

zero emission

Innovation and sustainability are core values and driving factors in the development of new machines at Kramer. In this context, the search for alternative energies and drive technologies has been ongoing to develop sustainable, environmentally-friendly, yet simultaneously powerful machines.

Electric mobility plays an ever more important role in the construction sector. The 1445e is best suited to low-noise working, like in sensitive environments such as residential areas, inner cities, parks, zoos and cemeteries, as well as in regions with a proportionately high level of tourism. The machine works very quietly and is completely free from CO_2 emissions. It is therefore even possible to perform work in underground car parks, interior spaces or greenhouses without any restrictions. The 1445e's output complies with that of the diesel telehandler of the same size class and therefore is not inferior in anything.



Into the future with electric drive

An overview of their benefits

With the fully electric 1445e telehandler CO₂ restrictions, soot-limits and noise emission values no longer play a role in daily work. The fully electric telehandler works completely free of emissions, protects the environment and the operator, and scores high when it comes to efficiency and economy.



Ecological advantages

- Low carbon footprint
- No particulate pollution for the operator and the environment
- Preservation of resources



No exhaust gas emissions

- Work in interior spaces free of problems
- Work in tunnels without expensive exhaust systems
- No impairment of air quality in urban applications because of complete zero emissions
- No emission burden on zoos or parks



Low noise emissions

- Ideal for noise-sensitive areas such as city centres, cemeteries, hotel facilities, parks and recreation areas
- Perfect for winter service (e.g. hotel and municipal application)
- Less noise for (new) residential areas



Economic advantages

- Future-oriented technology
- Low maintenance costs
- Operation up to 4 hours without interim charging*

^{*} Data is dependent on machine equipment, application and environmental factors, and can deviate.



Clear cabin design

For highest level of work performance

The first glance into the cabin reveals what it is about: the operator and their task. The spacious cab provides a comfortable workspace with little noise, which offers head and legroom contributing to fatigue-free working.

Operators' requirements are personal, therefore the 1445e provides a selection of different seat variations. The most frequently used operating elements are arranged in the foreground of the cabin on the right side console and are easy to reach. The switches are labelled by colour according to functional groups therefore ensuring a high degree of clarity and user-friendliness. All the important information for the machine is presented on the display. Furthermore, there is a generous storage compartment available to the operator for tools, drink bottles and other utensils.



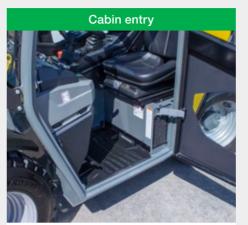
Quick to reach emergency switch so that the machine can be immediately moved into a safe state in an emergency.



Modern designed cabin with an ergonomically shaped dashboard.

Technical highlights

Simple operation – Innovative cabin design



Despite its compact vehicle dimensions, the cabin is spacious and concise, and can be reached comfortably without any additional steps. The ergonomically attached handles, combined with the large door, ensure the safe entry and exit. The generous cabin guarantees an excellent sense of space.



Narrow cabin struts and panoramic glazing enable an excellent view on all sides. The panoramic front windscreen contributes to the good overview and improves the operator comfort. The flat battery cover ensures an optimal view to the right side, on the right rear wheel and the wing.



There are two operator modes available: Eco and Auto (PWR). The full engine output and travel speed are available without restrictions. In Eco mode the engine output and travel speed are restricted. This way, you can save energy and gain running time.



The operator has everything under control with the multifunctional joystick. Alongside the main functions of lifting and lowering, as well as feeding and tipping, all the important functions are included on the joystick, i.e. selection of travel direction. Additionally, the operating elements on the joystick are backlit at night, which guarantees the safe operation of the machine, even in the dark.



The machine is equipped as standard with a cabin windscreen heating. So that the highest possible level of energy efficiency is achieved for the overall heating system, the cabin can be equipped with auxiliary panel heating for normal air heating. This is in the cabin roof and provides targeted heat. The normal air heating can be used as standard heating.



The FOPS screen (Falling Object Protective Structure) is affixed inside to keep the vehicle's height as low as possible. With the FOPS screen design, optimal visibility is provided of the lifted loading system. Furthermore, a radio can be optionally installed with a USB connection, Bluetooth playback, DAB+ and hands-free system.

24 25



Power for a working day

Productive running times supported through recovery

The electric running time varies depending on many factors, like the driving behaviour, application type, machine equipment and the environmental conditions. It is possible to work up to 4 hours without interim charging.

Through the recuperation – energy recovery – it is possible to extend the running time. As soon as the operator puts their foot on the drive pedal, the drive system switches to recovery. This means that the motion energy of the telehandler is converted into electric energy and thereby recovered.





