

SENEBOGEN

PRELIMINARY

PORT MATERIAL HANDLER

WITH A REACH
OF UP TO 32 m

875G

► HYBRID



 391 kW
 390 kW

 up to 195 t

 32 m

 MAX CAB
 PORT CAB

 SENcon

Stage V

875G

► HYBRID

The Universal.

A smart approach to port logistics – the universal material handler with an operating weight of up to 195 t is right at home in the ports of this world. Numerous configuration options and customer-specific undercarriage solutions make it the ideal machine for industrial applications and demanding material handling tasks in ports.

SENcon 

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

A-long term investment

The G-series is characterised by robust components, and an intelligent and resource-efficient 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 - whether with diesel drive or as an electric version.

Maximum comfort

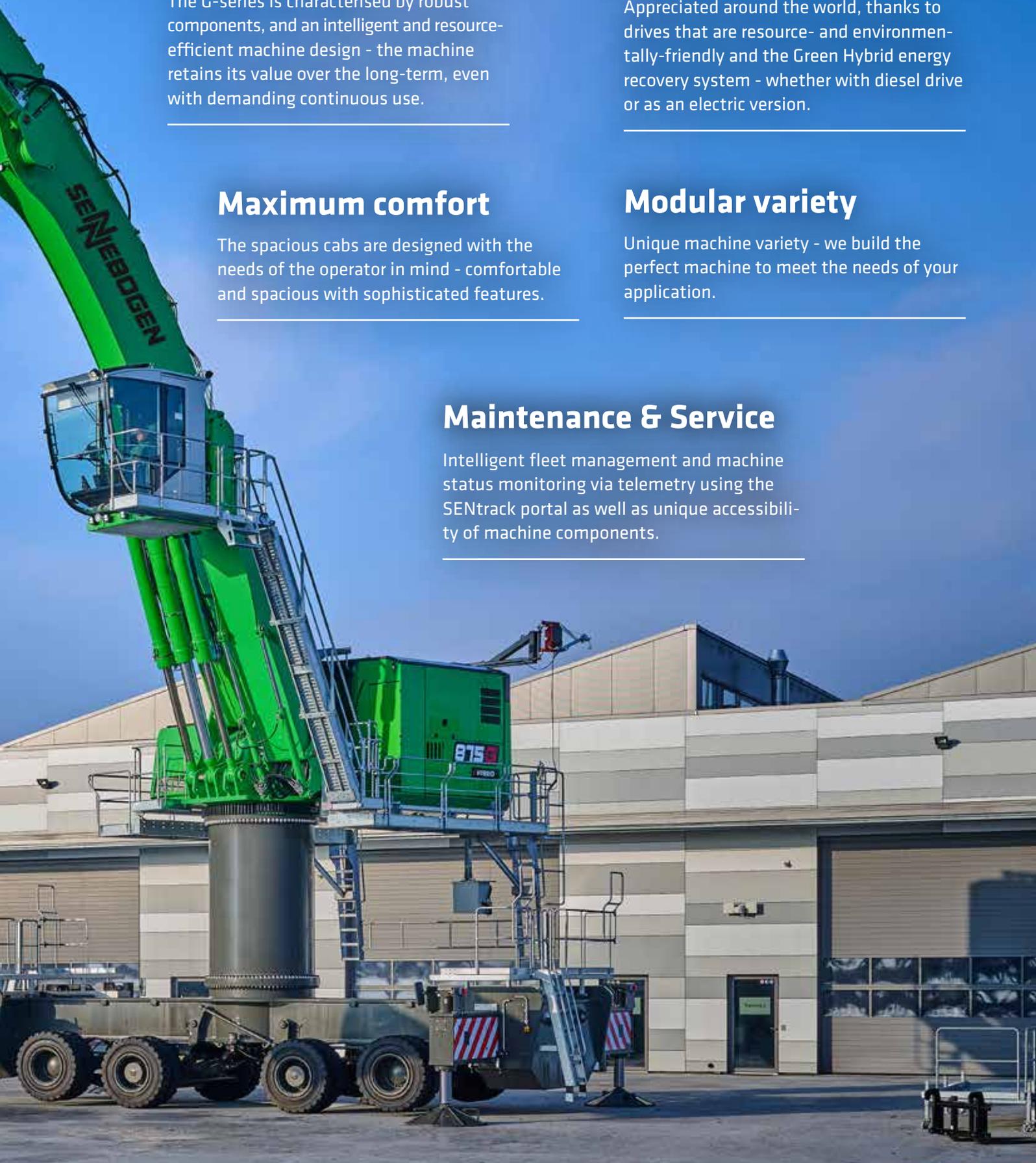
The spacious cabs are designed with the needs of the operator in mind - comfortable and spacious with sophisticated features.

