





115 kW (Stage V) 97 kW (Stage IIIa) 90 kW (Electro)



21,8 t



10 m







Mobile material handling machine

B18 Advanced. The E-Series



1962: rope-driven S833 with elevated operator cab

What makes up the E-Series

- More than 65 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: Highquality components without over-engineering
- Long product service life and high value retention

Your top benefits

- Green Efficiency

 Save fuel reduce operating costs

 Work quietly protect operator and environment
- Peak performance

 Durable mechanical systems stressed parts optimized

 High speeds high load capacities
- Maximum usability

 Comfortable Maxcab operator cab relaxed work

 SENCON work program selection made easy
- Maximum safety

 Safe entry and exit no-slip steps

 State-of-the-art camera entire work area in view
- Maintenance and service made easy
 SENNEBOGEN Control System SENCON easy fault diagnosis
 Easy Maintenance clear labeling
- Consultation and support in your area
 3 production sites 2 subsidiaries
 more than 130 sales partners worldwide and also in your area







Subject to technical changes. Further options available upon request.

B18 The E-Series. At a glance.



Four ways to save fuel

- Up to 20% savings: working in Eco Mode with reduced engine speed
- Idle automation reduces speed to 40% of operating speed
- Stop automation switches the engine off when not needed
- Optimized settings of engine and hydraulics reduces fuel consumption





Quiet operation 1

- Consistently quiet operation thanks to decoupled engine mounts and soundproofing in the doors
- Soundpower level according to 2000/14/EC up to 2 dB lower than required

High-capacity cooling <a>I

- Constant, reliable performance thanks to largedimensioned and 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





Powerful hydraulic system **s**

- 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 special oil with extended service life when using SENNEBOGEN HydroClean*

The premium cab.



Features

- optimum cab climate with automatic air conditioning system, partial tinted glass
- pleasant and equal temperature dispersion by means of 9 nozzles
- panoramic view
- comfort seat with air suspension
- very quiet through optimized noise insulation
- Highest safety & comfort with sliding door, wide door opening
- ergonomically arranged operating controls for fatigue-free and relaxed working
- 12 V, 24 V, and USB charging sockets hands-free telephone preparation, document box
- various options: electric cooler behind operator`s seat, protective covers, seat air conditioning

SENNEBOGEN joysticks

- consoles and ergonomic joysticks that move with the seat
- pleasant grip through ergonomic design
- precise control of all movements through direct and sensitive function activation
- quick access to all operating controls through optimized design of all push-buttons and switches

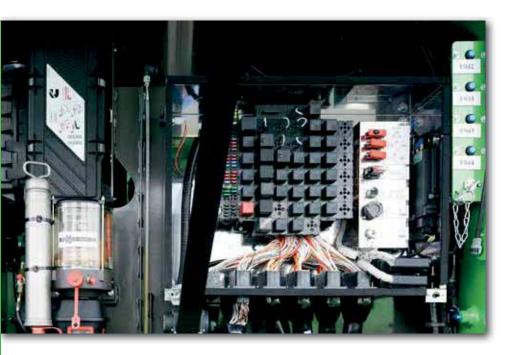








B18 Maintenance and service made easy.



Optimized for maintenance

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



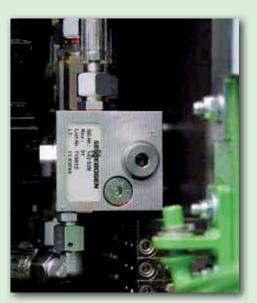
SENNEBOGEN Hydro Clean*

- Optimal protection of hydraulic components thanks to 3 µm microfilter
- Cleaner hydraulic oil, longer service life



Central measuring points

- Easily accessible
- Quickly inspect entire hydraulic system



Clear labeling

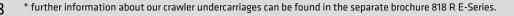
- All parts labeled with a unique part number
- Easy and reliable spare parts ordering

* Option



B18 Modular design - versatile solutions

Equipment options (others available upon request) **Attachments** Orange peel grab Clamshell grab Magnetic plate Scrap metal shears Sorting grab К9 **K9 ULM** K10 **K10 ULM** Cabs Uppercarriage Cab elevation Diesel-hydraulic drive M Electrohydraulic drive E270 Maxcab Industry Motorized cable reel **Options Transformer Undercarriage variants** max. 0,5 m Mobile M Crawler 4-point pedestal R25/240*





