

**PRELIMINARY**



**92 kW**



**17.2-18.6 t**



**9 m**



**MULTICAB**

# 817E

Mobile material handler

Tier IV emission standards

# 817E Advanced. The E-Series



1962: rope-driven S833 with elevated operator cab

## What makes up the E-Series

- 60 years of experience in designing and constructing hydraulic material handlers
- Uncompromisingly high performance in all areas: Focus on material handling
- Technology that can be mastered: High-quality components without over-engineering
- Long service life and high value stability

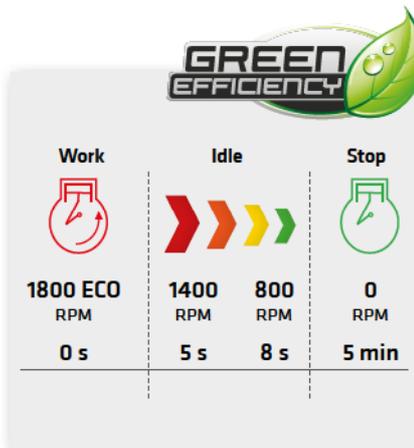
## Your top benefits:

- 1 Green Efficiency**  
Save fuel – reduce operating costs  
Work quietly – protect operator and environment
- 2 Peak performance**  
Durable mechanical systems – stressed parts optimized  
High speeds – high load capacities
- 3 Maximum usability**  
MultiCab – work in comfort  
SENCON – SENNEBOGEN Control System
- 4 Maximum safety**  
Safe entry and exit – no-slip steps  
State-of-the-art cameras – entire work area in view (option)
- 5 Maintenance and service made easy**  
Easy fault diagnosis – central measuring points  
Easy maintenance – clear labeling
- 6 Consultation and support in your area**  
3 production sites – 2 subsidiaries  
130 sales partners – over 350 service stations



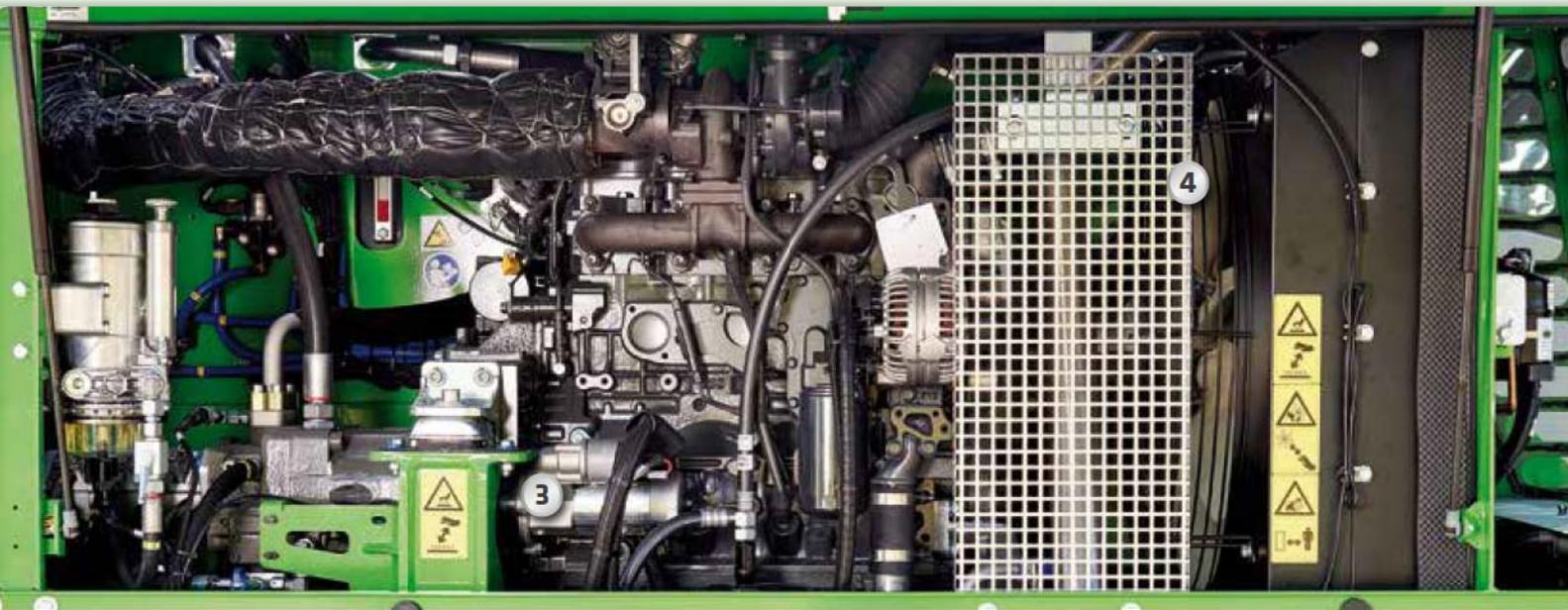


# 817E The E-Series. At a glance.



## Four ways to save fuel

- Up to 20% savings: Working in EcoMode with reduced engine speed
- Idle automation reduces speed to 40% of operating speed
- Stop automation switches the engine off when not needed
- Optimized engine settings, reduced specific fuel consumption, state-of-the-art exhaust aftertreatment



## Quiet operation

- Consistently quiet operation thanks to decoupled engine mounts and soundproofing in the doors **3**
- Sound pressure level reduced by up to 4.5 dB; sound power level according to 2000/14/EC up to 2 dB lower than required

## High-capacity cooling

- Constant, reliable performance thanks to large-dimensioned and robust fans and coolers **4**
- Fans deliver optimum efficiency thanks to drive based on axial-piston pump. Temperature-controlled fan speed