Everything at a glance

All the important information is presented on the display. Included herein are, among other things, the machine's remaining running time, recovery, travel speed and even the charge status of the battery. These are displayed as percentages. If the battery is being charged, a thunderbolt is displayed in the battery symbol and the charge performance is also displayed.



Top performance fully electric telehandler 1445e:

- no exhaust emissions and clearly reduced level of noise
- powerful and high-quality lithium-ion battery with 18 kWh or 28 kWh
- low maintenance costs when compared with diesel machine
- maximum flexibility when charging with different charging plug types
- easy access to the charging plug

Innovative battery technology

Modern and flexible charging procedure

As standard for the 1445e a lithium-ion battery is installed with a capacity of 18 kWh. Optionally available is a lithium-ion battery with 28 kWh. Both have a guaranteed battery life of min. 5 years or 2,000 charging cycles. After this time, it is guaranteed that the battery exhibits a residual capacity of min. 80%.

The lithium-ion battery is monitored by a so-called Battery Management System (BMS). A battery heater is also integrated into the battery to ensure an optimal operating temperature. Furthermore, the machine has a 3 kW AC on-board battery charger, which can also be ordered optionally with 6 kW. The on-board battery charger is permanently installed in the machine. As a result, the battery can be charged at any customary socket. It is likewise possible to charge at a wallbox or a public charging point.



Charge cable

There are four different charging plug options available to charge the machine. The charging performance is restricted by the type of charging plug and the charge performance of the on-board charger. In the case of the 6 kW on-board charger, full charge can only be achieved with the type 2 and CEE 5-pole plug.

• Schuko mains plug 230 V/16 A • CEE, 3-pole 230 V/16 A (blue) • CEE, 5-pole 400 V/16 A (red) • Type 2 (IEC 62196)

Easy charging

The charging console is in the tail of the machine. It is possible to charge the battery up to 80%, depending on equipment, in approx. 3 hours.



Open the charging console and connect the charger cable to the machine.



Activate key switch* to start the charging process. The charge status display to the rear of the machine starts to flash.



The charge status display will light up as soon as the charging process has been automatically ended.



Activate key switch* and pull out charging plug. Then lock charging console.

^{*} Key switch available as an option. A pressure switch is installed as standard.

1445e Machine highlights

Future-proof and well thought-out to the last detail

Compact dimensions

thanks to a vehicle width of under 1.60 m and a vehicle height of less than 2 m.



Top Performance

Dimensions and power to weight ratio

Engines

Telehandler 1445

Fully electric telehandler 1445e

Telehandler 2205

Telehandler 2706

- perfect ratio between payload and operating weight
- unmatched economy and efficiency
- compact dimensions in the 2x2 metre class

high-torque and economical engines

- the latest exhaust emissions after-treatment with DOC + DPF
- newest engine technology for maximum performance

very small turning radius due to compact design

- electronically controlled drive system with different operator modes
- perfect performance values of 18.5 kW (standard) or 33.3 kW (option)
- increased safety due to hill-hold function

no exhaust emissions and clearly reduced noise level

- powerful and high-quality lithium-ion battery with 18 kWh or 28 kWh
- low maintenance costs when compared with diesel machine
- different types charging plugs available for maximum flexibility when charging
- easy access to charging plug

• compact dimensions with a height of under 2 m and a width of approx. 1.80 m

- spacious cabin with very good all-round visibility and a variety of options
- load stabiliser for improved driving comfort and driving safety
- high pushing power due to planetary axles and 100% connectible differential lock

• improved all-round visibility due to two different cabin heights

- perfect performance values of 55.4 kW
- rpm reduction as standard
- LUDV work hydraulics for simultaneous execution of several hydraulic functions
- innovative cabin design for maximum comfort

