



231 kW (Stage V)

227 kW (Stage IIIa)

160/200 kW (Electro)



45,5 ւ



19 m







Mobile material handling machine

B35 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 150 sales partners worldwide and also in your area





B35 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 2

- 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 **■**

- 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 ondemand thermostatic control
- Fan reversal for cleaning in series



- 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
- climatic comfort seat with air suspension and air conditioning*
- 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 the driver seat, protective covers, seat air conditioning

SENNEBOGEN joysticks

- that move with the seat
- through direct and sensitive function activation
- controls through optimized design of all push-buttons and switches

* Option





B35 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 raceway



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

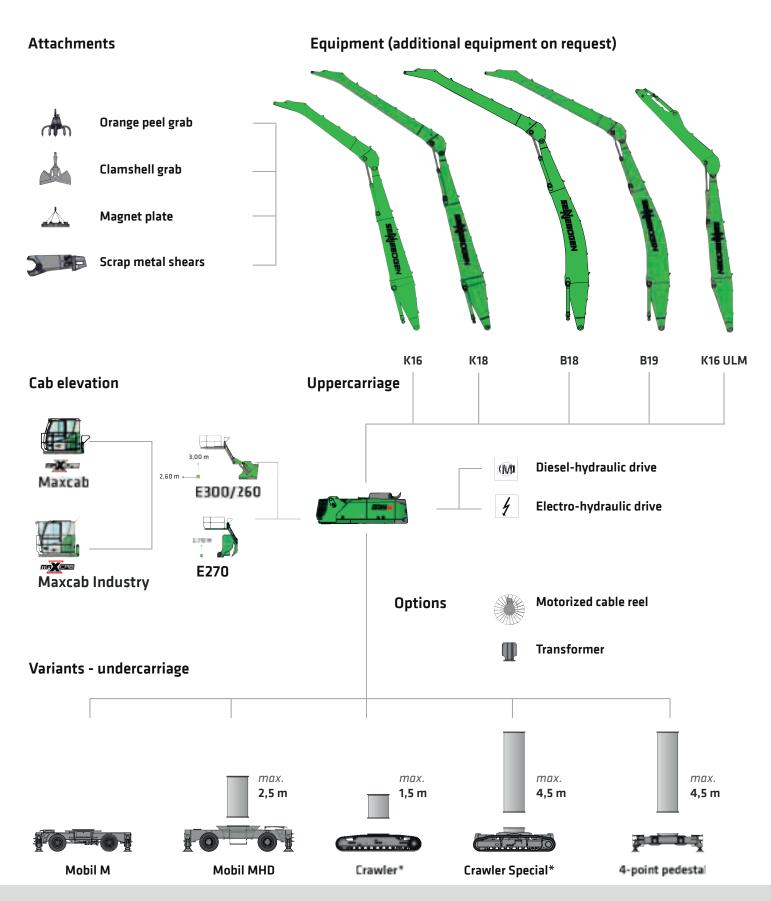


Clear labeling

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

* Option 7

B35 Modular structure - versatile solutions



^{*} Additional information on our crawler undercarriage can be found in the separate 835 R E-Series brochure.





B35 Technical data, equipment

MACHINE TYPE

Model (Type) 835

Model (Type)	835
ENGINE	
Power	Stage V: Rated power: 231 kW at 2100 rpm 237 kW at 2000 rpm / 242 kW at 1800 rpm Stage Illa: Rated power: 227 kW at 2000 rpm 254 kW at 1800 rpm
Model	Cummins L9 Direct injection, turbo charged, charge air cooler, reduced emissions, ECO mode, idle automation, stop automation, fuel pre-warming
Cooling	Water-cooled, direction of rotation changeover of the cooler fan
Diesel filter	With water separator and heater
Air filter	Dry filter with integrated pre-separator, automatic dust discharge, main element and safety element, contamination indicator
Fuel tank	625 l
DEF tank	75 l
Electr. system	24 V
Batteries	2 x 150 Ah, battery disconnect switch
Options	■ Engine block pre-warming at temperatures

Design	Torsion-resistant box design, precision crafted, steel bushings for boom bearing arrangement Extremely service-friendly concept, engine installed in the longitudinal direction
Central lubrication	Automatic central lubrication for equipment and slewing ring raceway
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
Options	 Slewing gear brake via foot pedal Hand rail at the upper structure for additional safety LED lighting packages