Modular variety

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

Maintenance & Service

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



LATEST GENERATION MATERIAL HANDLING TECHNOLOGY

The **G**-Series.



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



High handling capacity of up to 1,200 t per hour* reduces the berthing time of ships



Sophisticated technology thanks to the consistent further development up to the 6th generation of the G-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 in extreme heat

AN INVESTMENT THAT PAYS OFF:

The durability and reliability of the SENNEBOGEN Material handling machines is based on decades of experience in the design of high-quality crane and material handling technology. We can find the perfect solution for every port application, ensuring you can handle general cargo and bulk materials in an efficient and resource-saving way.



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



SIMPLE TO MAINTAIN & SERVICE

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

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



Save up to
50 %
energy

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



1
Boom lowers, gas compresses



Energy storage module consisting of hydraulic cylinder and nitrogen accumulator



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

SENNEBOGEN GreenHybrid

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 is optimally adjusted to the individual machine configuration



**GREEN HYBRID –
THE MOST SOPHISTI-
CATED ENERGY
RECOVERY
TECHNOLOGY
ON THE MARKET**

EXPERIENCE VARIETY FOR EVERY TYPE OF MATERIAL

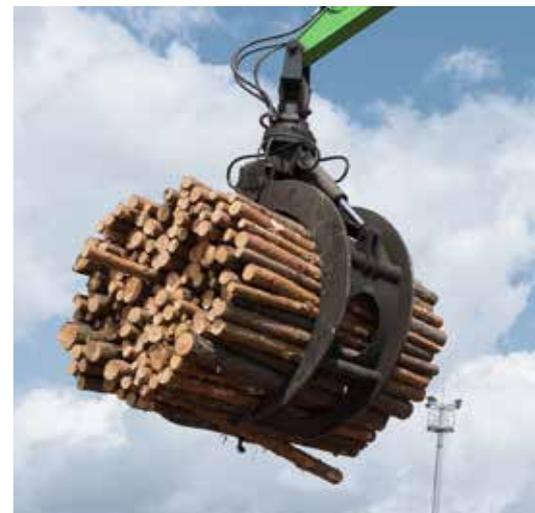
Today general cargo, tomorrow bulk cargo - working in the port means staying flexible from day to day. The entire range of material handling technology can be flexibly operated using the quick change system on the stick and the SENNEBOGEN port machines' powerful hydraulics.



Bulk material (feed, coal, etc.)



Scrap handling



Timber grab



Big Bag loading



Paper coil grab



Timber spreader / wooden pallet loading



Quick change system with lifting beam



Pulp spreader



Spreader for steel coils

QUICK AND EASY GRAB CHANGE

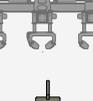


Watch the video to see how quick and easy it is to change the grab with the quick change system on the stick!

