



123 kW



21.4 t



13 m



**MAXCAB**

# 718E

Machine for fuel wood harvesting  
and landscape conservation

# 718E Advanced. The E-Series.



1974: Timber material handler with elevating operator's cab

## What makes up the E-Series

- More than 60 years of experience in designing and constructing hydraulic material handling machines
- Uncompromisingly high performance in all areas: focus on material handling
- Technology that can be mastered: high-quality components without over-engineering
- Long product service life and high value retention

## 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 operating comfort**  
Comfortable Maxcab operating cab – relaxed work  
SENCON – SENNEBOGEN Control System



**4 Maximum safety**  
Safe entry and exit – non-slip steps  
State-of-the-art cameras – entire work area in view

**5 Maintenance and service made easy**  
Easy fault diagnosis – central reading points  
Easy maintenance – clear labeling

**6 Consultation and support**  
3 production sites – 2 subsidiaries  
180 sales partners – over 300 service stations







Cable yarding operation on the logging trail with harvester unit



# 718E The All-rounder



Cutting back vegetation on roads and forest paths



Safe and wide-reaching processing of embankments



Removal of problematic trees from low safety distances



Working on the logging trail (with harvester unit)

## The ideal solution for:

- » Landscape conservation, gardening and landscaping companies
- » Service providers for forestry and tree care
- » Producers of fuel wood / biomass / woodchips
- » Producers of organic waste/compost
- » Municipal service providers, road construction offices
- » Water construction, management and maintenance authorities
- » Municipal road maintenance offices
- » Saw mills, timber logistics companies





**1.7 t load capacity  
at 13 m reach**

Use in environmentally sensitive areas thanks to biodegradable oils and lubricants

Numerous attachments – wide range of possible applications

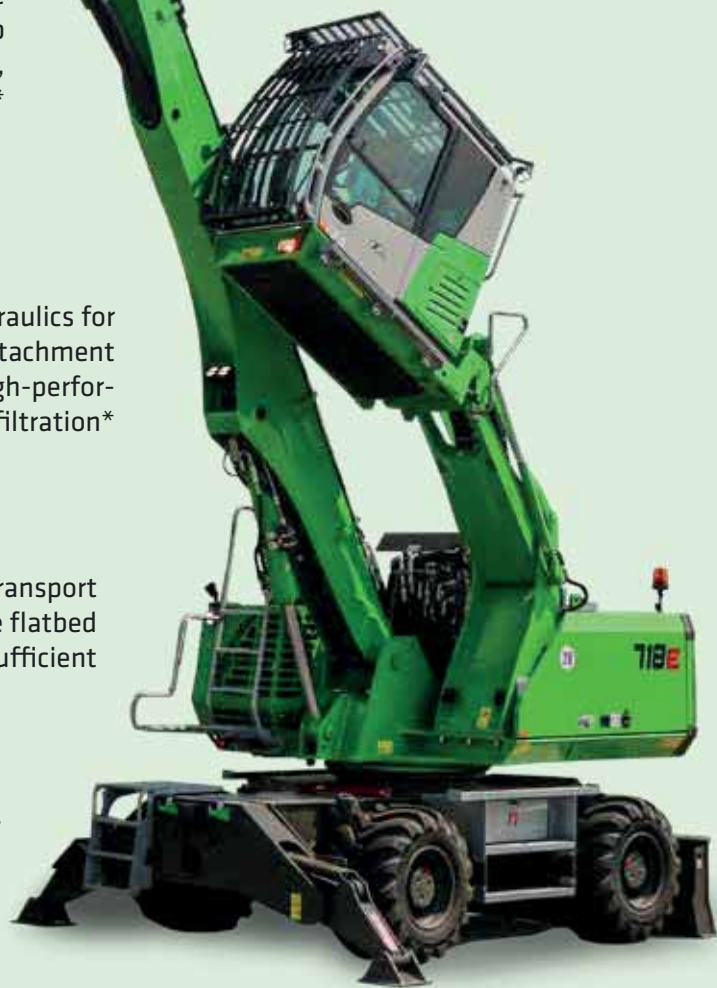
Huge working area  
Telescoping boom, reach of 11 m to 13 m