B18 Advantages at a glance



B18 Technical data, equipment

MACHINE TYPE

Model (type) 818

ENGIN	E				
Power	97 kW at 2200 rpm (Stage IIIa) 115 kW at 2200 rpm (Stage V)				
Model	Cummins B 4,5 Stage V Cummins QSB 4,5 Stage IIIa Direct injection, turbo charged, charge air cooler, reduced emissions, Eco Mode, idle au- tomation, stop automation, diesel particulate filter (DPF - only Stage V)				
Cooling	Water-cooled				
Air filter	Dry air filter with integrated pre-separator, safety element, contamination indicator				
Fuel tank	330 l				
DEF tank	30 l				
Electr. system	24 V				
Batteries	2 x cold-start high-performance batteries				
Options	Engine block heaterElectric fuel pumpJump-start battery terminalsadditional cyclone pre-separator				

UPPERCARRIAGE				
Design	Torsion-resistant box design, precision crafted, steel bushings for boom bearings. Extremely service-friendly design, longitudinal engine			
Central lubrica- tion	Automatic central lubrication for equipment and slewing gear			
Electrical sys- tem	Central electrical distributor, battery disconnect switch			
Cooling system	3-circuit cooling system with high cooling out- put, thermostatically regulated fan drive for oil cooler and water cooler, fan reversal for cleaning			
Safety	Camera package (right/rear)			
Options	 Slewing gear brake via foot pedal Hand rail at the upper structure for additional safety LED lighting packages Fire extinguisher Special paint finish Electric heater for hydraulic tank 			

Low-temperature packages

Telematic system SENtrack DS

Hydraulically driven magnetic generator 9 kW

Options	Additional ballast
	Rotating lights and alarm horns

HYDRA	ULIC SYSTEM			
Load sensing / L pilot-controlled	UDV hydraulic system for hydraulic, work 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			
Delivery rate	max. 310 l/min			
Operating pressure	max. 350 bar			
Filtration	High-performance filtration with long change interval			
Hydraulic tank	260 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	Hydraulic circuits secured with safety valves, emergency lowering of the equipment at engine standstill, pipe fracture safety valves for lift cylinder and stick cylinder			
Options	 Bio-oil ToolControl for programming pressure/rate for up to 10 tools Additional hydraulic circuit for shear attachment Load moment warning with capacity utilization indicator Overload safeguard with overload shutdown 3 µm hydraulic micro-filter - SENNEBOGEN HydroClean 			

SLEWING DRIVE				
Gearbox	Compact planetary gear with bent-axis hydraulic engine, integrated brake valves			
Parking brake	Spring-loaded, hydraulically vented safety multi-disk brake			
Slewing ring	Strong slewing ring, sealed			
Slewing speed	0-8 rpm, stepless. Hydraulic brake valves integrated in motor ensure wear-free braking.			



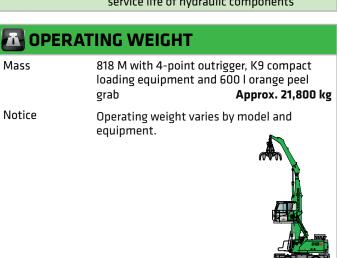
B18 Technical data, equipment

■ CAB	Me X ees
Cab type	Hydraulically elevating cab E270
Cab equipment	Sliding door incl. sliding pane, vibration damped, tinted safety glass, front pane can be opened, roof window, Windscreen wiper for windscreen, radio preparation, air-suspended comfort seat, joystick steering, SENNEBOGEN SENCON control & diagnostic system
Options	 active seat air conditioning Auxiliary heating system with timer Cabs with active carbon filter Armored-glass windshield Armored-glass sunroof Safety side window and rear window Rolling shade for roof window and windshield Protection guards FOPS protective roof grating Protective front grating Radio Maxcab Industry with undivided armored glass windshield electrical cooling box Steering wheel steering 30° tiltable cab Camera for ground monitoring Protective cover for the seat Comfort armrests Protective ventilation system

EQUIPN	MENT			
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 equipment is specifically designed for highperformance applications.			
Central lubrication	Automatic central lubrication system			
Options	 Ball valves on the hydraulic lines Multi-coupling Adjustable hoisting limiter/stick limiter Additional cameras Boom damping 			

