

# SENEBOGEN

PRELIMINARY

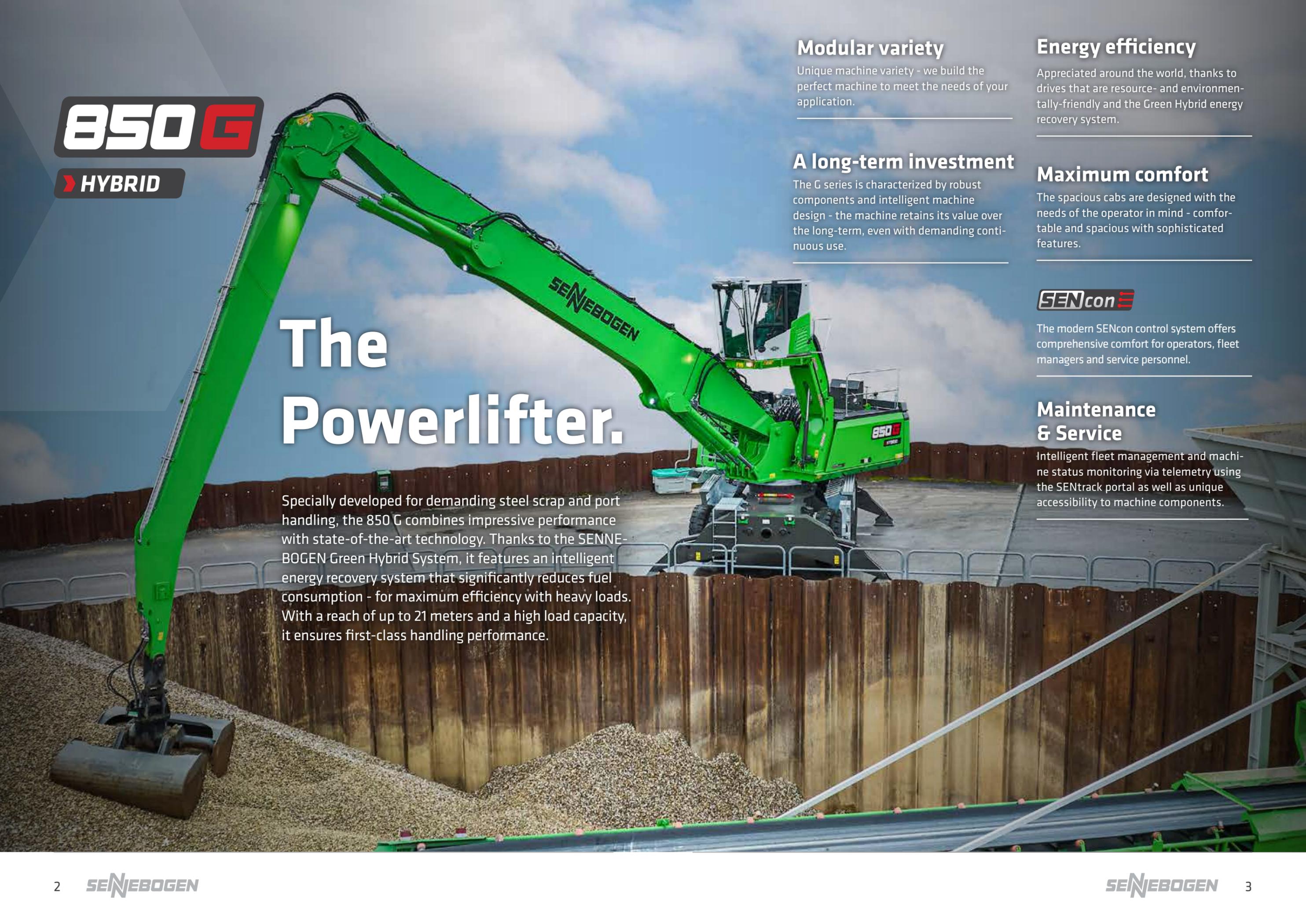
# MATERIAL HANDLER

MOBILE / CRAWLER

## 850G

► HYBRID





**850 G**

**HYBRID**

# The Powerlifter.

Specially developed for demanding steel scrap and port handling, the 850 G combines impressive performance with state-of-the-art technology. Thanks to the SENNEBOGEN Green Hybrid System, it features an intelligent energy recovery system that significantly reduces fuel consumption - for maximum efficiency with heavy loads. With a reach of up to 21 meters and a high load capacity, it ensures first-class handling performance.

## Modular variety

Unique machine variety - we build the perfect machine to meet the needs of your application.

## A long-term investment

The G series is characterized by robust components and intelligent machine design - the machine retains its value over the long-term, even with demanding continuous use.

## Energy efficiency

Appreciated around the world, thanks to drives that are resource- and environmentally-friendly and the Green Hybrid energy recovery system.

## Maximum comfort

The spacious cabs are designed with the needs of the operator in mind - comfortable and spacious with sophisticated features.

**SENcon**

The modern SENcon control system offers comprehensive comfort for operators, fleet managers and service personnel.

## Maintenance & Service

Intelligent fleet management and machine status monitoring via telemetry using the SENtrack portal as well as unique accessibility to machine components.

# AN INVESTMENT THAT PAYS OFF.

The durability and reliability of the SENNEBOGEN Green Line is based on decades of experience in the design of high-quality crane and material handling technology. We find the perfect solution for any application in the scrap yard, inland ports or steelworks worldwide – so that you can handle scrap and bulk materials in a particularly economical and environmentally friendly manner.



Low operating costs thanks to 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



Maximum efficiency thanks to powerful pumps, large-scale hydraulic valves and pipes



Sophisticated technology thanks to the consistent further development up to the 6th The G series generation – 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 in extreme heat



# Advanced. The **G** series.



## 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 temperatures

## SOPHISTICATED, STATE-OF-THE-ART TECHNOLOGY

- Consistent design for demanding material handling
- Increased efficiency thanks to multi-circuit hydraulics, optimized hose and pipe routing

## ENVIRONMENTALLY FRIENDLY DRIVE TECHNOLOGY

- State-of-the-art engine, drive and emission systems in line with the latest technology (stage V)
- Refueling with alternative fuel HVO possible

## SIMPLE TO MAINTAIN AND SERVICE

- Fewer service operations on site thanks to SENcon remote diagnostics
- Ideal accessibility to all clearly labeled components for easy maintenance

Save up to  
**30%**  
energy with  
hybrid hydraulic cylinder

# GREEN HYBRID - THE MOST ADVANCED ENERGY RECOVERY TECH- NOLOGY ON THE MARKET



1 Boom lowers,  
gas compresses



2 Energy storage module consisting  
of hydraulic cylinder and nitrogen  
accumulator



3 The nearly constant force trans-  
mission throughout the cylinder  
cycle supports the next boom lift

## SENNEBOGEN GreenHybrid

Protects the environ-  
ment, 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 is optimally adjusted to the individual machine configuration

### GREEN HYBRID ENERGY RECOVERY TECHNOLOGY



Energy recuperation through  
safe & smart design:  
Discover in the video how  
the SENNEBOGEN Green  
Hybrid system makes material  
handling even more efficient.

[www.sennebogen.com/835-green-hybrid](http://www.sennebogen.com/835-green-hybrid)

# SAFETY FIRST.

Enjoy a safe work environment thanks to numerous safety features developed especially for port and scrap yard use. Protecting people, the environment and the machine.



## Component safety

maximum service life thanks to the robust steel construction produced in our very own subsidiary

## Extended warranty

from 10.000 operating hours or three years on steel components

## Safe & ergonomic

optimal cab and machine component accessibility via steps and railings on the uppercarriage



### Best all-round visibility with maximum safety

Panoramic view thanks to continuous glass surfaces, bulletproof glass panel at the front, viewing height of 6.10 m