46

Technical Data

Battery (standard)	Unit	1445e				
Battery technology	-	Lithium-ion battery				
Battery voltage class	V	96				
Guaranteed battery life*	Years / cycles	5 / 2,000				
Battery capacity	kWh	18				
On-board charging performance**	kW	3 (standard) 6 (option)				
Charging time 230 V / 16 A Schuko 0 - 100%	h	8				
Charging time 230 V / 16 A CEE (blue, 3-pole) 0-100%	h	7.5 (standard) 5 (option)				
Charging time 400 V / 16 A CEE (red, three-phase current, 5-pole) 0 - 100%	h	7.5 (standard) 3.75 (option)				
Charging time 400 V / 16 A (Type 2 plug wallbox, IEC 62196) 0 - 100%	h	7.5 (standard) 3.75 (option)				
Running time up to	h	2.5 hours without interim charging				
Battery (option)	Unit					
Battery technology	-	Lithium-ion battery				
Battery voltage class	V	96				
Guaranteed battery life*	Years / cycles	5 / 2,000				
Battery capacity	kWh	28				
On-board charging performance**	kW	3 (standard) 6 (option)				
Charging time 230 V / 16 A Schuko 0 - 100%	h	12				
Charging time 230 V / 16 A CEE (blue, 3-pole) 0- 100%	h	11.5 (standard) 8 (option)				
Charging time 400 V / 16 A CEE (red, three-phase current, 5-pole) 0 - 100%	h	11.5 (standard) 5.75 (option)				
Charging time 400 V / 16 A (Type 2 plug wallbox, IEC 62196) 0 - 100%	h	11.5 (standard) 5.75 (option)				
Running time up to	h	4 hours without interim charging				
Electric motor	Unit					
Drive performance S2 60 min***	kW	23.2				
Work hydraulics performance S3 15%***	kW	25.2				