UNDER	CARRIAGE			
Design	Strong undercarriage with 4-point outrigger support or combination of stabilizer blade and outrigger support (option), hydraulically locking pendulum steering axle. Pendulum axle cylinder with pipe-fracture safety valves			
Drive	All-wheel drive powered by a variable-displacement hydraulic engine 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 10.00-20 solid rubber			
Speed	Stage I: 0-5.5 km/h ; Stage II: 0-20 km/h			
Options	 8 x 10.00-20 pneumatic tires Individual outrigger actuation Additional pushing blade for 4-point outrigger (front or rear) 2-point outrigger and stabilizer blade (front or rear) Protection for travel drive/shunting coupling Pylon extension 			

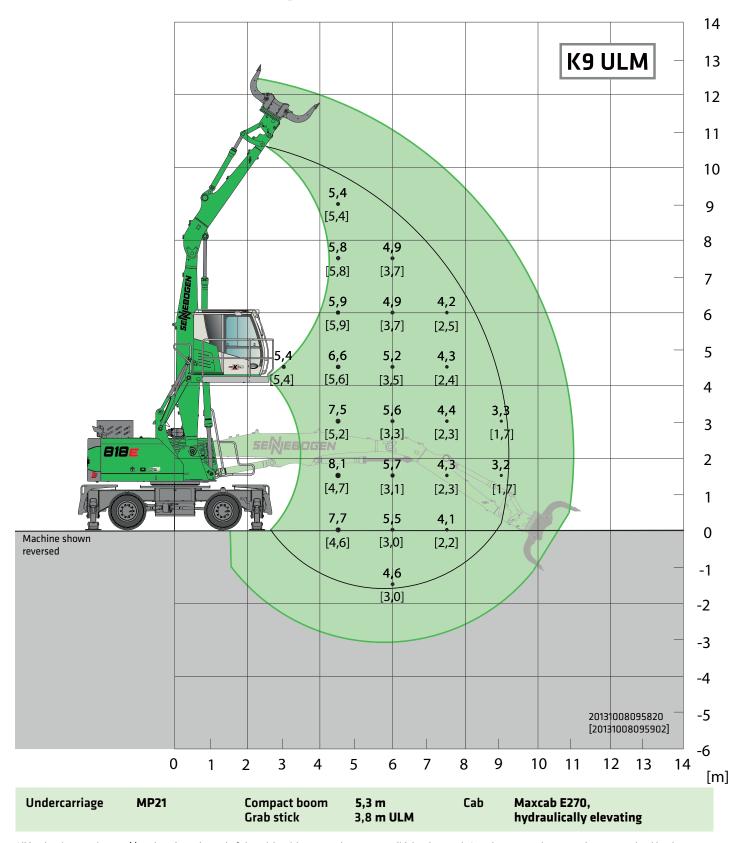
ELE	CTRIC DRIVE GREEN
Option	 Power: 90 kW / 400 V / 50 Hz Total connected load 200 kVA, machine fusing 200 (alternatively 200 A with magnet system) for 400 V, motor start-up via star-delta circuit Advantages: lowest operating costs, quiet and virtually vibration-free work, long service life of hydraulic components



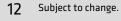
Subject to technical change.