### Pipe fracture safety in series production

Load holding valve for optimum work safety



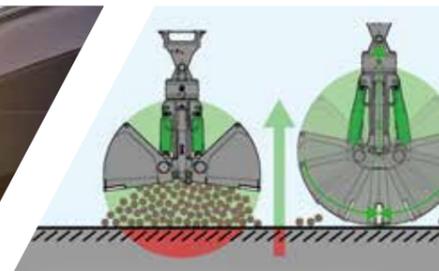
### SENtrack

Maintain fleet management safety by monitoring the condition of your machines



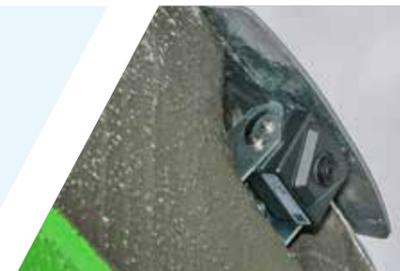
### Powerful LED spotlights

for optimum illumination of the work area



### Safety Boom Lift

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



### Optimal camera monitoring

of all safety-relevant areas\*

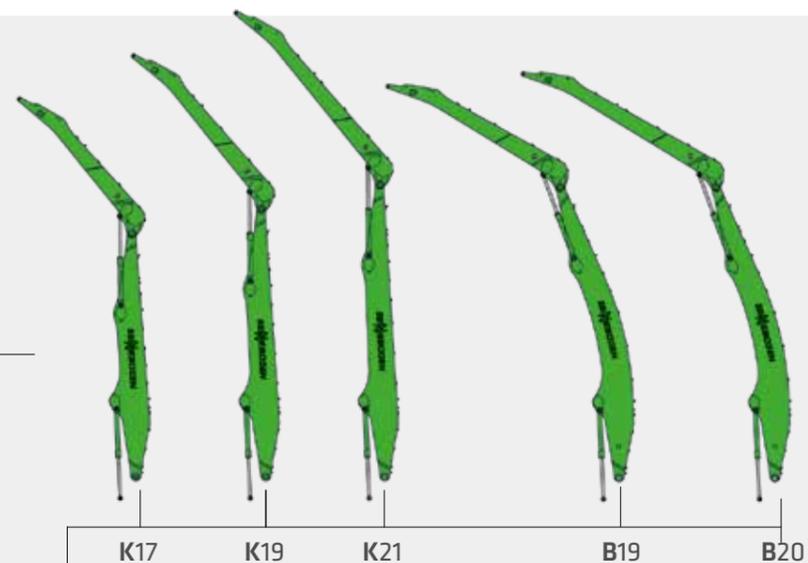
\* Cameras are installed as standard on the right-hand side and to monitor the rear area. Additional cameras, e.g. on the stick, are available on request.

# A MODULAR DESIGN. NUMEROUS APPLICATIONS.

## EQUIPMENT

-  Orange peel grab
-  Clamshell grab
-  Magnet
-  Scrap shears
-  Vacuum lifter
-  Timber grab

Quick coupler

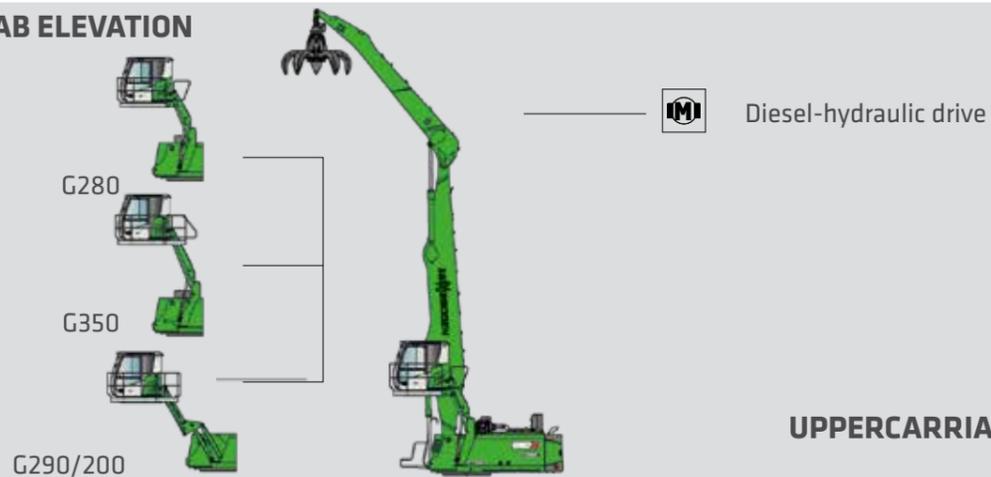


K = Compact boom  
B = Banana boom for greater reach depth

## CAB

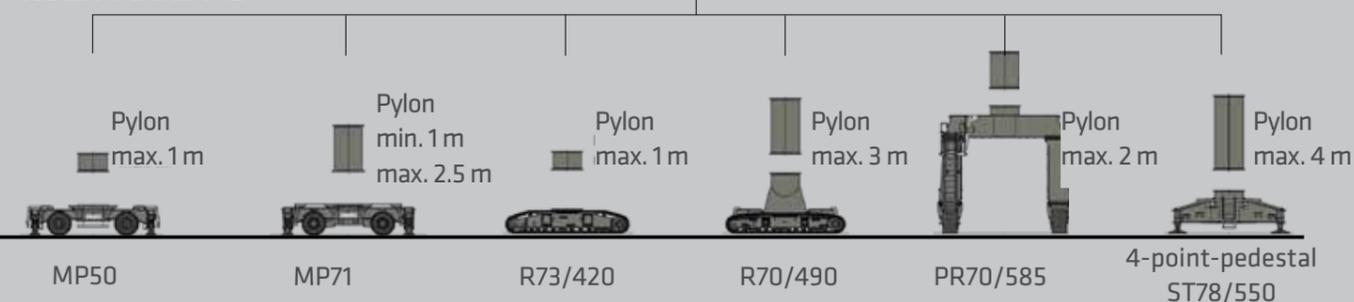
## CAB ELEVATION

-  Maxcab
-  Maxcab Industry



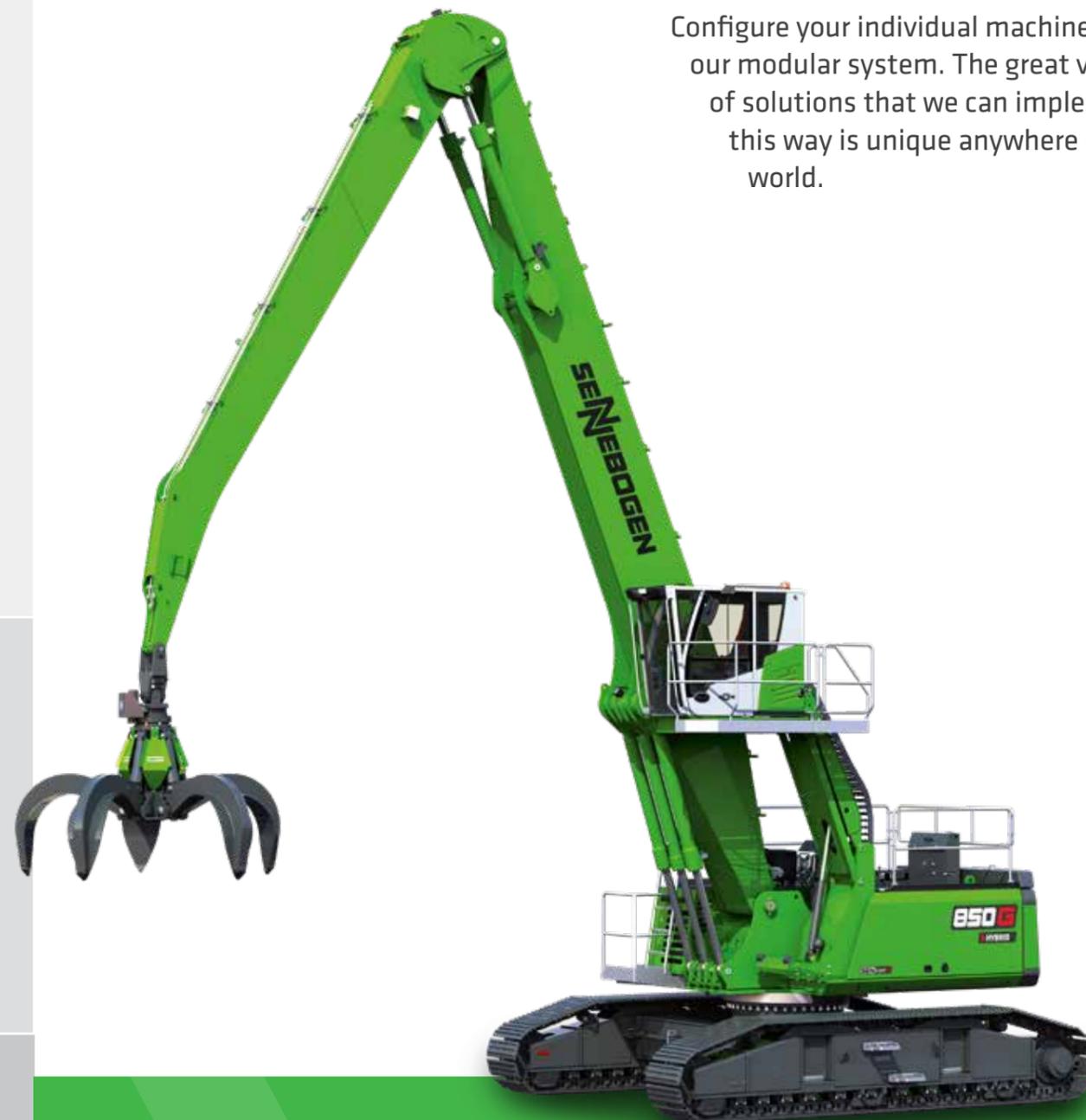
## UPPERCARRIAGE

## UNDERCARRIAGE



# WHAT DOES YOUR MACHINE LOOK LIKE?

Configure your individual machine from our modular system. The great variety of solutions that we can implement in this way is unique anywhere in the world.



