

# SENJEBOGEN

**PRELIMINARY** 





224/228 kw



**₼** 67-74 t



<sup>2</sup> 17 - 21<sub>™</sub>



MASTERCES



Mobile material handling machine

TIER lyfemission





Model (type)	850
ENGIN	IE .
Power	228 kW/305 hp at 2,000 rpm (Stage IIIa) 224 kW/300 hp at 2,000 rpm (TIER IVf)
Model	Cummins QSL 9-C300 Stage IV Direct injection, turbocharged, charge-air cooler, reduced emissions, EcoMode, automatic idle, auto-stop, fuel preheating
Cooling	Water-cooled, cooler fan reversal
Diesel filter	With water separator and heating system
Air filter	Dry filter with integrated pre-separator, automatic dust discharge, main element and safety element, contamination indicator
Fuel tank	1000 I
Electrical system	24 V

2 x 155 Ah, battery disconnect switch

Engine block heaterElectric fuel pump

**MACHINE TYPE** 

Batteries

Options

UPPER	CARRIAGE		
Design	Torsion-resistant box design, precision crafted, steel bushings for boom brackets		
	Extremely service-friendly design, longitudinal engine		
Central lubrica- tion	Automatic central lubrication for equipment and slewing gear raceway		
Electrical sys- tem	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	<ul> <li>Slewing gear brake via foot pedal</li> <li>Peripheral uppercarriage railing for additional safety</li> <li>LED lighting package</li> <li>Fire extinguisher</li> <li>Maritime climate varnish as corrosion protection</li> <li>Electric heater for hydraulic tank for temperatures below -20 °C</li> <li>Low-temperature package for use at temperatures below -20 °C</li> <li>Hydraulically driven magnetic generator</li> </ul>		

15 kW/20 kW

HYDRA	ULIC SYSTEM			
	DV hydraulic system, hydraulic vork functions, load limit sensing control			
Pump type	Swashplate-type variable-displacement piston pump, load pressure-independent flow distri- bution 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	max. 350 bar			
Filtration	High-performance filtration with long change interval			
Hydraulic tank	900 I			
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 with safety valves, secured emergency lowering of the equipment at engine standstill, pipe fracture safety valves for lift cylinder and stick cylinder			
Options	<ul> <li>Bio-oil - environmentally friendly</li> <li>ToolControl for programming the pressure/rate for up to 10 tools</li> <li>Additional hydraulic circuit for shear attachment</li> <li>Load moment warning with capacity utilization indicator</li> <li>Overload safeguard with shutdown</li> <li>60 µm pressure filter for attachments</li> <li>3 µm hydraulic micro-filter - SENNEBOGEN HydroClean</li> </ul>			

Gearbox	Compact planetary gear with slant-axis hydraulic motor, integrated brake valves
Parking brake	Spring-loaded multi-disk brake
Slewing ring	External gear slewing ring with 360° protection and pinion gear lubrication
Slewing speed	0–7 rpm, variable

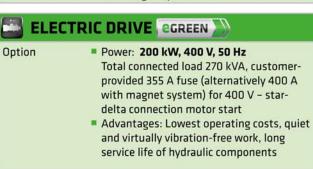
## **850** Technical data, equipment



□ CAB ™X===				
Cab type	Hydraulically elevating cab E270			
Cab equipment	Sliding door, excellent ergonomics, automatic climate control, heated, air-suspension com- fort seat, fresh/circulating air filter, joystick control, 12 V/24 V connections, SENCON			
Options	<ul> <li>Cab E300/260 can be elevated 300 cm and moved forward 260 mm hydraulically</li> <li>Rigid cab height elevation 1.00 m</li> <li>Auxiliary heating system with timer</li> <li>Active-charcoal outside air filter for cab, ideal for waste recycling</li> <li>Steering wheel with adjustable steering column</li> <li>Sliding window in operator door</li> <li>Armored glass windshield, additional safety</li> <li>Armored glass roof window, additional safety</li> <li>Safety side window and rear window</li> <li>Floor window for a better view</li> <li>Rolling shade for roof window and windshield</li> <li>Protective roof grating</li> <li>FOPS protective roof grating</li> <li>Protective front grating</li> <li>Radio and CD player with speakers</li> <li>Enlarged industrial cab with undivided</li> </ul>			

	armored glass windshield
📤 ATTA	CHMENTS
Design	Decades of experience, state-of-the-art computer simulation, highest level of stability, longest service life, large-dimensioned and low-maintenance bearing points, sealed special bearing bushes, precision-crafted, quick-release couplings on the connections open/close/rotate grapple
Cylinders	Hydraulic cylinders with high-quality sealing and guide elements, end position damping, sealed bearing points
Options	<ul> <li>Ball valves in the hydraulic lines for quick and easy grapple switching</li> <li>Kinematics position II for greater working depth</li> <li>Maritime climate varnishing</li> <li>Maritime climate coating of all cylinders, nickel-plated and chrome-plated</li> <li>Float position of the equipment</li> <li>Hoisting limiter / stick limitation adjustable for stop settings, e.g. in the hall</li> </ul>