B18 Load ratings

M



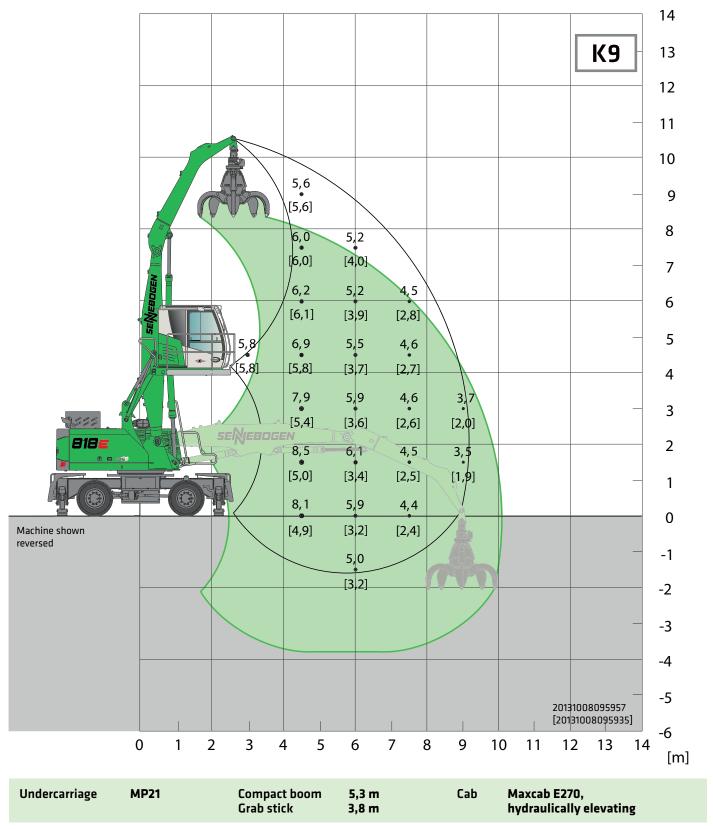
All load ratings are in tons (t) and apply at the end of the stick, without attachment, on solid, level ground. Attachments such as grapple, magnet, load hook, etc. are part of the specified load ratings. The ratings constitute 75% of the static tipping load or 87% of the hydraulic lifting power in accordance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