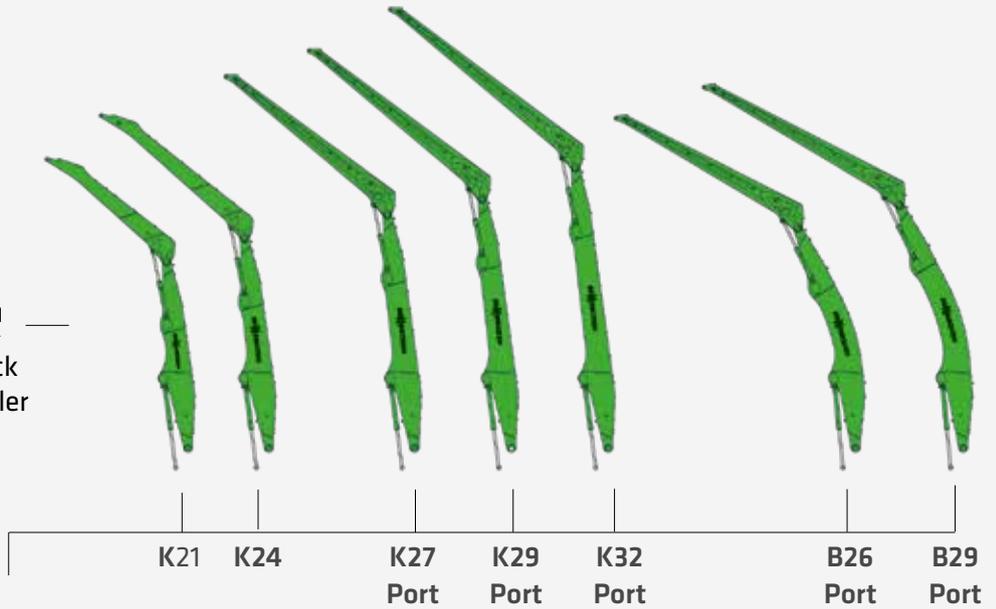
<https://www.sennebogen.com/quick-coupler>

A MODULAR DESIGN. NUMEROUS APPLICATIONS.

EQUIPMENT

-  Orange peel grab
-  Clamshell grab
-  Timber grab
-  Cargo grab
-  Coil-tong

 Quick coupler



K = Compact boom

B = Banana boom for greater reach depth

Port equipment for longer reach and/or more load capacity

CAB

-  Maxcab
-  Maxcab Industry
-  Portcab

CAB ELEVATION



Diesel-hydraulic drive



Electro-hydraulic drive

OPTIONEN



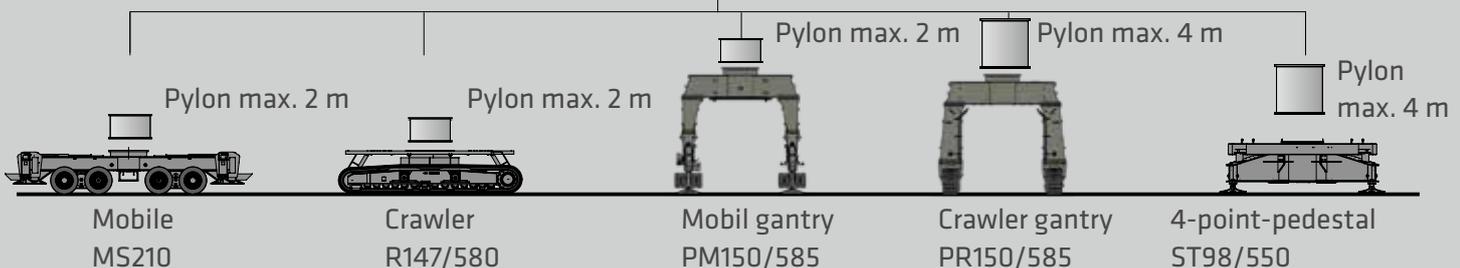
Motorized cable reel



Transformer

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



MORE SAFETY MAXIMUM COMFORT.

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.

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 back-friendly comfort seat, adjustable armrests, joysticks that sit comfortably in the hand, and the optimally arranged controls make daily work as easy as possible.

Pleasant indoor climate

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

„The development of the machine is based on user feedback in order to create the best operating experience.“

ALI GÜLYAZ,
Designer Material handling machines





PORTCAB

CLICK HERE FOR THE 360° VIEW OF THE PORTCAB



Convince yourself in 360 degrees of the unique comfort, the maximum safety and the many customisation options of the Portcab.

➔ <https://www.sennebogen.com/technik/portcab#c32076>

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 CO₂ footprint of the machine.

