



AN INVESTMENT THAT PAYS OFF.



Low operating costs thanks to energy-efficient electric drives and energy recovery through the Green Hybrid system



Manageable and service-friendly technology for maximum machine availability



Consistent performance thanks to robust steel construction, and high-quality drive and control components from renowned manufacturers



High handling capacity of up to 850 t per hour* reduces the berthing time of ships



Sophisticated technology thanks to the consistent further development up to the 5th generation of the E-Series – for demanding material handling



Durable and robust in extreme weather and harsh operating conditions, works equally well in the cold of the Arctic Circle or the heat of Dubai







LONG SERVICE LIFE, HIGH VALUE RETENTION

- Reliable and powerful thanks to its robust construction and high-quality components.
- Temperature-controlled cooling system, designed and tested for heavy-duty applications and high ambient temperature

SOPHISTICATED, STATE-OF-THE-ART TECHNOLOGY

In the 5th generation – decades of experience in designing and constructing material handlers

SIMPLE TO MAINTAIN AND SERVICE

- Manageable technology and no overengineering
- Ideal accessibility to all components for easy maintenance

ENVIRONMENTALLY-FRIENDLY DRIVE TECHNOLOGY

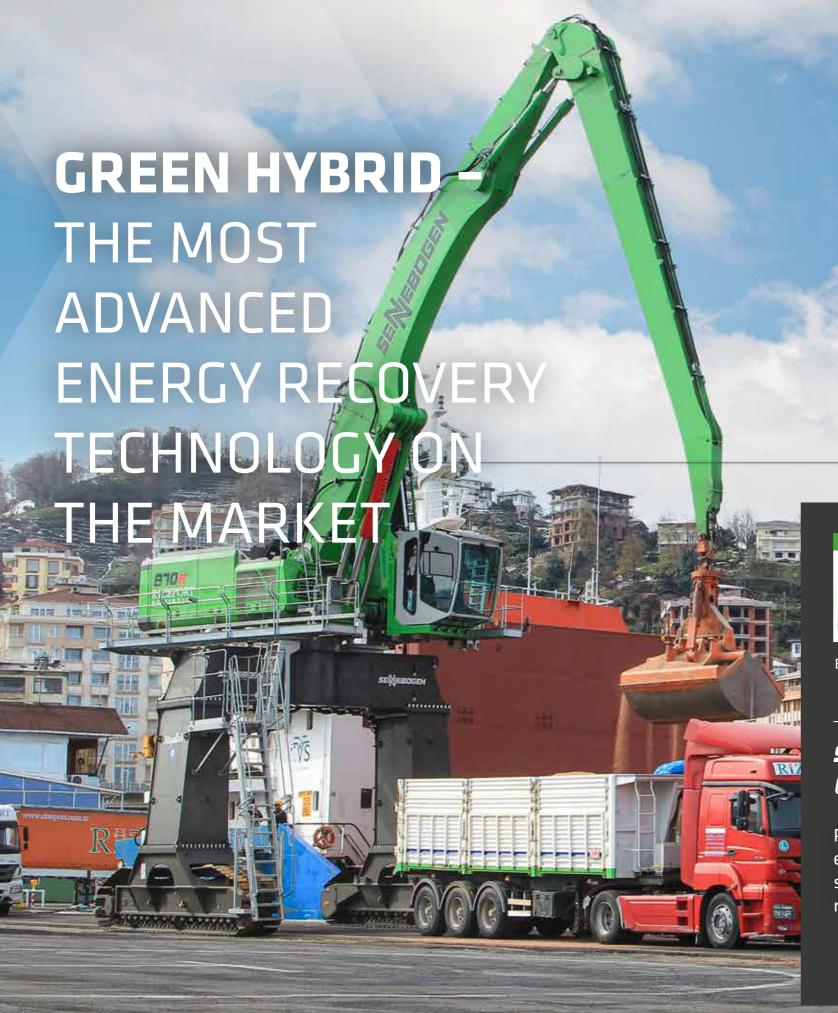
- State-of-the-art engine, drive and emission systems in line with the latest technology standards (stage V)
- Large-scale pipes and valves for maximum efficiency



SENNEBOGEN WORLD LEADER IN
ELECTRIC MATERIAL
HANDLERS.

Over the last **35 years**, we have implemented by far the most electrical applications

- A complete solution direct from the manufacturer detailed route analyses and individual power supply project planning, tailored specifically to your application
- A variety of solutions for power supplies, voltage types and emergency operating units ex works
- No fueling stops or need to store fuel always ready for use
- Service intervals twice as long and lower service costs: No need for fuel/oil filter and oil changes compared to a diesel engine
- High value retention and significantly longer service life
- No exhaust gases good for the environment, good for people
- Low-noise and vibration-free operation for greater working comfort
- Cleaner engine compartment even after long operating period



GREEN HYBRID ENERGY RECOVERY TECHNOLOGY



Energy recuperation through safe & smart design: Watch the video to find out how the SENNEBOGEN Green Hybrid system makes port handling even more efficient.