<b>UNDER</b>	RCARRIAGE
Design	MP50 E mobile undercarriage with integrated 4-point outrigger system, hydraulic locking pendulum steering axle and pendulum axle cylinder with pipe fracture safety valves
Drive	All-wheel drive powered by a variable-dis- placement hydraulic motor with direct-moun- ted, automatic brake valve and 2-gear power shift transmission Planetary axles with integrated steering cylinder and dual-circuit service brake
Parking brake	Spring-loaded multi-disk brake
Tires	8x <b>14.00-24</b>
Speed	Low: <b>0-5.4 kph</b> ; high: <b>0-14 kph</b>
Options	<ul> <li>Tires: 8x 16.00-25</li> <li>Individual outrigger control for stability on uneven ground</li> <li>Traction drive protection</li> <li>Shunting coupler</li> </ul>

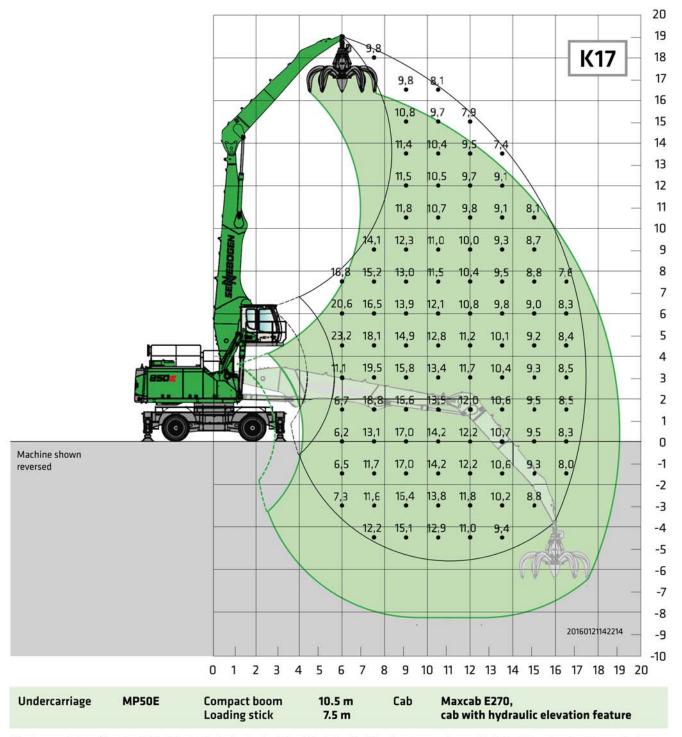




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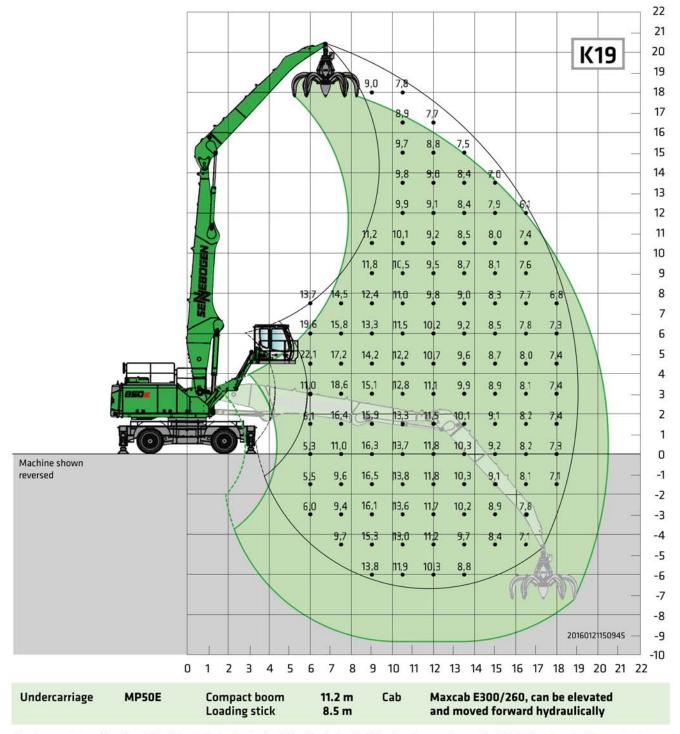


Technical features and dimensions subject to change.



