





129 kW (Stage V)



13.5 ։







Heavy Duty Crawler Crane

524 Advanced. The multifunction machine.



1969: First full hydraulic duty cycle crawler crane worldwide, SK 15

What makes up the E-Series

- 60 years of experience in the design and construction of duty cycle cranes
- Uncompromisingly high performance in all areas
- Technology that can be mastered: High-quality components without over-engineering
- Long service life and high value stability

Your top benefits:

- Green Efficiency

 Save fuel reduce operating costs

 Work quietly protect operator and environment
- Peak performance

 Robust boom system work on an incline of up to 4°
- Maximum usability

 Multicab work in comfort

 SENCON work program selection made easy
- Flexibility in service

 Operate under full load less space required

 Strong undercarriage traction good off-road capability
- Easy transport

 Mobile undercarriage with outrigger ready to go in no time
- Maintenance and service made easy

 SENNEBOGEN control system easy error diagnostics
 Simple maintenance clear labeling
- 7 Consultation and support in your area
 3 production sites 2 subsidiaries
 130 sales partners over 350 service stations

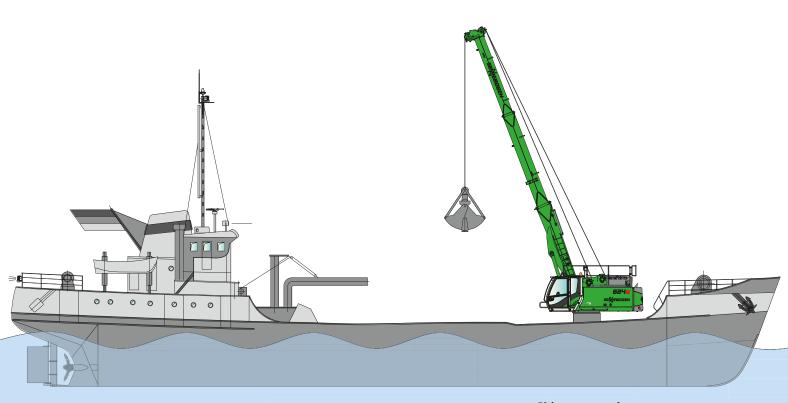




Casing oscillator

Crane equipment

Grab equipment



Ship construction

524 E Technical data, equipment

MACHINE TYPE

Model (type) 624

ENGIN	E
Power	129 kW / 175 PS at 2200 rpm
Model	Cummins QSB 6.7 Stage V Direct injection, turbo-charged, charge air cooling, reduced emissions
Cooling	Water-cooled
Air filter	Dry filter with pre-separator, automatic dust discharge, main element and safety element, contamination indicator
Fuel tank	480 l
DEF tank	38 I
Electrical system	24 V
Batteries	2 x 155 Ah, main switch

UPPER	UPPERCARRIAGE	
Design	Torsion-resistant box design, precision crafted, bronze bushings for boom bearing arrangement	
	Clear, service-friendly concept, engine installed in the longitudinal direction	
Lighting	LED headlights for optimal illumination of the work area	
Safety	Camera monitoring of the rear area and right side, uppercarriage rail	
Options	 Maritime climate varnish as corrosion protection Low temperature package Fuel pump 	

HYDRAULIC SYSTEM

Multi-circuit hydraulic system for optimal function and capacity, all movements can be run simultaneously. The hydraulic pumps are variable displacement piston pumps with individual control and energy-saving flow-on-demand control. The pumps only supply as much oil as is actually consumed. Pressure cutoff, load limit sensing control.

Delivery rate	Hydraulic circuit for winch 1 and driving Hydraulic circuit for winch 2 and driving or support Hydraulic circuit for slewing gear and boom adjustment
Operating pressure	max. 330 bar
Hydraulic tank	310 i

Options	■ Bio-oil
1	SENNEBOGEN HydroClean micro-filter
	system with water separator
1	Potentiometer for casing machine and
	other attachments
1	Grapple fill automation
1	Hydraulic circuit for oscillation

SLEWIN	NG DRIVE
Gearbox	Compact planetary gear with slant-axis hyd- raulic motor, integrated brake valves
Parking brake	Spring-loaded multi-disk brake
Slewing ring	Ball bearing rotary connection with interior gearing
Slewing speed	0 – 3,2 rpm, variable

	<u> </u>
CAB COL	u e e
Cab type	Multicab
Cab equipment	With air suspended comfortable cab with super sound insulation. All-weather version, all-round glazing made of safety glass and large roof window, adjustable windscreen. With air suspended comfortable seat, weight adjustable and vibration damped. Dashboard overview with swiveling steering column. Variable, controllable cab heating with air circulation stage and particle filter, automatic climate control
Options	 Active seat climatisation Auxiliary heating system with timer Protective roof grating FOPS protective roof grating Radio with speakers Glass roof panel made from bullet-proof glass Sunblind for windshield



Subject to change.