https://www.sennebogen.com/green-hybrid

Save up to

35%

energy with hybrid hydraulic cylinder



Boom lowers, gas compresses



Energy storage module consisting of nitrogen accumulators

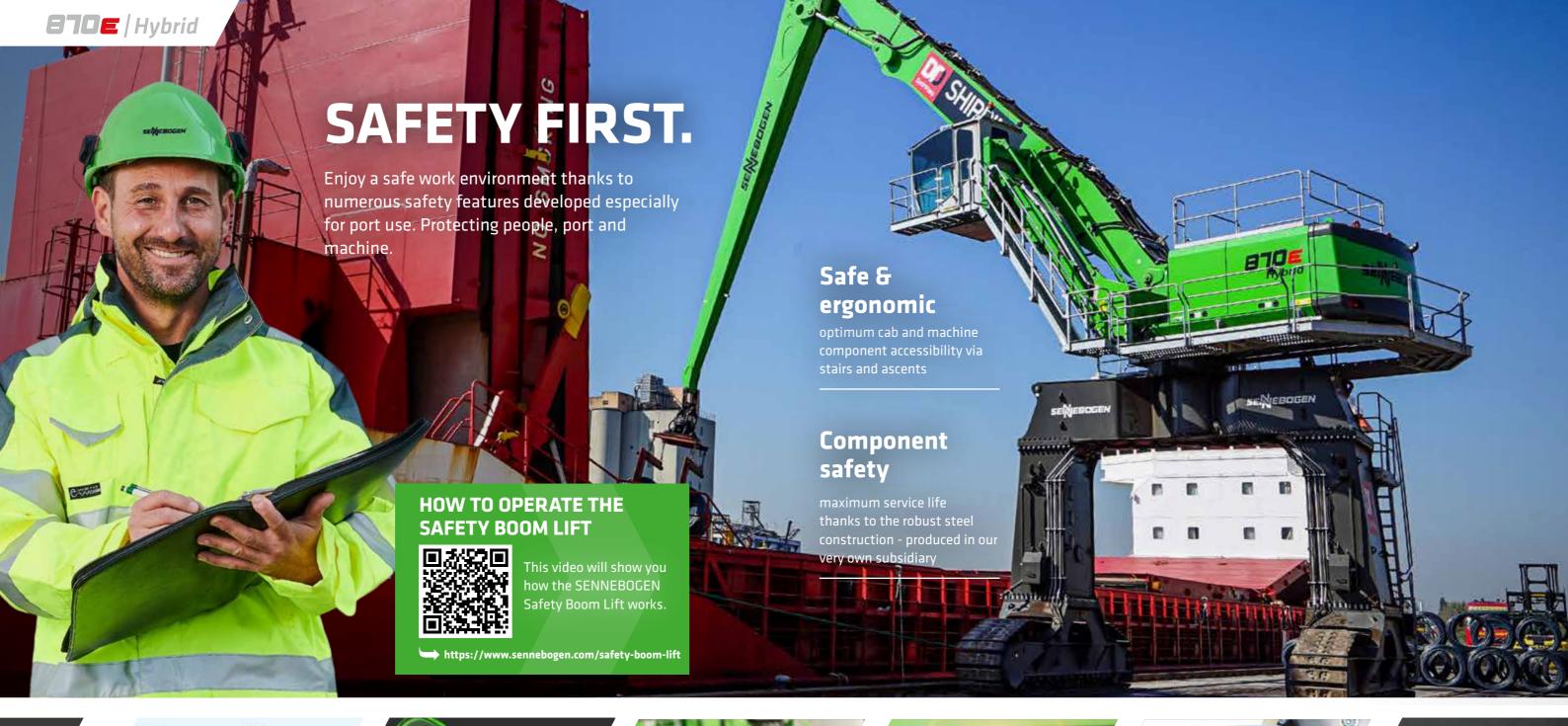


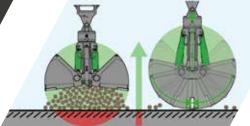
The nearly constant force transmission throughout the cylinder cycle supports the next boom lift

selNjebogen Green**Hybrid**

Protects the environment, saves energy, reduces your costs.

- System advantages: large system volume and constant force transmission over the entire cylinder cycle
- System stability through constant pressure and temperature control
- Functional safety through the use of standard hydraulic components in the protected rear area of the machine
- System can be optimally adjusted to the individual task, depending on the weight of the material being handled
- Simple inspection and system filling via SENCON control system from the operator's seat





Safety Boom Lift

Grab automatically lifts as it closes, protecting ship hulls, port surfaces, equipment and the grab itself

Bio Oil

for extended oil change intervals, with safe environmental compatibility

SENtrack

Maintain fleet management safety by monitoring the condition of your machines

Powerful LED spotlights

for optimal illumination of the work area

Load moment limitation

Protection of equipment by switching off in the event of an impermissible load



of all safety-relevant areas*



EXPERIENCE VARIETYFOR EVERY TYPE OF MATERIAL

Today general cargo, tomorrow bulk cargo – working in the port means staying flexible from day to day. The entire range of handling technology can be flexibly operated using the quick change system on the stick and the SENNEBOGEN port machines' powerful hydraulics.



Bulk material (feed, coal, etc.)



Scrap handling



Timber grab



Big Bag loading



Timber spreader/wooden pallet loading



Pulp spreader



Paper coil grab



Quick change system with lifting beam



Vacuum lifter



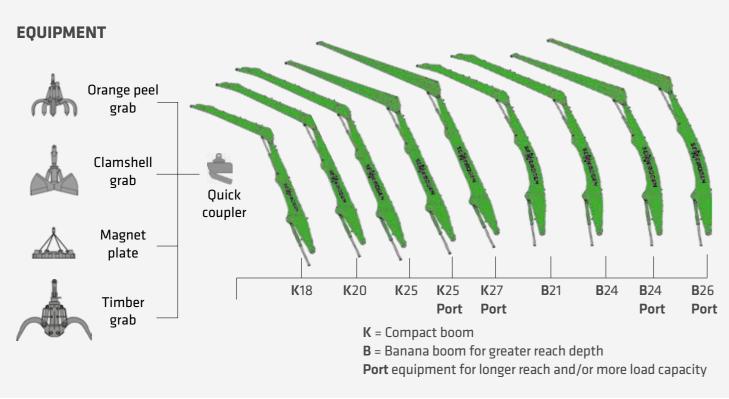


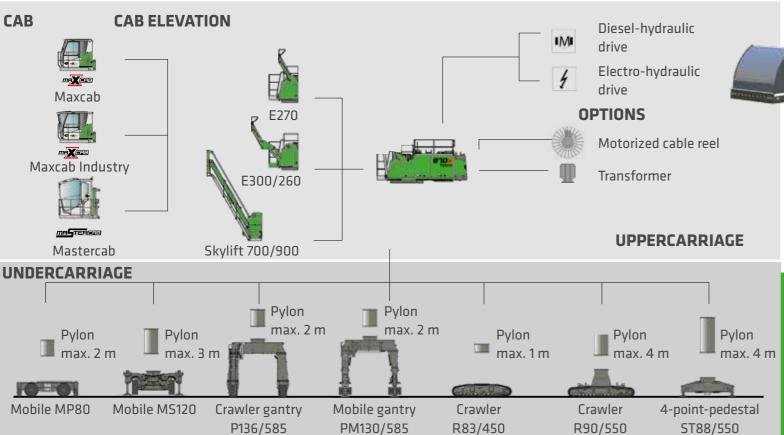
Watch the video to see how quick and easy it is to change the grab with the quick change system on the stick!