Technical Data

Max. payload (LSP 500 mm) kg	Operating and power ratings	Unit	1445e			
Payload at max. stacking height kg 1,450 Payload at max. coverage kg 725 Stacking height at max. payload mm 4,301 Reach at max. payload mm 1,100 Max. reach mm 2,333 Turning radius via tyres mm 2,695 Operating weight* kg 3,050 - 3,250 Power transmission Unit 15 (standard) Max. speed km/h 20 (option) Max. speed km/h 20 (option) Max. speed * 14 Differential lock - 100% (option) Service brake - 100% (option) Service brake - 100% (option) Service brake - 100% (option) Standard tyres (AS tread) I/min 265075-16.3 Work sydraulics Unit Work sydraulics Unit Work pump - Gear pump Max. flow rate (pump) I/min 42 Max. pressure bar <t< th=""><th>Max. payload (LSP 500 mm)</th><th>kg</th><th>1,450</th></t<>	Max. payload (LSP 500 mm)	kg	1,450			
Payload at max. coverage kg 728 Stacking height at max, payload mm 4,301 Reach at max, payload mm 1,100 Max. reach mm 2,933 Turning radius via tyres mm 2,695 Operating weight* kg 3,050 - 3,250 Power transmission Unit Max. speed km/h 20 (option) Max speed km/h 20 (option) Total oscillating angle on the rear axide a 14 Differential lock - Foot-activated hydraulic disc brake Parking brake -	Max. stacking height	mm	4,190			
Stacking height at max. payload mm	Payload at max. stacking height	kg	1,450			
Reach at max. payload	Payload at max. coverage	kg				
Max. reach mm 2,833 Turning radius via tyres mm 2,695 Operating weight* kg 3,050 - 3,250 Power transmission Unit Max. speed km/h 15 (standard) 20 (potion) 25 (potion) Total oscillating angle on the rear axle a 14 on the rear axle Differential lock - Foot-activated myterial disc brake Parking brake - Foot-activated myterial disc brake Parking brake - Electrically operated with hill-hold function Standard tyres (AS tread) V/min 255/76-15.3 Work pump - Gear pump Max. flow rate (pump) I/min 42 Max. pressure bar 220 Kinematics Unit Bucket capacity m³ 0.50 - 1.03 Total swing angle of tool carrier a 6.4 / 6.5 Extend/retract push-out cylinder s 5./ 5.5 Till turfin fitping cylinder s 3.8 / 4.1 Capabellies Unit Hydraulic oil tank <	Stacking height at max. payload	mm				
Turning radius via tyres mm 2,695 Operating weight* kg 3,050 - 3,250 Power transmission Unit Max. speed km/h 15 (standard) (option) Total oscillating angle on the rear axie a 14 On the rear axie - 100% (option) Service brake - Foot-activated hydraulic disc brake Parking brake - Electrically operated with hill-hold function Standard tyres (AS tread) Vimin 255/75-15.3 Work bydraulics Unit 42 Work pump - Gear pump Max. flow rate (pump) Umin 42 Max. pressure bar 220 Kinematics Unit 42 Max. pressure bar 250/75-15.3 Bucket capacity m³ 0.50 - 1.03 Total swing angle of tool carrier a 148 Lift cylinder raising/lowering s 6.4 / 6.5 Extend/retract push-out cylinder s 3.8 / 4.1 Capacities Unit <td>Reach at max. payload</td> <td>mm</td> <td colspan="4"></td>	Reach at max. payload	mm				
Operating weight* kg 3,050 - 3,250 Power transmission Unit Max. speed km/h 15 (standard) 20 (option) 25 (option) Total oscillating angle on the rear axle • 14 Differential lock - 100% (option) Service brake - Foot-activated hydraulic disc brake Parking brake - Electrically operated with hill-hold function Standard tyres (AS tread) Vimin 255/75-15.3 Work hydraulics Unit Work pump - Gear pump Max. flow rate (pump) Vimin 42 Max. pressure bar 220 Kinematics Unit 42 Bucket capacity m³ 0.50 - 1.03 Total swing angle of tool carrier * 148 Lift cylinder raising/lowering s 6.4 / 6.5 Extend/retract push-out cylinder s 5 / 5.5 Till out/in tipping cylinder s 3.8 / 4.1 Capacities Unit 4 Workseemissions** Unit	Max. reach	mm				
Nax. speed km/h 15 (standard) 20 (option) 25 (op	Turning radius via tyres	mm				
Max. speed km/h 15 (standard) 20 (option) 20 (option) Total oscillating angle on the rear axie • 14 Differential lock - 100% (option) Service brake - Foot-activated hydraulic disc brake Parking brake - Electrically operated with hill-hold function Standard tyres (AS tread) Umin 255/75-15.3 Work hydraulics Unit Wind of the company of the	Operating weight*	kg	3,050 - 3,250			
Max. speed km/h 20 (option) Total oscillating angle on the rear axle • 14 Differential lock - 100% (option) Service brake - Foot-activated hydraulic disc brake Parking brake - Electrically operated with hill-hold function Standard tyres (AS tread) Unit 255/75-15.3 Work pydraulics Unit 42 Work pydraulics Unit 42 Max. flow rate (pump) I/min 42 Max. pressure bar 220 Kinematics Unit Bucket capacity m³ 0.50 - 1.03 Total swing angle of tool carrier ° 148 Lift cylinder raising/lowering s 6.4 / 6.5 Extend/retract push-out cylinder s 5 / 5.5 Tilt out/in tipping cylinder s 3.8 / 4.1 Capacities Unit Hydraulic oil tank I 36 Hydraulic system (total) I 50 Noise emissions** Unit W	Power transmission	Unit				
Pifferential lock	Max. speed	km/h	20 (option)			