Safe with best possible overview – elevating cab with eye-level of 5.50 m, tiltable cab\*

Additional hydraulics for harvester attachment with special high-performance filtration\*

Fast loading – easy to transport weighs under 22 t, 3-axle flatbed trailer sufficient

Stable undercarriage with forestry tires, high ground clearance, can travel on roads



# 718E The E-Series. At a glance.



## Four ways to save fuel

- Savings of up to 20 %: Work 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 after treatment



## Quiet operation 3

- Consistently quiet operation thanks to decoupled engine mounts and sound proofing in the doors
- Sound pressure level in accordance with 2000/14/EC as much as 2 dB lower than required

## High-capacity cooling 4

- Constant, reliable performance thanks to large-scale, robust fans and coolers
- Water and oil coolers with top-notch efficiency thanks to axial-piston pump and motor control and on-demand thermostatic control
- Fan reversal for cleaning in series





## Maximum safety

- Ideal overview thanks to elevating cab **1**
- Peripheral railings (option) **2**
- 2 cameras (right and rear)
- Large single tires
- Emergency control (series)
- Manageable electronics without over-engineering

## Powerful hydraulic system **5**

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

\* optional



The premium cab.



Panoramic view

Optional convenient joystick steering

Sliding door

## Equipment features

- optimal indoor climate with automatic climate control, partly tinted windows
- comfortable even temperature distribution via 9 air vents
- panoramic view
- air-suspension comfort seat
- quiet due to optimized soundproofing
- Safety & comfort thanks to the sliding door, large access opening
- operating elements arranged ergonomically
- 12 V, 24 V, and USB charging sockets, cellphone holder, document folder
- various options: electric cooler box behind the driver seat, slip covers, seat climate control

## SENNEBOGEN-Joysticks

- Joysticks mounted on consoles that move with the seat
- Comfortable grip thanks to ergonomic design
- Shortcuts for direct and sensitive control of all functions
- Quicker access thanks to optimized design of buttons and switches







## Optimized for maintenance

- Fast and easy diagnosis thanks to the clearly labeled electrical distributor
- Easy access to all the machine's service points
- Automatic central lubrication for equipment and slewing gear



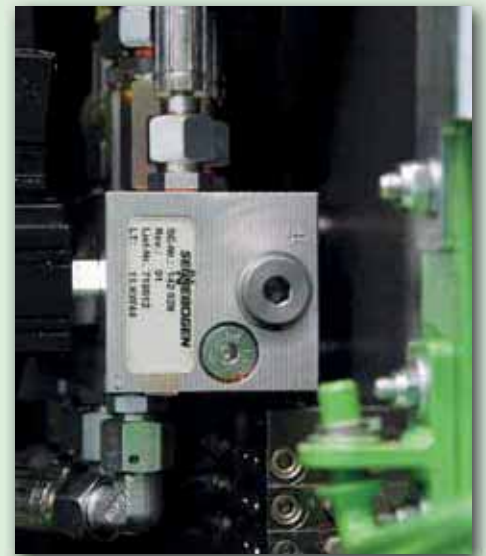
## SENNEBOGEN Hydro Clean\*

- Optimal protection of hydraulic components thanks to 3 µm micro-filter
- Cleaner hydraulic oil, extended oil service life



## Central measuring points

- Easily accessible
- Quick inspection of the entire hydraulic system



## Clear labeling

- All parts labeled with a unique part number
- Easy and reliable spare parts ordering

# 718E Technical data, equipment

## MACHINE TYPE

Model (type) **718**

## ENGINE

**Power**  
**Stage V:**  
 Rated power: 123 kW at 2200 min<sup>-1</sup>  
 max. Power: 126 kW at 2000 min<sup>-1</sup>

**Stage IIIa:**  
 Rated power: 119 kW at 2200 min<sup>-1</sup>  
 max. Power: 123 kW at 2000 min<sup>-1</sup>

**Model**  
**Cummins B 4.5 (Stage V)**  
**Cummins QSB 4.5 (Stage IIIa)**  
 direct injection, turbocharged, charge air cooling, reduced emissions, ECO-Mode, idle automation, diesel particle filter (DPF)