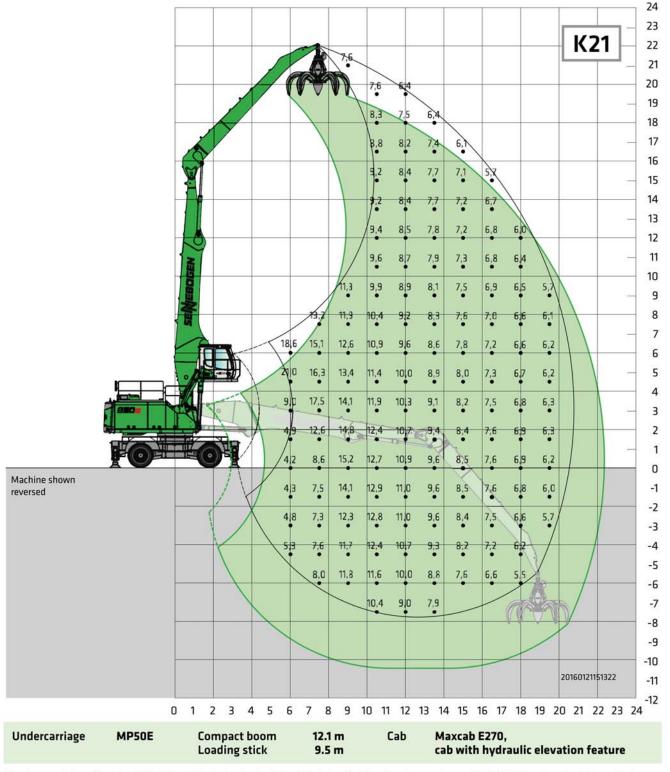










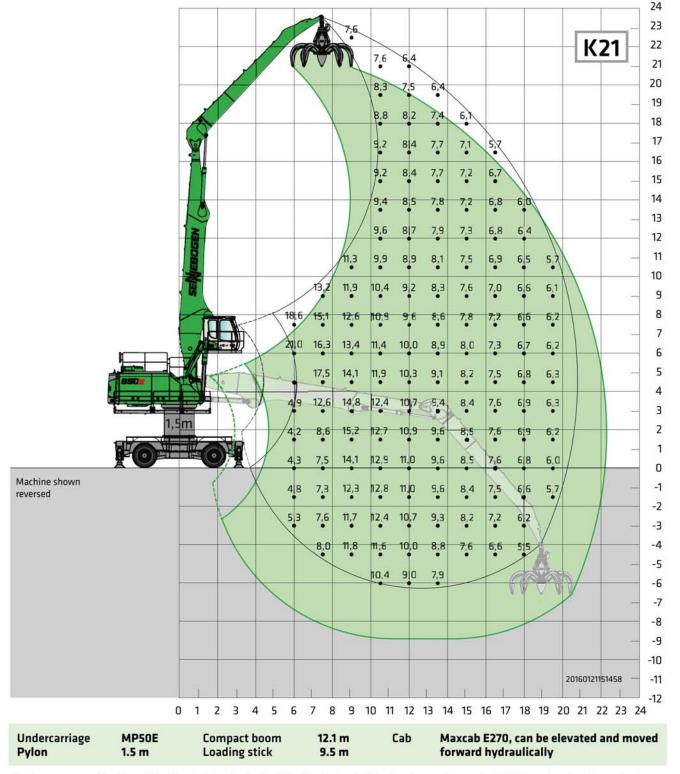


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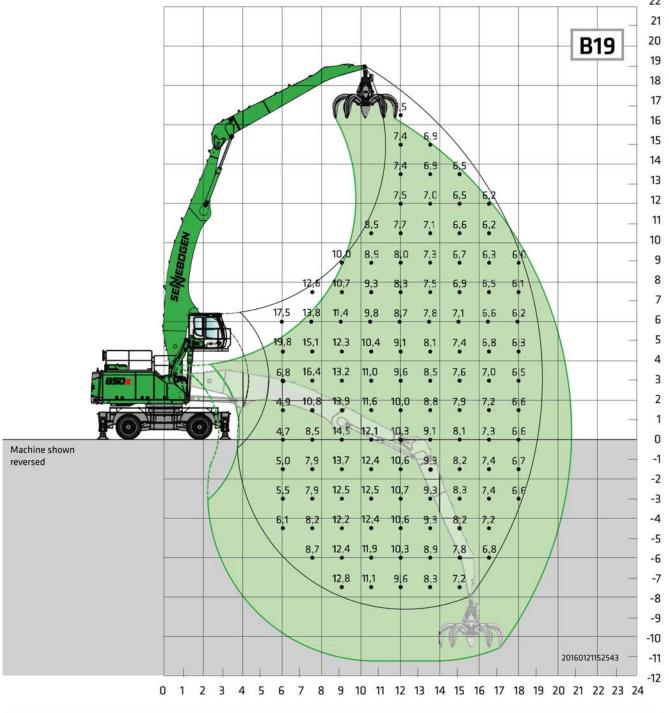












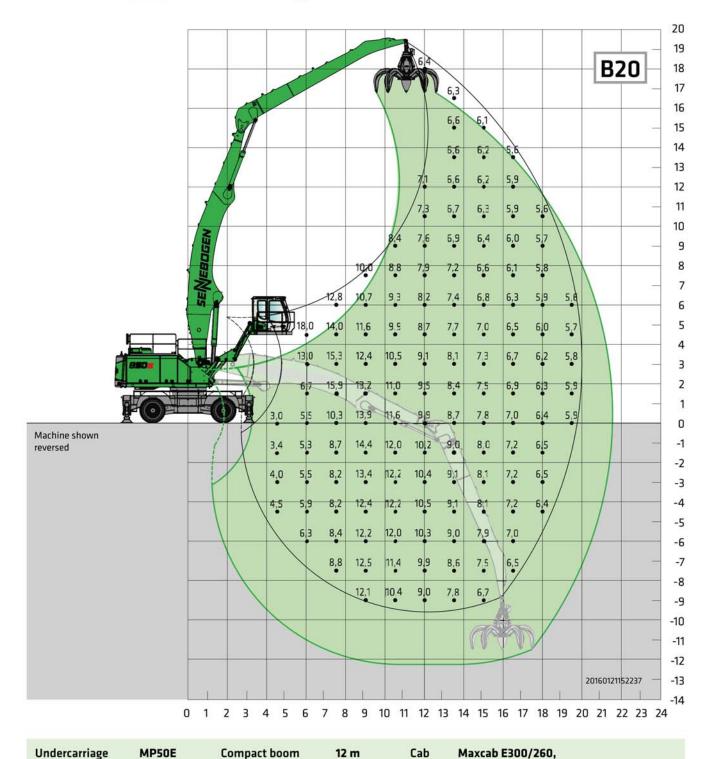
Undercarriage	MP50E	Compact boom	12 m	Cab	Maxcab E270, cab with hydraulic
positive and a second control of the second		Loading stick	8.5 m		elevation feature

Technical features and dimensions subject to change.