## CUSTOM CONFIGURATION

More than 16.000 unique material handling solutions can be delivered through SENNEBOGEN's modular machine design - watch the video now!

[www.sennebogen.com/versatility](http://www.sennebogen.com/versatility)



# MAXIMUM COMFORT.

## Everything in view

The new Maxcab sets standards in terms of overview and functionality. Thanks to the generous panoramic view, you always have a perfect overview of your work area. Supported by modern safety cameras and an advanced monitor system, you can keep a comfortable and safe eye on the danger zone.

## Pleasant indoor climate

The Maxcab's modern automatic climate control ensures an optimally tempered working environment in any kind of weather. No matter if it's scorching heat or freezing temperatures - approach your tasks every day with composure and focus.

## New, modern interior

The Maxcab impresses with a completely revised interior design that meets the highest standards of ergonomics and comfort. High-quality materials and a well thought-out interior design create a pleasant working environment, while the continuous large windows ensure a generous feeling of space.

## Intuitive operation

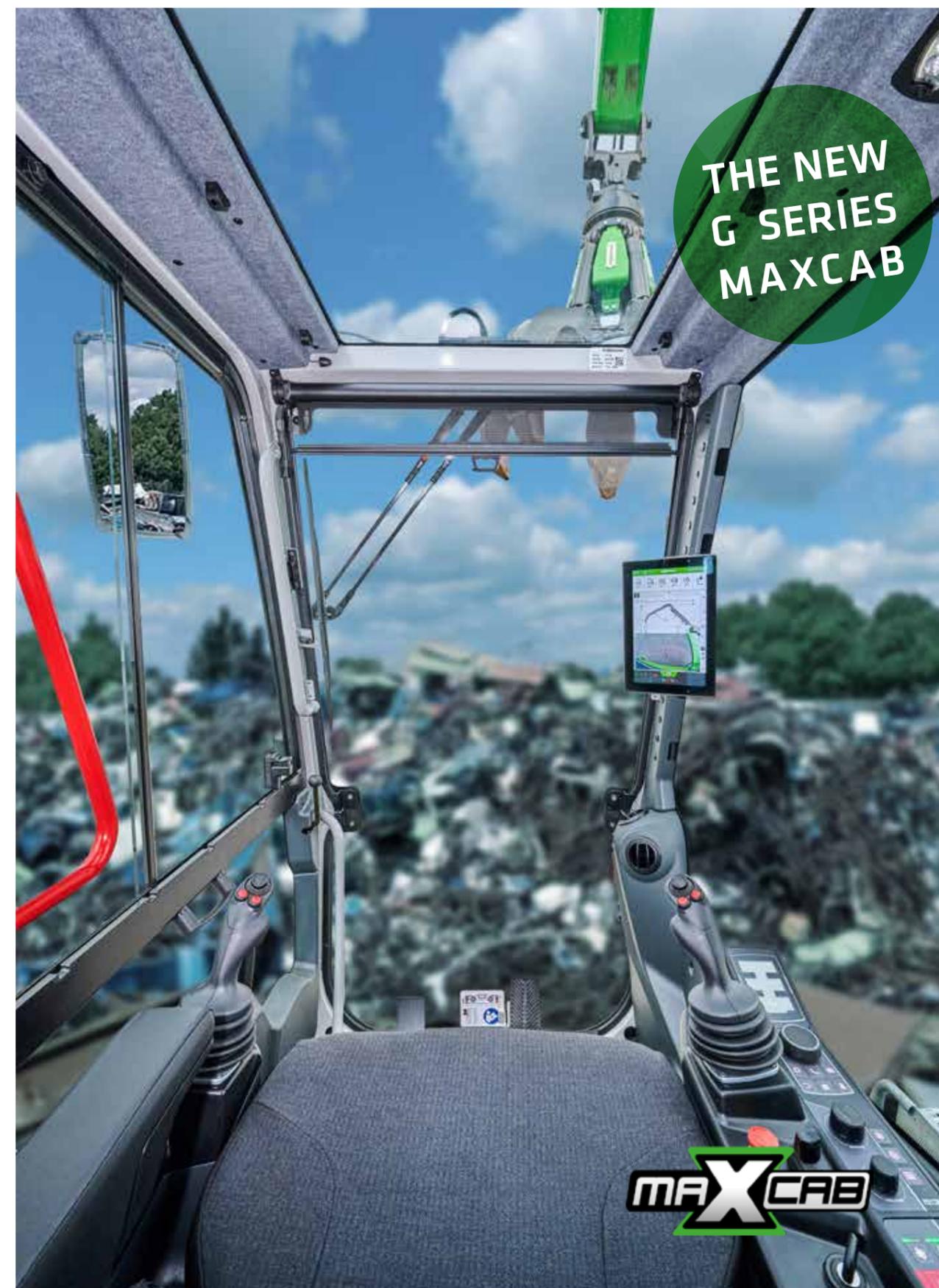
The heart of the new Maxcab is the 10-inch touch display, which gives you quick access to all important functions. In addition, buttons and switches for the most important settings ensure intuitive and efficient operation. The battery is automatically disconnected from electrical consumers when the machine is switched off.

## Individual operator profiles

The Maxcab enables personalized settings for every operator. Simply get in, load the saved profile - and get going straight away.

## 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.



THE NEW  
G SERIES  
MAXCAB

MAXCAB

# SENcon The machine control of the future.

The modern SENcon control system offers comprehensive comfort for operators, fleet managers and service personnel.

Assistance systems increase work safety, make work processes more efficient and remote diagnostics quick and easy. Through the analysis of machine data, you can optimize the operation and reduce the CO<sub>2</sub> footprint of the machine.

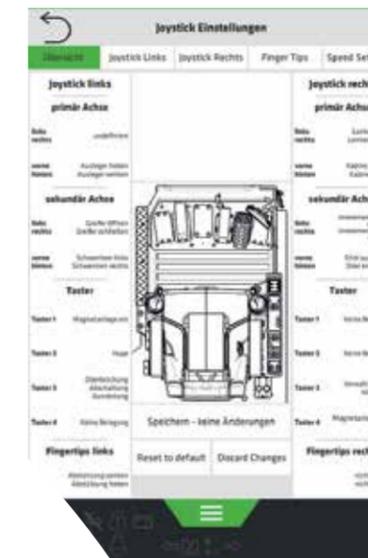
## 1. Driver comfort of tomorrow thanks to modern assistance systems

- Quickly setup & access to comprehensive driver profiles
- Integrated safety systems (e.g. work area limitation)
- Safe machine movements thanks to semi-autonomous movements
- Preparation for remote control and fully automated operation movements



## 2. Effective remote service reduces costs and saves time

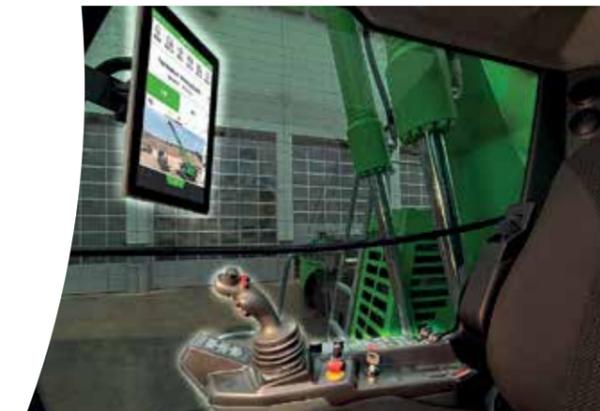
- Extract and analyze machine data from any location
- State-of-the-art diagnostic tool for effective remote diagnostics
- Guarantee of the best possible machine availability and operating safety



Quick access to all important functions via the touch display

## 3. Always up to date: Software updates over-the-air (SOTA)

- Efficient installation of new functions of the machine control system remotely without physical intervention in the machine
- Continuous work with the latest technology
- The machine remains maximally available and flexible in use



## 4. Intelligent analysis of machine data

- In combination with the telematic system SENtrack the machine data from SENcon becomes valuable information about work processes and the condition of the machine
- Integrated functions such as the excavator scales ensure view of the current achieved handling performance
- Optimization of machines in use: simple and effective