Fire extinguisher

15 kW / 20 kW

Sea climate resistant coating

Telematic system SENtrack DS

temperature packages

Electric heater for hydraulic tank low-

Hydraulically driven magnetic generator

under -20°C

Electric fuel pump

UPPERCARRIAGE

HYDRA	ULIC SYSTEM			
	UDV hydraulic system, hydraulic, work functions, load limit sensing control			
Pump type	Variable-displacement piston pump in swashplate design, load pressure-independen 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	maximum 740 l/min			
Operating pressure	to 350 bar			
Filtration	High-performance filtration with long-term change interval			
Hydraulic tank	500 l			
Control system	Proportional, precision hydraulic activation of work movements, 2 hydraulic servo joysticks for work functions, supplemental functions via switches and foot pedals			
Safety	Hydraulic circuits with safety valves, secured emergency lowering of the equipment at engine standstill, pipe fracture safety valves for lift cylinder and stick cylinder			
Options	 Bio-oil filling - ecologically worthwhile Tool Control for programming up to 10 tools in pressure / rate Supplemental hydraulic circuit for shear attachment Load moment warning with capacity utilization indicator Overload safeguard with overload shut-down 60 µm pressure filter for attachments 3 µm hydraulic micro-filter - SENNEBOGEN HydroClean 			

SLEWING DRIVE				
Gearbox	Compact planetary gear with bent-axis hydraulic motor, integrated brake valves			
Parking brake	Spring-loaded disk brake			
Slewing ring	External gear slewing ring with 360° protection and pinion tooth lubrication			
Slewing speed	0-8 RPM, stepless			



Subject to change.

B35 Technical data, equipment

CAB	m -X -==
Cab type	Hydraulically elevating cab E270
Cab equipment	Sliding door, sliding window in the operator door excellent ergonomics, climate automation, seat heater, air-suspension comfort seat, fresh air filter / circulating air filter, joystick steering, 12 V / 24 V connections, SENCON
Options	 Cab E300/260 can be elevated 300 cm, and moved forward 260 mm hydraulically Rigid cab elevation 1.00 m Auxiliary heating system with timer Cab active-charcoal filter inside air/outside air, ideal for waste recycling applications Steering wheel steering with adjustable steering column Armored glass windshield, additional safety Armored glass roof window, additional safety Safety side window Camera system for view under cabin Sunblind for roof window Protective roof grating FOPS protective roof grating, protection against falling objects Front protective grating Radio with speakers Enlarged industrial cab with undivided armored glass windshield

EQUIPM	IENT
Design	Decades of experience, state-of-the-art computer simulation, highest level stability, longest service life, large-dimensioned bearing points, sealed special bearing bushes, precision-crafted, quick-release couplings on the grapple connections - open/close/rotate
Cylinders	Hydraulic cylinders with high-quality sealing and guide elements, end position damping, sealed bearing points
Options	 Ball valves on the hydraulic lines grab open, close, rotate Kinematic position II for greater working depth Sea climate resistant coating Sea climate resistant coating of all cylinders, nickel-plated and chrome-plated Float position for equipment via hoist cylinder Lift limitation / stick limitation adjustable for

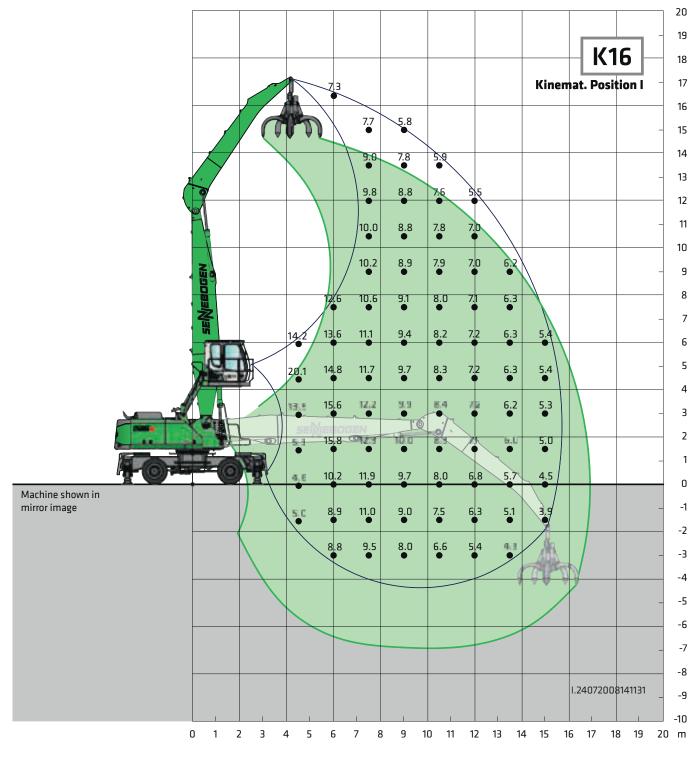
the stop settings, for example in the hall