**Cooling** water-cooled

**Air filter** Dry air filter with integrated pre-filter, safety element, contamination indicator

**Fuel tank** **300 l**

**DEF tank** **30 l**

**Electr. system** **24 V**

**Batteries** 2 x cold-start high-performance batteries

**Options**

- Engine block heater
- Diesel refueling pump
- Jump-start terminals for batteries
- Additional cyclone pre-filter

## 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, lockable storage compartment, outstanding design, very low noise emissions

**Central lubrication** Automatic central lubrication for equipment and slewing gear

**Electrical system** Central electrical distributor, battery disconnect switch

**Cooling system** 3-circuit cooling system with high cooling output, thermostatically regulated fan drive for oil cooler and water cooler, fan reversal for cleaning

**Safety** Cameras on the right side and rear, emergency control of the main functions

**Options**

- Swing bearing brake via foot pedal
- Comprehensive uppercarriage railings
- LED lighting package
- Fire extinguisher
- Special paint finish
- Electric heater for hydraulic tank
- Low temperature package
- Platform with railing next to cab

## HYDRAULIC SYSTEM

Load-sensing / LUDV hydraulic system for work and travel systems

**Pump type** Swash plate-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

**Supplementary hydraulics (only on Energy)** Large-scale supplementary hydraulics to independently drive different attachments without impairing the main functions

**Operating pressure** **up to 350 bar**

**Filtration** High-performance filtration with long change interval

**Flow rate** Main pump: **310 l/min**  
 Supplementary: **182 l/min at 200 bar**

**Hydraulic tank** **350 l**

**Control system** Proportional, precision hydraulic actuation of work movements, 2 hydraulic servo joysticks for the work functions, additional functions via switches and foot pedals

**Safety** All hydraulic circuits secured with safety valves, hydraulic accumulator for emergency lowering of equipment and cab in the case of engine failure  
 pipe-fracture safety valves for stick cylinders and hoist cylinders

**Options**

- 3 µm hydraulic micro-filter system SENNEBOGEN HydroClean
- Bio-oil – environmentally friendly
- Tool Control for controlling different attachments
- Pressure filter for attachments

## SLEWING DRIVE

**Gearbox** Planetary gears with axial piston engine, integrated brake valves



**Parking brake** Spring-loaded, hydraulically ventilated multi-disk safety brake


**Slewing ring** Large-scale slewing ring


**Slewing speed** 0-8 min<sup>-1</sup>, variable. Hydraulic brake valves integrated into engine ensure wear-free braking.




# 718E Technical data, equipment

 <b>CAB</b> 	
Cab type	E270 hydraulically elevating cab
Cab equipment	Comfortable operator cab with sliding door incl. sliding window, steering wheel control, vibration damper, tinted safety glass, opening windshield, skylight, windshield wipers, radio with antenna and loud speaker, 2 floodlights integrated into the front of the roof, SENCON control and diagnostic system
Options	<ul style="list-style-type: none"> <li>■ Tiltable cab, 30°</li> <li>■ Auxiliary heating system with timer</li> <li>■ Active seat climate control</li> <li>■ Joystick controls</li> <li>■ Sliding window in operator door</li> <li>■ Bullet proof skylight</li> <li>■ Safety side window and rear window made of polycarbonate</li> <li>■ Windshield wipers with wipe-wash function for front and rear windows</li> <li>■ Sunblind for skylight and windshield</li> <li>■ Protective roof grating</li> <li>■ FOPS protective roof grating</li> <li>■ Protective front grating</li> <li>■ Radio with speakers</li> </ul>