# CAB HIGHLIGHTS



IN SERIES	<b>MAX CAB</b>	Maxcab	Maxcab Industry
ENTRANCE		Sliding door incl. sliding window	Sliding door incl. sliding window
WINDSHIELD		Optimal field of vision	Undivided windshield made from bullet-proof glass, rigidly glazed
RIGHT SIDE WINDOW PANE		Laminated safety glass	Laminated safety glass
SKYLIGHT		Bulletproof skylight	Bulletproof skylight
PLATFORM		Platform with railing for safe access	Platform with railing for safe access
WIPERS		-	Wipers for skylight
		Wiper and washer system for front windshield	Wiper and washer system for front windshield
AIR CONDITIONER		Automatic climate control with fresh air and recirculating air filter	Automatic climate control with fresh air and recirculating air filter
FLOODLIGHTS		Powerful LEDs, integrated in the roof	Powerful LEDs, integrated in the roof
DAB-ENABLED RADIO		✓	✓
SENCON CONTROL AND DIAGNOSTIC SYSTEM		✓	✓
<b>OPTIONS</b>			
SKYLIGHT		Wipers for skylight	-
RADIO		DAB, with Bluetooth®-function, hands-free system	DAB, with Bluetooth®-function, hands-free system
AIR-CONDITIONED SEAT		✓	✓
PROTECTIVE VENTILATION SYSTEM		✓	✓
COOLING BOX BEHIND THE OPERATOR'S SEAT		✓	✓
PROTECTIVE GRILLE ON SKYLIGHT AND WINDSHIELD		✓	✓
SUN PROTECTION PACKAGE		✓	✓

# ALWAYS THE RIGHT VIEWING ANGLE

With the new **cab elevation**, the operator not only receives a great increase in viewing height for maximum safety and overview: Thanks to the extremely **robust design**, it also guarantees quiet and fatigue-free operation even during fast movements.



optional (G350)  
**6.8 m**

Viewing height (G280)  
**6.1 m**

G SERIES  
STANDARD  
EQUIPMENT

# PROFESSIONAL FLEET MANAGEMENT

**SENtrack**  
TELEMATIC SYSTEM

## 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, the user is informed immediately.

## 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.

## 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.

„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. With the G series, you get the benefits of the monitoring tool as standard!”



## MAINTENANCE AND SERVICE.

KEEP IT SIMPLE. WITH MANAGEABLE TECHNOLOGY.



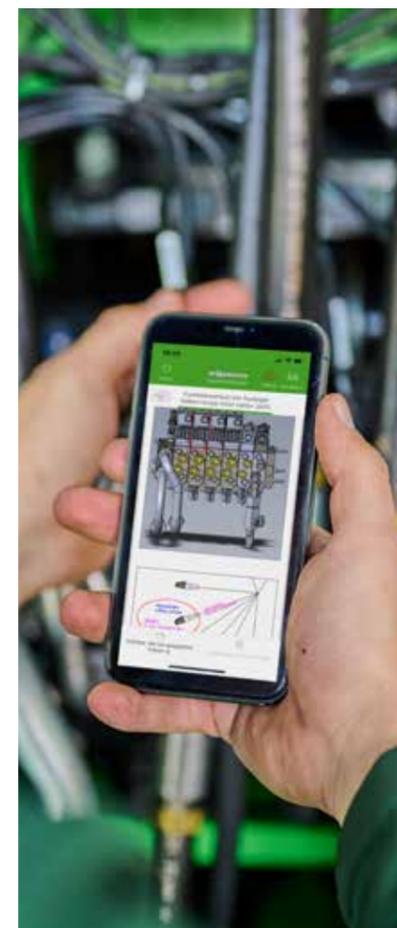
Reliable and practical technology makes life easier. We rely on hydraulics, electrics and electronics where they are most useful.



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



The central electrical distributors and electronic modules facilitate maintenance, service and, if necessary troubleshooting.



The SENNEBOGEN Troubleshooter is a guided troubleshooting tool for the fastest possible solution in the case of service.



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) 850 G Hybrid

### DIESEL ENGINE

TYPE	<b>Stage V:</b> Cummins L9 Rated power: 231 kW/2100 rpm Operating point standard: 240 kW/1725 rpm Operating point ECO: 232 kW/1500 rpm Automatic idle/stop
COOLING	water-cooled, charge air cooling, coolant cooling
DISPLACEMENT	9 l
NUMBER OF CYLINDERS	6
BATTERIES	2 x 150 Ah
ELECTRICAL SYSTEM	24 V
OPTIONS	Engine block heater Electric fuel pump Cyclone pre-separator for use with high-dust loads

### TANK CAPACITIES

FUEL	600 l
AD BLUE	75 l
HYDRAULIC TANK	420 l
HYDRAULIC OIL	SENlube HYDRO D46
COOLANT	approx. 50 l
ENGINE OIL	approx. 23 l Shell Rimula R5 LE 10W-30
CENTRAL LUBRICATION SYSTEM	Automatic central lubrication for equipment and slewing ring, display of fault and empty message via SENcon

### UPPERCARRIAGE

DESIGN	Torsion-resistant box design, precision crafted, steel bushings for boom mounting, engine installed in the longitudinal direction
COOLING SYSTEM	Cooling system with 3 cooling circuits and demand-based fan control, consisting of charge air cooling, coolant cooling and hydraulic oil cooling, hydraulically driven, thermostatically controlled incl. fan reversal
OPTIONS	LED lighting package Fire extinguisher Low temperature packages Electrical hydraulic tank preheating Magnet generator 15/20 kW Additional ballast 2.0 t Comprehensive uppercarriage railings Warning beacons and alarm horns Compressor for cleaning the machine



## TECHNICAL DATA, EQUIPMENT

### HYDRAULIC SYSTEM

Load-sensing / LUDV hydraulic system, multi-circuit hydraulics	
DELIVERY RATE	770 l/min
OPERATING PRESSURE	up to 350 bar
LOAD LIMIT CONTROL	Optimized load limit control; in order to use the best possible operating point of the diesel engine at all times, even under full load
CONTROL SYSTEM	Proportional, precision electrical control of work movements, 2 electric joysticks for work functions, additional functions via switches and foot pedals
SAFETY	Pipe-fracture safety valve for stick and compact boom
OPTIONS	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) with water separator Bio-oil filling Supplementary hydraulic circuit for hydraulic packages Hydraulic oil SENlube HYDRO POLAR for up to -30°C surrounding temperature

### SLEWING DRIVE

GEARBOX	Compact planetary gear with bent-axis hydraulic engine, integrated brake valves
PARKING BRAKE	Spring-loaded, hydraulically ventilated multi-disk safety brake
SLEWING RING	Externally toothed, with pinion lubrication
SLEWING SPEED	0-6.5 rpm, variable
TORQUE	165 kNm

### CAB<sup>2</sup>



CAB TYPE	Maxcab, 2.8 m elevation
CAB FEATURES	Sliding door incl. sliding window, vibration-damped, tinted safety glass, safety glass side window, skylight, windscreen wiper, sunblind for front and roof windows, integrated microphone for hands-free system, air-suspended comfort seat, automatic climate control with fresh air and recirculated air filter, joystick steering (mobile version), SENcon control, emergency OFF
OPTIONS	Maxcab Industry, continuous bulletproof glass pane Protective roof guard, FOPS if applicable Protective front guard Active carbon filter for outside air Auxiliary heating system Air-conditioned comfort operator's seat Radio (DAB), with Bluetooth® function, hands-free system Multifunctional armrests Protective ventilation system Steering wheel control 30° tiltable cab Sun protection packages



# TECHNICAL DATA, EQUIPMENT

TECHNICAL DATA, EQUIPMENT

## MOBILE UNDERCARRIAGE



MP50 mobile undercarriage with integrated 4-point outrigger, steering axle with automatic pendulum axle, pendulum axle cylinder with pipe fracture safety valve, all-wheel drive powered by adjustable hydraulic motors with directly mounted, automatically acting brake valves, planetary axles with integrated steering cylinders, service brake with 2-circuit system, multi-disc brake as parking brake

TIRE TYPE	8 x 14.00-24
BRAKES	hydraulic
TRAVEL SPEED	0-12 km/h variable
OPTIONS	Tires: 8 x 16.00-25 Protection for the travel drive

## CRAWLER UNDERCARRIAGE



R73/420 crawler undercarriage in stable, torsionally rigid box construction, mechanically telescopic, with hydraulic travel drive on each undercarriage side by means of an axial piston motor via compact planetary gearbox integrated in the undercarriage frame, spring-loaded, hydraulically released multi-disc brake as parking brake

TRAVEL SPEED	Stage 1: 0-1.7 km/h Stage 2: 0-3.5 km/h
OPTIONS	Crawler gantry PR70/585 Special undercarriage R70/490 for up to 3 m pylon

## EQUIPMENT



CYLINDERS	Hydraulic cylinders with high-quality sealing and guide elements, end position damping, sealed mounting points
RANGE	up to 21 m
ASSISTANCE SYSTEMS	Adjustable height and radius limitation
OPTIONS	LED lighting Stick mounted camera Equipment type "Banana" for greater reach depth Boom damping

## OPERATING WEIGHT



MASS	<b>Mobile</b> <b>62 t</b> with MP50 and K17 incl. attachment <b>Crawler</b> <b>68.5 t</b> with R73/420 and K17 incl. attachment
NOTE	Operating weight varies by model and equipment.