**Maximum safety**

- No-slip work surfaces 1
- Peripheral railing\*
- 2 cameras to the right and rear\*



**Smart cooler technology**

- Standard features: Automatic, fast, and strong fan reversal for blowing out coolers and continuous cooling capacity
- Side-by-side coolers, easily accessible and clean cooling technology
- Fuel savings through optimized fan operation

**Powerful hydraulic system**

- Strong pumps with power reserves
- Top efficiency thanks to large-dimensioned hydraulic valves and lines
- Extra-long change intervals of 4,000 operating hours through initial fill-up with high-performance oil, with extended service life when using SENNEBOGEN Hydro-Clean\*

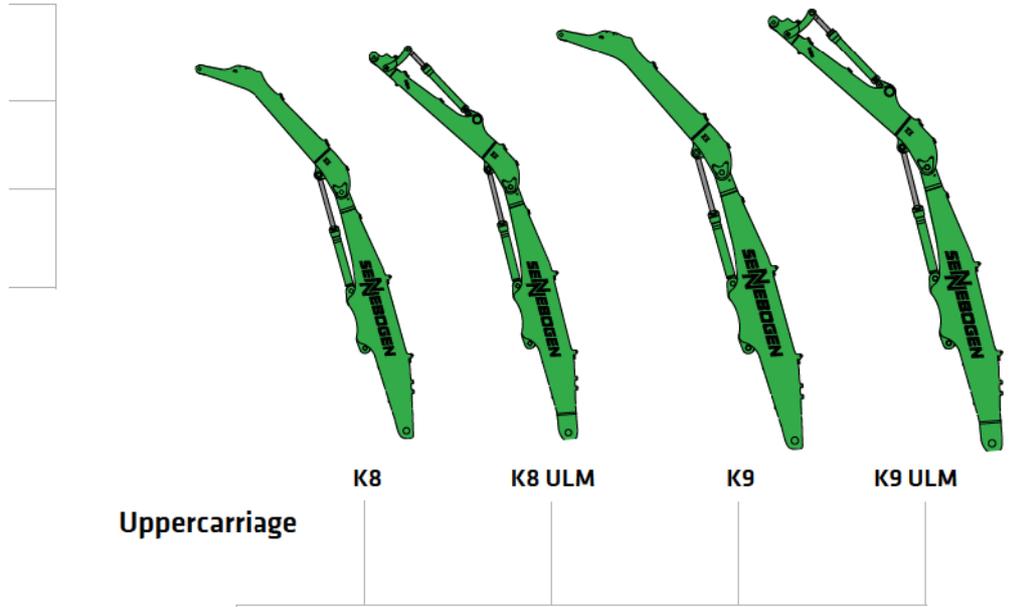
\* Optional

# B17E Modular design – versatile solutions

## Attachments

-  Sorting grab
-  Multi-shell grab
-  Double shell grab
-  Magnetic plate

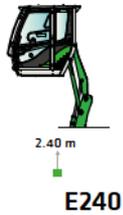
## Equipment options (others available upon request)



## Cabs



## Cab elevation



## Uppercarriage

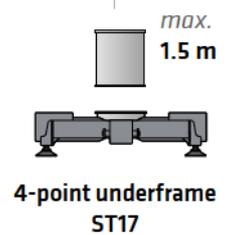
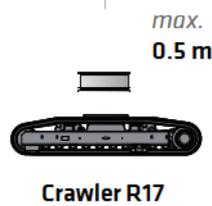
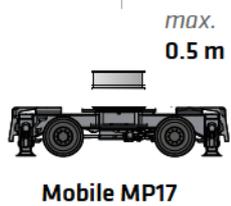


-  Diesel-hydraulic drive
-  Electrohydraulic drive

## Options

-  Engine line drum
-  Transformer

## Undercarriage variants



- Decades of experience
- State-of-the-art computer simulation
- Maximum stability and service life



**Ideal illumination**  
thanks to powerful LED  
headlights\*

**High load capacities**  
and fast working speeds for  
rapid sorting

**Safe entry and exit**  
Grip handles and no-slip steps

**Excellent  
stability**  
thanks to stable  
outrigger

**Ideal overview**  
and safe working height  
thanks to stable cab  
elevation

**Safety**  
thanks to upper-  
carriage railing\*

**Robust side  
cover**  
made from 100%  
recyclable sheet  
steel

\* Option

# 817E Technical data, equipment

## MACHINE TYPE

Model (type) **817**

## ENGINE

Power	<b>817 M: 92 kW / 125 hp at 2,200 rpm</b>
Model	<b>FPT NEF 45 Tier IIIa/IV</b> Direct injection, turbo-charged, charge air cooler, reduced emissions, EcoMode, idle automation
Cooling	Water-cooled
Air filter	Dry air filter with cyclonic pre-filter, safety element, contamination indicator
Fuel tank	<b>230 l</b>
DEF tank	<b>20 l</b>
Electr. system	<b>24 V</b>
Batteries	2 x cold-start high-performance batteries
Options	<ul style="list-style-type: none"> <li>■ Engine block heater</li> <li>■ Electric fuel pump</li> <li>■ Jump-start terminals</li> <li>■ Additional cyclone pre-separator</li> <li>■ Diesel particulate filter</li> </ul>

