.5-12 SKD/MultiTrac Option II 23x10.5-12 AS/MultiTrac Option II 23x10.5-12 AS/MultiTrac  Service braking system Parking brake Working hydraulics Output/pressure  Steering Operating weight Lifting capacity Pallet fork Bucket Tipping load, articulated' Pallet fork Bucket Payload Pallet fork, even ground' Pallet fork, uneven ground' Pallet fork, uneven ground' Pallet fork Bucket' Original Schäffer axles, 5 wheel nut rim Speed Sound pressure level LpA Fill quantities Sound pressure level LpA Sound power level guaranteed LwA equivalent LwA Hand/arm vibration' Vax 83.5-12 SKD/MultiTrac Option II 23x8.5-12 SkD/MultiTrac Option II 23x86.5-12 SkD/MultiTrac Option II 23x86.5-12 SkD/MultiTrac Option II 23x86.5 III 30x8 SkD/MultiTrac Option II 23x8 III showed Option II 23x8 III showed Option II 23x8 II showed Option II 20x8 II showed Opti	Battery	Li-lon battery pack, 48 V / 12.2 kWh
Tyres  Option I 23 x 8.5 - 12 SKD/MultiTrac Option II 23 x 10.5 - 12 AS/MultiTrac  Nydrostatic  Parking brake Working hydraulics Output/pressure  Steering Operating weight Lifting capacity Tipping load, straight 1 Pallet fork Bucket Bucket Pallet fork, even ground 2 Pallet fork, uneven ground 2 Pallet fork, uneven ground 2 Pallet fork uneven ground 2 Pallet fork uneven ground 2 Pallet fork uneven ground 2 Speed Fill quantities Speed Fill quantities Sound pressure level LpA Sound power level guaranteed LwA equivalent LwA Hand/arm vibration 4  Pallet fork service scale state of the state of the service skill s	Charging system	enables charging at a 230V power outlet
Parking brake  Working hydraulics Output/pressure  Steering  Operating weight Lifting capacity Pallet fork Bucket Pallet fork Bucket Pallet fork, even ground* Pallet fork, uneven ground* Bucket* Original Schäffer axles, 5 wheel nut rim Speed I6 kph Electric system Fill quantities Fill quantities Sound pressure level LpA Sound power level guaranteed LwA equivalent LwA Hand/arm vibration*  Working hydraulic atte. 28 l/min Operating pressure: 200 bar Fully hydraulic articulated/swivel steering  430 kg 850 kg 850 kg  258 kg 275 kg Original Schäffer axles, 5 wheel nut rim 16 kph Operating voltage: 12 V Hydraulic oil: 22 l  71 dB(A) Sound power level guaranteed LwA equivalent LwA 42,5 m/s²	Тугеѕ	Option I 23x8.5-12 SKD/MultiTrac Option II 23x10.5-12
Working hydraulics Output/pressure  Steering  Operating weight Lifting capacity Pallet fork Bucket  Payload Pallet fork, even ground* Pallet fork, uneven ground* Bucket*  Axles  Speed  Electric system  Fill quantities  Sound pressure level LpA Foutput/pressure  Bucket*  Poperating pressure: 200 bar  Fully hydraulic articulated/swivel steering  1,345 kg 810 kg 810 kg 850 kg 850 kg 850 kg  430 kg 850 kg 8550 kg  344 kg 258 kg 275 kg  Original Schäffer axles, 5 wheel nut rim 16 kph  Electric system Fill quantities Sound pressure level LpA Sound power level guaranteed LwA equivalent LwA Hand/arm vibration*4  Valve Pully hydraulic articulated/swivel steering  1,345 kg 810 kg 850 kg 850 kg  755 kg  Original Schäffer axles, 5 wheel nut rim 16 kph 90 db(A) 99 db(A) 99 db(A) 99 db(A) 42,5 m/s²	Service braking system	hydrostatic
Output/pressure  Steering  Operating weight Lifting capacity Tipping load, straight* Pallet fork Bucket  Payload Pallet fork, even ground* Pallet fork, uneven ground* Bucket*  Axles Original Schäffer axles, 5 wheel nut rim Speed Electric system Fill quantities Sound pressure level LpA Sound power level guaranteed LwA equivalent LwA Hand/arm vibration*  Steering Fully hydraulic articulated/swivel steering 630 kg 850 kg 850 kg 850 kg 430 kg 550 kg  430 kg 550 kg  550 kg  Original Schäffer axles, 5 wheel nut rim Speed 16 kph Operating voltage: 12 V Hydraulic oil: 22 l 71 dB(A) 99 db(A) 90 db(A) 90 db(A) 430 kg 850	Parking brake	mechanical drum brake
Operating weight Lifting capacity Pallet fork Bucket Tipping load, articulated'1 Pallet fork Bucket Tipping load, articulated'1 Pallet fork Bucket Payload Pallet fork, even ground'2 Pallet fork, uneven ground'2 Pallet fork, uneven ground'2 Bucket'3 Bucket'3 Bucket'3 Bucket Tipping load, articulated'1 Pallet fork Bucket Sound Pallet fork Bucket Sound pressure level LpA Fill quantities Sound power level guaranteed LwA equivalent LwA Hand/arm vibration'4  Value Sound power level guaranteed LwA equivalent LwA Hand/arm vibration'4  Value Sound power level guaranteed LwA equivalent LwA Hand/arm vibration'4  Value Sound power level guaranteed LwA equivalent LwA  Value Sound power level guaranteed LwA equivalent LwA  Value V		