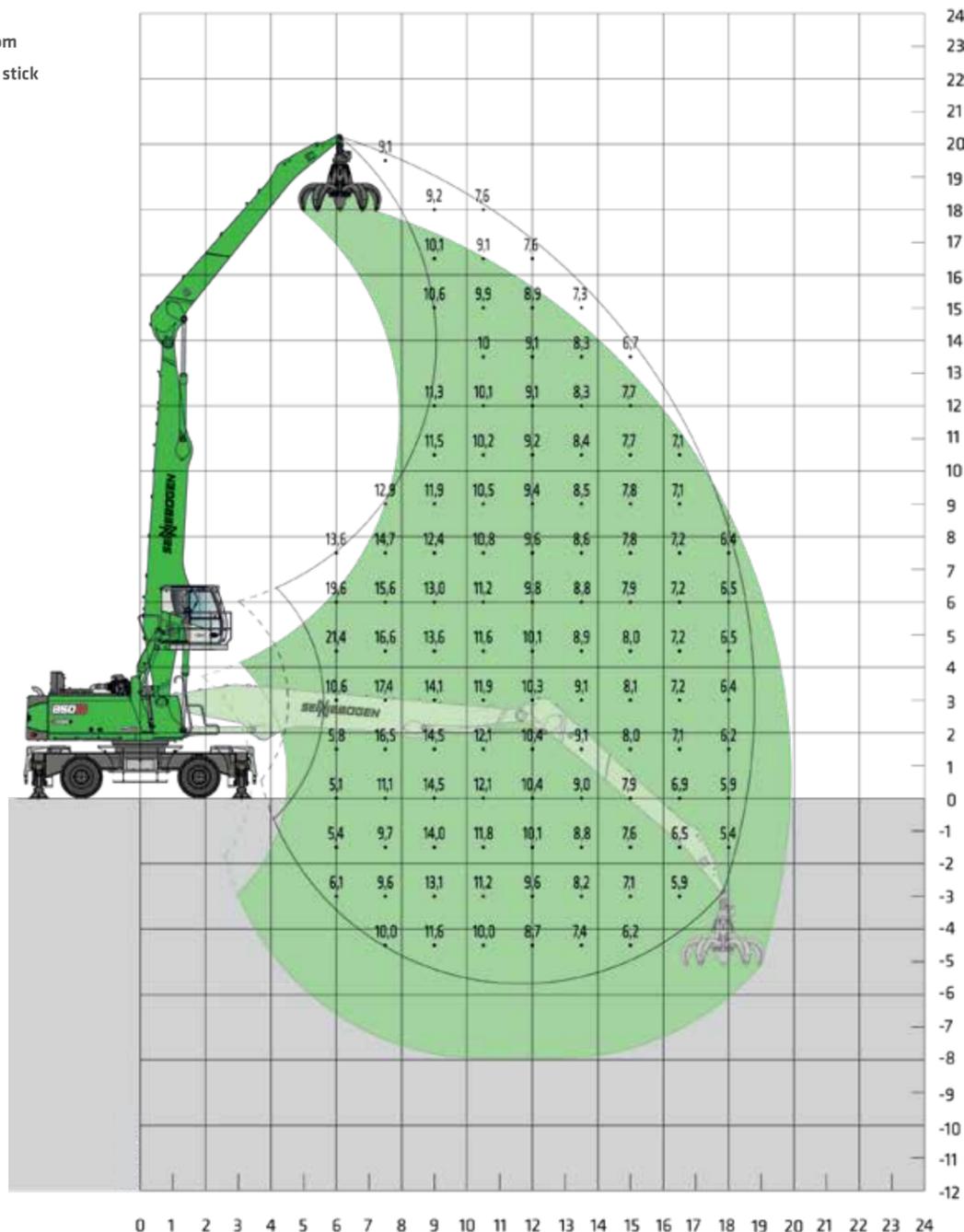
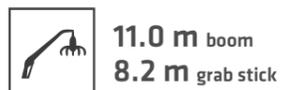


Option: quick coupler



Option: LED lighting on the stick (both sides)

# LOAD RATINGS K19 (MOBILE)

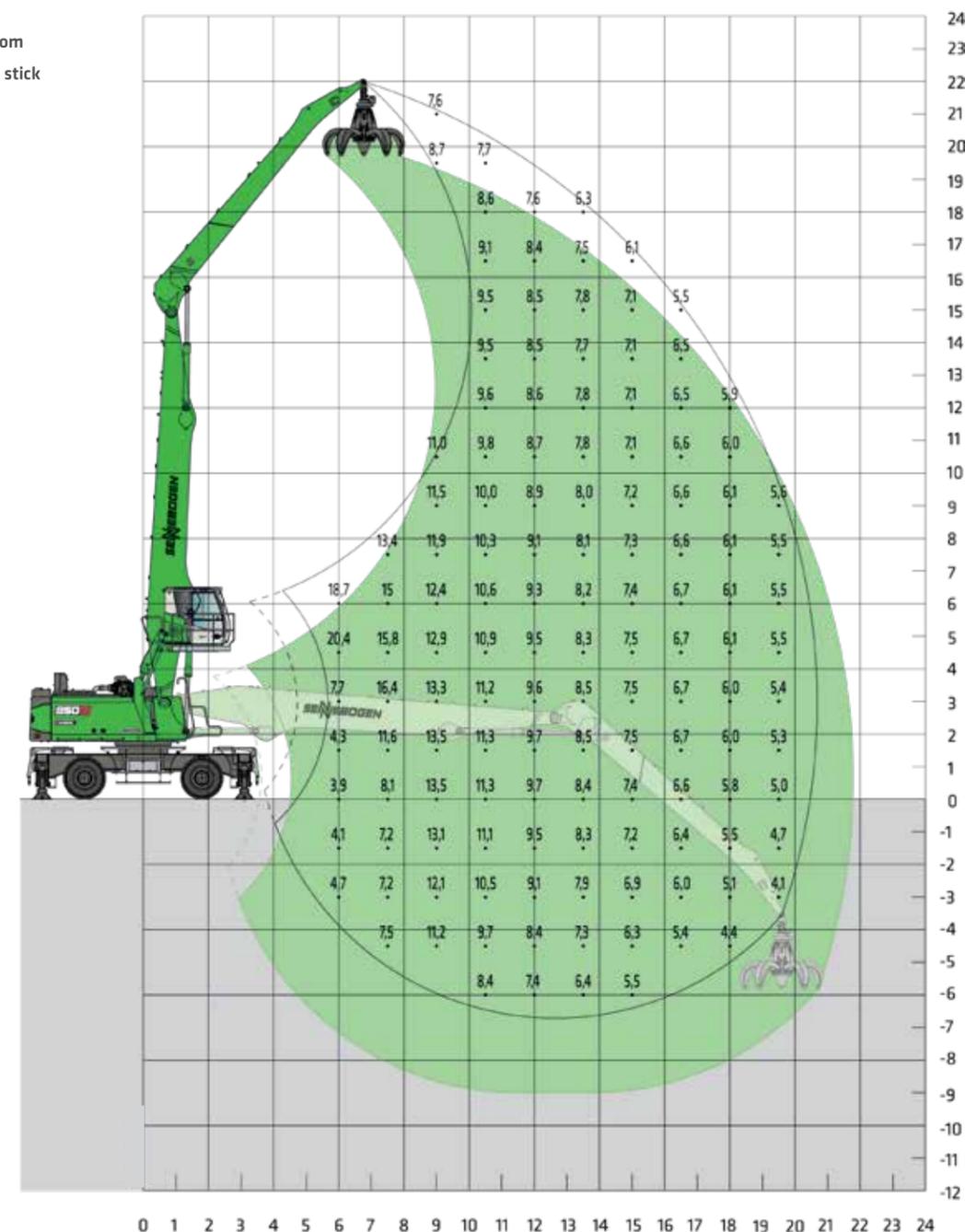


Machine shown in mirror image

20241023100918

**Notes:**  
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 ISO10567 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. Load ratings apply to a machine with 4-point outrigger and for 360° slewing.