Service brake - Foot-activated hydraulic disc brake Parking brake - Electrically operated with hill-hold function Standard tyres (AS tread) Umin 255/75-15.3 Work pydraulics Unit Work pump - Gear pump Max. flow rate (pump) I/min 42 Max. pressure bar 220 Kinematics Unit 42 Bucket capacity m³ 0.50 - 1.03 Total swing angle of tool carrier ° 148 Lift cylinder raising/lowering s 6.4 / 6.5 Extend/retract push-out cylinder s 5 / 5.5 Tilt out/in tipping cylinder s 5 / 5.5 Tilt out/in tipping cylinder s 3.8 / 4.1 Capacities Unit 4 Hydraulic oil tank I 36 Hydraulic system (total) I 50 Noise emissions** Unit Measured value dB(A) 85.7 Guaranteed value dB(A) 87 N		0	14			
Parking brake - Electrically operated with hill-hold function Standard tyres (AS tread) I/min 255/75-15.3 Work pump - Gear pump Max. flow rate (pump) I/min 42 Max. pressure bar 220 Kinematics Unit Unit Bucket capacity m³ 0.50 - 1.03 Total swing angle of tool carrier ° 148 Lift cylinder raising/lowering s 6.4 / 6.5 Extend/retract push-out cylinder s 5 / 5.5 Tilt out/in tipping cylinder s 3.8 / 4.1 Capacities Unit 4 Hydraulic oil tank I 36 Hydraulic system (total) I 50 Noise enissions** Unit Measured value dB(A) 85.7 Guaranteed value dB(A) 87 Noise level at the operator's ear dB(A) 73 Vibrations*** Unit Vibration total value of the upper body extremity - < 2.5 m/s² (< 8.2 feet/s²)	Differential lock	-	100% (option)			
Standard tyres (AS tread) I/min 255/75-15.3 Work hydraulics Unit Work pump - Gear pump Max. flow rate (pump) I/min 42 Max. pressure bar 220 Kinematics Unit Bucket capacity m³ 0.50 - 1.03 Total swing angle of tool carrier ° 148 Lift cylinder raising/lowering s 6.4 / 6.5 Extend/retract push-out cylinder s 5 / 5.5 Tilt out/in tipping cylinder s 3.8 / 4.1 Capacities Unit 4 Hydraulic system (total) I 36 Hydraulic system (total) I 50 Noise emissions** Unit Measured value dB(A) 85.7 Guaranteed value dB(A) 87 Noise level at the operator's ear dB(A) 73 Vibrations*** Unit Vibration total value of the upper body extremity - < 2.5 m/s² (< 8.2 feet/s²)	Service brake	-	Foot-activated hydraulic disc brake			
Work pump Gear pump Max. flow rate (pump) I/min 42 Max. pressure bar 220 Kinematics Unit 42 Bucket capacity m³ 0.50 - 1.03 Total swing angle of tool carrier ° 148 Lift cylinder raising/lowering s 6.4 / 6.5 Extend/retract push-out cylinder s 5 / 5.5 Tit out/in tipping cylinder s 3.8 / 4.1 Capacities Unit 4 Hydraulic oil tank I 36 Hydraulic system (total) I 50 Noise emissions** Unit Measured value dB(A) 85.7 Guaranteed value dB(A) 87 Noise level at the operator's ear dB(A) 73 Vibrations*** Unit Vibration total value of the upper body extremity - < 2.5 m/s² (< 8.2 feet/s²) Highest effective value of weighted C 15 m/s² (< 164 feet/s²)****	Parking brake	-	Electrically operated with hill-hold function			
Work pump − Gear pump Max. flow rate (pump) I/min 42 Max. pressure bar 220 Kinematics Unit Bucket capacity m³ 0.50 - 1.03 Total swing angle of tool carrier ° 148 Lift cylinder raising/lowering s 6.4 / 6.5 Extend/retract push-out cylinder s 5 / 5.5 Tit out/in tipping cylinder s 3.8 / 4.1 Capacities Unit Hydraulic oil tank I 36 Hydraulic system (total) I 50 Noise emissions** Unit Measured value dB(A) 85.7 Guaranteed value dB(A) 87 Noise level at the operator's ear dB(A) 73 Vibrations*** Unit Vibrations*** Unit Vibration total value of the upper body extremity - < 2.5 m/s² (< 8.2 feet/s²) Highest effective value of weighted 0.5 m/s² (< 1.64 feet/s²)******	Standard tyres (AS tread)	l/min	255/75-15.3			
Max. flow rate (pump) I/min 42 Max. pressure bar 220 Kinematics Unit Bucket capacity m³ 0.50 - 1.03 Total swing angle of tool carrier ° 148 Lift cylinder raising/lowering s 6.4 / 6.5 Extend/retract push-out cylinder s 5 / 5.5 Tilt out/in tipping cylinder s 3.8 / 4.1 Capacities Unit Hydraulic oil tank I 36 Hydraulic system (total) I 50 Noise emissions** Unit Measured value dB(A) 85.7 Guaranteed value dB(A) 87 Noise level at the operator's ear dB(A) 73 Vibrations*** Unit Vibrations*** Unit Vibration total value of the upper body extremity - < 2.5 m/s² (< 8.2 feet/s²) Highest effective value of weighted < 0.5 m/s² (< 1.64 feet/s²)*****	Work hydraulics	Unit				
Max. pressure bar 220 Kinematics Unit Bucket capacity m³ 0.50 - 1.03 Total swing angle of tool carrier ° 148 Lift cylinder raising/lowering s 6.4 / 6.5 Extend/retract push-out cylinder s 5 / 5.5 Tilt out/in tipping cylinder s 3.8 / 4.1 Capacities Unit 36 Hydraulic oil tank I 36 Hydraulic system (total) I 50 Noise emissions** Unit Measured value dB(A) 85.7 Guaranteed value dB(A) 87 Noise level at the operator's ear dB(A) 73 Vibrations*** Unit Vibrations*** Unit Vibration total value of the upper body extremity - < 2.5 m/s² (< 8.2 feet/s²) Highest effective value of weighted < 0.5 m/s² (< 1.64 feet/s²)*****	Work pump	-	Gear pump			
Kinematics Bucket capacity m³ 0.50 - 1.03 Total swing angle of tool carrier ° 148 Lift cylinder raising/lowering s 6.4 / 6.5 Extend/retract push-out cylinder s 7/5.5 Tilt out/in tipping cylinder s 3.8 / 4.1 Capacities Hydraulic oil tank I Hydraulic system (total) Noise emissions** Unit Measured value dB(A) S8.7 Guaranteed value dB(A) Noise level at the operator's ear dB(A) Vibrations*** Unit Vibrations*** Unit Vibrations total value of the upper body extremity Highest effective value of weighted **O 5 m/s² (< 8.2 feet/s²)**** **O 5 m/s² (< 1.64 feet/s²)**** **A feet/s²)*** **A feet/s²)**** **A feet/s²)*** **A feet/s²)** **A feet/s²)*	Max. flow rate (pump)	l/min	42			