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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 Pallet fork, uneven ground*2 Pallet fork, uneven ground*2 Bucket*3  Axles Original Schäffer axles, 5 wheel nut rim Speed 16 kph  Electric system Speed 16 kph  Electric system Fill quantities Hydraulic oil: 22 l  Sound pressure level LpA Sound power level guaranteed LwA equivalent LwA Hand/arm vibration*4  430 kg 430 kg 550 kg  Original Schäffer axles, 5 wheel nut rim 16 kph 17 dB(A) 18 ye db(A) 99 db(A) 99 db(A) 42 55 m/s²	Operating weight	1,345 kg
Pallet fork Bucket Tipping load, articulated*1 Pallet fork Bucket  Payload Pallet fork, even ground*2 Pallet fork, uneven ground*2 Bucket*3  Axles Original Schäffer axles, 5 wheel nut rim Speed Electric system Fill quantities Sound pressure level LpA Sound power level guaranteed LwA equivalent LwA Hand/arm vibration*4  Fill quantition*4  Pallet fork, 430 kg 430 kg 550 kg  Axles Original Schäffer axles, 5 wheel nut rim Operating voltage: 12 V  Fill quantities Fyd db(A) 99 db(A) 90 db(A)  Hand/arm vibration*4  430 kg 550 kg  Axles 71 dB(A) 258 kg 275 kg  Original Schäffer axles, 5 wheel nut rim Operating voltage: 12 V  Fill quantities Fyd db(A) 99 db(A) 90 db(A)  Hand/arm vibration*4	Lifting capacity	810 kg
Pallet fork Bucket  Payload Pallet fork, even ground'2 Pallet fork, uneven ground'2 Bucket'3  Axles Original Schäffer axles, 5 wheel nut rim Speed 16 kph Electric system Fill quantities Hydraulic oil: 22 l  Sound pressure level LpA Sound power level guaranteed LwA equivalent LwA Hand/arm vibration'4  430 kg  344 kg 258 kg 275 kg  Original Schäffer axles, 5 wheel nut rim Hydraulic oil: 22 l 71 dB(A)  99 db(A) 99 db(A)  430 kg 44 kg 258 kg 275 kg  Axles Original Schäffer axles, 5 wheel nut rim Application of the properties of the	Pallet fork	
Pallet fork, even ground*2 Pallet fork, uneven ground*2 Bucket*3  Axles Original Schäffer axles, 5 wheel nut rim Speed 16 kph Electric system Operating voltage: 12 V Fill quantities Fill quantities Sound pressure level LpA Sound power level guaranteed LwA equivalent LwA Hand/arm vibration*4  244 kg 258 kg 275 kg Original Schäffer axles, 5 wheel nut rim Hydraulic oil: 22 l 71 dB(A) 99 db(A) 40 db(A) 40 db(A) 41 db(A) 42 db(A) 43 db(A) 44 kg 44 kg 42 db(A) 45 db(A) 46 db(A) 47 db(A) 48 db(A) 49 db(A) 40 db(A) 40 db(A) 41 db(A) 42 db(A) 43 db(A) 44 db(A) 45 db(A) 46 db(A) 47 db(A) 48 db(A) 49 db(A) 40 db(A) 40 db(A) 40 db(A) 40 db(A) 41 db(A) 42 db(A) 43 db(A) 44 db(A) 45 db(A) 46 db(A) 47 db(A) 47 db(A) 48	Pallet fork	
Speed 16 kph  Electric system Operating voltage: 12 V  Fill quantities Hydraulic oil: 22 l  Sound pressure level LpA 71 dB(A)  Sound power level guaranteed LwA equivalent LwA 90 db(A)  Hand/arm vibration*4 < 2,5 m/s²	Pallet fork, even ground*2 Pallet fork, uneven ground*2	258 kg
Electric system Operating voltage: 12 V  Fill quantities Hydraulic oil: 22 l  Sound pressure level LpA 71 dB(A)  Sound power level guaranteed LwA equivalent LwA 90 db(A)  Hand/arm vibration*4 < 2,5 m/s²	Axles	Original Schäffer axles, 5 wheel nut rim
Fill quantities Hydraulic oil: 22 l  Sound pressure level LpA 71 dB(A)  Sound power level guaranteed LwA equivalent LwA 90 db(A)  Hand/arm vibration*4 < 2,5 m/s²	Speed	16 kph
Sound pressure level LpA  Sound power level guaranteed LwA equivalent LwA Hand/arm vibration*  71 dB(A) 99 db(A) 99 db(A) < 2,5 m/s²	Electric system	Operating voltage: 12 V
Sound power level guaranteed LwA equivalent LwA Hand/arm vibration*4  99 db(A)  < 2,5 m/s²	Fill quantities	Hydraulic oil: 22 l
guaranteed LwA 99 db(A) equivalent LwA 90 db(A) Hand/arm vibration*4 < 2,5 m/s²	Sound pressure level LpA	71 dB(A)
	guaranteed LwA	
Total body vibration $^{4}$ < 0,5 m/s $^{2}$	Hand/arm vibration*4	< 2,5 m/s²
	Total body vibration*4	< 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 8041
Tyre dimensions and additionals equipment can change the operating weight, tipping load and payload.			