UNDER	CARRIAGE
Design	Mobile undercarriage with integrated 4-point outriggers, steering axle as hydraulically locking pendulum axle, pendulum axle cylinder with pipe fracture safety valves, type MP41 E
Drive	All-wheel drive powered by a variable-displacement hydraulic motor with direct-mounted, automatically actuated brake valve and 2-stage power shift transmission Planetary axles with integrated steering cylinders, service brake in 2-circuit system
Parking brake	Spring-loaded disk brake
Tires	12.00-20 , 8x, option: 12.00-24 , 8x
Speed	0-5.4 km/h stage I, 0-20 km/h stage II
Options	 Individual activation of the outriggers for firm stance on uneven substrate Protection for travel drive Maneuvering hitch

	ELECTRIC	DRIVE	egreen
Optio	on •	Total conner protection i at 400 V / i	kW / 400 volt / 50 Hz ected load 270 kVA, fuse in machine's switch box 315A in combination with magnet A at 400 V - engine start up via witch.
	•	Total conner protection i at 400 V / i	okW / 400 volt / 50 Hz ected load 340 kVA, fuse in machine's switch box 400A in combination with magnet is at 400 V - engine start up via witch.
		low-noise a	s: Lowest operating costs, and virtually vibration-free service life of the hydraulic s