# LOAD RATINGS K21 (MOBILE)



Machine shown in mirror image

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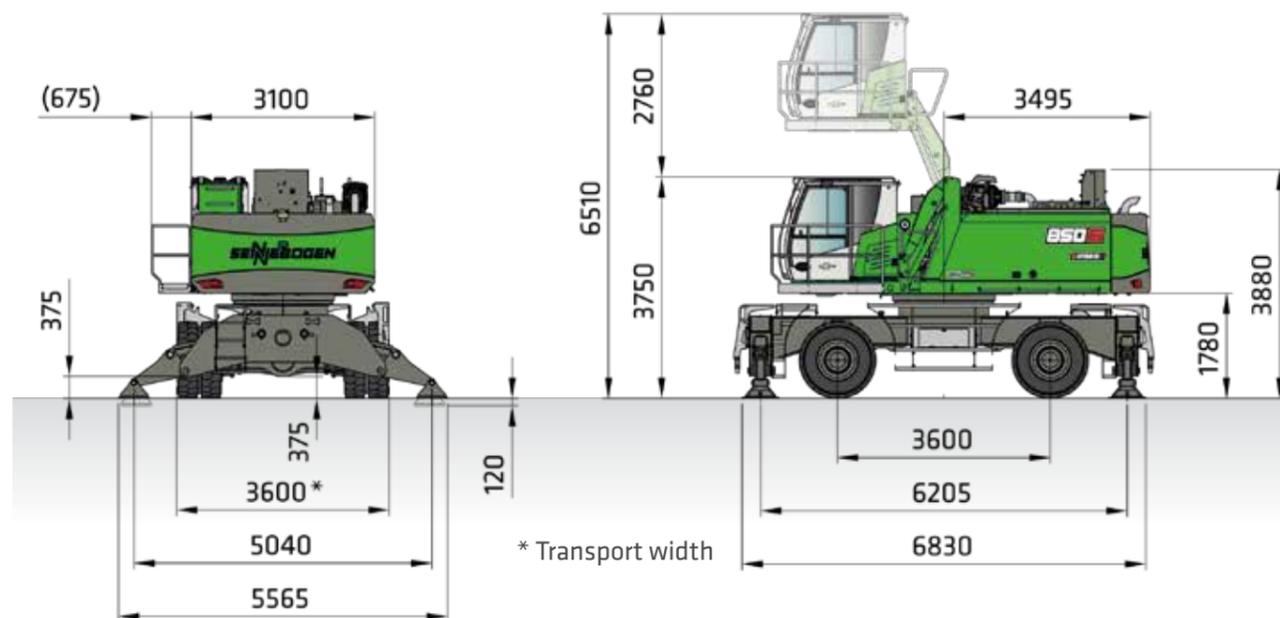
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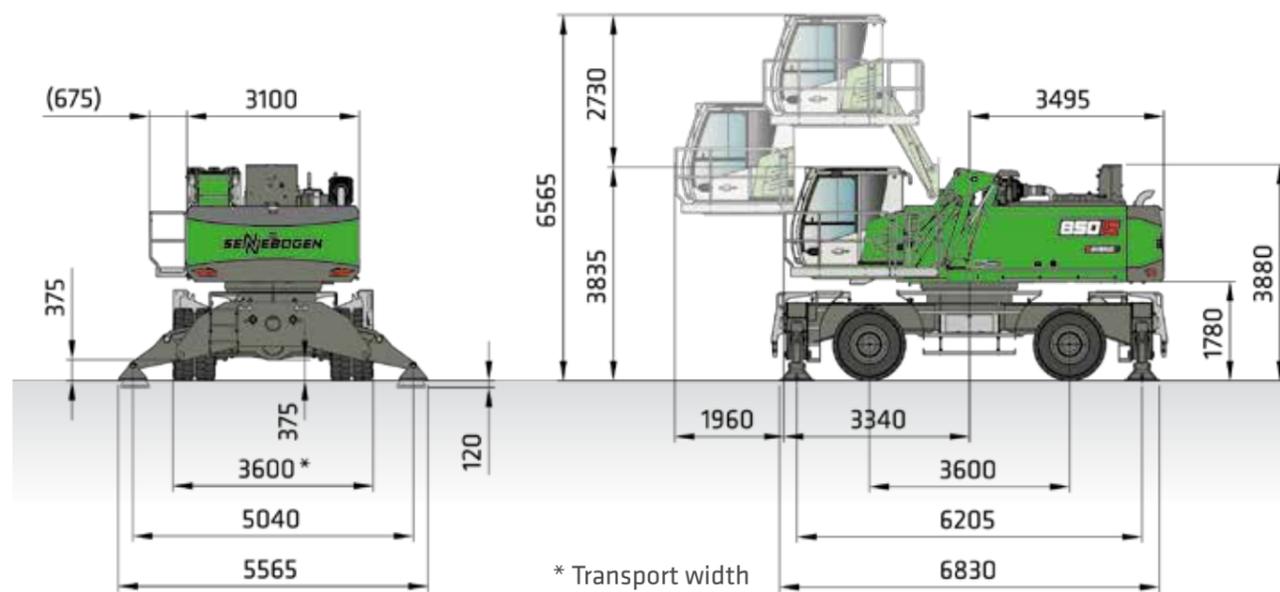




## DIMENSIONS MOBILE

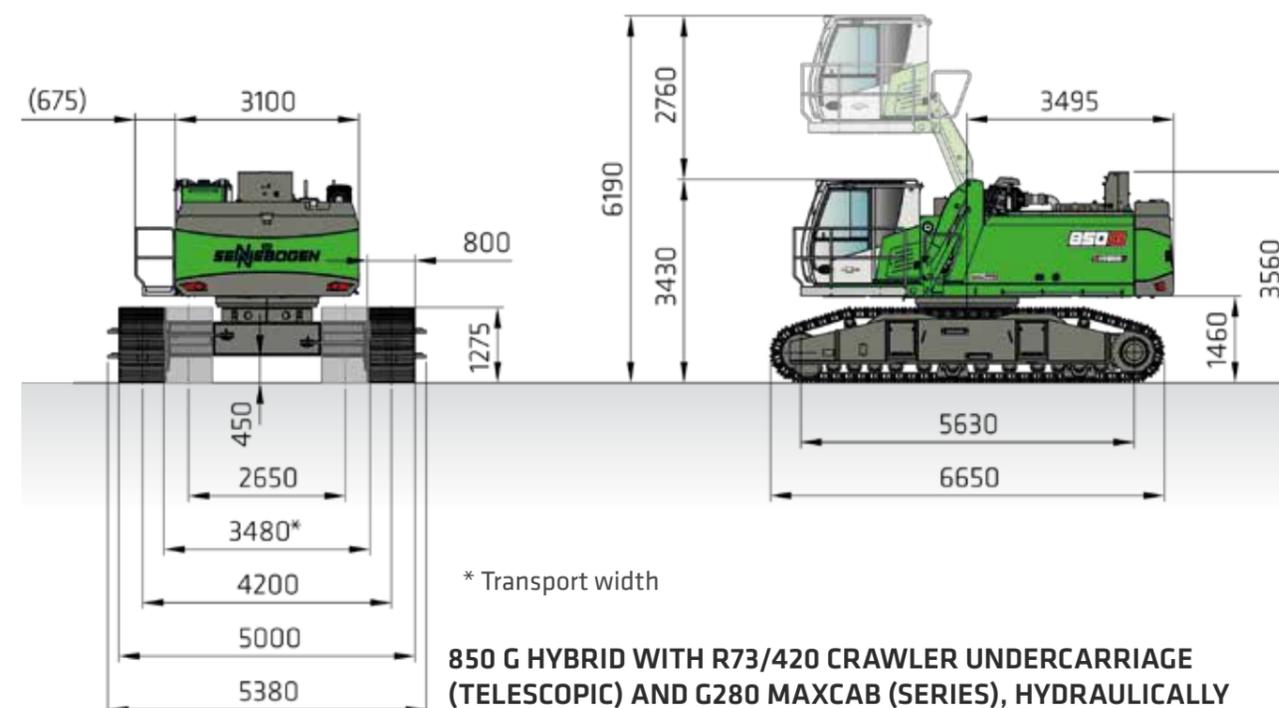


850 G HYBRID WITH MP50 UNDERCARRIAGE AND G280 MAXCAB (SERIES), HYDRAULICALLY ELEVATING, SOLID RUBBER TIRES 14.00-24 (8-PLY)