		16e
A	Wheelbase [mm]	1,345
В	Chassis length [mm]	2,450
С	Overall length with standard bucket [mm]	3,050
D	Digging depth [mm]	80
E	Max. working height [mm]	2,635
F	Max. bucket pivot point [mm]	2,230
G	Loading height with pallet forks [mm]	2,020
Н	Max. dumping height [mm]	1,510
I	Front end height [mm]	1,390
J	Dumping width [mm]	195
K	Seat height [mm]	1,010
L	Protective roof height [mm]	1,990
N	Overall width [mm]	890 / 1,060
0	Inner turning radius [mm]	970
Р	Outer turning radius [mm]	1,875
Q	Outer radius with standard bucket [mm]	2,222



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.

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4

## EMISSION-FREE OPERATION – A BENEFIT IN MANY APPLICATIONS

The 23e electric yard loader and the 23e T electric telescopic wheel loader also stand for emission-free work: 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 loaders are 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 with these loaders, and regulates the temperature of both electric motors, removing the need for an oversized fan and the associated dust and straw turbulence that comes with it.

The output of these electric loaders corresponds to that of a 45 HP diesel machine. The electric loaders are 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 T\*.

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.

Both electric loaders reach a speed of 20 kph. 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 electric loaders are 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.



#### Standard equipment 23e

- Electric motor drive: 21 kW;
   electric motor working 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)
- Charging cable type 2 / CEE 16 A, 4m
- Battery management system
- Energy recuperation
- Hill-Hold funktion: 'start up assistant' to make hill starts easier
- Tyres 10.0/75-15.3 AS, offset <u>+40</u>
- 20 kph
- 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: 2 x front, 1 x rear
- Acoustic reverse warning signal (can be switched off)
- Parallel lift
- Electronically operated additional controller
- Working hydraulics: 42 l/min
- Adjustable steering column
- Hour meter and charging status display
- Rear weight end plate
- Main battery switch
- Driver-on-board switch
- Quick-change frame SWH with hydraulic tool lock



## 23E, 23E T: THE INNOVATIVE ELECTRIC LOADERS

- 100 % emission-free: no exhaust fumes, no noise
- Efficient high-voltage technology, hydraulics and drive each powered by their own electric motor
- Available battery capacities: 15.65 kWh or 31.3 kWh for the 23e and 31.3 kWh for the 23e T: 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 kph:** the only battery-powered wheel loader with a top speed of 20 kph
- Hill-Hold function: 'start up assistant' to make hill starts easier





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

When developing the 23e 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. 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.