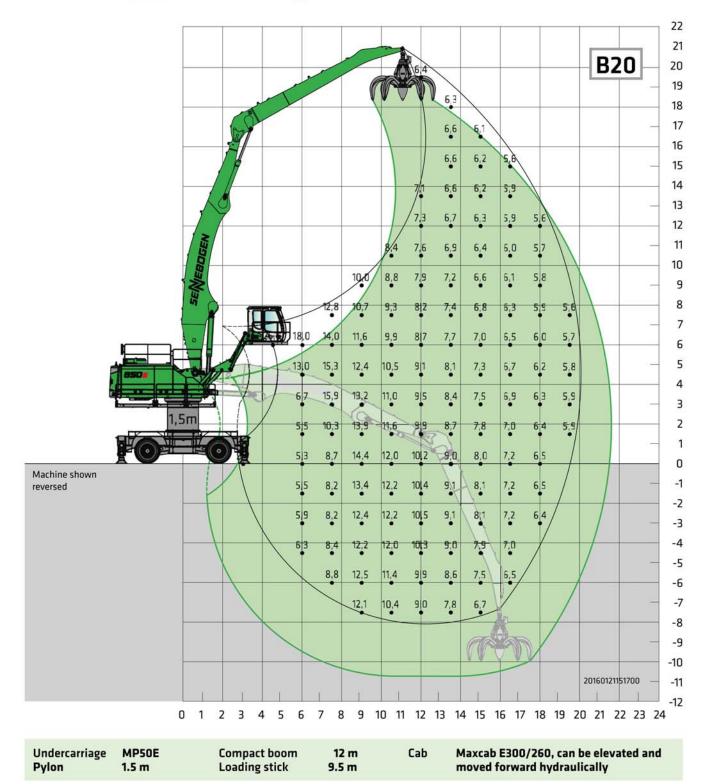
9.5 m

hydraulically elevating

Loading stick







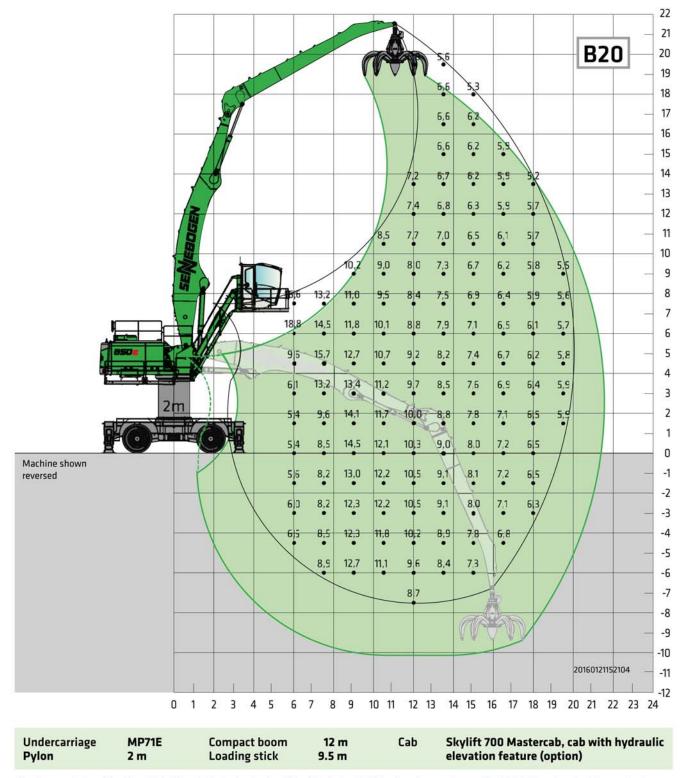
Technical features and dimensions subject to change.



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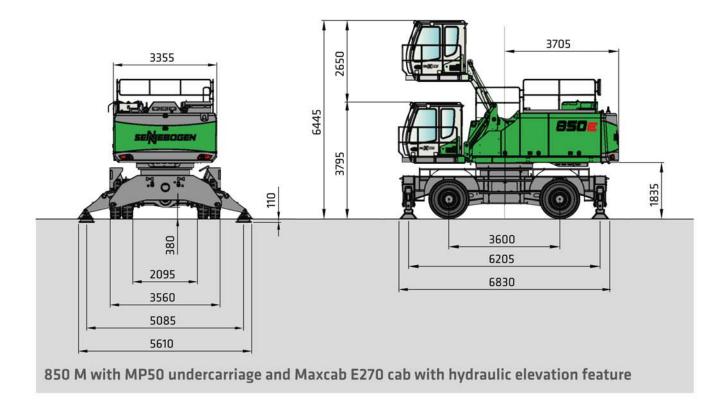