Bucket capacity m³ 0.50 - 1.03 Total swing angle of tool carrier ° 148 Lift cylinder raising/lowering s 6.4 / 6.5 Extend/retract push-out cylinder s 5 / 5.5 Tilt out/in tipping cylinder s 3.8 / 4.1 Capacities Unit Hydraulic oil tank I 36 Hydraulic system (total) I 50 Noise emissions** Unit Measured value dB(A) 85.7 Guaranteed value dB(A) 87 Noise level at the operator's ear dB(A) 73 Vibrations*** Unit	Max. pressure	bar	220			
Total swing angle of tool carrier Cift cylinder raising/lowering S 6.4 / 6.5 Extend/retract push-out cylinder S Tilt out/in tipping cylinder S Tilt out/in ti	Kinematics	Unit				
Lift cylinder raising/lowering s 6.4 / 6.5 Extend/retract push-out cylinder s 5 / 5.5 Tilt out/in tipping cylinder s 3.8 / 4.1 Capacities Hydraulic oil tank I 36 Hydraulic system (total) I 50 Noise emissions** Unit Measured value dB(A) 85.7 Guaranteed value dB(A) Noise level at the operator's ear dB(A) Vibrations*** Unit Vibrations*** Unit Vibration total value of the upper body extremity Highest effective value of weighted Lift cylinder raising/lowering s 6.4 / 6.5 8.7 3.8 / 4.1 36 Highest effective value of weighted S 0.5 m/s² (< 8.2 feet/s²) S 0.5 m/s² (< 1.64 feet/s²)*****	Bucket capacity	m ³	0.50 - 1.03			
Extend/retract push-out cylinder s 5/5.5 Tilt out/in tipping cylinder s 3.8 / 4.1 Capacities Unit Hydraulic oil tank I 36 Hydraulic system (total) I 50 Noise emissions** Unit Measured value dB(A) Guaranteed value dB(A) Noise level at the operator's ear dB(A) Vibrations*** Unit Vibration total value of the upper body extremity Highest effective value of weighted 5 / 5.5 3.8 / 4.1 36 4.1 4.1 4.1 4.2 4.3 4.3 4.3 4.3 4.4 4.4 4.5 4.6 4.6 4.6 4.7 4.7 4.7 4.7 4.7	Total swing angle of tool carrier	٥	148			
Tilt out/in tipping cylinder s 3.8 / 4.1 Capacities Hydraulic oil tank I 36 Hydraulic system (total) Noise emissions** Unit Measured value dB(A) Sand Band	Lift cylinder raising/lowering	s	6.4 / 6.5			
Capacities Hydraulic oil tank I 36 Hydraulic system (total) Noise emissions** Unit Measured value dB(A) Sar Quaranteed value dB(A) Noise level at the operator's ear Vibrations*** Unit Vibration total value of the upper body extremity Highest effective value of weighted Violations weighted Vibration total value of weighted Capacities Unit 36 85.7 Capacities Vibrations*** Unit Capacities Vibrations** Unit Capacities Vibrations** Vibrations** Vibrations** Capacities Vibrations** Capacities Vibrations** Capacities Capa	Extend/retract push-out cylinder	s	5 / 5.5			
Hydraulic oil tank I 36 Hydraulic system (total) I 50 Noise emissions** Unit Measured value dB(A) S57 Guaranteed value dB(A) 87 Noise level at the operator's ear dB(A) Vibrations*** Unit Vibrations*** Unit Vibration total value of the upper body extremity Highest effective value of weighted < 0.5 m/s² (< 1.64 feet/s²)*****	Tilt out/in tipping cylinder	S	3.8 / 4.1			
Hydraulic system (total) Noise emissions** Unit Measured value dB(A) S5.7 Guaranteed value dB(A) Noise level at the operator's ear dB(A) Vibrations*** Unit Vibration total value of the upper body extremity Highest effective value of weighted < 0.5 m/s² (< 1.64 feet/s²)**** Highest effective value of weighted	Capacities	Unit				
Noise emissions** Unit Measured value dB(A) 85.7 Guaranteed value dB(A) Noise level at the operator's ear dB(A) Vibrations*** Unit Vibration total value of the upper body extremity Highest effective value of weighted < 0.5 m/s² (< 1.64 feet/s²)****	Hydraulic oil tank	1	36			
Measured value dB(A) Guaranteed value dB(A) Noise level at the operator's ear dB(A) Vibrations*** Unit Vibration total value of the upper body extremity Highest effective value of weighted 485.7 Calculate the operator's ear As a constant of the upper body extremity	Hydraulic system (total)	1	50			
Guaranteed value dB(A) Noise level at the operator's ear dB(A) 73 Vibrations*** Unit Vibration total value of the upper body extremity Highest effective value of weighted < 0.5 m/s² (< 1.64 feet/s²)*****	Noise emissions**					
Noise level at the operator's ear dB(A) 73 Vibrations*** Unit Vibration total value of the upper body extremity - < 2.5 m/s² (< 8.2 feet/s²) Highest effective value of weighted	Measured value	dB(A)	85.7			
Vibrations*** Vibration total value of the upper body extremity - < 2.5 m/s² (< 8.2 feet/s²) Highest effective value of weighted < 0.5 m/s² (< 1.64 feet/s²)*****	Guaranteed value	dB(A)	87			
Vibration total value of the upper body extremity - < 2.5 m/s² (< 8.2 feet/s²) Highest effective value of weighted < 0.5 m/s² (< 1.64 feet/s²)*****	•	. ,	73			
body extremity < 2.5 III/S (< 6.2 leet/S) Highest effective value of weighted < 0.5 m/s ² (< 1.64 feet/s ²)*****	Vibrations***	Unit				
Highest effective value of weighted acceleration for the body $ \begin{array}{c} <0.5 \text{ m/s}^2 \ (< 1.64 \text{ feet/s}^2)^{****} \\ <1.28 \text{ m/s}^2 \ (< 4.19 \text{ feet/s}^2)^{****} \end{array} $		-	< 2.5 m/s ² (< 8.2 feet/s ²)			
		-	< 0.5 m/s² (< 1.64 feet/s²)**** < 1.28 m/s² (< 4.19 feet/s²)****			