https://www.sennebogen.com/quick-coupler

870E | Hybrid

A MODULAR DESIGN. **NUMEROUS APPLICATIONS.**







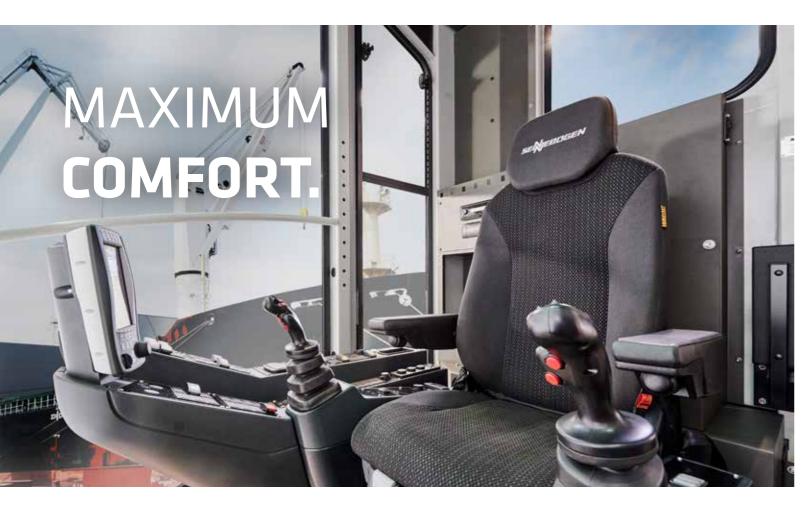


CUSTOM CONFIGURATION

More than 16,000 unique material handling solutions can be delivered through SENNEBOGEN's modular machine design – watch the video now!

https://www.sennebogen.com/versatility





Everything in view

The spacious cab with panoramic view gives you a practical overview of your work area. The window in the floor makes it possible to carry out precise loading operations even in close proximity. The safety cameras provide support and allow you to monitor the critical areas conveniently via the monitoring system in the cab.

Pleasant indoor climate

Whether in warmer areas or in ports with sub-zero temperatures, you can enter a work space with a comfortable temperature every day and concentrate on the essentials of work thanks to automatic heating and air conditioning.

Easy control

The intelligent SENCON control system gives you quick and easy feedback on the machine's condition. Thanks to the intuitive user interface, it has never been easier to monitor energy consumption and utilization, control the desired working modes and contribute towards reducing operating costs.

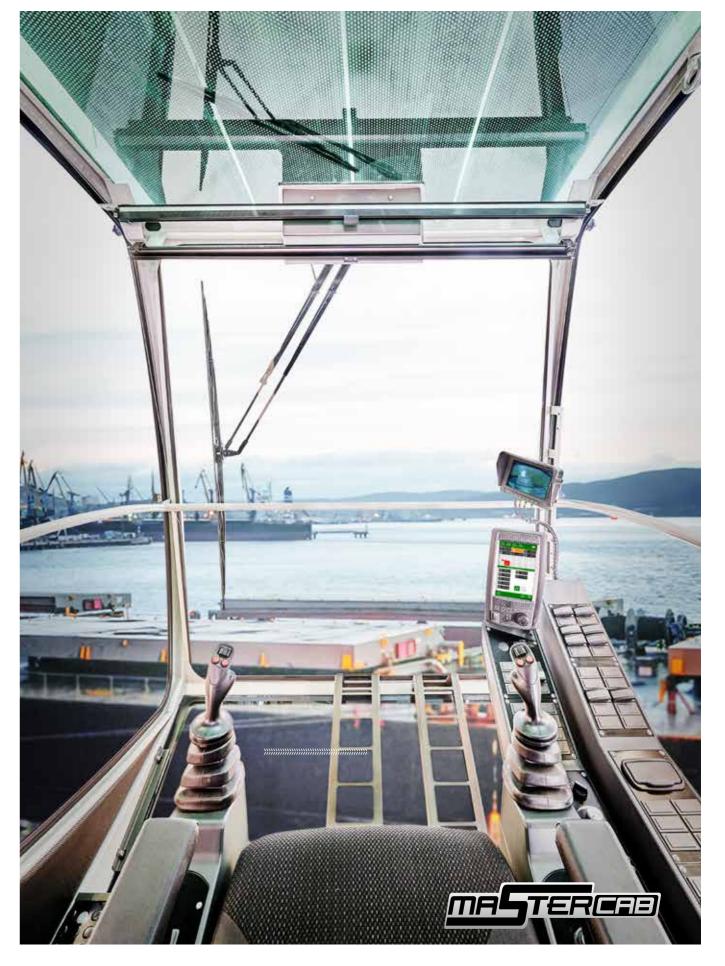
✓ For your health

Operators spend many hours in their working position. The backfriendly comfort seat, adjustable armrests, joysticks that sit comfortably in the hand, and the optimally arranged controls make daily work as easy as possible.

"We are constantly on site with users to optimize the design of the work-place and discuss new developments."

ROBERT AUMÜLLER, Head of the Port Business Unit







CAB HIGHLIGHTS





Maxcab

Maxcab Industry

IN SERIES		
ENTRANCE	Sliding door incl. sliding window	Sliding door incl. sliding window
WINDSHIELD	Tinted safety glass	Undivided windshield made from bul proof glass, rigidly glazed
SKYLIGHT	Safety glass skylight	Bullet proof skylight
FLOOR WINDOW	-	-
	Wipers for skylight	Wipers for skylight
WIPERS	Wiper and washer system for front windshield	Wiper and washer system for front windshield
AIR CONDITIONER	Heating/air conditioning system with fresh air and recirculating air filter	Heating/air conditioning with fresh and recirculating air filter
FLOODLIGHTS	Floodlights integrated into roof	Floodlights integrated into roof
FOLDAWAY SEAT	-	-
RADIO PREPARATION	✓	✓
SENCON CONTROL AND DIAGNOSTIC SYSTEM	✓	✓
OPTIONS		
AIR-CONDITIONED SEAT	✓	✓
RADIO	✓	✓
COOLING BOX BEHIND THE OPERATOR'S SEAT	✓	✓
PROTECTIVE GRILLE ON SKYLIGHT AND WINDSHIELD	✓	✓
SUN PROTECTION PACKAGE	✓	✓



Spacious Mastercab

MA**S**TERGIB

Easy access through wide cab door

Tinted double glazing for side windows

Large roof window with sun protection slats

Bullet proof glass floor window

Wipers for skylight

Parallelogram wipers for harsh weather conditions

Automatic air conditioning with optimized de-icing and demisting function

Floodlights integrated into the uppercarriage and roof

Foldaway seat in cab











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ALWAYS THE RIGHT **VIEWING ANGLE**





1. Reduce service costs

The dashboard is used to monitor the machine and its main operating parameters (temperatures, consumption). If key figures deviate significantly from the target value, preventive maintenance can be arranged.

2. Reduce consumption

You will receive daily updated insights into your fleet processes: Easily identify and optimize times when machines are idle or change set parameters when machines are underloaded to reduce consumption.

"What if you could receive real-time data from all your machines with just one click and so increase your productivity? SENNEBOGEN's SENtrack telematic system makes this possible."