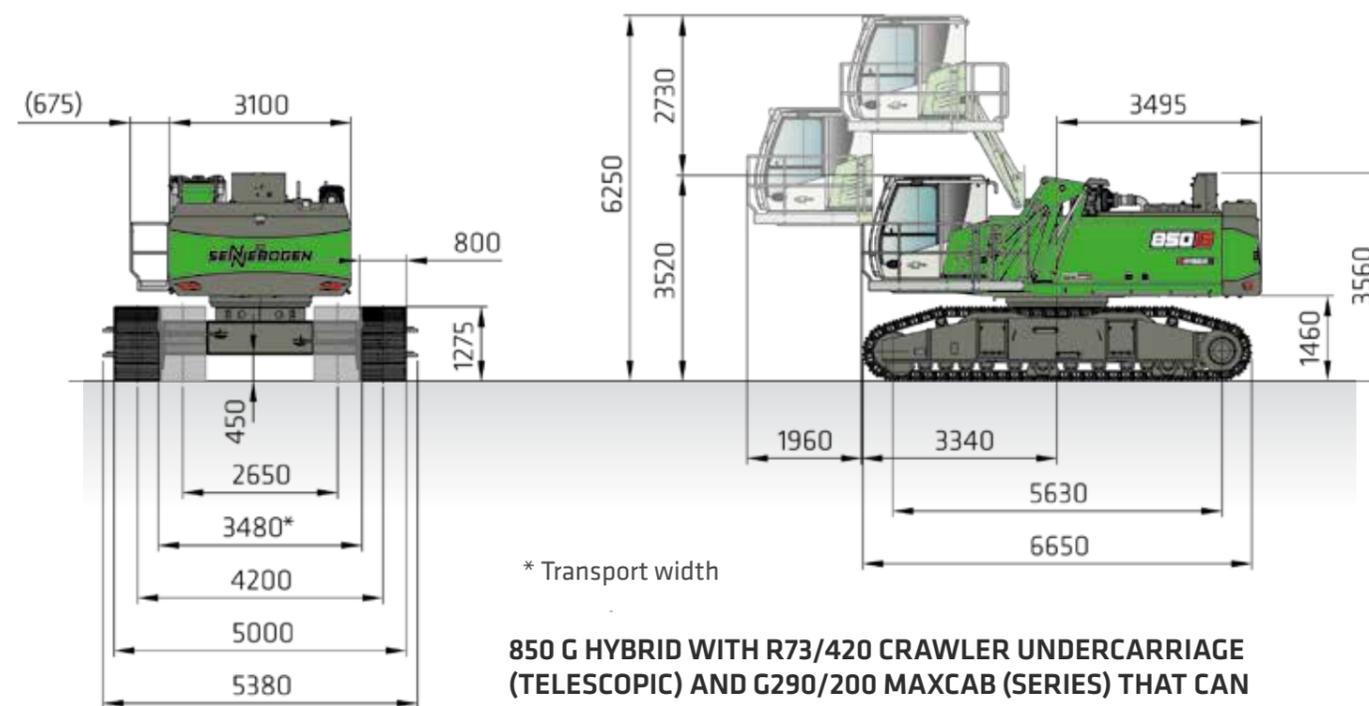


850 G HYBRID WITH MP50 UNDERCARRIAGE AND G290/200 MAXCAB THAT CAN BE ELEVATED AND MOVED FORWARD HYDRAULICALLY, SOLID RUBBER TIRES 14.00-24 (8-PLY)

## DIMENSIONS CRAWLER

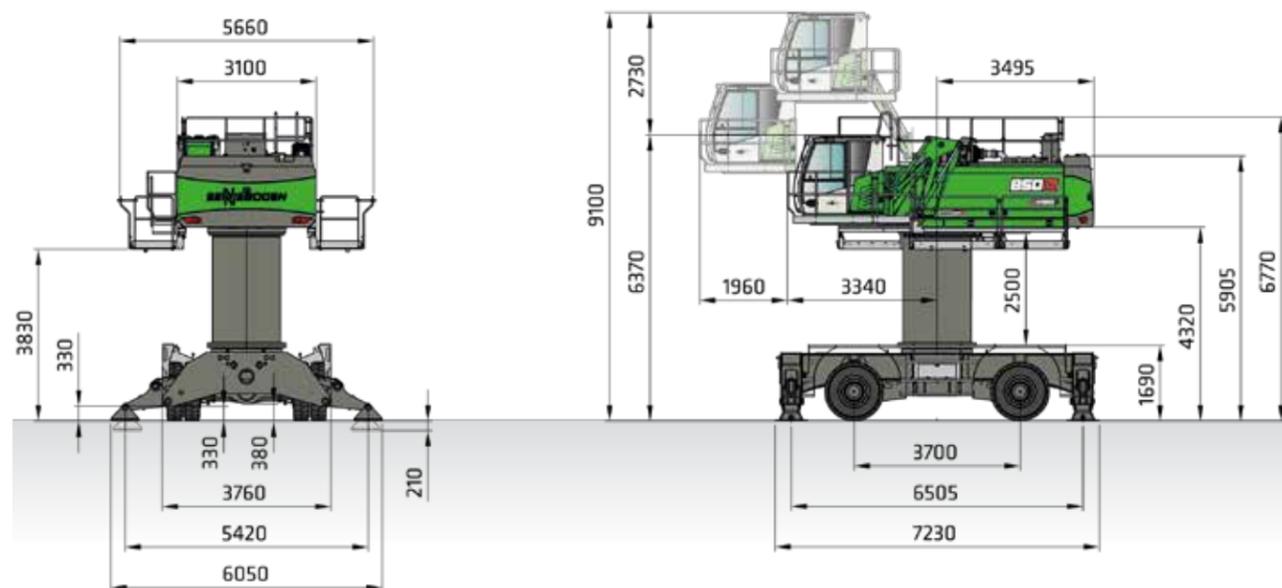


850 G HYBRID WITH R73/420 CRAWLER UNDERCARRIAGE (TELESCOPIC) AND G280 MAXCAB (SERIES), HYDRAULICALLY ELEVATING



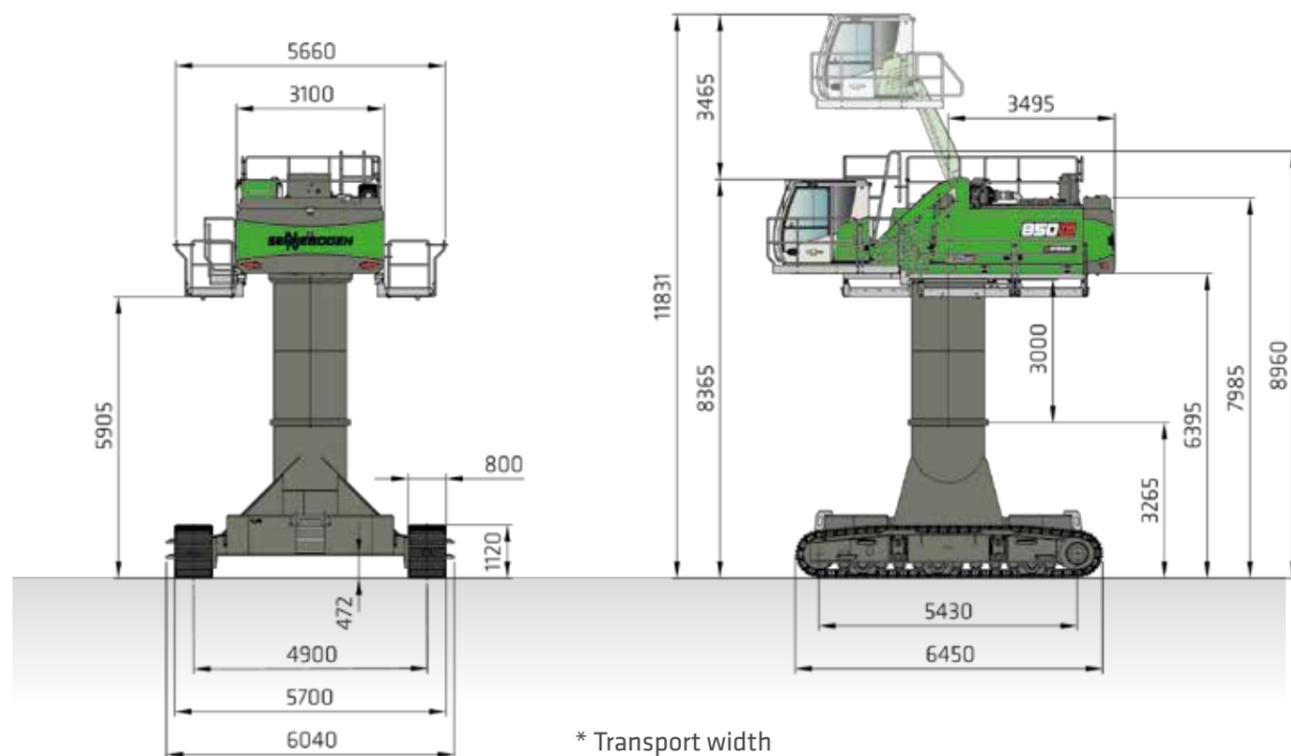
850 G HYBRID WITH R73/420 CRAWLER UNDERCARRIAGE (TELESCOPIC) AND G290/200 MAXCAB (SERIES) THAT CAN BE ELEVATED AND MOVED FORWARD HYDRAULICALLY