## UPPERCARRIAGE

Design	Torsion-resistant upper frame with end shields all the way from boom linkage to counterweight for optimized force transmission, precision-crafted, steel bushings for boom bearings, outstanding design, very low noise emissions
Electrical system	Central electrical distributor, battery disconnect switch
Options	<ul style="list-style-type: none"> <li>■ Slewing gear brake via foot pedal</li> <li>■ Peripheral uppercarriage railing for additional safety</li> <li>■ LED lighting packages</li> <li>■ Fire extinguisher</li> <li>■ Special paint finish</li> <li>■ Electric hydraulic tank preheater with uppercarriage power socket</li> <li>■ Low-temperature package (oils, battery heater, hydraulic oil preheater, cab preheater, engine preheater)</li> <li>■ Magnetic generator 9 kW</li> <li>■ Automatic central lubrication for equipment and slewing gear raceway</li> <li>■ Additional ballast 0.5 t</li> <li>■ Camera package right/rear</li> </ul>

## HYDRAULIC SYSTEM

Load-sensing/LUDV hydraulic system for work and travel functions	
Pump type	Swashplate-type variable-displacement piston pump, load pressure-independent flow distribution for simultaneous, independent control of work functions
Pump control	Zero-stroke control, on-demand flow control – the pumps only pump as much oil as will actually be used, pressure purging, load limit sensing control
Operating pressure	<b>max. 310 bar</b>
Filtration	High-performance filtration with long change interval
Hydraulic tank	<b>190 l</b>
Control system	Proportional, precision hydraulic actuation of work movements, 2 joysticks for the work functions, additional functions via switches and foot pedals
Safety	All hydraulic circuits are secured with safety valves, hydraulic cylinder for emergency release of the equipment and the cab when the engine is at a standstill
Options	<ul style="list-style-type: none"> <li>■ Organic oil filling</li> <li>■ ToolControl for programming the pressure/rate for up to 10 tools</li> <li>■ Load moment warning with capacity utilization indicator with/without shutdown</li> <li>■ SENNEBOGEN HydroClean 3 µm hydraulic microfilter system</li> </ul>

## SLEWING DRIVE

Gearbox	Planetary gearbox with axial piston motor and integrated brake valves
Parking brake	Spring-loaded, hydraulically vented safety multi-disk brake
Slewing ring	Oversized slewing ring
Slewing speed	0–8 rpm, variable. Hydraulic brake valves integrated in motor ensure wear-free braking.

# 817E Technical data, equipment

## CAB MULTICAB

Cab type	MultiCab, can be elevated 2.40 m
Cab equipment	Hydraulically elevating cab as standard. Flexibly mounted comfortable cab with super sound insulation, joystick steering, all-round glazing in safety glass and large roof window, adjustable windshield. Flexibly mounted comfortable seat, adjustable according to weight and shock-absorbent. Variable, controllable cab heating with air circulation stage and particle filter, automatic climate control
Options	<ul style="list-style-type: none"> <li>■ Auxiliary heating system with timer</li> <li>■ Protective roof grating</li> <li>■ FOPS protective roof grating</li> <li>■ Seat with active seat air conditioning</li> <li>■ Armored-glass windshield</li> <li>■ Polycarbonate side window panels</li> <li>■ Armored-glass sunroof</li> <li>■ Front windshield wiper, bottom and roof</li> <li>■ Sun blinds on roof and front</li> <li>■ Radio with USB and Bluetooth</li> <li>■ Protective ventilation system for cab</li> <li>■ Steering wheel control</li> </ul>

## UNDERCARRIAGE

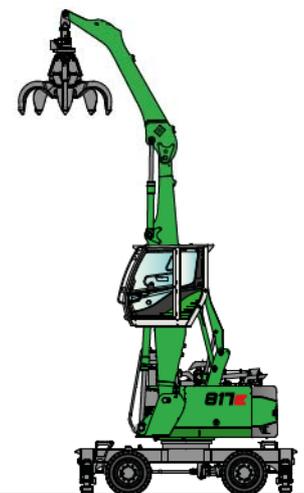
Design	Strong mobile undercarriage with 4-point claw support (option), steering axle as hydraulically locking pendulum axle. Pendulum axle cylinder with pipe-fracture safety valves
Drive	All-wheel drive powered by a variable-displacement hydraulic motor with direct-mounted, automatically actuated brake valve and 2-stage power shift transmission. Strong planetary axles with integrated steering cylinder, 2-circuit multi-disk service brake.
Parking brake	Spring-loaded multi-disk brake
Tires	8 x 9.00-20 solid rubber
Speed	<b>0-5.5 kph</b> Tier I, <b>0-18 kph</b> Tier II
Options	<ul style="list-style-type: none"> <li>■ Individual outrigger actuation</li> <li>■ Additional pushing blade for 4-point outrigger (front or rear)</li> <li>■ 2-point claw support and stabilizer blade (front or rear)</li> <li>■ Protection for the travel drive</li> <li>■ Towing pintle</li> <li>■ Access ladder with tool box between wheels on both sides of undercarriage</li> </ul>