3. Improve productivity

With just a few clicks, you can identify and optimize machine capacity, analyze routes if required and thus make your port processes more profitable.

✓ 4. Safeguard your investment

Practical alarm messages inform you about critical machine conditions. In the event of irregular movements, the machine can also easily be deactivated remotely.





KEEP IT SIMPLE. WITH MANAGEABLE TECHNOLOGY.



Reliable and practical technology makes life easier. Where electronics add no value, we rely on hydraulics and electrical systems.



We make you happy, not reliant. With cost-effective components and fewer process steps, you can take care of your own machine.



The most important components, such as the accumulator module or the electrical distributor, are all easily accessible from a central point for straightforward checking and troubleshooting.





The SENCON control system supports you with diagnostics and makes troubleshooting easier. So your machine is back in action more quickly.

All maintenance and service points are clearly arranged and easily accessible. The clear labeling of components makes finding your way around easy.

TECHNICAL DATA, EQUIPMENT

MACHINE TYPE MODEL (TYPE) 870 Hybrid DIESEL ENGINE TYPE Stage V: Cummins X12-FR21082 Rated power: 261 kW/1800 rpm Operating point standard: 261 kW/1800 Operating point ECO: 260 kW/1650 rpm TIER 3a Cummins QSM11-FR21134 Rated power: 268 kW/1800 rpm Operating point standard: 268 kW/1800 Operating point ECO: 264 kW/1650 rpm both: Automatic idle/stop COOLING charge air cooling, coolant cooling DISPLACE-Stage V: MENT 11.8 l TIER 3a 10.8 I NUMBER OF 6 CYLINDERS BATTERIES 2 x 180 Ah, battery disconnect switch ELECTRICAL Alternator SYSTEM Stage V: 24 V/120 A Stage IIIa: 24 V/120 A Starter motor Stage V: 24 V/7.5 kW Stage IIIa: 24 V/7.2 kW

FUEL	1000 l
ADBLUE	100 I (Stage V)
HYDRAULIC TANK	900
COOLANT	Entire machine: approx. 70 I (stage V); approx. 60 I (Stage IIIa)
ENGINE OIL	341
CENTRAL LUBRICATION SYSTEM	Automatic central lubrication for equipment and slewing ring, display of fault and empty message via SENCON
	Lubrication pump with 8 kg reservoir (for approx. 300 operating hours)
UPPERCAR	DIACE
UPPERLAR	
DESIGN	Torsion-resistant box design, precision crafted, steel bushings for boom mounting. Very service-friendly design, engine installed in the longitudinal direction
COOLING SYSTEM	Cooling system with 3 cooling circuits and demand-driven fan control consisting of: Coolant cooling and hydraulic oil cooling, hydraulically driven, thermostatically controlled incl. fan reversal.
OPTIONS	LED lighting package
	Swing bearing brake via foot pedal
	Fire extinguisher
	Maritime climate paint
	Low temperature packages
	Electrical Hydraulic tank preheating
	Magnetic generator 25 kW
1	

¹ incl. exhaust gas aftertreatment (diesel particulate filter, SCR catalytic converter, AdBlue tank) Subject to technical changes. Additional options available upon request.

TECHNICAL DATA, EQUIPMENT

ELECTRIC D	RIVE
OPTIONS	Type: 250 kW, standard with frequency converter
	Power: Total connected load 410 kVA, machine side fuse 500 A (alternatively 630 with magnet system) for 400 V – star- delta connection motor start
	IP protection class: IP 55 standard, (IP 65 optional)

	delta connection motor start	
	IP protection class: IP 55 standard, (IP 65 optional)	
HYDRAULIC	SYSTEM	
Load-sensing/ LDUV hydraulic system, hydraulically operated work functions		
DELIVERY RATE	2 x 475 l/min and 1 x 274 l/min for rotary drive	
OPERATING PRESSURE	up to 350 bar	
CONTROL SYSTEM	Proportional, precision hydraulic actuation of the work movements, 2 hydraulic servo joysticks for work functions, additional functions via switches and foot pedals	
SAFETY	Hydraulic circuits safeguarded with safety valves	
	Pipe fracture safety valves for lift and stick cylinders	
	Emergency lowering of the equipment in case of engine standstill	
OPTIONS	Bio-oil filling	
	Tool Control for programming pressure/ rate of up to 10 tools	
	Load torque warning with capacity display	
	Overload safeguard with shutdown	
	SENNEBOGEN HydroClean micro-filter system (3 μm)	

SLEWING DRIVE 🗬	
GEARBOX	Compact planetary gear with bent-axis hydraulic engine, integrated brake valves
SLEW BRAKE	Spring-loaded multi-disk brake
SLEWING RING	Externally geared slewing ring with 360° protection and pinion lubrication
SLEWING SPEED	0-5 rpm, variable

CAB ²	
CAB TYPE	Maxcab, 2.7 m elevation
CAB FEATURES	Sliding door incl. sliding window, vibration damper, tinted safety glass, opening windshield, skylight, windshield wipers, radio preparation, air-suspension comfort seat, joystick steering, SENCON
OPTIONS	Maxcab Industry with slanted windscreen
	Cab adjustment can be raised 3 m and moved forward 2.6 m
	Spacious Mastercab
	Skylift cab elevation (elevation 9 m)
	Skylift cab elevation (elevation 7 m)
	Windscreen/roof window made of bulletproof glass (Mastercab)
	Polycarbonate safety glass
	Protective roof guard, FOPS if applicable
	Protective front guard
	Carbon filter for circulation/outside air
	Auxiliary heating system
	Air-conditioned seat
	Radio
	Cooling box







Engine oil preheating, coolant preheating

Electric fuel pump
Jump start pole

OPTIONS



TECHNICAL DATA, EQUIPMENT

UNDERCAR	RIAGE H-H
MOBILE	MP80 mobile undercarriage with integrated 4-point outrigger, steering axle as hydraulically lockable pendulum axle, pendulum axle cylinder with pipe-fracture safety valves, all-wheel drive via an adjustable hydraulic motor with directly attached, automatically actuated brake valve and planetary axles with integrated steering cylinders, service brake with 2-circuit system
TRANSPORT WIDTH	4250 mm
TIRE TYPE	26,5 - 25,4 times
BRAKES	hydraulic
OUTRIGGER SIZE	800 x 680 mm
TRAVEL SPEED	0-10 km/h variable

CRAWLER (ANTRY
UNDER- CARRIAGE TRACK WIDTH	7210 mm
TRACK GAUGE	5850 mm
PLATE WIDTH	900 mm
UNDER- CARRIAGE LENGTH	8425 mm
RAIL GANTRY	Customized, tailored to your application
	Pylon extension