# DIMENSIONS SPECIAL



(Transportation of upper and undercarriage separately)

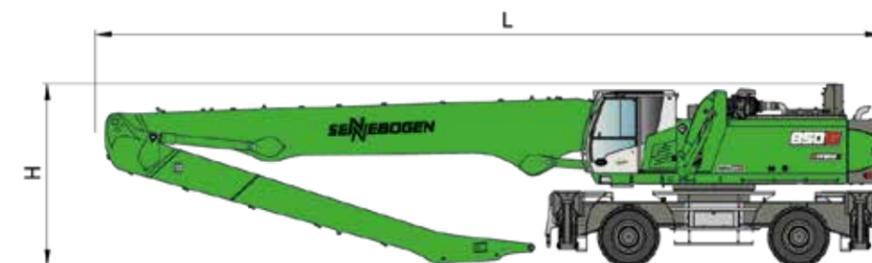
850 G HYBRID WITH MP71 UNDERCARRIAGE AND G290/200 MAXCAB THAT CAN BE ELEVATED AND MOVED FORWARD HYDRAULICALLY AND 2.5 M PYLON, SOLID RUBBER TIRES 14.00-24 (8-PLY)



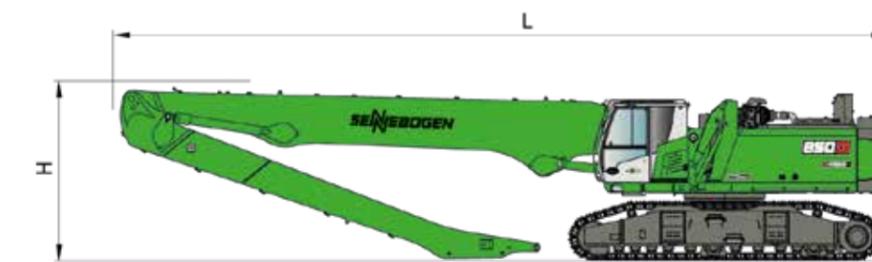
\* Transport width

850 G WITH R70/490 CRAWLER UNDERCARRIAGE AND G350 MAXCAB, HYDRAULICALLY ELEVATING AND 3 M PYLON

# TRANSPORT DIMENSIONS MOBILE/CRAWLER



850 G TRANSPORT DIMENSIONS MP50				
	COMPACT BOOM	GRAB STICK	TRANSPORT LENGTH (L)	TRANSPORT HEIGHT (H)
K17	10.0 m	7.2 m	14.7 m	3.85 m
K19	11.0 m	8.2 m	15.8 m	3.85 m
K21	12.0 m	9.2 m	16.6 m	3.85 m
B19	12.2 m Banana	8.2 m	16.8 m	3.85 m
B20	12.2 m Banana	9.2 m	16.8 m	3.85 m



850 G TRANSPORT DIMENSIONS R73/420				
	COMPACT BOOM	GRAB STICK	TRANSPORT LENGTH (L)	TRANSPORT HEIGHT (H)
K17	10.0 m	7.2 m	14.7 m	3.60 m
K19	11.0 m	8.2 m	15.8 m	3.60 m
K21	12.0 m	9.2 m	16.6 m	3.85 m
B19	12.2 m Banana	8.2 m	16.8 m	3.70 m
B20	12.2 m Banana	9.2 m	16.8 m	3.70 m



### SENNEBOGEN ACADEMY

Increase your knowledge because success is based on knowledge. In the SENNEBOGEN Academy we place great importance on ensuring it flows powerfully.

➔ [www.sennebogen-academy.com](http://www.sennebogen-academy.com)



### SERVICE AND MAINTENANCE

Comprehensive customer service. And supply of spare parts. Service is a TOP priority for us.

➔ [www.sennebogen.com/customer-service](http://www.sennebogen.com/customer-service)



### SENtrack

Efficient fleet management with SENtrack: Use information that would otherwise stay hidden and increase your efficiency.

➔ [www.sennebogen.com/sentrack](http://www.sennebogen.com/sentrack)



### RENTAL & USED

Discover the unique range of rental machines available from SENNEBOGEN Rental & Used. Find your rental machine here:

➔ [www.sennebogen-rental-used.com](http://www.sennebogen-rental-used.com)

### JOIN OUR OPERATORS' CLUB

The spotlight is on you and your machine! We focus on exclusive information, sharing experiences with other SENNEBOGEN operators as well as fun and enthusiasm.

All benefits here ➔ [www.sennebogen.com/operators-club](http://www.sennebogen.com/operators-club)



# MOVE BIG THINGS WITH US



over **73**  
years of experience

**100%**  
family company

over **2200**  
experienced specialists  
worldwide

**5**  
production plants in  
Germany

over **180**  
180 sales and service  
partners worldwide

**27**  
different  
material handlers



Telehandler  
4.0-6.0 t

Balancer  
130-300 t

Material handler  
17-420 t

Duty cycle crane  
30-300 t

Crawler crane  
50-200 t

Telescopic crane  
16-200 t

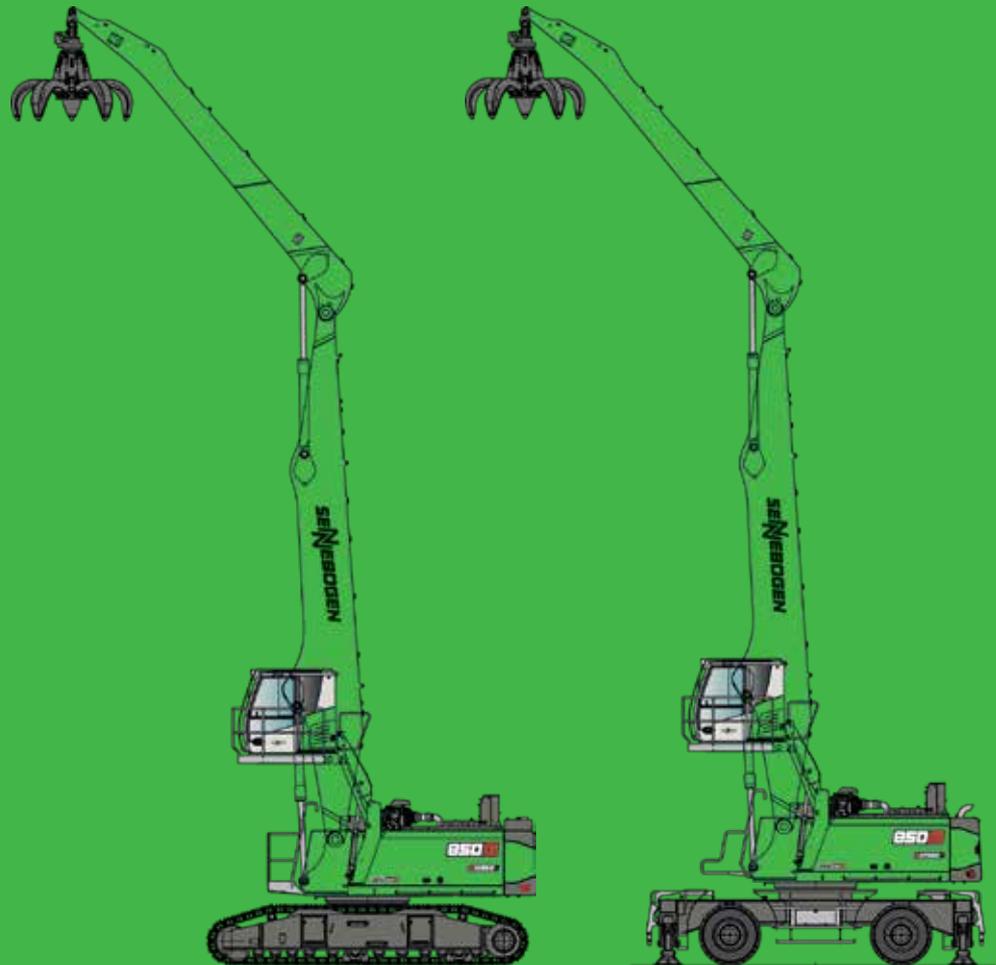
Port crane  
300 t

# 850 G | Hybrid

Bestell-Nr. 441834  
850-G-032503

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