





129 kw





12 - 14_m







Mobile material handling machine

B25 Advanced. The E-Series.



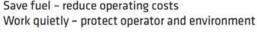
1962: rope-driven S833 with elevated operator cab

What makes up the E-Series

- 60 years of experience in designing and constructing hydraulic material 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:







- Peak performance
 Durable mechanical systems stress
 - Durable mechanical systems stressed parts optimized High speeds – high load capacities
- Maximum operating comfort
 Comfortable Maxcab operator cab relaxed work
 SENCON SENNEBOGEN Control System



- Maximum safety
 - Safe entry and exit no-slip steps State-of-the-art cameras – entire work area in view
- Maintenance and service made easy
 Easy fault diagnosis central measuring points
 Easy maintenance clear labeling
- Consultation and support
 3 production sites 2 subsidiaries
 120 sales partners over 300 service stations





B25 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 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
- 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
- Water and oil coolers with top-notch efficiency thanks to axial-piston pump and motor control and ondemand thermostatic control
- · Charge-air cooler with mechanical drive







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 special oil with extended service life when using SENNEBOGEN HydroClean*

* Optional

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825 The E-Series. Pure comfort.

Maxcab comfort cab

- Air-suspension comfort seat with heater
- Convenient joystick control
- Hinged front window
- Sliding door, platform in front of cab
- Color monitor for right-side and rearfacing camera feeds
- SENNEBOGEN OptiMode: Various modes to optimize performance







Platform with railing*

- Safety when entering and exiting the cab
- Sliding door makes entering and exiting easy and safe



Automatic climate control

- Consistently pleasant cab climate thanks to 10 evenly distributed air vents
- Central controls make operation easy



SENCON

- Clear menu
- Determine operating values without the need for additional instruments
- Fast troubleshooting thanks to detailed messages



B25 Maintenance and service made easy



Optimized for maintenance

- Fast and easy troubleshooting 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







HydroClean*

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

Central reading points

- Easily accessible, central reading points
- Quickly inspect entire hydraulic system

Clear labeling

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

* Optional 7

B25 Modular design – versatile solutions

Attachments Equipment options (others available upon request) Multi-shell grab Double shell grab Magnetic plate Scrap metal shears Vacuum traverse K12 K12 ULM K13 K14 Cab elevation Uppercarriage Cabs (M) Diesel-hydraulic drive Maxcab Electrohydraulic drive Maxcab Industry Options Engine line drum Transformer **Undercarriage variants** тах. тах. max. 0.5 m 3.0 m Mobile M R35/240 Wide-gauge crawler 4-point underframe MP26 R35/340 ST 20 crawler

^{*} Additional information on our crawler undercarriages can be found in the 825 R E-Series brochure



825 Technical data, equipment

MACHINE TYPE

Model (type)

Power	129 kW / 173 PS at 2200 rpm
Model	Cummins QSB 6.7 (IIIa / IV) Direct injection, turbo-charged, charge air cooler, reduced emissions, Eco Mode, automatic idle, automatic stop
Cooling	Water-cooled
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	480
DEF tank	30 [
Electrical system	24 V
Batteries	2 x 155 Ah, main switch
Options	 Engine block heater Electric fuel pump Jump-start terminals

🔚 UPPER	CARRIAGE
Design	Torsion-resistant box design, precision craf- ted, steel bushings for boom bearings. Extremely service-friendly design, longitudi- nal 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	 Slewing gear brake via foot pedal Peripheral uppercarriage railing for additional safety LED lighting package Fire extinguisher Maritime climate varnish as corrosion protection

Electric heater for hydraulic tank Low temperature package

Hydraulically driven magnetic generator

HYDRA	ULIC SYSTEM
Load sensing / L rolled work func	UDV hydraulic system for hydraulic, pilot-cont- tions
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	410 I/min
Operating pressure	max. 350 bar
Filtration	High-performance filtration with long change interval
Hydraulic tank	310 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	 Bio-oil – environmentally friendly ToolControl for programming the 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

Gearbox	Compact planetary gear with slant-axis hyd- raulic motor, integrated brake valves
Parking brake	Spring-loaded multi-disk brake
Slewing ring	Strong ball race slewing ring, sealed
Slewing speed	0-8 rpm, variable