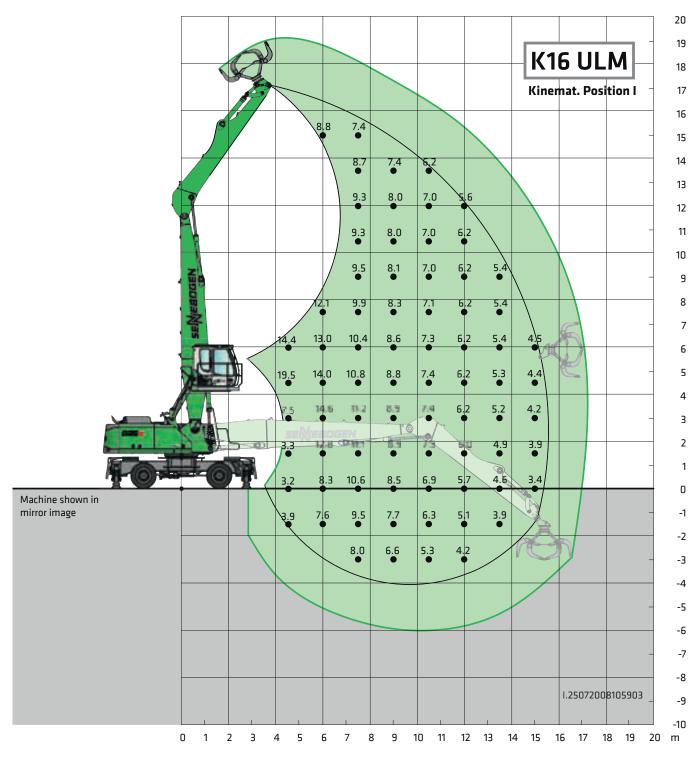


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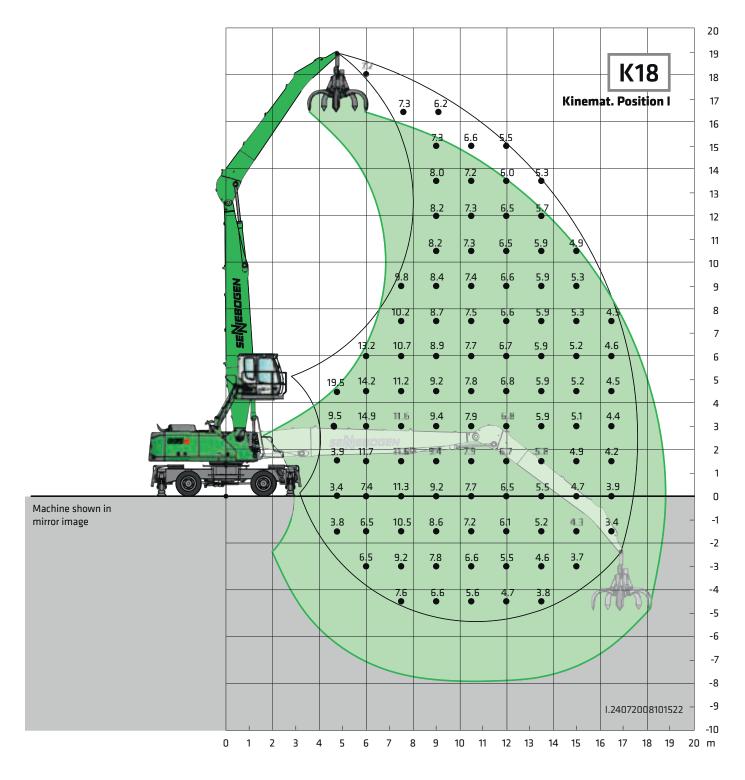


Undercarriage MP41E Compact boom 9,1 m Cab Maxcab E270, Grab stick 6,9 m hydraulically elevating	
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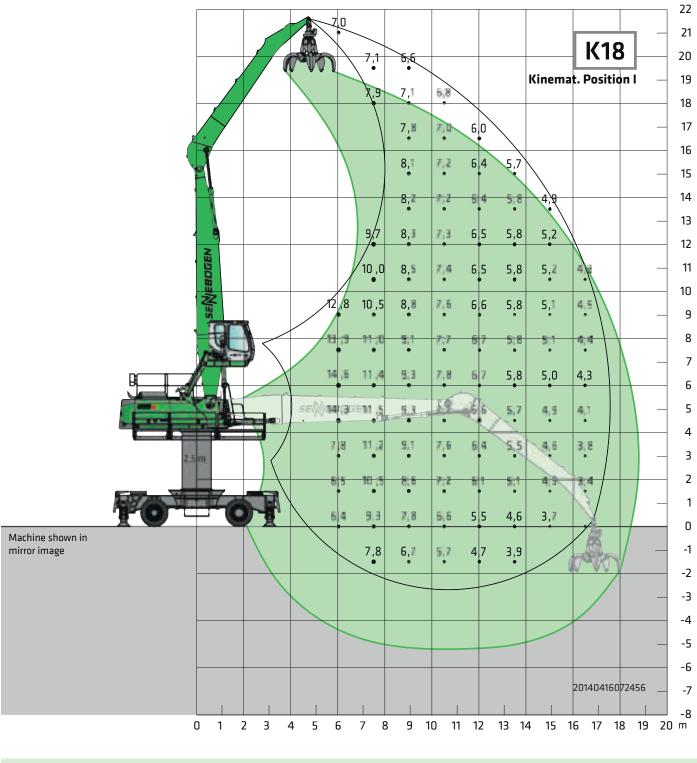


Undercarriage MP41E Compact boom 9,1 m Cab Maxcab E270,
Grab stick 6,6 m ULM hydraulically elevating