M

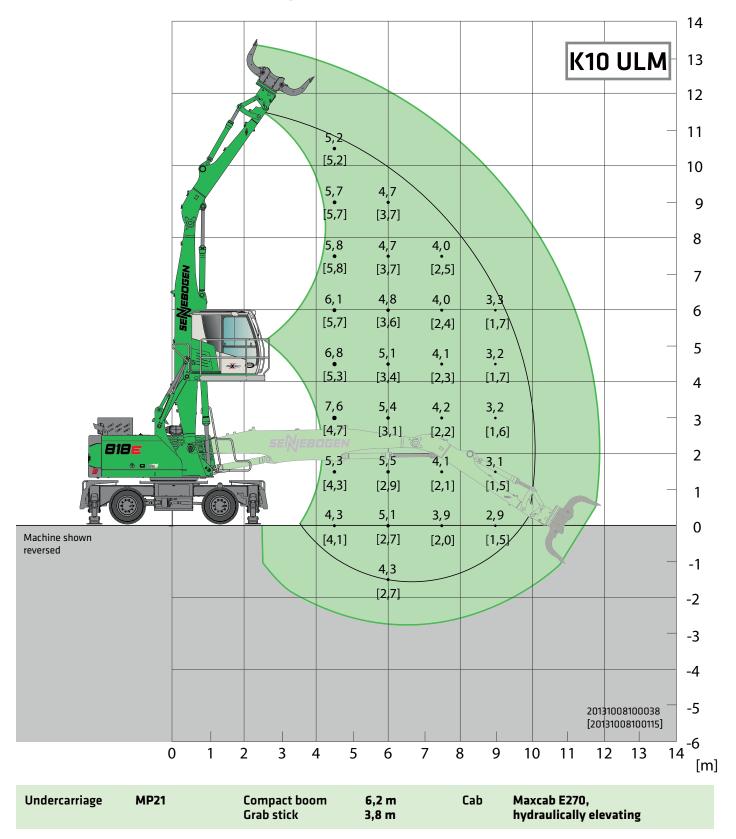


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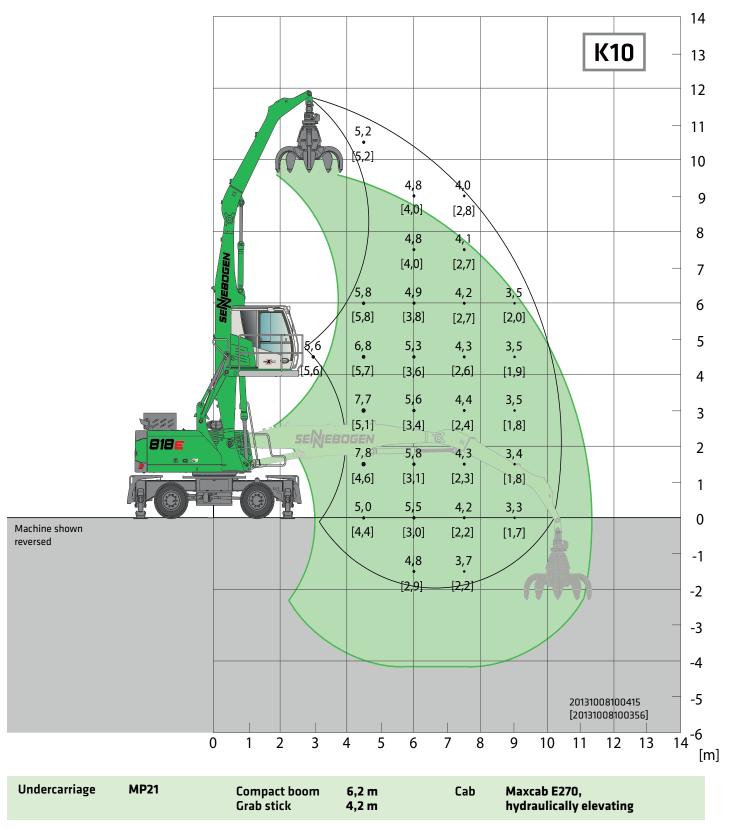
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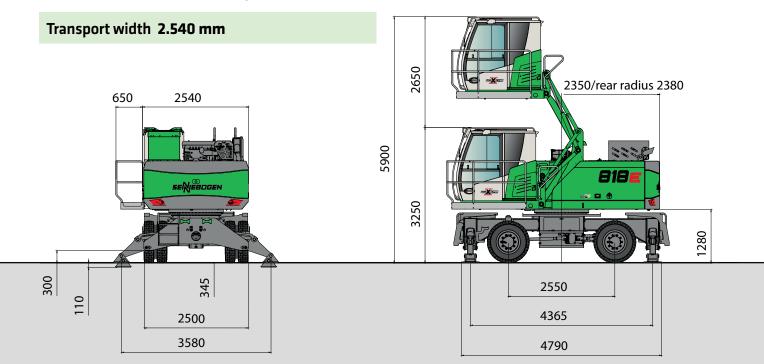


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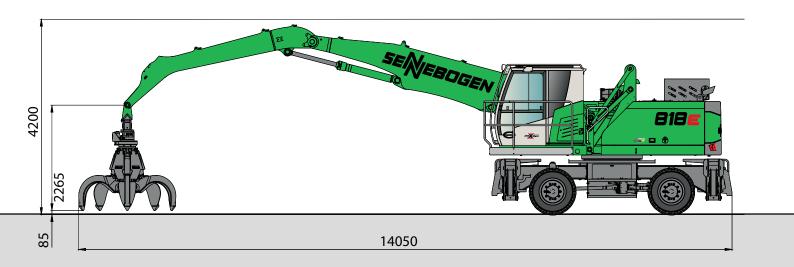
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B18 Transport dimensions

M



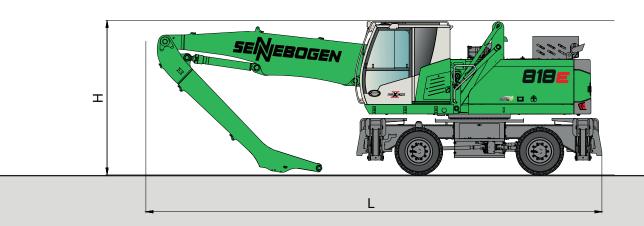
818 M with MP21 undercarriage and type E270 hydraulically elevating cab



818 M with 6.2 m K10 compact boom and 4.2 m grab stick with SENNEBOGEN orange peel grab

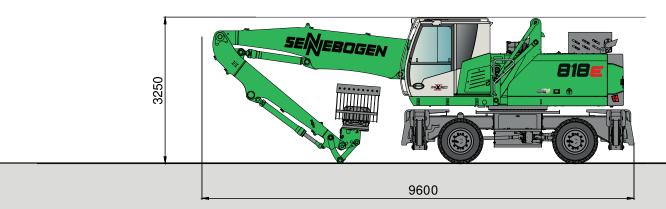






818 M with undercarriage MP21

	Load boom	Grab stick	Transport length (L)	Transport height (H)
K9 ULM	5.3 m	3.8 m ULM	8.7 m	3.25 m
К9	5.3 m	3.8 m	8.7 m	3.25 m
K10 ULM	6.2 m	3.8 m ULM	9.6 m	3.25 m
K10	6.2 m	4.2 m	9.6 m	3.25 m