15 kW

825 Technical data, equipment

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, 12 V/24 V connections, SENCON, joystick control
Options	 Active seat climatisation Rigid cab height elevation 1 m Auxiliary heating system with timer Cabs with active carbon filter Steering wheel with adjustable steering column Sliding window in operator door Armored-glass windshield Armored-glass sunroof Safety side window Floor window for a better view Rolling shade for roof window and windshield Platform next to cab Protective roof grating FOPS protective roof grating Protective front grating Radio with speakers Enlarged industrial cab with undivided armored glass windshield

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	 Ball valves at the grip arm hydraulics wire Adjustable hoisting limiter/stick limiter e.g. in the hall Multi-coupling

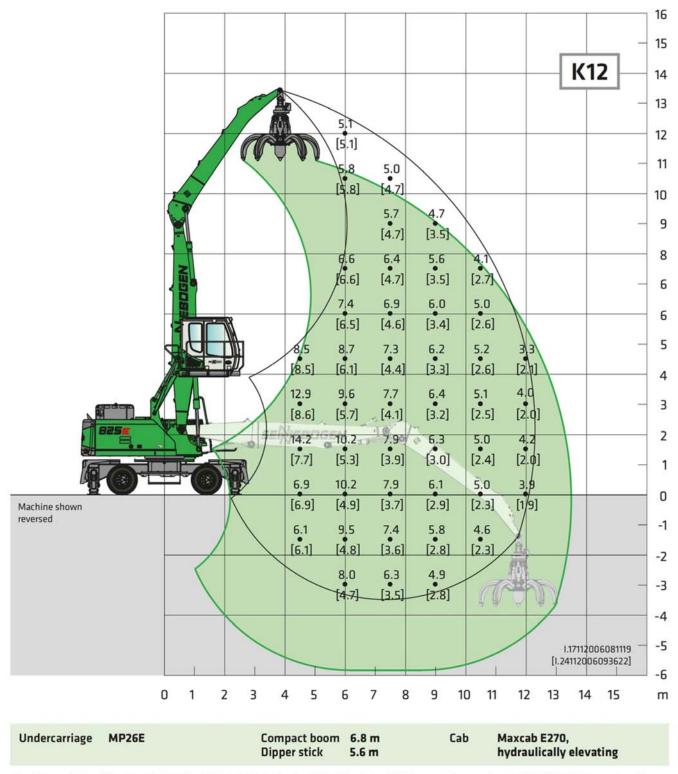
Design	Strong mobile undercarriage with integrated 4-point claw support, steering axle as hyd- raulically locking pendulum axle, pendulum axle cylinder with pipe fracture safety valves	
Drive	Ill-wheel drive powered by a variable- isplacement hydraulic motor with direct- nounted, automatically actuated brake valve nd 2-stage power shift transmission, strong lanetary axles with integrated steering cylin- ers, service brake in 2-circuit system	
Parking brake	Spring-loaded multi-disk brake	
Tires	M: solid-rubber tires 10.00-20, 8	
Speed	0 - 7 km/h Level I: 0 - 20 km/h Level II	
Options	 Pneumatic tires 10.00-20, 8 Additional pushing blade for 4-point outrigger (front or rear) Individual outrigger actuation Protection for travel drive/towing pintle Pylons with 0.5 m or 1.0 m 	

ELEC	TRIC DRIVE GREEN
Option	 Power: 110 kW, 400 V, 50 Hz Total connected load: 240 kVA, machine side 250 A at 400 V fuse, alternatively 315 A with magnet system – star-delta connection motor start Advantages: Lowest operating costs, quiet and almost vibration-free work, long service life of hydraulic components

	RATING WEIGHT
Mass	825 M with 4-point outrigger and compact loading attachment Approx. 28,800 kg
Notice	Operating weight varies by model and equipment.

Subject to change.