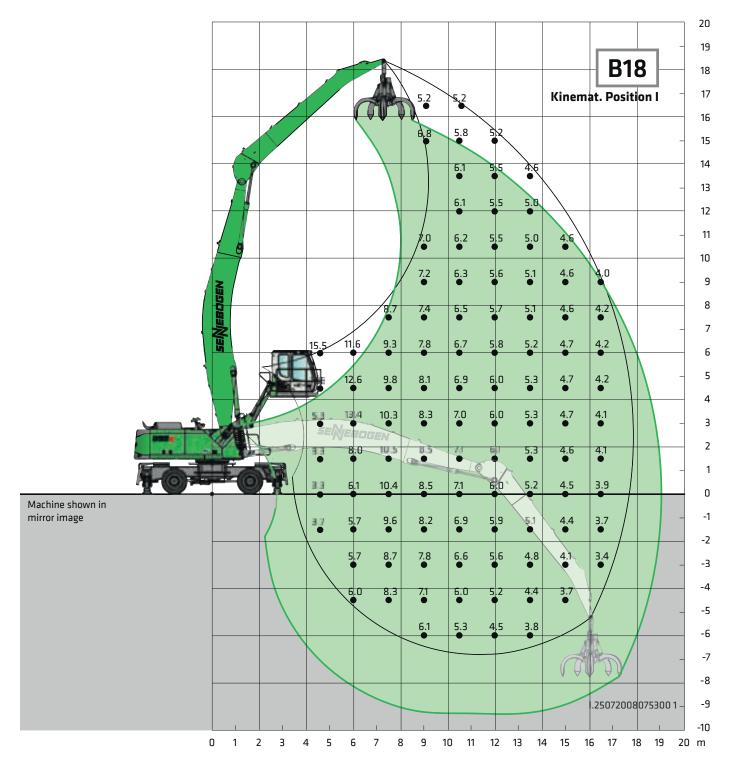


Undercarriage MP41E Compact boom 10,1 m Cab Maxcab E270, Grab stick 7,9 m hydraulically ele	
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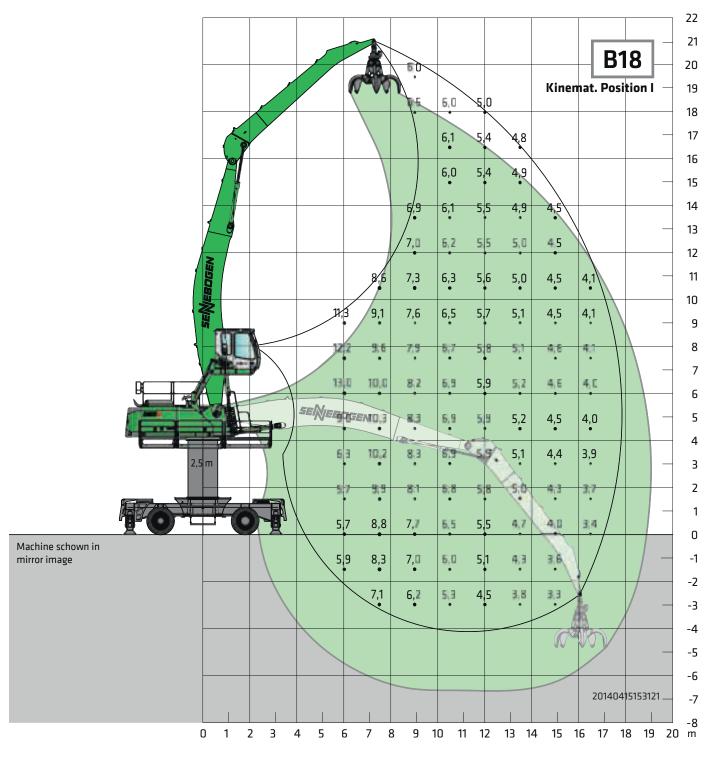


Undercarriage	MP42E	Compact boom	10,1 m	Cab	Maxcab E270,
Pylon	2,5 m	Grab stick	7,9 m		hydraulically elevating



Undercarriage	MP41E	Compact boom Grab stick	10,8 m Banana 7.9 m	Cab	Maxcab E300/260, hydraulic elevating and forward moving (Option)
		Grab stick	7,9 m		and forward moving (Uption)





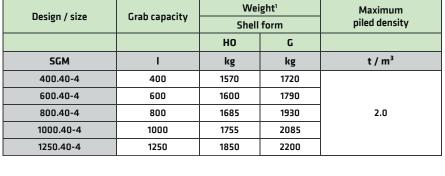
Undercarriage	MP42E	Compact boom	10,8 m Banana	Cab	Maxcab E270, hydraulisch
Pylon	2,5 m	Grab stick	7,9 m		hochfahrbar (Option)