818 M with 6.2 m K10 compact boom ULM and 3.8 m grab stick

B18 Recommended grabs

SGM orange peel grab (4 shells)



Design / size	Cuph compains	Weight ¹		Many willed describe	
Design / size	Grab capacity	Shell	shape	Max. piled density	
		HO G			
SGM	I	kg kg		t/m³	
500.20-4	500	835	975		
400.30-4	400	1290	1390	2.0	
600.30-4	600	1315	1445		
800.30-4	800	1350	1515		

SGM orange peel grab (5 shells)



Desire / sinc	Cush samusitu	Weight ¹		Many will ad day after	
Design / size	Grab capacity	Shells	hape ²	Max. piled density	
		HO G			
SGM	ı	kg kg		t/m³	
500.20	500	970	1060		
400.30	400	1480	1530	2.0	
600.30	600	1510	1590	2.0	
800.30	800	1550	1660		

Clamshell grab SGZ



Design / size	Grab capacity	Weight ¹	Max. piled density	
		kg	t/m³	
1000.40	1000	1440	2.0	
1200.40	1200	1575		

Sorting grab SGR



Type series / model	Grab capacity	Weight ¹	
SGR	I	kg	
800.30 L	380	1000	
1000.30 L	450	1050	
1200.30 L	520	1060	

Magnetic plates



Type series / model	Power	Deadweight	Breakaway force	Lifting capacity in kg		
woкo	kW	kg	kN	Slab (safety factor 2)		
S-RLB 10	4.8	730	190	9500		
S-RLB 11.5	5.5	1060	240	12000		
S-RLB 12.5	8.8	1310	280	14000		
Recommended magnetic generator: 9 kW/15 kW						

^{*)} Available upon

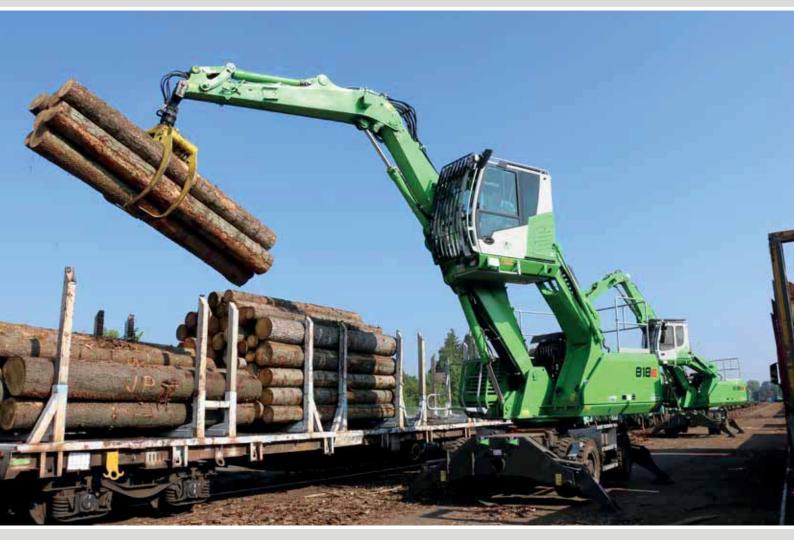


¹⁾ Weight information without grab suspension, stick bolts, hose system

²) Half-open shells: shell sheet steel width 400 mm, 500 mm wide for 1250 l capacity and higher

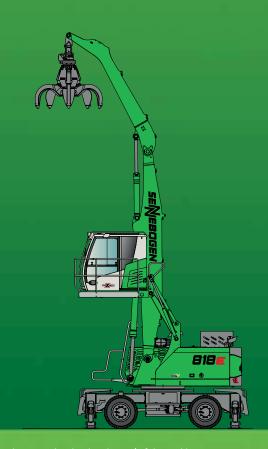


818 M Electro - Loading of a baler with sorting grab



818 M - best overview when loading and unloading trains due to stepless cab elevation





This catalog describes machine models, scopes of equipment of individual models, and configuration options (standard equipment and optional equipment) of the machines delivered 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 and tolerances.

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