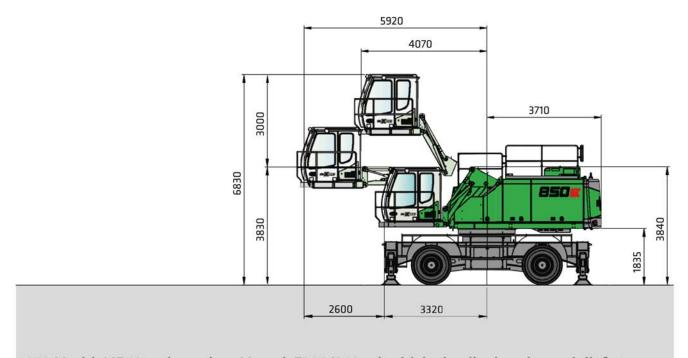




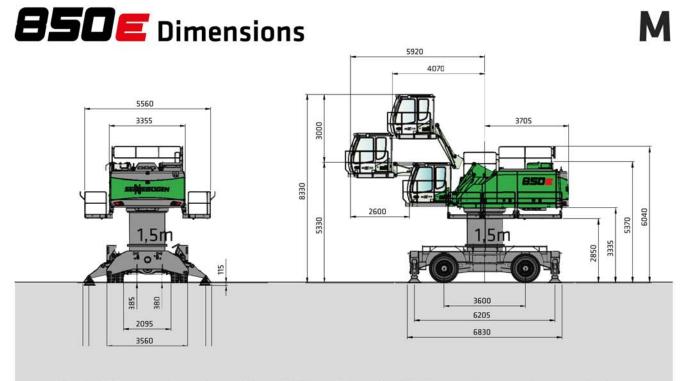




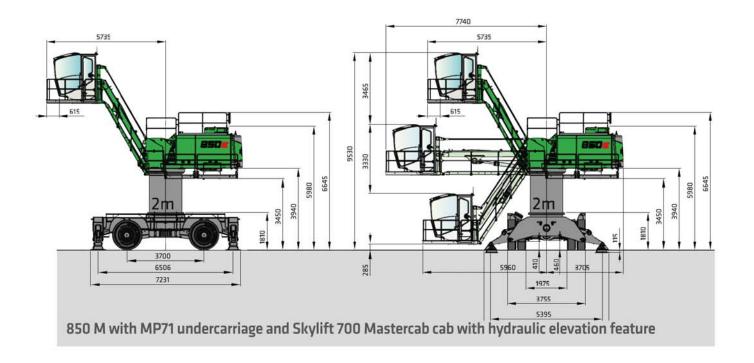




850 M with MP50 undercarriage Maxcab E300/260 cab with hydraulic elevation and tilt feature

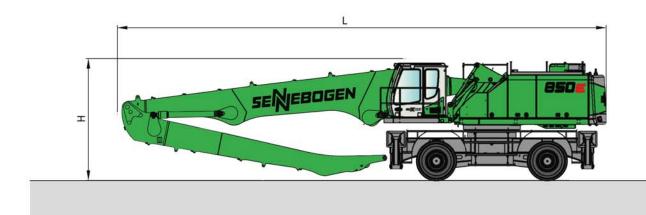


850 M with MP50 undercarriage, Maxcab E300/260 cab with hydraulic elevation and tilt feature, and 1.5 m pylon









	Load boom	Grapple stick	Transport length (L)	Transport height (H)
K17	10.5 m	7.5 m	15.1 m	3.90 m
K19	11.2 m	8.5 m	15.8 m	3.95 m
K21	12.1 m	9.5 m	16.7 m	4.00 m
19b	12.0 m Banana	8.5 m	16.5 m	4.00 m
20b	12.0 m Banana	9.5 m	16.5 m	4.00 m

## **850** Recommended grapples

### SGM multi-shell grab (4 shells)



Design / size	Grapple capa-	Wei	ight¹	Maximum
	city	Shell shape		load capacity
		но	G	
SGM	1	kg	kg	t
800.50-4	800	2245	2490	10.0
1000.50-4	1000	2345	2585	
1500.50-4	1500	2475	2830	
2000.50-4	2000	2660	3075	

SGM multi-shell grab (5 shells)



Design / size		Grapple capa-	Weight <sup>1</sup>		Maximum
	city	Shells	shape <sup>2</sup>	load capacity	
		но	G		
SGM	1	kg	kg	t	
800.50	800	2420	2610	10.0	
1000.50	1000	2480	2655		
1500.50	1500	2645	2930		
2000.50	2000	2800	3160		
2500.50	2500	3130	3615		
3000.50	3000	3250	3875		
3500.50	3500	3420	4140		

Double-shell grab SGZ



Design / size	Grapple capacity	Weight <sup>1</sup>	Maximum load capacity
SGZ	1	kg	t
1500.50	1500	1989	
2000.50	2000	2246	
2500.50	2500	2345	8.0
3000.50	3000	2532	
4000.50	4000	2880	

### Magnetic plates



Type series / model	Power	Deadweight	Breakaway force	Load-bearing capacity in kg
woкo	kW	kg	kN	Slab (safety factor 2)
S-RLB 15	11.7	2400	380	19000
S-RLB 17	17.8	3300	640	32000
S-RLB 19	22.0	5090	790	39500

<sup>\*)</sup> Available upon request \$\quad \quad \text{Weight information without grapple suspension, stick bolts, hose system}

<sup>&</sup>lt;sup>2</sup>) Half-open shells: shell sheet steel width 400 mm, 500 mm wide for 1250 I capacity and higher



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. 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.

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