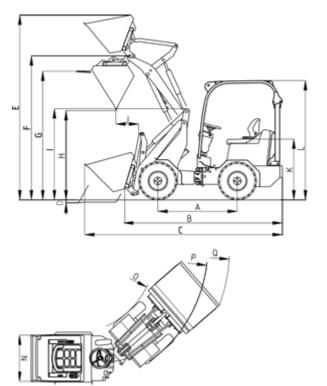


## Technical data, dimensions

	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	Made de la lacta de la companya de l	
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* <sup>1</sup> Pallet fork Bucket	1,0 10 1,0 11 11 <b>3</b>	
Tipping load, articulated* <sup>1</sup> Pallet fork Bucket	3	
Payload Pallet fork, even ground <sup>*2</sup> Pallet fork, uneven ground <sup>*2</sup> Bucket <sup>*3</sup>	396 kg	
Axles	Original Schäffer axles, 6 wheel nut rim	
Speed	20 kph	
Electric system	Operating voltage: 12 V	
Fill quantities	s Hydraulic oil: 15 l	
Sound pressure level LpA	64 dB(A)	
Sound power level guaranteed LwA equivalent LwA	99 db(A) 90 db(A)	
Hand/arm vibration*4	< 2.5 m/s²	
Total body vibration*4	< 0.5 m/s <sup>2</sup>	

		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	Protective root height (mm) Cab 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

<sup>\*</sup> Option: high lift



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



## 23E T: THE ELECTRIC TELESCOPIC WHEEL LOADER FOR THAT EXTRA RANGE

Schäffer unveiled its first conventionally powered telescopic wheel loader in 1994. Over the following decades, Schäffer evolved into the leading supplier of articulated telescopic wheel loaders, offering a diverse range with operating weights from 2.8 t to 13 t.

With the 23e T, Schäffer introduced the world's first fully electric telescopic wheel loader, further enhancing its expertise in this area. From a technical perspective, the 23e T is

based on the 23e wheel loader. Thanks to its telescopic arm, the 23e T has a lifting height of 3.72 m, is available with either an overhead guard or cab and offers a tipping load with pallet fork of 1.3 t at a weight of 2.8 t. The articulated joint makes the machine particularly agile; the inner turning radius is just 1.15 m. Depending on the tyres, the 23e T measures between 1.41 m and 1.59 m in width with an overall height of 2.19 m with an overhead guard or 2.14 m with a cab.

### Standard equipment 23e T

- Electric motor drive: 21 kW;
   electric motor working hydraulics: 9.7 kW
- Electric four wheel drive with cardan shaft
- Li-lon battery pack, 240 V / 31.3 kWh
- On-board charger with Type 2 connector enables charging at a 230 V power outlet (3 kW) or a wallbox (11 kW)
- Charging cable type 2 / CEE 16 A, 4 m
- Battery management system
- Energy recuperation
- Hill-Hold funktion: 'start up assistant' to make hill starts easier
- Tyres 31x15.5-15 AS, offset 0
- 20 kph
- Eco mode to extend the operating time
- Original Schäffer axles, wide design
- Ferro-form sliding elements in the telescopic arm
- Tool cylinder in the telescopic arm
- Electric pressure relief of hydraulic couplings (on the steering tower and telescopic arm)

- 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: 2 x front, 1 x rear
- Acoustic reverse warning signal (can be switched off)
- Z-bar boom with parallel lift
- Electronically operated additional controller
- Working hydraulics: 42 l/min
- Adjustable steering column
- Hour meter and charging status display
- Counter weight 100 kg mounted under rear chassis
- Rear weight end plate and towing hitch
- Main battery switch
- Wide chassis with wider fender
- Driver-on-board switch
- Quick-change frame SWH with hydraulic tool lock