50

^{*} After this time it is guaranteed that the battery exhibits a residual capacity of at least 80%. The battery can still be used afterwards.

^{**} Depending on the respective current source (available socket and charging cable).

^{***} according to EN 60034-1

Weight in standard components with full tank + standard bucket + 75 kg operator weight (ISO 6016).

 $^{^{\}star\star}$ Information: The measurement occurs as per the requirements of the standard EN 1459 and the directive 2000/14/EC. Measuring station: Paved surface.

^{***} Uncertainties of measurement as specified in ISO/TR 25398:2006. Please instruct or inform the operator of possible dangers caused by vibrations.

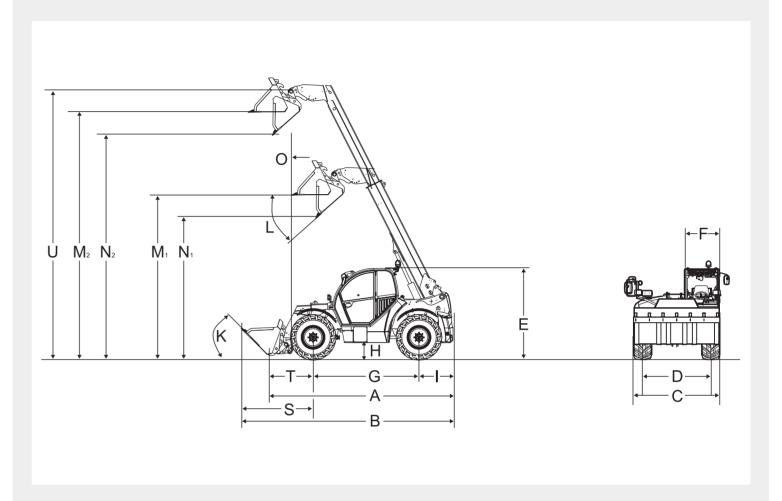
^{****} On flat and solid ground with the corresponding driving style