MOBILE GA	NTRY
UNDER- CARRIAGE WIDTH	7450 mm
TIRE TYPE	355/65-15 pneumatic tires
BRAKES	hydraulic
OUTRIGGER PLATE SIZE	Ø 1600 mm
TRAVEL SPEED	0-4 km/h variable

travel drive on each frame by an axial pi	ge, mechanically telescopic with hydraulic chassis side integrated in the chassis iston engine via compact planetary gears, ng brake, hydraulically ventilated multi-
UNDER- 5	400 mm, transport width: 3800 mm

CRAWLER

CARRIAGE TRACK WIDTH	
TRACK GAUGE	2800 - 4500 mm
PLATE WIDTH	900 mm
UNDER- CARRIAGE LENGTH	7000 mm
TRAVEL SPEED	0-2,7 km/h
OPTION	Special undercarriage with integrated 2 m pylon
	900 mm rounded flat track shoes
	900 mm canted flat track shoes
	A STATE OF THE STA



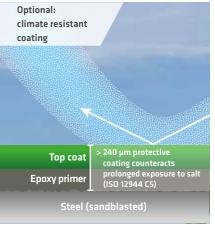
TECHNICAL DATA, EQUIPMENT

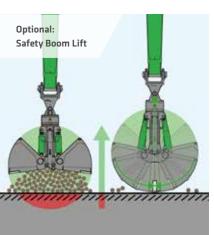
EQUIPMENT	
REACH	up to 27 m
CYLINDERS	Hydraulic cylinders with high-quality sealing and guide elements, end position damping, sealed mounting points
OPTIONS	Safety Boom Lift for equipment
	Sea climate resistant coating of all cylinders, nickel-plated and chrome-plated
	Adjustable lift limitation / stick limitation
	LED lighting
	Stick mounted camera
	Special port equipment with increased load capacities

OPERATING	DATA
REACH	up to 27 m
OPERATING WEIGHT	95 – 135 t
NOTE	Operating weight varies by model and equipment.









LOAD RATINGS K18

The load ratings are given as information only. Please contact our regional sales partners or portdivision@sennebogen.de for a detailed project study.



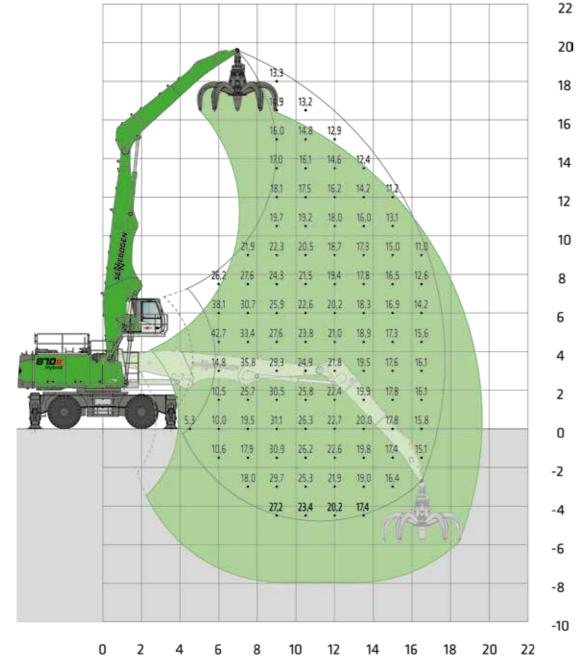
MP80



MAXCAB 2.70 m elevating (E270)



10.8 m boom 7.8 m grab stick



Notes:

20180910115201

Machine

shown in

mirror image

All load ratings are given in tons (t) brought to bear at the end of the stick, without tools on firm level ground. Working tools such as grab, magnet, load hook, etc. are included in the specified load ratings. The stated values are 75 % of the static tipping load or 87 % of the hydraulic lifting force according to ISO 10567 and apply at the required operating temperature in the Green Hybrid system. According to EU standard EN 474/5, hydraulic material handlers used for hoisting must be equipped with a pipe rupture safety device on lifting and stick cylinders and an overload warning device. The specified load ratings apply to maximum track width and 360° slewing.

LOAD RATINGS K20

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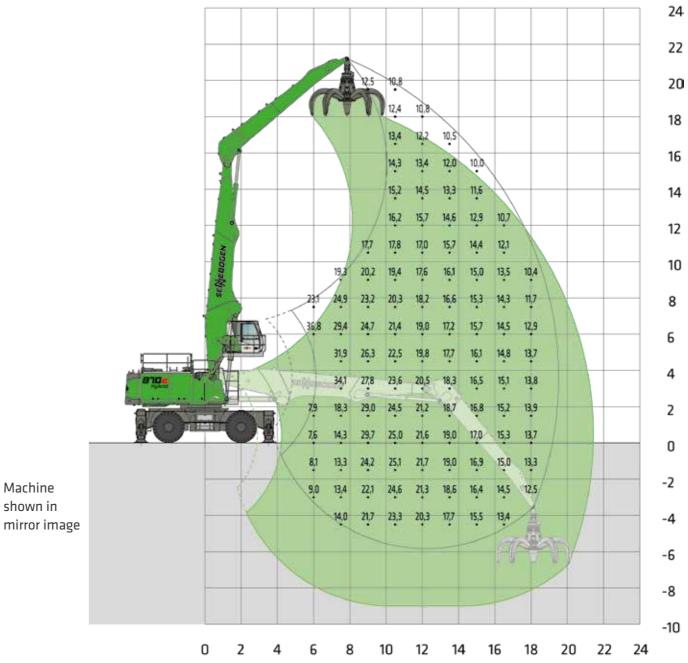
MP80



MAXCAB 2.70 m elevating (E270)



11.8 m boom 8.8 m grab stick



Notes:

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870= | Hybrid

LOAD RATINGS K25 PORT

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MS120



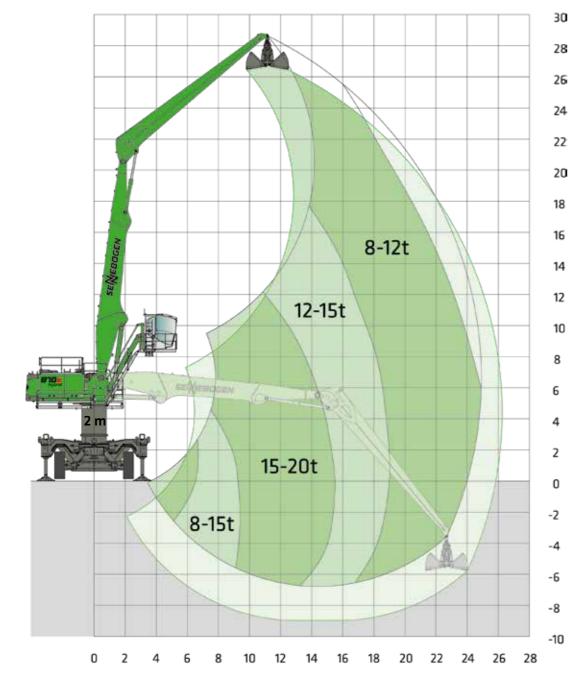
SKYLIFT 700 with MASTERCAB, hydraulically elevating (option)