B35 Recommended grabs

Orange peel grab SGM (4 shells)



Orange peel	grab SGM	(5 shells)
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Design / sine	Cush same situ.	Weight ¹		Maximum	
Design / size	Grab capacity	Shell shape ²		piled density	
		НО	G		
SGM	I I	kg	kg	t/m³	
400.40	400	1820	1920		
600.40	600	1910	2035		
800.40	800	1960	2140	2.0	
1000.40	1000	2040	2290	2.0	
1250.40	1250	2180	2415		
1400.40	1400	2250	2500		

Design / size	Grab capacity	Weight ¹	Maximum piled density	
SGZ	l	kg	t / m³	
1500.50	1500	1950	2.6	
2000.50	2000	2200		
2500.50	2500	2300	2.0	
3000.50	3000	2490		
4000.50	4000	2880	1.6	
3000.50 L	3000	2140	1.0	
3500.50 L	3500	2260		
4000.50 L	4000	2480	0.8	
4500.50 L	4500	2600		
1500.50 HD	1500	2240	2.5	
2000 50 110	2000	2-2-	3.5	



SGZ clamshell grab



Magnetic plates



Type series / model	Power	Weight	Pull-off strength	Lifting capacity in kg
woкo	kW	kg	kN	Slab (safety factor 2)
S-RSL 15	12.2	1950	360	18000
S-RSL 17	17.0	2500	460	23000
S-RLB 13.5	10.0	1700	300	15000
S-RLB 15	11.7	2400	380	19000
S-RLB 17	17.8	3300	640	32000
Recommended magnetic generator: 15 kW/20 kW				

2535

2000

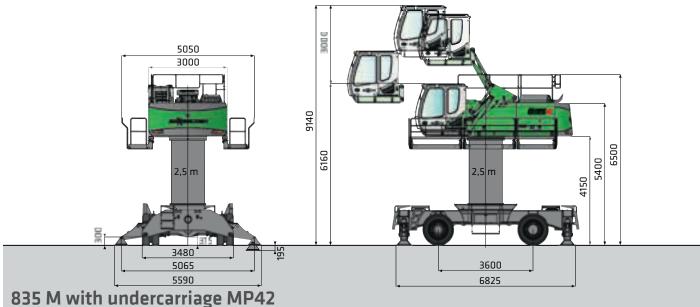
2000.50 HD



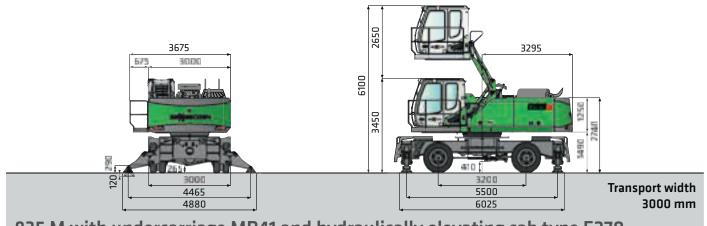
^{*)} Available upon request 1) Weight information without grapple suspension, stick bolts, hose system

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





and hydraulically elevating and forward moving cab type E300/260

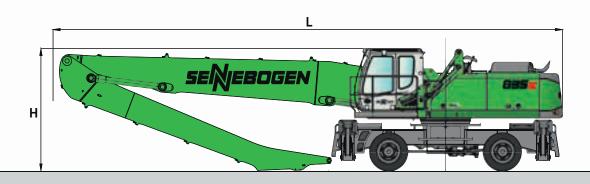


835 M with undercarriage MP41 and hydraulically elevating cab type E270



835 M with undercarriage MP41 and hydraulically elevating and forward moving cab type E300/260





Transport dimensions 835 M with undercarriage type MP41E

	Loading boom	Grab stick	Transport length (L)	Transport heigth (H)
K16	9.1 m	6.9 m	13.5 m	3.45 m
K18	10.1 m	7.9 m	14.5 m	3.45 m
B18	10.8 m Banana	7.9 m	15.0 m	3.45 m
K16 ULM	9.1 m	6.6 m	13.5 m	3.45 m

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. Machine illustrations can contain optional equipment and supplemental equipment. Actual equipment may vary in a tolerance range depending on the country to which the machines are delivered, especially in regard to standard and optional equipment

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