524 E Technical data, equipment

ATTACH	IMENTS
Design	Decades of experience and the latest com- puter simulations guarantee the greatest degree of stability and longest service life
Boom	Box-type boom with basic length 14 m, 2 folds for transport. Adjust by 2 hoist cylinders with safety shutoff valves. Steel rope sheaves in the boom head
Options	 Auxiliary jib, for load ratings to 4.5 t Load moment limitation for hoisting implementation: latest generation of load moment monitoring, display shows all important data, lifting limit switch, pressure relief valves, rope run-out safeguard Up to 2x 2.5 m extension can be bolted in for 16.5 m and 19 m boom length Roller mask for less wear and tear

UNDERCARRIAGE CRAWLER	
Design	Very strong crawler undercarriage, with integrated, protected drive transmission. Rigid track width R25/240 or R25/215
Drive	Strong travel drive with axial piston hydraulic motor and directly attached automatically functioning brake valve and compact planetary gear on each running gear side
Parking brake	Spring-loaded multi-disk brake
Traveling gear	Maintenance-free tractor running gear with hydraulic chain tension, 600 mm flat or 600 m 3-grouser base plates,
Speed	0 – 2.5 km/h
Options	■ 700-mm 3-grouser crawler shoes

UNDER	UNDERCARRIAGE MOBILE	
Design	Strong mobile undercarriage with integrated 4-point claw support, steering axle as hydraulically locking pendulum axle. Pendulum axle cylinder with pipe-fracture safety valves MP26	
Drive	All-wheel drive powered by an adjustable hydraulic motor with direct-mounted, automatically actuated brake valve and 2-stage power shift transmission. Strong 40 t planetary axles with integrated steering cylinder, 2-circuit multi-disk service brake.	
Parking brake	Spring-loaded multi-disk brake	
Tires	10.00-20, 8	
Speed	0-7 km/h Tier I, 0-20 km/h Tier II	

WINCH

The winches are driven via high-pressure-regulated adjustable hydraulic motors, thus there is always optimal pulling force speed control. Strong oil-bath planetary gear, low-maintenance.

Crane and free fall brakes are spring-loaded, maintenance-free, low-wear disc brakes running in the oil bath, oil-cooled. The driver is assisted by the special, continuously-variable free fall brake that also helps to protect the machine.

	Series
Winches	6 t
Rope winch (rated load) 1st layer	60 kN
Rope diameter	16 mm
Rope speed 1st layer	0 - 110 m/min

Options	Depth indicating device
	Rope tensioning pulley

OPERATING WEIGHT

OPERATING WEIGHT		ATTING WEIGHT
	Mass	approx. 29.900 kg
		624 with 2 x 6 t free fall winches, basic boom 14.0 m, counterweight 5.8 t, 15 t bottom hook block, mobile undercarriage
		R25/215: 30.0 t (14 m boom) R25/240: 30.3 t (14 m boom)
	Notico	The energting weight varies depending on the