Pylon extension 2.0 m



14 m boom 12.3 m grab stick



Notes:

20180704161831

Machine

shown in

mirror image

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LOAD RATINGS K20 PORT

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MP80



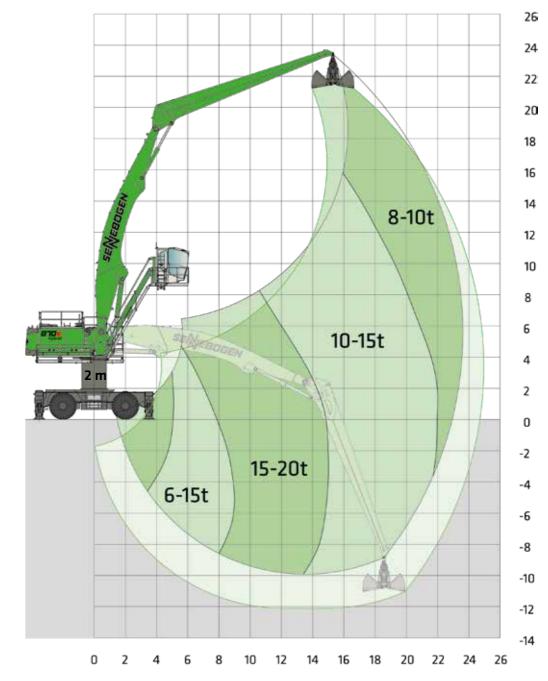
SKYLIFT 900 with MASTERCAB, hydraulically elevating (option)



Pylon extension 2.0 m



13.5 m boom 12.3 m grab stick



mirror image

Machine shown in

Subject to technical changes.

201807

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870= | Hybrid

LOAD RATINGS K22

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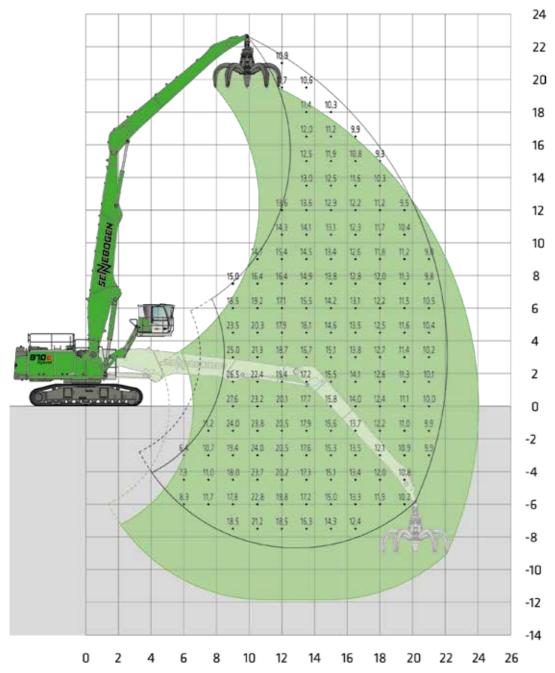
R83/450



MAXCAB INDUSTRY can be elevated by 3 m and moved forward 2.60 m



12.5 m boom 10.8 m grab stick



Notes:

20190731172354

Machine

shown in

mirror image

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LOAD RATINGS K25

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R90/550



MAXCAB INDUSTRY can be elevated by 3 m and moved forward 2.60 m



Pylon extension 2.0 m



14.0 m boom 12.3 m grab stick

Machine shown in mirror image

10 12 16 18 20 22 24 26 28 8

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870E | Hybrid

LOAD RATINGS K27 PORT

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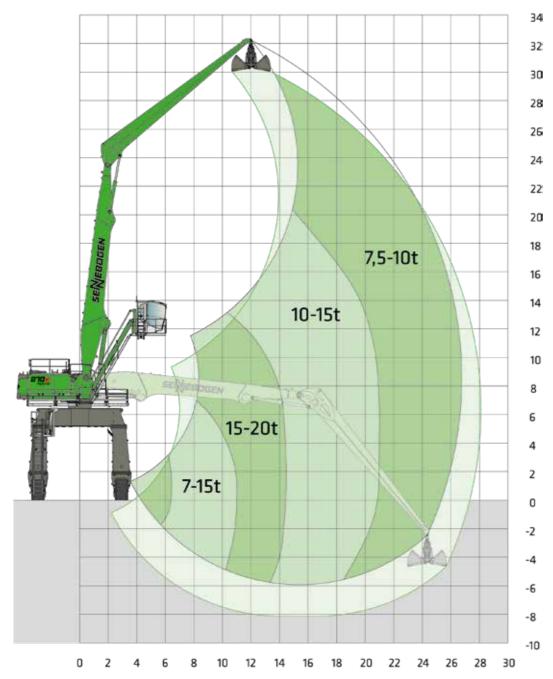
P136/585



SKYLIFT 900 with MASTERCAB, hydraulically elevating (option)



15 m boom 13.3 m grab stick



Notes:

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Machine

shown in

mirror image

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LOAD RATINGS B21

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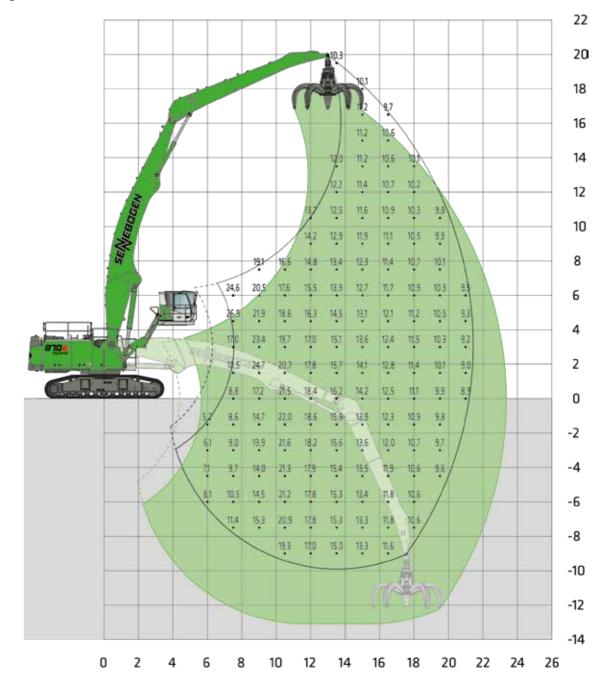
R83/450



MAXCAB INDUSTRY can be elevated by 3 m and moved forward 2.60 m



13.5 m boom 9.8 m grab stick



Notes:

Subject to technical changes.