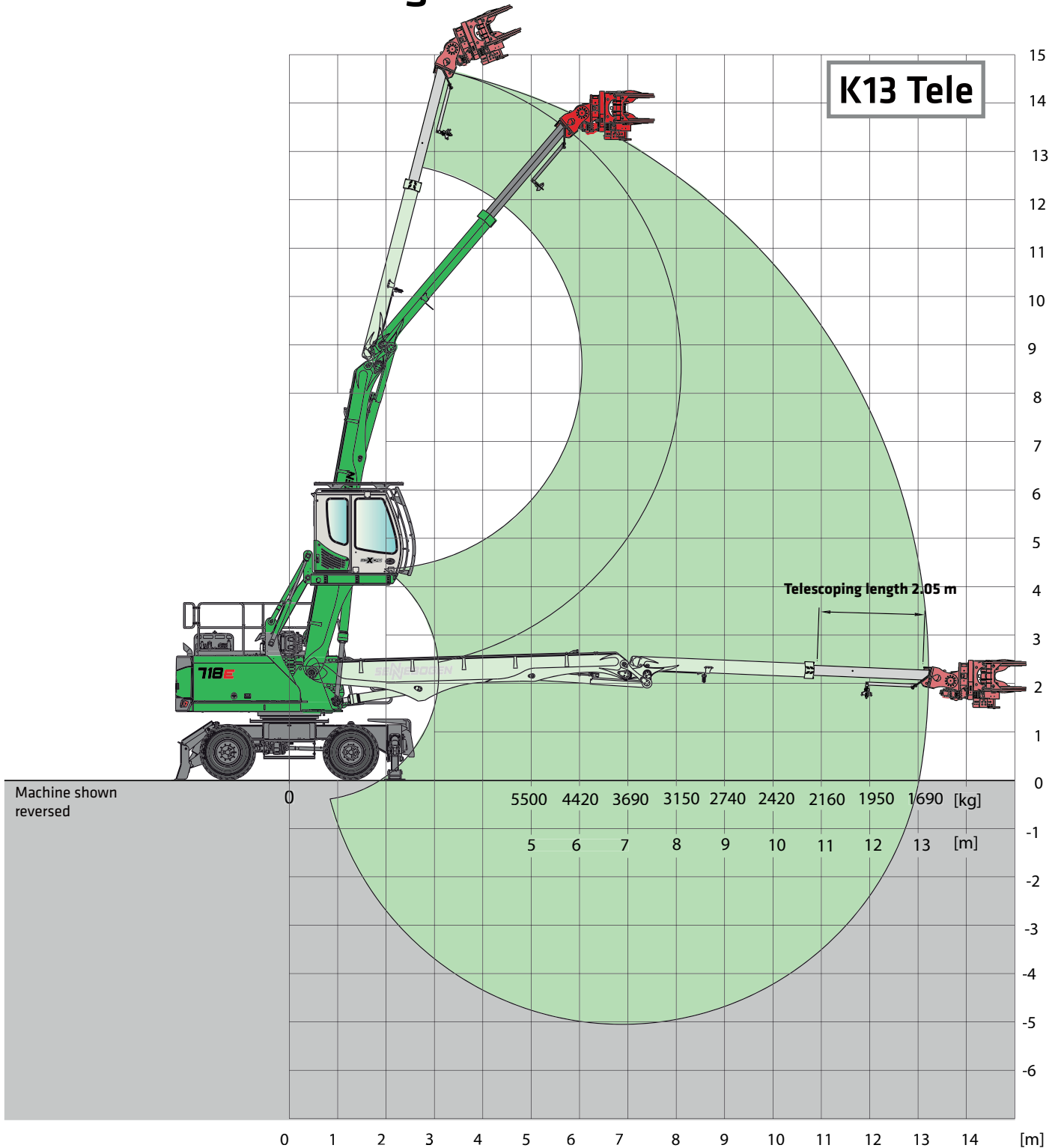
 <b>EQUIPMENT</b>	
Design	Sealed and soiling-protected box design with large-scale bearing points for long service life. Large-scale bearing points with low-maintenance, sealed special bushings, precision-crafted
Cylinders	Special hydraulic cylinder with hydraulic end position damping, optimized kinematics for high lifting power. The material handling attachment is specifically designed for high-performance applications.
Central lubrication	Automatic central lubrication system

 <b>UNDERCARRIAGE</b>	
Design	Strong mobile undercarriage with combination of stabilizer blade and outrigger, hydraulically locking pendulum steering axle. Pendulum axle cylinder with pipe-fracture safety valves, individual outrigger actuation
Drive	All-wheel drive powered by a direct-mounted variable-displacement hydraulic engine, automatically operated brake valve and 2 stage powershift transmission. Strong planetary axles with integrated steering cylinder, 2-circuit multi-disk service brake, switch steering direction, switch driving direction
Parking brake	Spring-loaded multi-disk brake
Tires	600/50 - 22.5 single pneumatic tires
Speed	<b>0-5.5 km/h</b> Stage I, <b>0-20 km/h</b> Stage II
Options	<ul style="list-style-type: none"> <li>■ 4-point outriggers</li> <li>■ travel drive protection</li> <li>■ preparation for trailer hitch</li> <li>■ road approval</li> </ul>