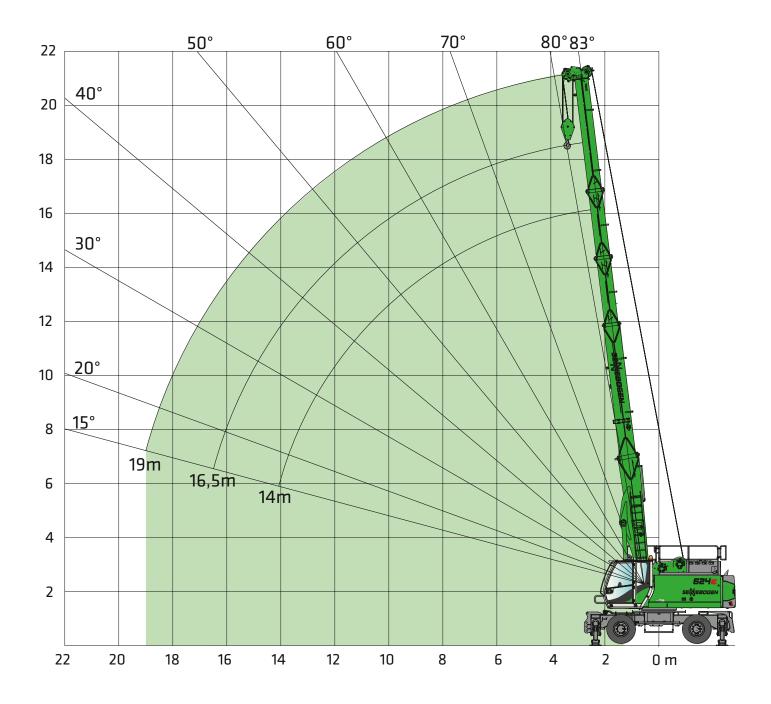
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524 Load capacity in crane operation





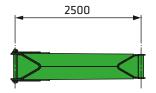


	Undercarriage									
	MP26			R25/240 6.9 t			R25/215 6.9 t			
	Boom length [m]									
Outreach [m]	14.0	16.5	19.0	14.0	16.5	19.0		14.0		
3.0	13.5			13.5	11.5/3.4	11.0/3.7	13.5			
4.0	12.0	11.5	11.0	12.0	11.5	10.8	11.0			
5.0	9.5	9.0	8.5	9.5	9.0	8.3	8.5			
6.0	7.9	7.4	6.9	7.8	7.2	6.6	6.8			
7.0	6.8	6.2	5.8	6.2	5.9	5.4	5.5			
8.0	6.0	5.4	4.9	5.1	4.8	4.5	4.5			
9.0	5.3	4.8	4.3	4.2	4.0	3.7	3.7			
10.0	4.8	4.3	3.8	3.6	3.3	3.0	3.1			
11.0	4.3	3.8	3.4	3.0	2.8	2.5	2.6			
12.0	3.9	3.5	3.0	2.6	2.4	2.1	2.3			
13.0	3.5	3.2	2.7	2.3	2.0	1.7	1.9			
14.0	3.0	2.8	2.5	2.0	1.7	1.4	1.7			
15.0	2.9/14.25	2.5	2.2	1.9/14.25	1.5	1.2	1.6/14.25			
16.0		2.2	1.9		1.2	1.0				
17.0		2/16.7	1.6		1.1/16.7	0.8				
18.0			1.4			0.6				
19.0	TABNr. 624M-80/1950/5.8/08.16		1.2	TABNr. 624R-80/1252/6.9/09.16		0.5	TABNr. 624R-80/1128/6.9/09.16			
20.0			1.2/19.1			0.5/19.1				
Number of strands	3	3	3	3	3	3	3	3	3	

- 1. The specified safe working load values apply for a level and stable stance of the machine.
- 2. The safe working load values are specified in tons (t) and apply for 360 degrees..
- 3. The safe working loads take the standards ISO 4305 Tab. 1+2 and the tilt angle method into account (angle of inclination 4°).
- 4. Deduct the weight of the load handling devices (hook, suspension gear) from the load ratings.
- 5. Load ratings must be limited or reduced when conditions are unfavorable, such as soft or uneven ground, slopes, wind, lateral loads, swinging loads, jerking or sudden stopping of the load, operator inexperience, driving with load.
- 6. Permissible rope pull per strand in crane mode for winch diameter 16 mm 4,500 kg
- 7. Safe working load values apply for the SH boom (boom assembly in accordance with the operating manual).