## ATTACHMENTS

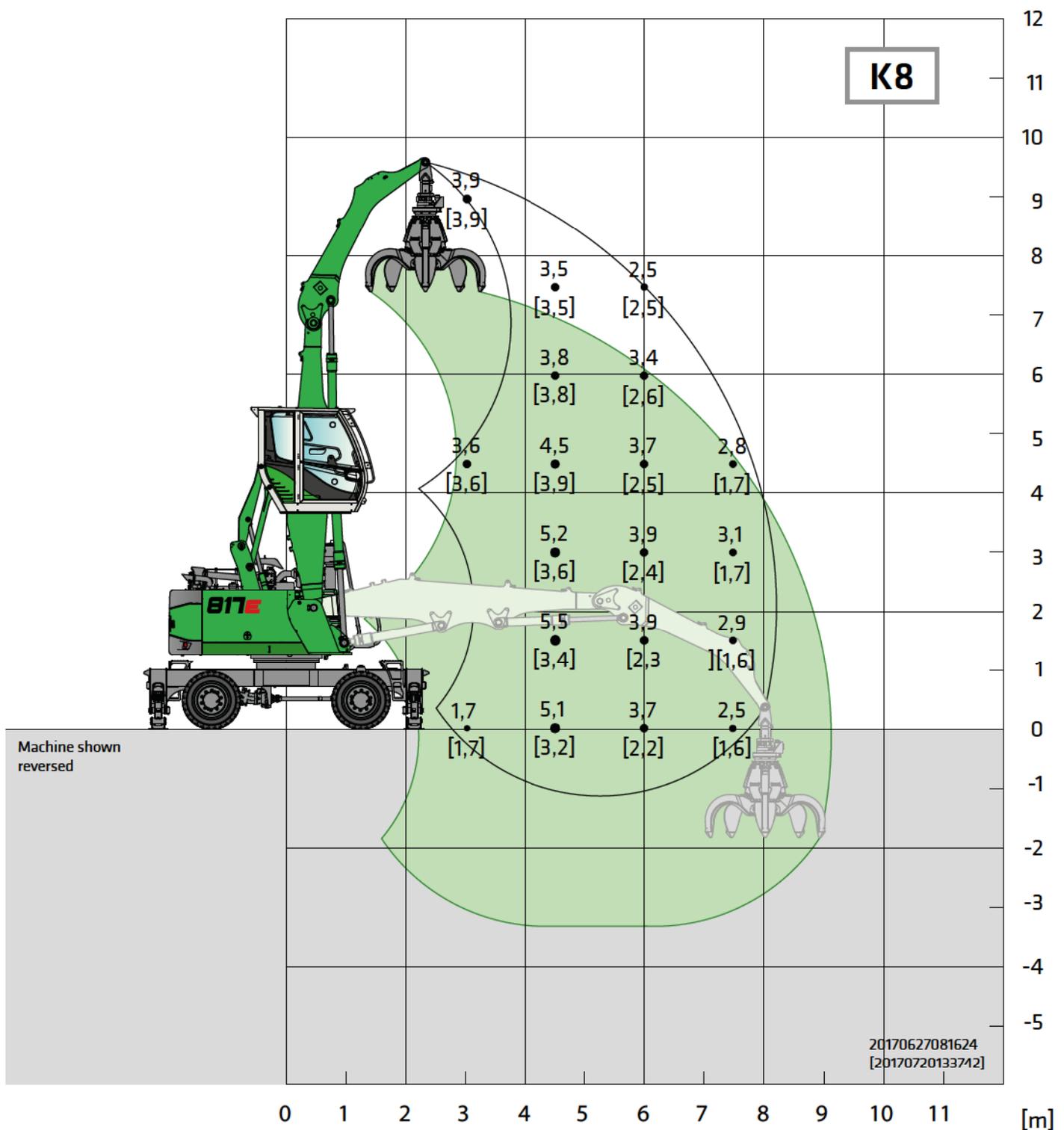
Design	Sealed and soiling-protected box design with oversized bearing points for long service life. Oversized bearing points with low-maintenance, sealed special bushings, precision-crafted
Cylinders	Special hydraulic cylinder with hydraulic end position damping, optimized kinematics for high lifting power. The material handling attachment is specifically designed for high-performance applications.
Options	<ul style="list-style-type: none"> <li>■ Ball valves on the grab's hydraulic cables</li> <li>■ Multi-coupling</li> <li>■ Adjustable hoisting limiter/stick limiter</li> <li>■ Automatic central lubrication system</li> <li>■ Pipe fracture safety devices for hoist/stick cylinder</li> <li>■ Capacity utilization display</li> <li>■ Cameras can be positioned anywhere</li> <li>■ Work area restriction with adjustable reach, height, and slewing angle</li> <li>■ Boom damping</li> </ul>

## OPERATING WEIGHT

Mass	817 M with 4-point outrigger, K8 compact loading attachment and 500 l multi-shell grab <b>Approx. 17,200 kg</b>
Notice	Operating weight varies by model and equipment.