 <b>OPERATING WEIGHT</b>	
Mass	718 M with 2-point outrigger and stabilizer blade, equipped with telescopic stick K13T <b>approx. 21,400 kg</b>
Note	Operating weight varies by model and equipment.



# 718E Load ratings



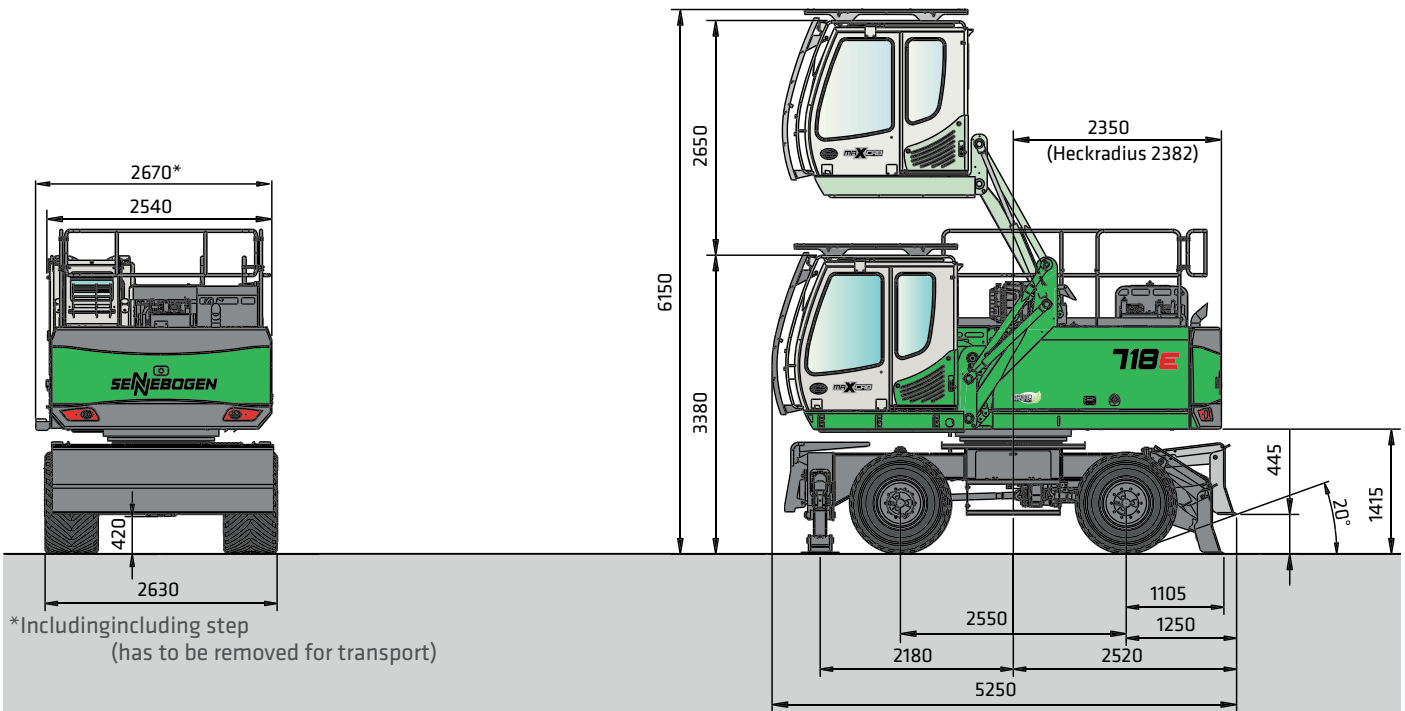
<b>Undercarriage</b>	<b>MP21</b>	<b>Compact boom</b>	<b>6.5 m</b>	<b>Cab</b>	<b>Maxcab E270, hydraulically elevating</b>
		<b>Grab stick</b>	<b>4.2 m + 2.05 tele</b>		

All load ratings are in kilograms (kg) and apply at the end of the stick, without attachment, on solid, level ground. 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 EN474/5, 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 outrigger and for 360° slewing.