Boom extension 2.5 m

Weight approx. 660 kg



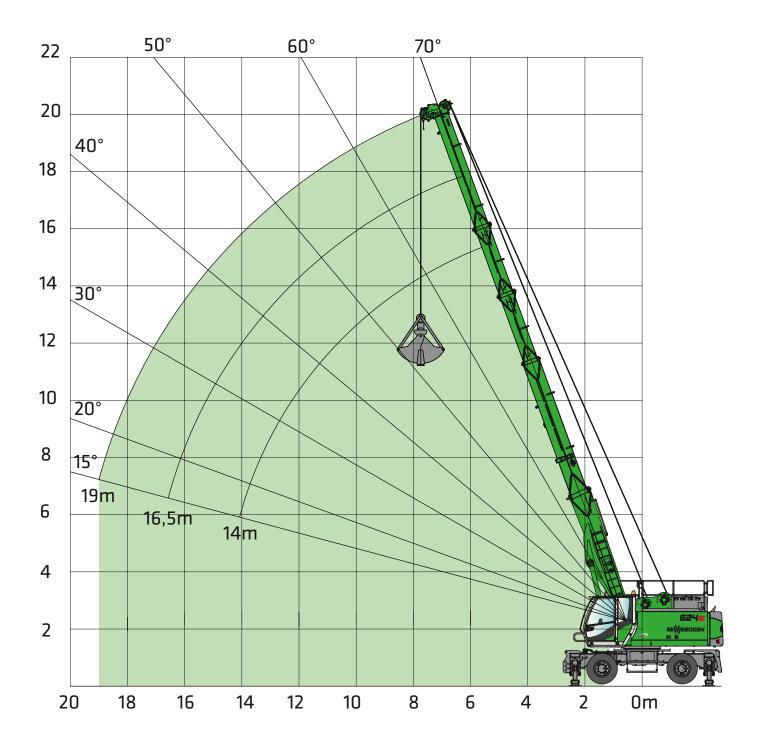


Grab equipment









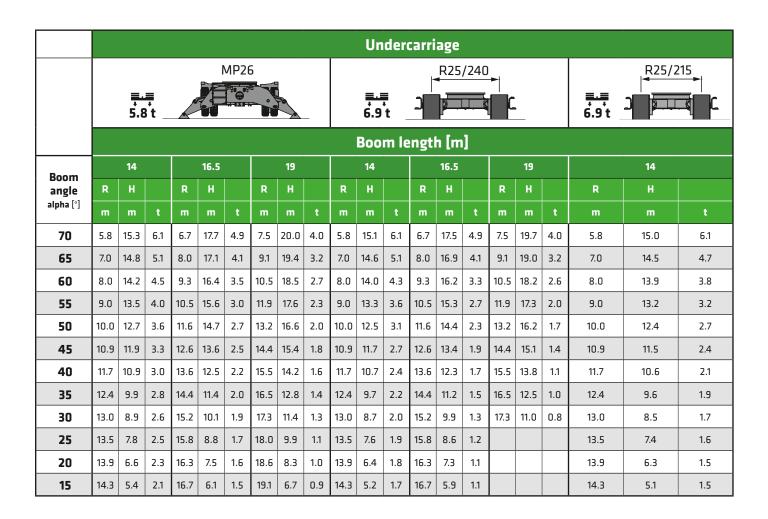


524 Load capacity in grapple operation







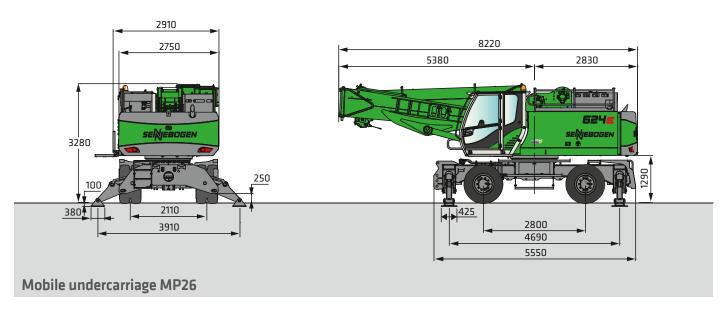


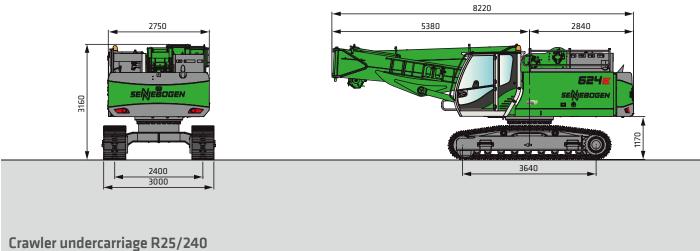
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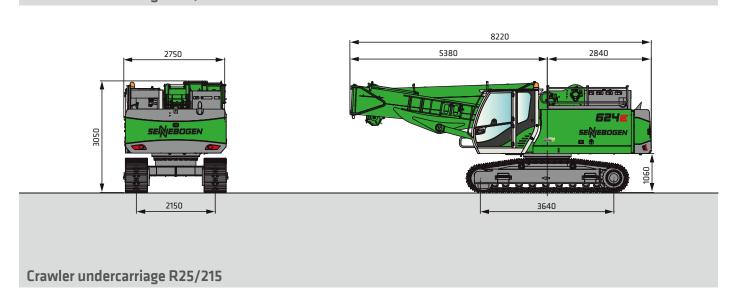
- 1. The specified safe working load values apply for a level and stable stance of the machine.
- The safe working load values are specified in tons (t) and apply for 360 degrees.
- 3. The safe working loads apply for the maximum outrigger width / undercarriage track width.
- 4. The specified safe working loads include the grapple weight and do not exceed 66.7 % of the tipping load
- 5. For operation with a mechanical two-rope grapple and even load distribution on the closing and holding ropes, the safe working load is limited by the permissible rope tension or the maximum winch pulling force of a winch:

Winch pulling force [kN]	60			
Rope diameter [mm]	16			
Minimum tensile strength [kN]	213			
Maximum safe working load in single-winch operation [t]				
Maximum safe working load in two-winch operation [t]				

524 Transport dimensions





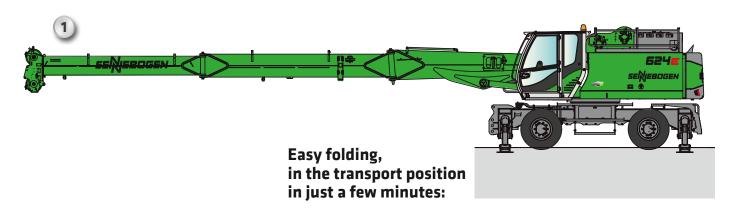


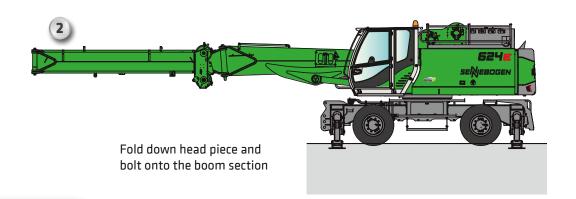




524 High mobility due to a simple folding mast system

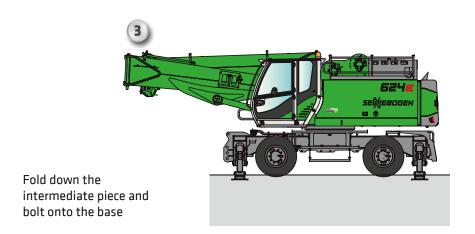
Fold down the handrail at the ascent Fold down uppercarriage railing



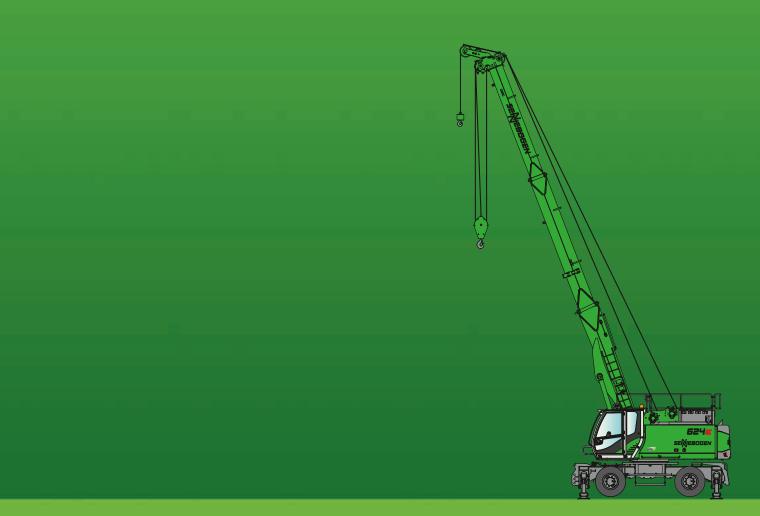


ADVANTAGES:

- Fast handling between different operation sites
- Ready for use in a short time thanks to the folding boom, no additional hoists required







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

violate the rights of the owners.

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