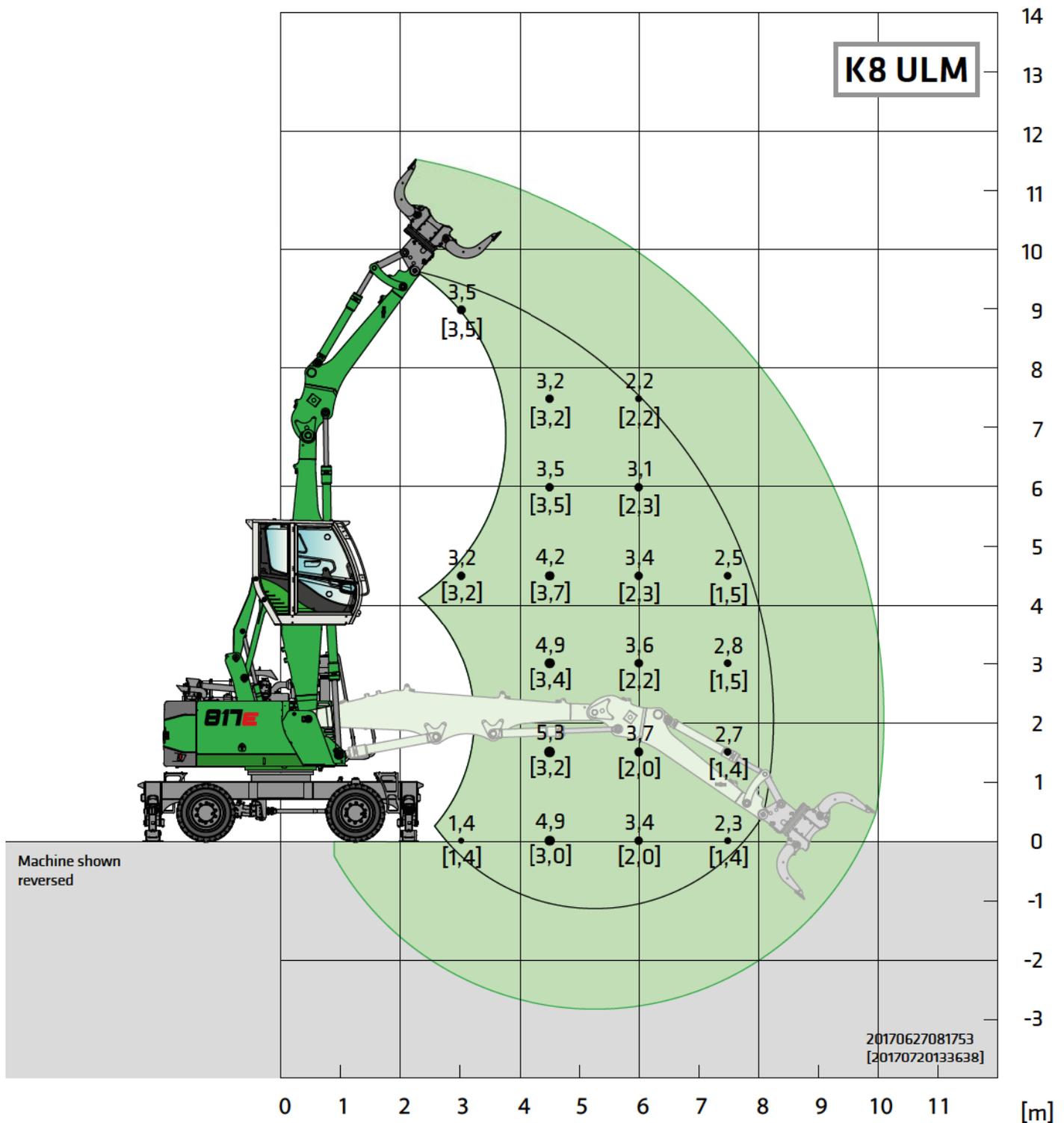
# 817E Load ratings



Undercarriage	MP17	Compact boom Dipper stick	4.8 m 3.3 m	Cab	MultiCab E240, hydraulically elevating
---------------	------	------------------------------	----------------	-----	---

All load ratings are specified in tons (t) and apply at the end of the stick, without attachment, on solid, level ground. Attachments such as grapples, magnets, load hooks, etc. are part of the specified load ratings. The specified values are 75% of the static tipping load or 87% of the hydraulic lifting force in accordance with ISO 10567. In accordance with EU standard EN 474/5, material handlers used for hoisting must be equipped with pipe fracture safety devices on the hoist cylinders and an overload warning device. Load ratings apply to a machine with deployed 4-point outrigger support and 360° slewing. Load ratings in square brackets [ ] apply to blocked pendulum axle, undeployed outriggers, free-standing, and 360° slewing.