Machine

shown in

mirror image

All load ratings are given in tons (t) brought to bear at the end of the stick, without tools on firm level ground. Working tools such as grab, magnet, load hook, etc. are included in the specified load ratings. The stated values are 75 % of the static tipping load or 87 % of the hydraulic lifting force according to ISO 10567 and apply at the required operating temperature in the Green Hybrid system. According to EU standard EN 474/5, hydraulic material handlers used for hoisting must be equipped with a pipe rupture safety device on lifting and stick cylinders and an overload warning device. The specified load ratings apply to maximum track width and 360° slewing.

LOAD RATINGS B26 PORT

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R90/550



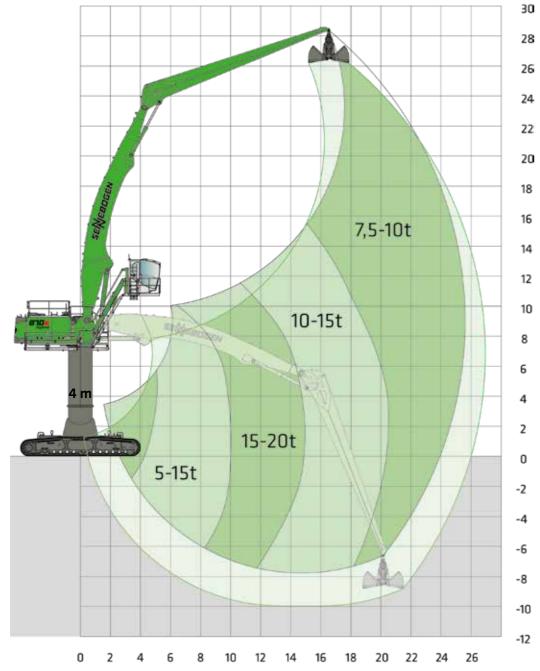
SKYLIFT 700 WITH MASTERCAB, hydraulically elevating (option)



Pylon extension 4.0 m



14.7 m boom 13.3 m grab stick



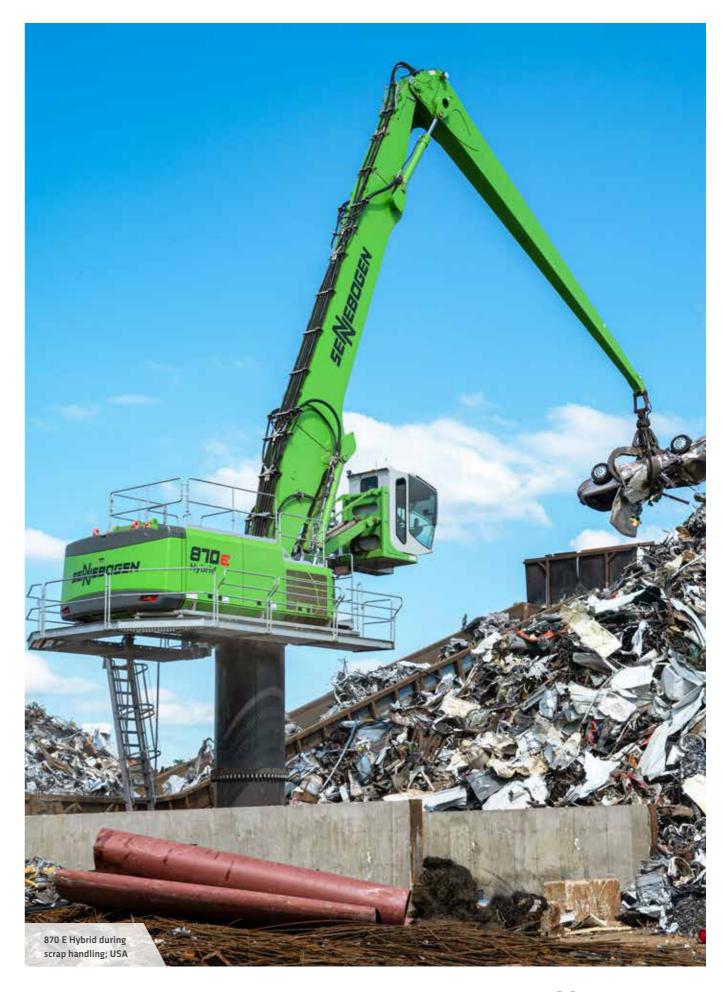
Notes:

Machine

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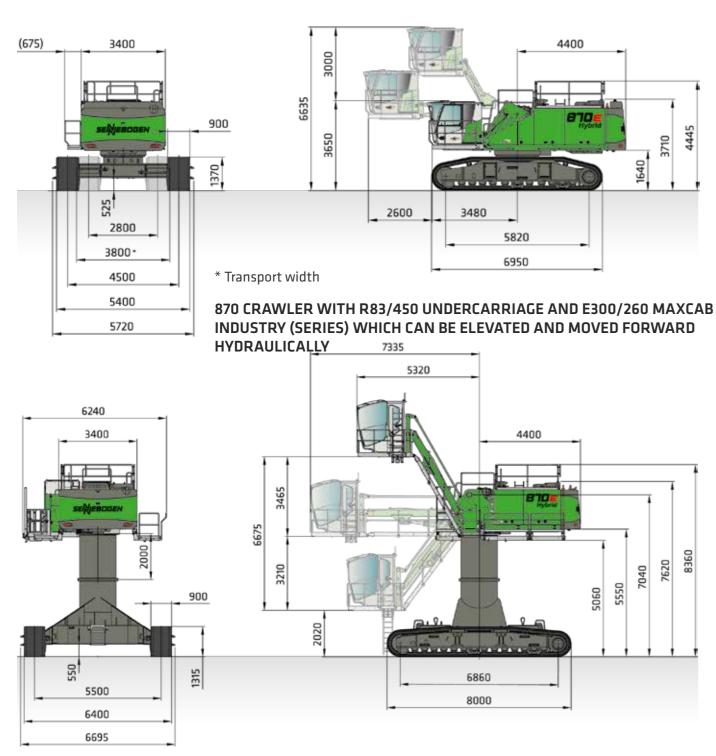
mirror image