1. Driver comfort of tomorrow thanks to modern assistance systems

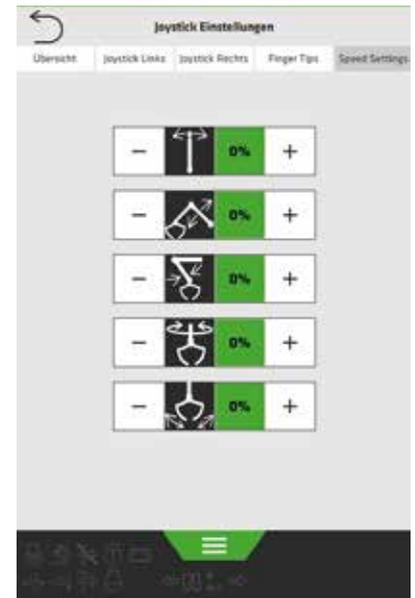
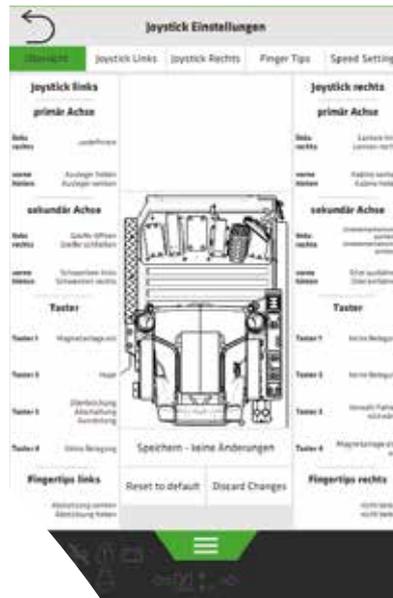
- /// Quickly setup & access to comprehensive driver profiles
- /// Integrated safety systems (e.g. work area limitation)
- /// Safe machine movements thanks to semi-autonomous movements
- /// Preparation for remote control and fully automated operation movements



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





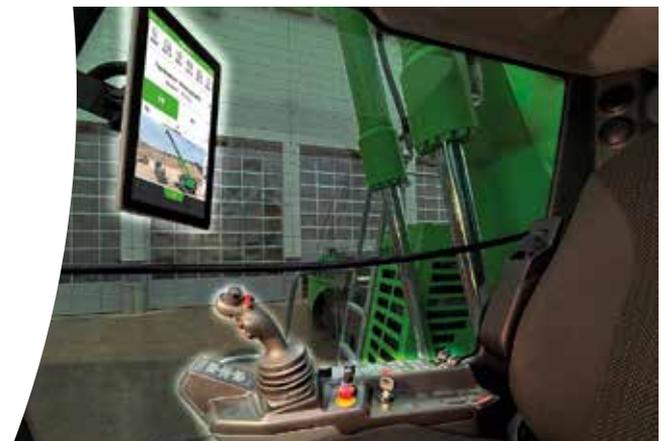
Quick access to all important functions via the large 10-inch touch display