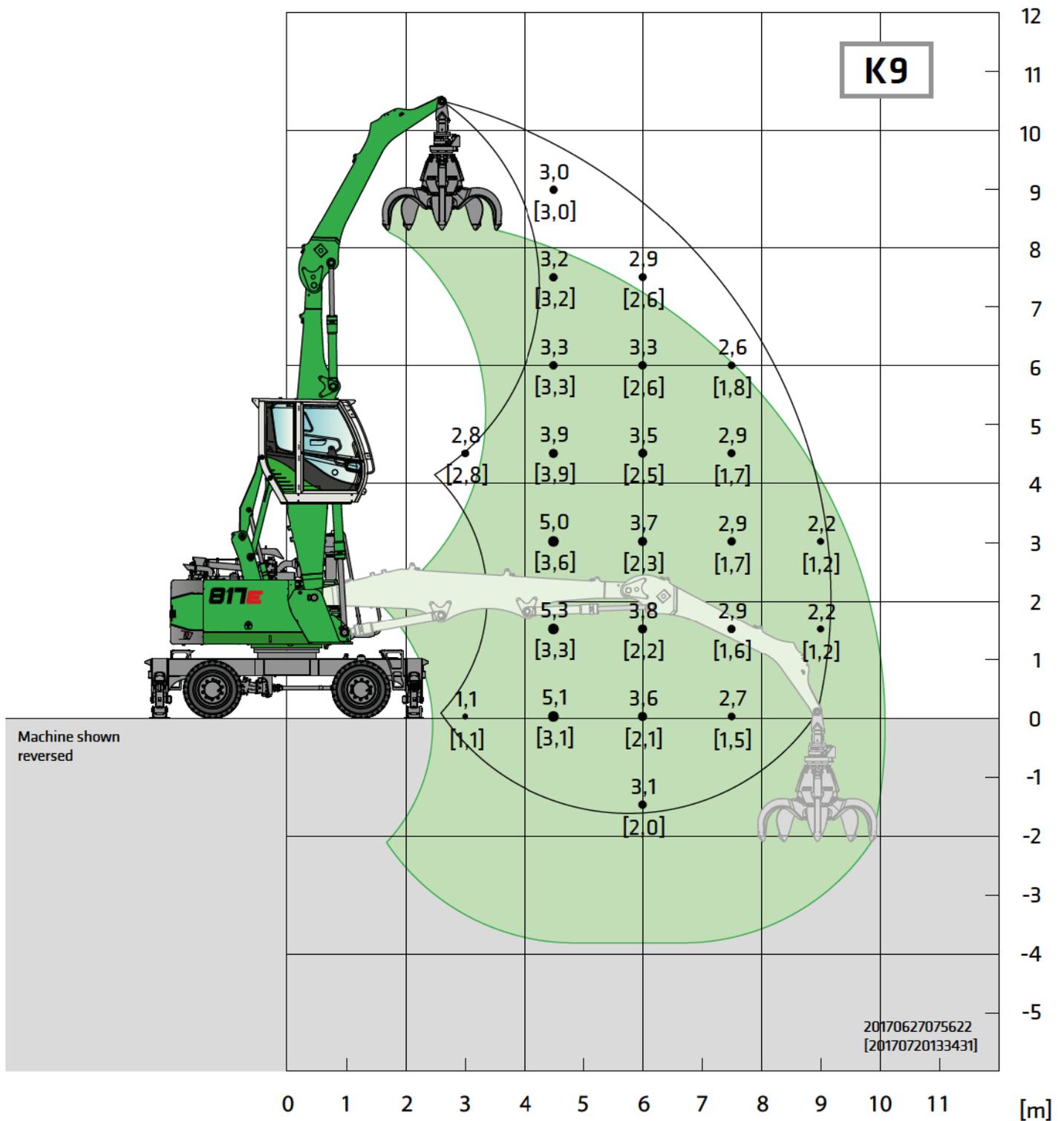
# 817E Load ratings



<b>Undercarriage</b>	<b>MP17</b>	<b>Compact boom Dipper stick</b>	<b>4.8 m 3.3 m ULM</b>	<b>Cab</b>	<b>MultiCab E240, hydraulically elevating</b>
----------------------	-------------	--------------------------------------	----------------------------	------------	---

All load ratings are specified in tons (t) and apply at the end of the stick, without attachment, on solid, level ground. Attachments such as grapples, magnets, load hooks, etc. are part of the specified load ratings. The specified values are 75% of the static tipping load or 87% of the hydraulic lifting force in accordance with ISO 10567. In accordance with EU standard EN 474/5, material handlers used for hoisting must be equipped with pipe fracture safety devices on the hoist cylinders and an overload warning device. Load ratings apply to a machine with deployed 4-point outrigger support and 360° slewing. Load ratings in square brackets [ ] apply to blocked pendulum axle, undeployed outriggers, free-standing, and 360° slewing.

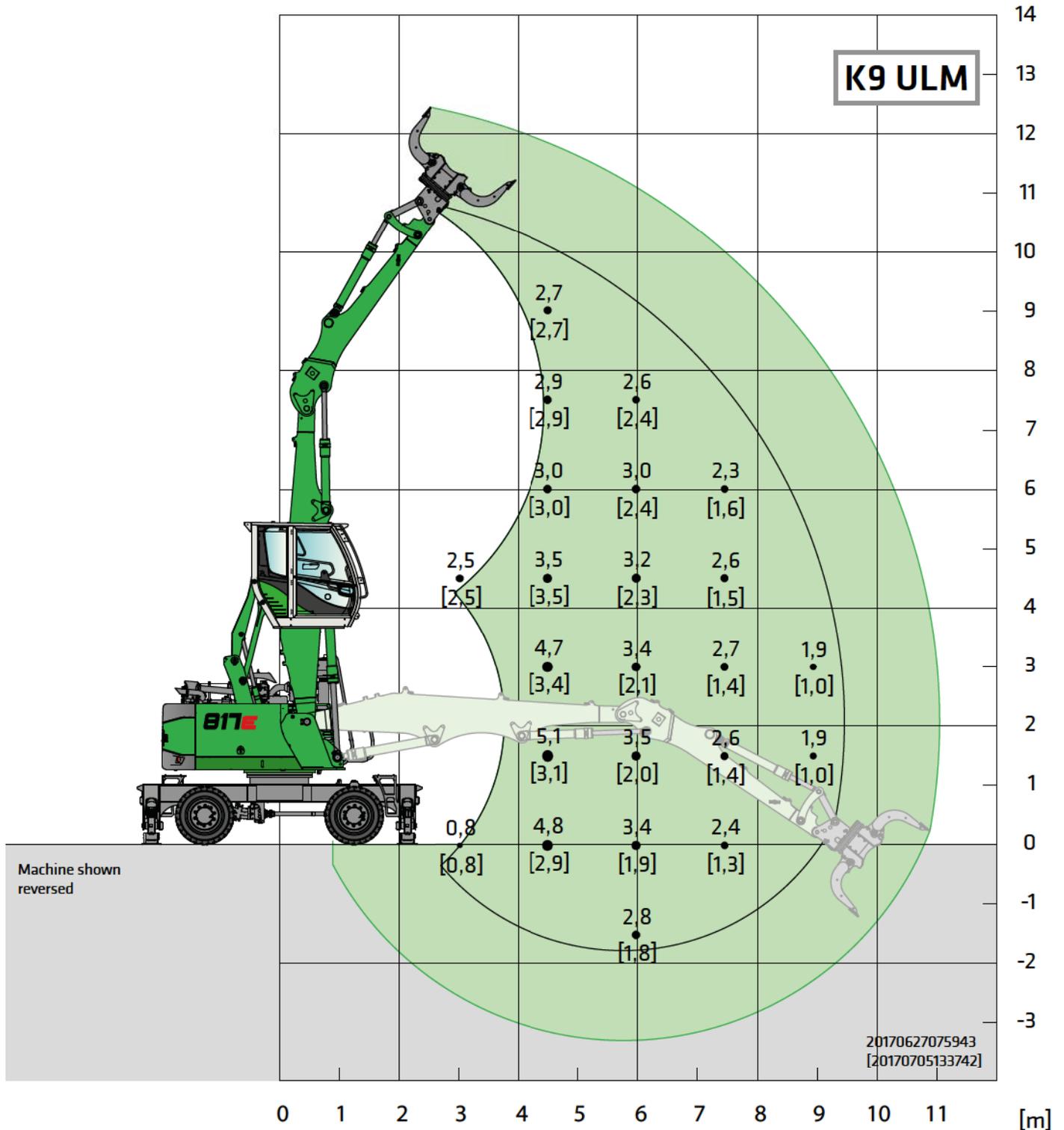
# 817E Load ratings



Undercarriage	MP17	Compact boom Dipper stick	5.3 m 3.8 m	Cab	MultiCab E240, hydraulically elevating
---------------	------	------------------------------	----------------	-----	---