825 Load ratings



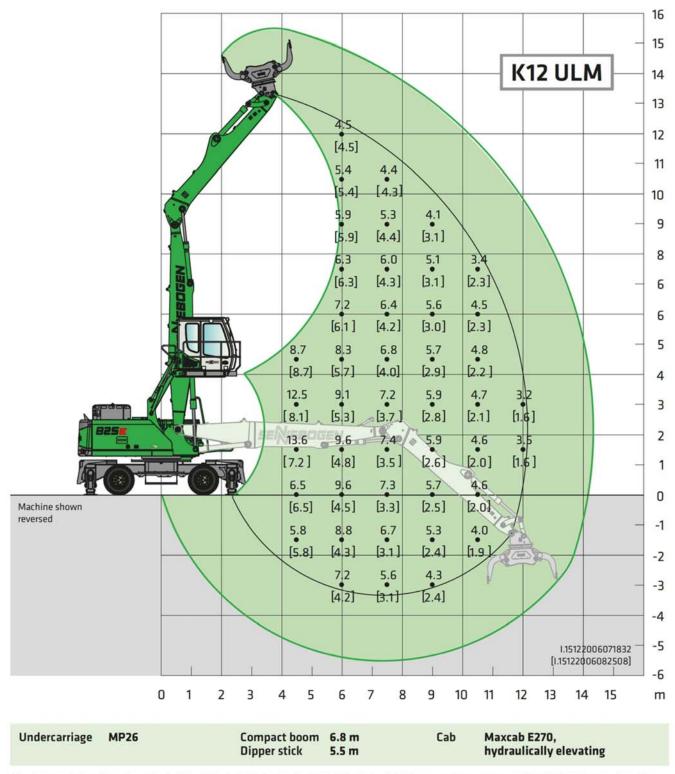
All ratings are in tons (t) and constitute 75% of the static tipping load or 87% of the hydraulic lifting power in accordance with ISO 10567. They apply on firm and level ground and 360° slewing. The values in brackets [] apply 360° freestanding. Safe working loads include attachments such as multi-shell grapples, magnets, etc. According to harmonized EU standard EN 474-5, hydraulic excavators used for lifting must be equipped with pipe fracture safety devices on the hoist cylinders and an overload warning device.

Technical features and dimensions subject to change.



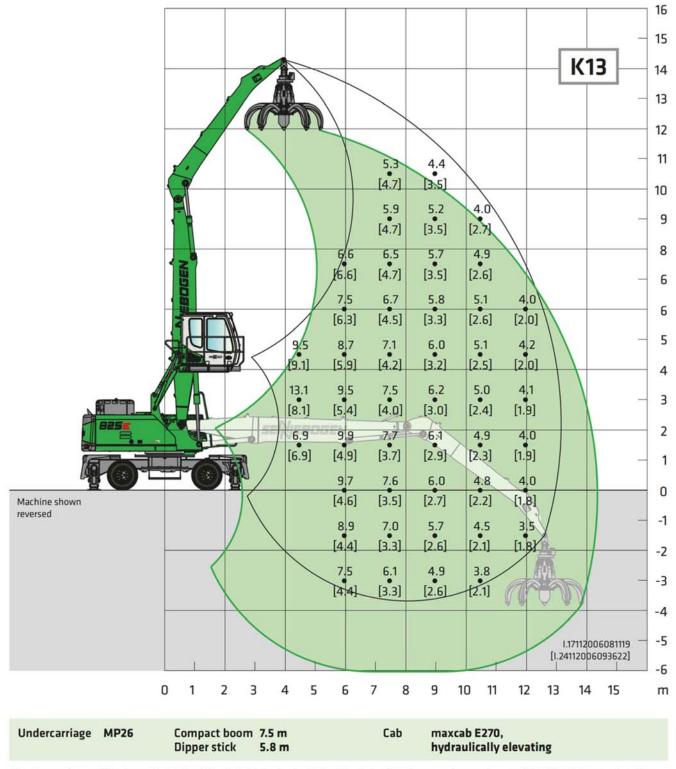
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825 Load ratings