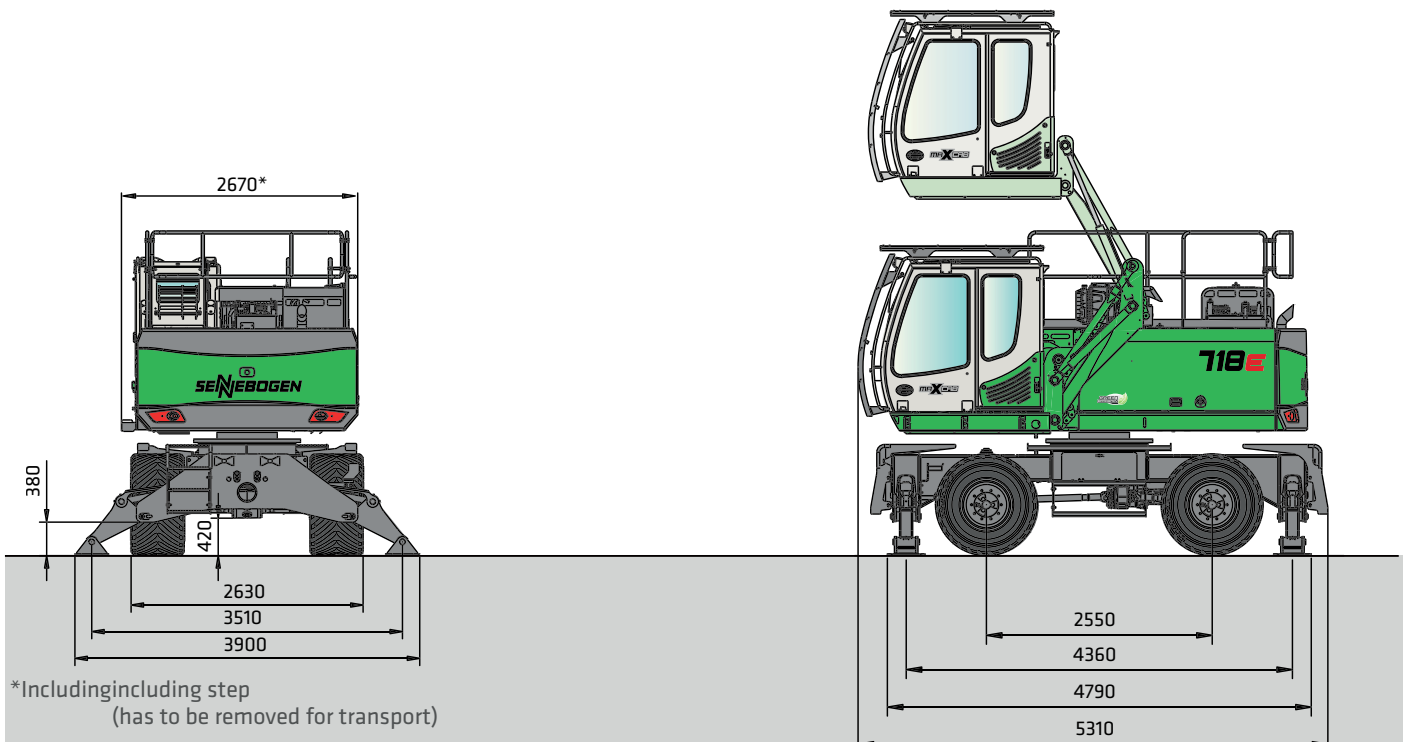


# 718E Dimensions

Transport width 2,630 mm

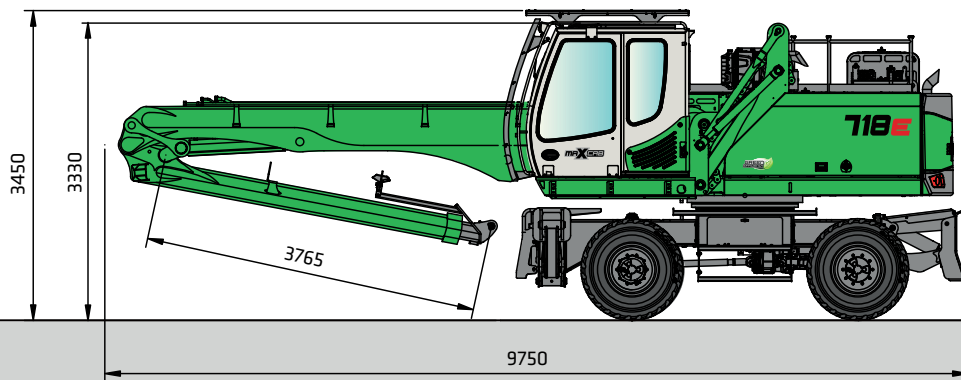


718 M with MP21 undercarriage with 2-point outrigger and stabilizer blade and type E270 hydraulically elevating cab

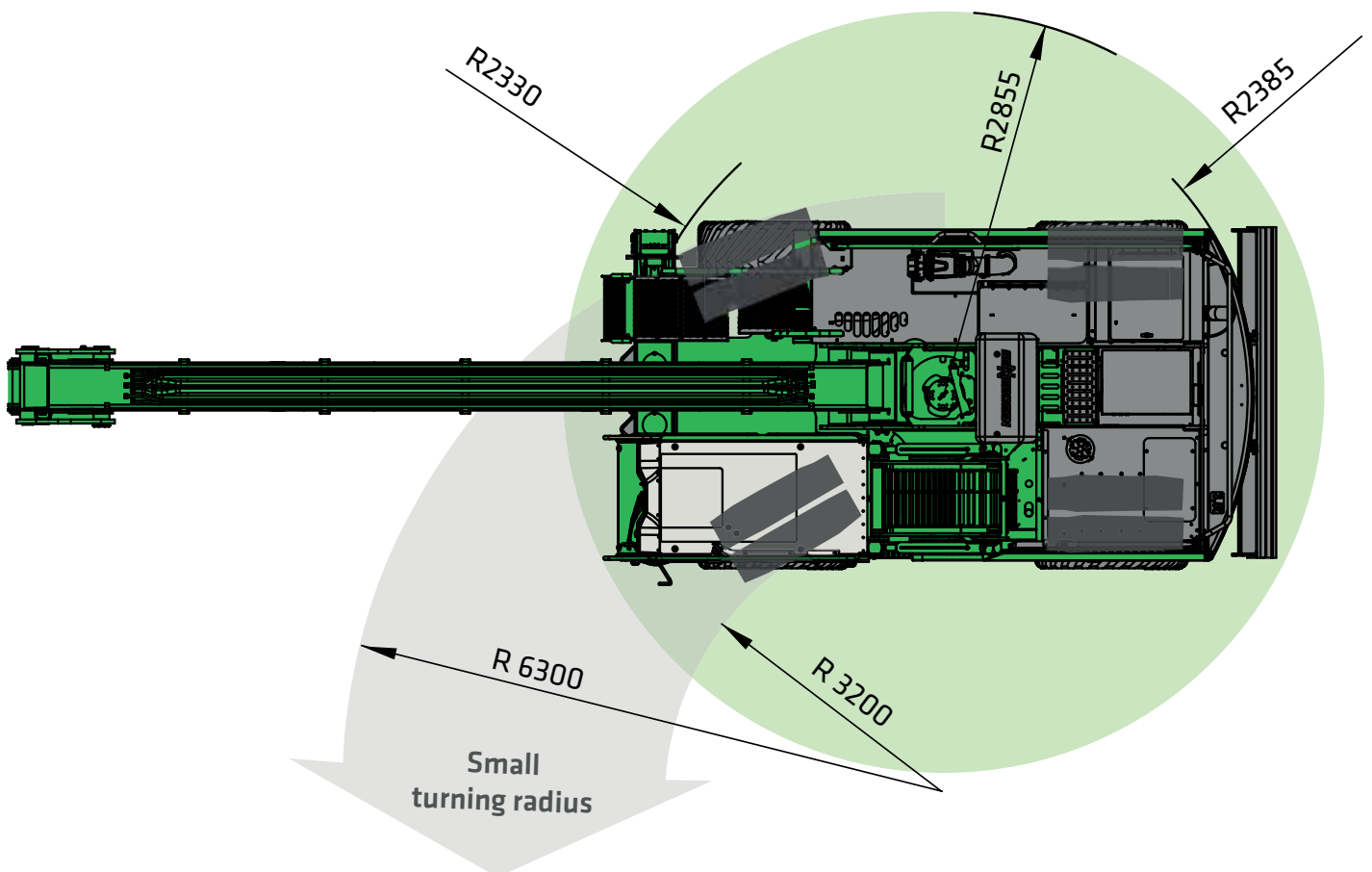


718 M with MP21 undercarriage with 4-point outrigger and type E270 hydraulically elevating cab

# 718E Dimensions



718 M transport dimensions with K13 6.5 m compact boom and 4.2 m grab stick + 2.05 m telescope



718 M slewing radius/turning radius



# 718E One machine - manifold applications



Handling logs with grab saw



Problematic tree felling with grab saw