All load ratings are specified in tons (t) and apply at the end of the stick, without attachment, on solid, level ground. Attachments such as grapples, magnets, load hooks, etc. are part of the specified load ratings. The specified values are 75% of the static tipping load or 87% of the hydraulic lifting force in accordance with ISO 10567. In accordance with EU standard EN 474/5, material handlers used for hoisting must be equipped with pipe fracture safety devices on the hoist cylinders and an overload warning device. Load ratings apply to a machine with deployed 4-point outrigger support and 360° slewing. Load ratings in square brackets [ ] apply to blocked pendulum axle, undeployed outriggers, free-standing, and 360° slewing.

# 817E Load ratings

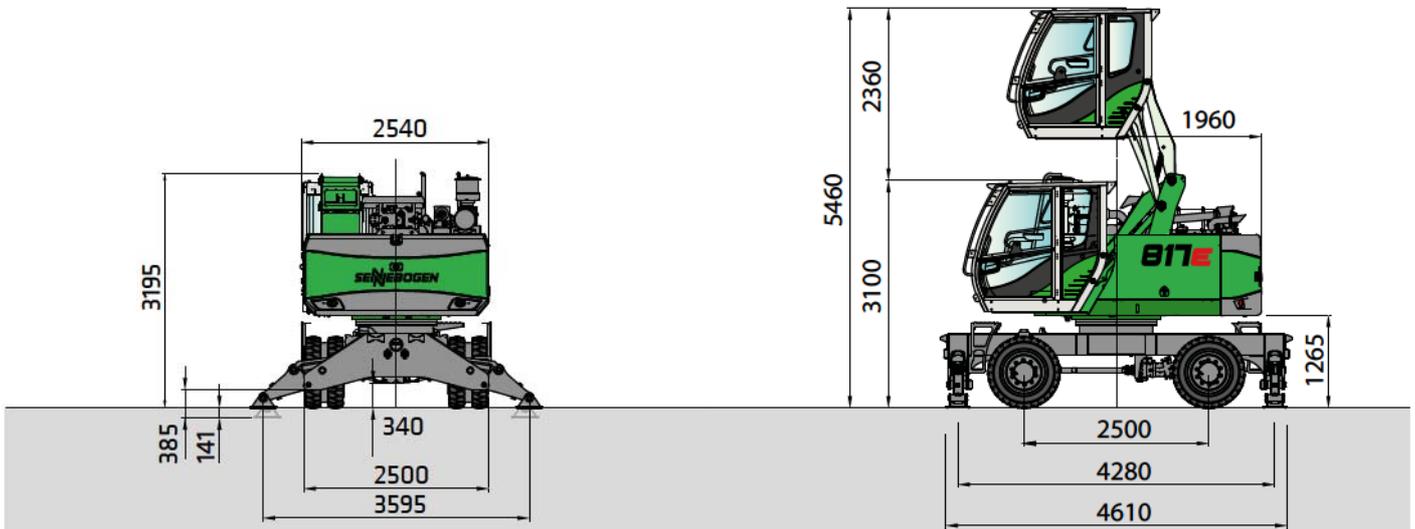


Undercarriage	MP17	Compact boom Dipper stick	5.3 m 3.8 m ULM	Cab	MultiCab E240, hydraulically elevating
---------------	------	------------------------------	--------------------	-----	---

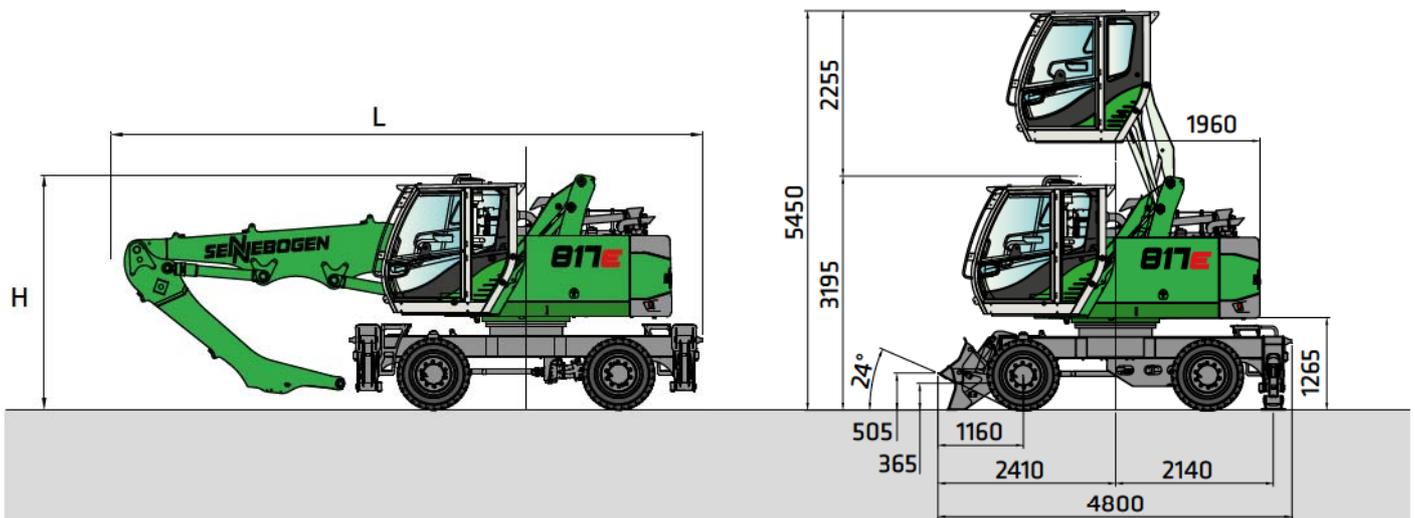
All load ratings are specified in tons (t) and apply at the end of the stick, without attachment, on solid, level ground. Attachments such as grapples, magnets, load hooks, etc. are part of the specified load ratings. The specified values are 75% of the static tipping load or 87% of the hydraulic lifting force in accordance with ISO 10567. In accordance with EU standard EN 474/5, material handlers used for hoisting must be equipped with pipe fracture safety devices on the hoist cylinders and an overload warning device. Load ratings apply to a machine with deployed 4-point outrigger support and 360° slewing. Load ratings in square brackets [ ] apply to blocked pendulum axle, undeployed outriggers, free-standing, and 360° slewing.