Software updates

Machine data

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



Maxcab

Maxcab Industry

IN SERIES



ENTRANCE

Sliding door incl. sliding window

Sliding door incl. sliding window

WINDSHIELD

Tinted safety glass

Undivided windshield made from bullet proof glass, rigidly glazed

SKYLIGHT

Sky light made from bullet proof glass

Sky light made from bullet proof glass

FLOOR WINDOW

-

-

WIPERS

Wipers for skylight

Wipers for skylight

Wipers and washer system for front windshield

Wipers and washer system for front windshield

AIR CONDITIONER

Automatic heating/air conditioning with fresh air and recirculating air filter

Automatic heating/air conditioning with fresh air and recirculating air filter

FLOOD LIGHTS

Floodlights integrated into roof

Floodlights integrated into roof

FOLDAWAY SEAT

-

-

RADIO



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





ALWAYS THE RIGHT VIEW

The large capacity cab for the
best all-round view of the port

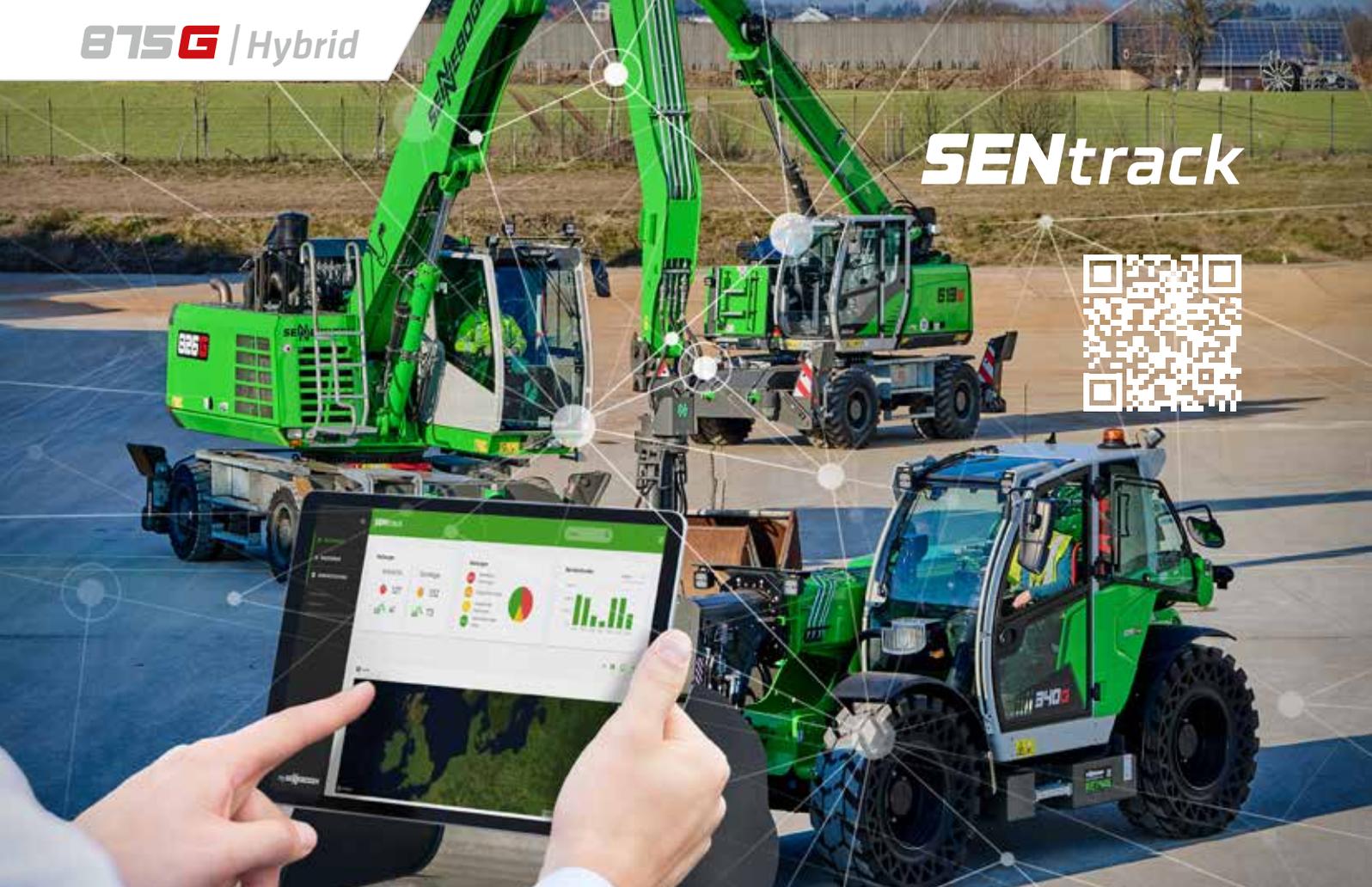
IN SERIES



ENTRANCE	Easy access through wide cab door
OPERATOR' SEAT	Air suspended, with lumbar support, headrest and plenty ergonomic adjustments, heated
ARM AND FOOT RESTS	Easily adjustable, according to the user
CONTINUOUS FRONT-/ FLOOR WINDOW	Large, curved pane made of tinted safety glass, providing optimal visibility of working environment without visual obstructions
WIPERS	Parallelogram wipers for harsh weather conditions on the windshield Wipers for skylight
AIR CONDITIONER	Automatic heating/air conditioning with fresh air and recirculating air filter
LARGE 10,2' MONITOR	Camera-supported monitoring of the danger area (rear, right)
FOLDAWAY SEAT	Additional trainer's seat with seat belt
RADIO	✓
SENCOR CONTROL AND DIAGNOSTIC SYSTEM	✓