^{*****} Application in extraction under harsh environmental conditions

Dimensions

Dir	nensions	Unit	1445	1445e	2205	2706
Α	Total length	mm	3,092	3,092	3,747	4,400
В	Total length with bucket 1	mm	4,215	4,215	4,576	5,000
С	Total width without bucket 2	mm	1,564	1,554	1,808	1,960
D	Track front/rear	mm	1,245	1,245	1,530	1,660
E	Total height ³	mm	1,995	1,995	1,950 (standard) 2,150 (option)	1,980 (standard) 2,100 (option)
F	Cabin width	mm	702	704	755	825
G	Wheelbase, middle	mm	1,922	1,922	2,449	2,650
Н	Ground clearance ³ below axle and transmission, fording depth	mm	294	233	256	300
ı	Distance from centre of rear wheel to the tail	mm	427	498	472	730
K	Tipping angle ¹	0	44	52	41	45 / 45
L	Dumping angle ¹	٥	36	36	34	22 / 40
М	Load-over height ³ M1 retracted M2 extended	mm	2,949 4,163	2,949 4,163	3,638 5,056	3,730 5,600
N	Dumping height ³ N1 retracted N2 extended	mm	2,352 3,566	2,352 3,566	3,103 4,520	3,450 5,280
0	Dumping width extended	mm	476	476	293	680
s	Distance from centre front wheel to blade leading edge	mm	1,595	1,595	1,655	1,030
Т	Distance from centre front wheel bearing to the quickhitch frame	mm	450	450	581	1,030
U	Bucket pivot point extended ³	mm	4,537	4,537	5,471	6,080
-	Turning circle outer edge tyres	mm	2,695	2,695	3,281	3,670
-	Turning radius bucket, outside edge	mm	3,550	3,550	4,153	4,500
-	Entry height ³ cabin floor	mm	420	420	450	360

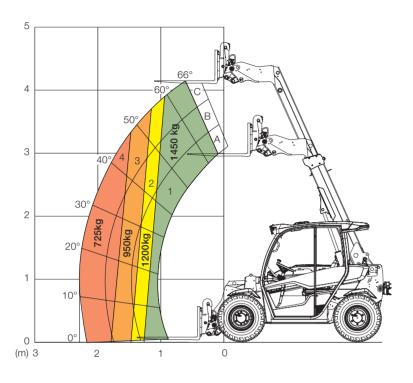
Dimensions



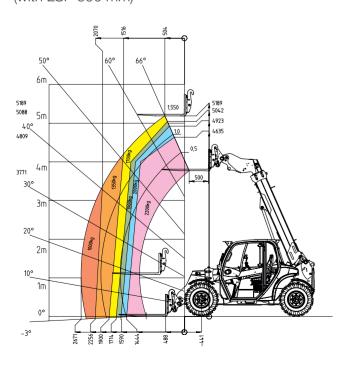
with standard bucket
 dependent on tyres, with mirrors folded in
 machine dimensions may vary depending on tyres

Load-bearing capacity diagrams

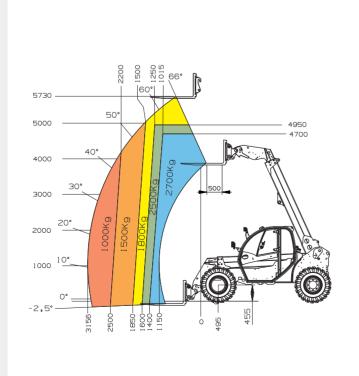
1445 / 1445e Load-bearing capacity diagram (with LSP 500 mm)



2205 Load-bearing capacity diagram (with LSP 500 mm)



2706 Load-bearing capacity diagram (with LSP 500 mm)



Service and spare parts

Are you looking for appropriate spare parts or operating instructions for your Kramer machine? With Kramer maintenance and repair packages, there is a tailor-made spare part ready at hand for each machine. You will receive all of the required spare parts or operating instruction from our Kramer dealers. With our Kramer Dealer Locator, you can find your local dealer. Simply enter the sector, post code or residence.

You can find more information at: www.kramer.de/service

Maintenance, diagnosis and repair

The certified technician at your distributor will ensure that your machine is in use again as quickly as possible. You can find more information about the repair and servicing of Kramer machines on our website.



Original Spare Parts

All spare parts that you can source from your Kramer dealer meet the strict requirements of our component manufacturers. Dimensional accuracy, performance, fit and availability can largely only be provided by the original part.



Warranty and safety

Security 24/Security 36/Security 48/Security 60: With the warranty extendible to 24, 36, 48 or even 60 months, our customers can increase their carefree period. They are protected against all eventualities by tailor-made insurance coverage. Get advice from your dealer.



Training sessions

The Kramer Academy is the modern training centre for the service technicians of the Kramer distributors. Here the mechanics learn everything they need to know to maintain Kramer machines and learn about the constantly about the operating principles of new technical systems.



www.kramer.de







Wheel loader Bucket capacity: 0.35-1.80 m³



Telescopic wheel loaders Bucket capacity: 0.65-1.45 m³



Telehandler Payload: 1,450-5,500 kg

Service that can be seen

Focus on your daily activities – with our comprehensive services, we take care of the rest. We are there when you need us: capable, fast, and directly on site if necessary.



Repair & maintenance



Academy



Telematics



Insurance



Spare parts



Financial Solutions

Go to Kramer dealer search: SCAN HERE!