# 817E Transport dimensions

Transport width 2,540 mm



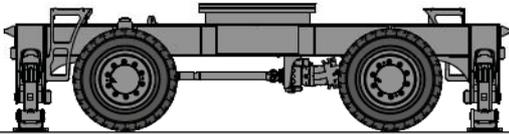
817 M with type MP17 undercarriage and type E240 hydraulically elevating cab



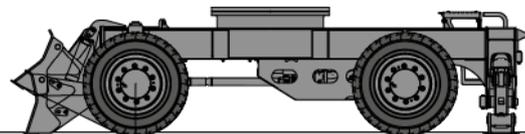
817 M with undercarriage type MP17

	Compact boom	Dipper stick	Transport length (L)	Transport height (H)
K8	4.8 m	3.3 m	8.0 m	3.20 m
K8 ULM	4.8 m	3.3 m	8.0 m	3.20 m
K9	5.3 m	3.8 m	8.5 m	3.20 m
K9 ULM	5.3 m	3.8 m	8.5 m	3.20 m

# 817E Undercarriage



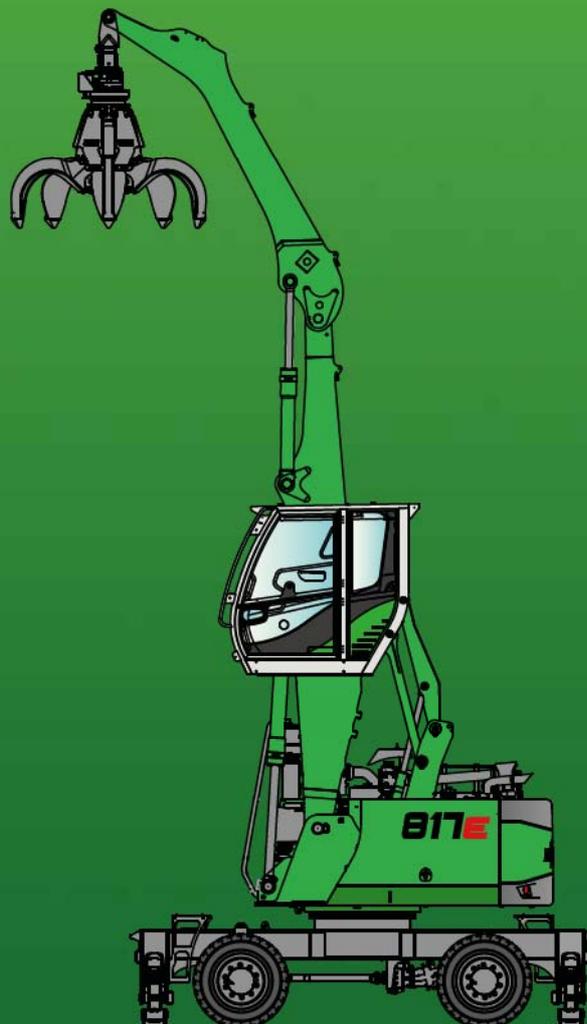
817 M 4-point outrigger



817 M 2-point outrigger with dozer blade



# 817E



This catalog describes machine models, scopes of equipment of individual models, and configuration options (standard equipment and optional equipment) of the machines supplied by SENNEBOGEN Maschinenfabrik GmbH. Machine illustrations can contain optional equipment and supplemental equipment. Actual equipment may vary depending on the country to which the machines are delivered, especially in regard to standard and optional equipment. All product designations used may be trademarks of SENNEBOGEN Maschinenfabrik GmbH or other supplying companies, and any use by third parties for their own purposes may violate the rights of the owners.

Please contact your local SENNEBOGEN sales partner for information concerning the equipment variants offered. Requested performance characteristics are only binding if they are expressly stipulated upon conclusion of the contract. Delivery options and technical features are subject to change. Errors and omissions excepted. Equipment is subject to change, and rights of advancement are reserved. © SENNEBOGEN Maschinenfabrik GmbH, Straubing, Germany. Reproduction in whole or in part only with written consent of SENNEBOGEN Maschinenfabrik GmbH, Straubing, Germany.

## SENNEBOGEN

**SENNEBOGEN**  
**Maschinenfabrik GmbH**  
Sennebogenstraße 10  
94315 Straubing, Germany

Tel. +49 9421 540-144/146  
Fax +49 9421 43 882  
[marketing@sennebogen.de](mailto:marketing@sennebogen.de)

Order no. / Item no. 299184  
817M-E-091715

GO FOR GREEN

 [www.sennebogen.com](http://www.sennebogen.com)