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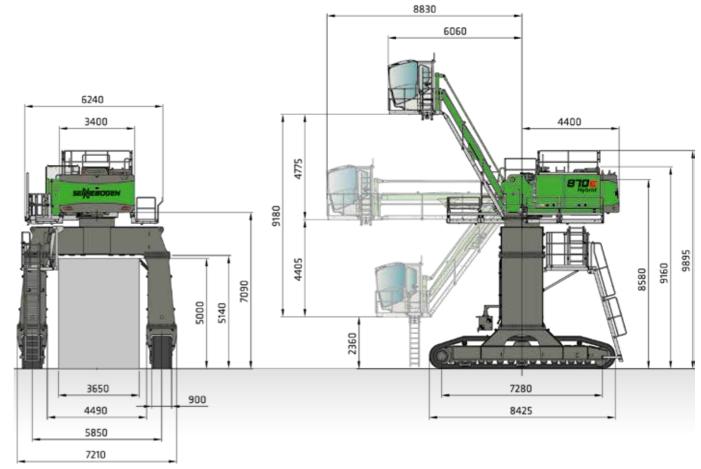
Subject to technical changes.

CRAWLER DIMENSIONS



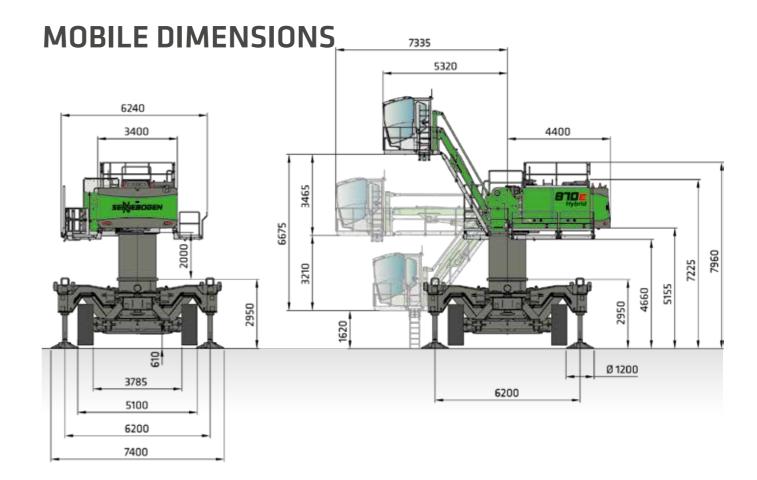
870 CRAWLER WITH UNDERCARRIAGE R90/550 AND SKYLIFT 700 WITH MASTERCAB, HYDRAULICALLY ELEVATING

CRAWLER DIMENSIONS

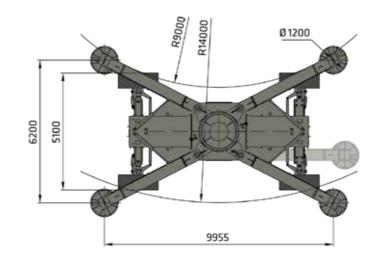


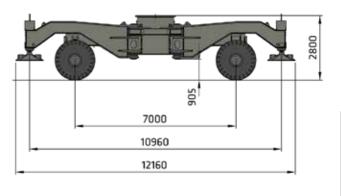
870 CRAWLER GANTRY WITH UNDERCARRIAGE P136/585 AND SKYLIFT 900 WITH MASTERCAB, HYDRAULICALLY ELEVATING

870 MOBILE WITH MP80 UNDERCARRIAGE AND E300/270 MAXCAB (SERIES) WHICH CAN BE ELEVATED AND MOVED FORWARD HYDRAULICALLY



870 MOBILE WITH MS120 UNDERCARRIAGE AND HYDRAULICALLY ELEVATING SKYLIFT 700 CAB **ELEVATION AND MASTERCAB**



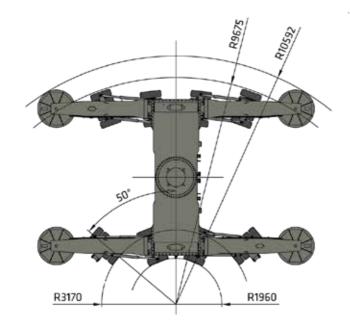


870E | Hybrid

MOBILE GANTRY DIMENSIONS

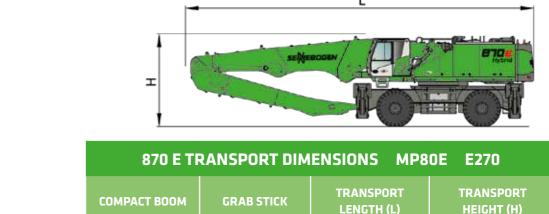
6740 3400 4150 5850 7450 10200 11800

870 MOBILE GANTRY WITH PM130/585 UNDERCARRIAGE AND HYDRAULICALLY ELEVATING SKYLIFT 900 CAB ELEVATION AND MASTERCAB



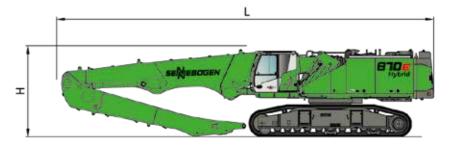
TURNING RADIUS PM130/585

TRANSPORT DIMENSIONS MOBILE/CRAWLER



	870 E TRANSPORT DIMENSIONS MP80E E270				
	СОМРАСТ ВООМ	GRAB STICK	TRANSPORT LENGTH (L)	TRANSPORT HEIGHT (H)	
K18	10.8 m	7.8 m	16.0 m	4.2 m	
K20	11.8 m	8.8 m	17.0 m	4.2 m	
B24 Port	13.5 m Banana	12.3 m Port	18.5 m	4.2 m*	

* = stick removed



	870 E TRANSPORT DIMENSIONS R83/450				
	СОМРАСТ ВООМ	GRAB STICK	TRANSPORT LENGTH (L)	TRANSPORT HEIGHT (H)	
K18	10.8 m	7.8 m	16.0 m	4.1 m	
K20	11.8 m	8.8 m	17.0 m	4.1 m	
B21	13.5 m Banana	9.8 m	18.5 m	4.1 m*	
K22	12.5 m	10.8 m	18 m	4.1 m	

* = stick removed







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Balancer 130-300 t Material handler 17-420 t

Duty cycle crane 13.5-300 t

Crawler crane 50-300 t

Telescopic crane 16-130 t

Port crane 300 t



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