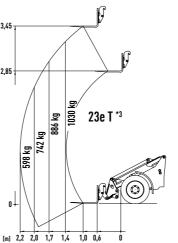


### Technical data, dimensions



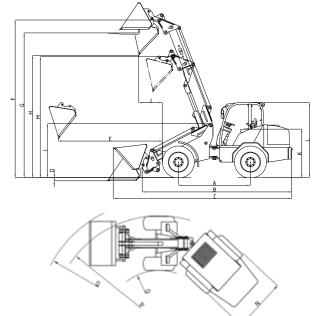
	23e T	
Engines	Drive: 21 kW Working hydraulics: 9.7 kW	
Drive unit	4-wheel-drive, fully electric	
Battery	Lithium-lon, 240 V; 31.3 kWh	
Charging system	On board charger, 3 kW/230 V/16 A wallbox, 11 kW	
Tyres	31x15.5-15 AS Option: 31x15.5-15 SKD	
Service braking system	Multi-disc brake running in oil bath	
Parking brake	Mutti-disc brake ruilling in oit bath	
Working hydraulics Output/pressure		
Steering	Fully hydraulic articulated/swivel steering	
Operating weight	2,750 / 2,815 kg with cab	
Lifting capacity	1,600 kg	
Tipping load, straight*1 1,275 kg		
Axles	Original Schäffer axles, 6 wheel nut rim	
Speed	20 kph	
Electric system	Operating voltage: 12 V	
Tank capacity	Hydraulic oil: 30 l	
Sound pressure level LpA	64 dB(A)	
Sound power level guaranteed LwA equivalent LwA		
Hand/arm vibration*2	< 2.5 m/s <sup>2</sup>	
Total body vibration*2	< 0.5 m/s <sup>2</sup>	

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Α	Wheelbase [mm]	1,870
В	Chassis length [mm]	3,900
С	Overall length with standard bucket [mm]	4,700
D	Digging depth [mm]	90
E	Reach [mm]	1,570
F	Max. bucket pivot point [mm]	3,720
G	Loading height with pallet forks [mm]	3,470
Н	Max. dumping height [mm]	3,010
I	Front end height [mm]	1,580
J	Dumping width [mm]	820
K	Seat height [mm]	1,160
L	Protective roof height [mm] Cab height [mm]	2,190 2,140
М	Swivelling point, telescopic arm retracted [mm]	3,100
N	Overall width [mm]	1,410 - 1,590
0	Inner turning radius [mm]	1,150
Р	Outer turning radius [mm]	2,650
Q	Outer radius with standard bucket [mm]	2,950



<sup>\*1</sup> boom horizontal, not extended, with pallet fork (acc. to ISO 14397)

Tyre dimensions and additionals equipment can change the operating weight, tipping load and payload



<sup>\*2</sup> according to ISO 8041

<sup>\*3</sup> using forks on stable underground (according EN 474-3)



#### MADE FOR MORE.

Because we know: If you want more, you need more than just standard. That is why we at Schäffer never settle for the first thing that comes along. We think ahead and have been developing machines that truly make a difference in the real world for 70 years. Machines that offer more performance, more quality and more reliability for everyone who depends on powerful technology every day.

Over 45 machine types and more than 1,000 tool variants provide you with maximum flexibility, be it as a farmer, construction professional or recycling expert. Our loaders are compact, powerful and efficient and capable of handling tasks that typically demand much larger machines.

Trust in genuine "Made in Germany" quality - manufactured in Erwitte, with an exceptionally high vertical range of manufacture. Schäffer relies on robust materials and high-quality components. From specially developed axles and solid articulated joints to countless thoughtful details, every element ensures maximum stability and reliability, even in the most demanding conditions. Some features that are not available elsewhere or are only available at extra cost come standard with Schäffer.

Specially developed technologies and efficiency systems noticeably enhance performance and driving comfort, boosting productivity for every application.

A Schäffer machine represents unmatched product quality and long-term cost-effectiveness. Durable components, low wear, significantly reduced fuel consumption and minimal maintenance ensure consistently low operating costs.

At the same time, our machines also stand out for their high value retention and a reliable spare parts supply, with 24-hour delivery available 365 days a year.



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