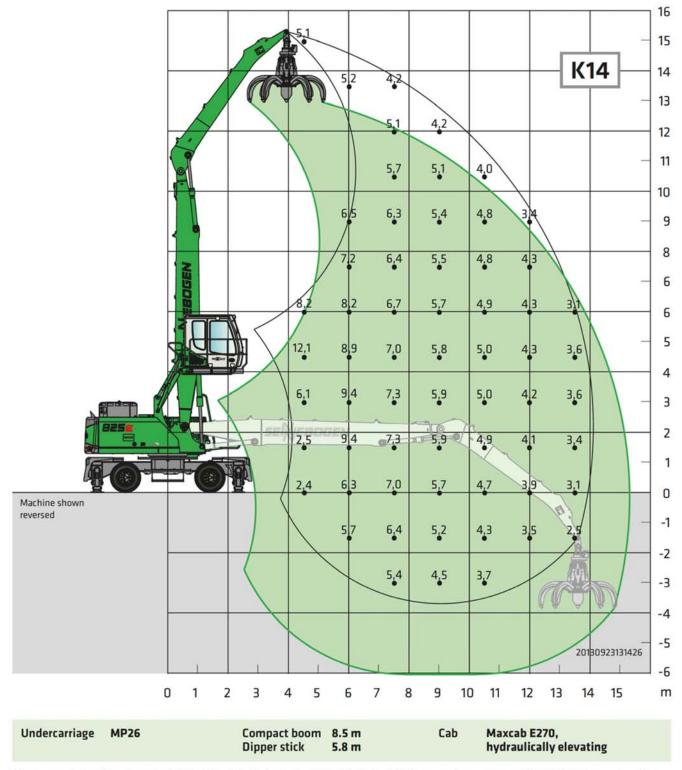


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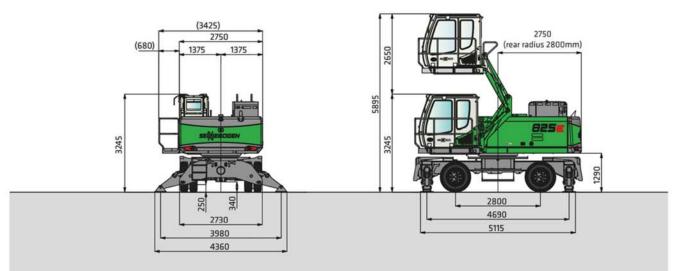


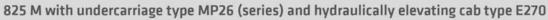
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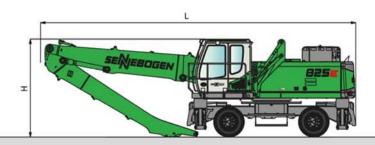
825 Transport dimensions

Transport width 2,750 mm

Solid-rubber tires 10.00-20, 8







825 M with undercarriage type MP26

	Compact boom	Dipper stick	Transport length (L)	Transport height (H)
K12	6.8 m	5.6 m	10.40 m	3.25 m
K12 ULM	6.8 m	5.5 m	10.40 m	3.40 m
K13	7.5 m	5.8 m	11.10 m	3.30 m
K14	8.5 m	5.8 m	12.05 m	3.25 m



SGM multi-shell grab (4 shells)



Design / size	n 1 1 1	Grapple capa-	Weight ¹		Maximum
	city	Shell shape		load capacity	
		но	G		
SGM	1	kg	kg	t	
400.30-4	400	1240	1350	8.0	
600.30-4	600	1280	1410		
800.30-4	800	1320	1510		
400.40-4	400	1570	1720		
600.40-4	600	1600	1790		
800.40-4	800	1685	1930		
1000.40-4	1000	1755	2085		
1250.40-4	1250	1850	2200		

SGM multi-shell grab (5 shells)



Design / size		Grapple capa-	Weight ¹		Maximum
	city	Shell shape ²		load capacity	
		но	G		
SGM	1	kg	kg	t	
400.30	400	1400	1475	8.0	
600.30	600	1430	1550		
800.30	800	1460	1600		
400.40	400	1820	1920		
600.40	600	1910	2035		
800.40	800	1960	2140		
1000.40	1000	2040	2290		
1250.40	1250	2180	2415		
1400.40	1400	2250	2500		

Double-shell grab SGZ



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ľV	lagn	eu	L P	Id	res



Design / size	Grapple capacity	Weight ¹	Maximum load capacity	
SGZ	I	kg	t	
1000.40	1000	1270	4.0	
1200.40	1200	1360		
1400.40	1400	1420		
1600.40	1600	1530		

Type series / model	Power	Deadweight	Breakaway force	Load-bearing capacity in kg
woкo	kW	kg	kN	Slab (safety factor 2)
S-RSL 13	10.5	1300	260	1300
S-RSL 15	12.2	1950	360	1800
S-RLB 12.5	8.8	1310	280	14000
S-RLB 13.5	10.0	1700	300	15000

^{*)} Available upon request ⁰ Weight information without grapple suspension, stick bolts, hose system

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

825<u>E</u>















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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