Note: These pictures show job applications with different attachments. The attachments and their controls are not included in SENNEBOGEN's scope of supply. On request, Sennebogen Vertriebs GmbH & Co KG offers project-related implementation.



# 718E One machine - manifold applications



Embankment maintenance with mulcher



Container loading with orange peel grab



Embankment maintenance with cutting head



Embankment maintenance with cutting head



Embankment maintenance with grab saw



# 718E One machine - manifold applications



Embankment maintenance along a busy road



Embankment maintenance with mulcher



Problematic tree felling with grab saw

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# 718E One machine - manifold applications



Embankment maintenance with mower



WATCH VIDEO



Cable yarding operation with harvester unit

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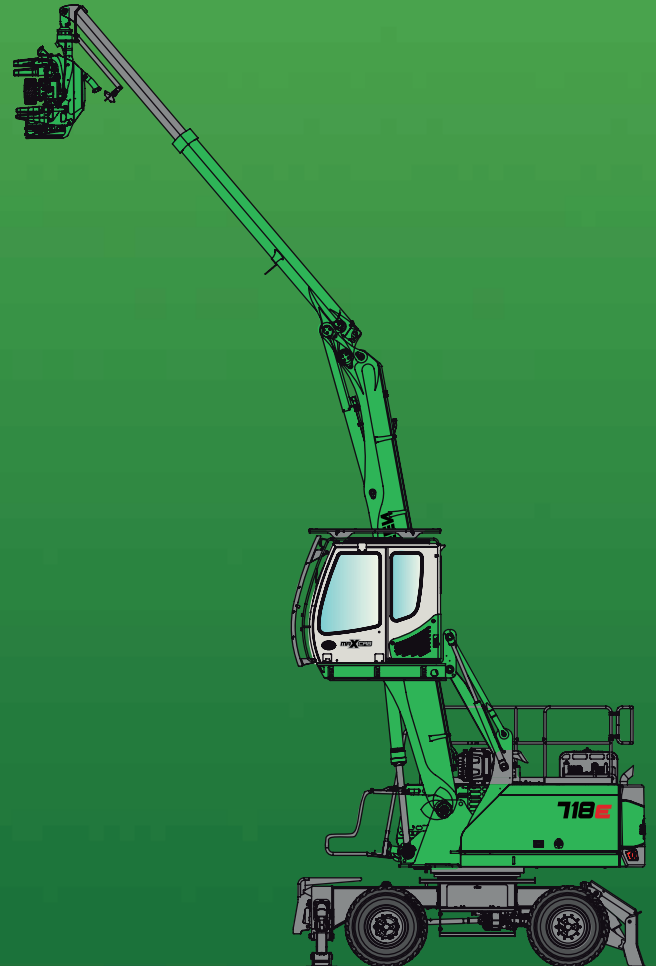
# 718E One machine - manifold applications



Easy transport by truck

Note: These pictures show job applications with different attachments. The attachments and their controls are not included in SENNEBOGEN's scope of supply. On request, Sennebogen Vertriebs GmbH & Co KG offers project-related implementation.

# 718E



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