OPTIONS

AIR-CONDITIONED SEAT	✓
RADIO	✓
COOLING BOX FOR FOOD AND DRINKS	✓
SPEAKER SYSTEM	✓
SUN PROTECTION PACKAGE	✓



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.

„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!”

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.



MAINTENANCE AND SERVICE.

KEEP IT SIMPLE. WITH MANAGEABLE TECHNOLOGY.



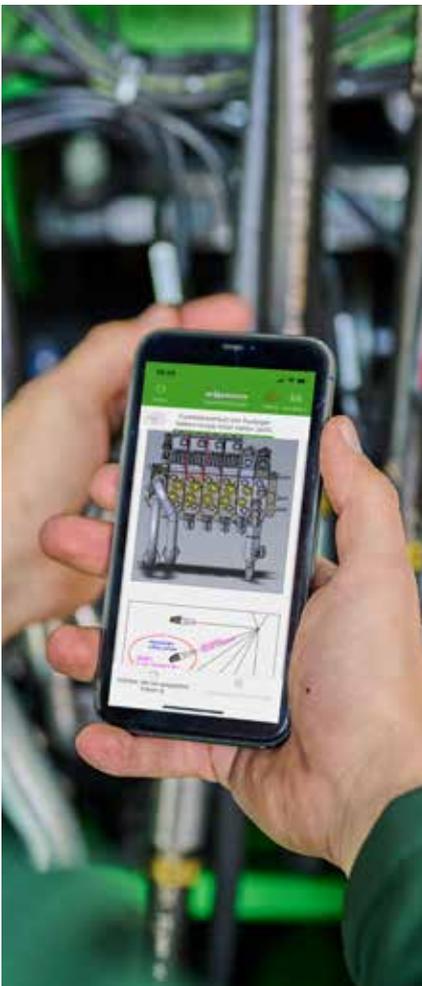
Reliable and practical technology makes life easier. We rely on hydraulics, electrics and electronics where they are most useful.



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) 875 G Hybrid

DIESEL ENGINE

TYPE Stage V:
Cummins X15
Rated power: 391 kW/1800 rpm
Operating point standard: 391 kW/1800 rpm
Operating point ECO: 374 kW/1650 rpm

Stage IIIa:
on request

Automatic idle / stop

COOLING water-cooled, charge air cooling, coolant cooling

DISPLACEMENT ca. 15 l (V) / ca. 15 l (IIIa)

NUMBER OF CYLINDERS 6

BATTERIES 2 x 210 Ah, battery disconnect switch

ELECTRICAL SYSTEM 24 V
Alternator: 160 A (V) / 150 A (IIIa)
Starter: 9 kW (V) / 9 kW (IIIa)

OPTIONS electrically heated fuel pre-filter water separator 24 V (IIIa)

Engine block heater

Engine oil preheating

Electric fuel pump

TANK CAPACITIES

FUEL 2100 l

AD BLUE 105 l

HYDRAULIC TANK 1200 l

COOLANT ca. 110 l

ENGINE OIL ca. 80 l (V) / ca. 68 l (IIIa)

CENTRAL LUBRICATION SYSTEM Automatic central lubrication for equipment and slewing ring, display of fault and empty message via SENcon

Lubrication pump with 16 kg reservoir (for min. 400 operating hours)

UPPERCARRIAGE

DESIGN Torsion-resistant box design, precision crafted, steel bushings for boom mounting. Service-friendly design, engine installed in the longitudinal direction, covered service area

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
 - Maritime climate paint
 - Low temperature packages
 - Electrical hydraulic tank preheating
 - Magnet generator 25/33 kW

ELECTRIC DRIVE

- OPTIONS
- Type:** 390 kW, Standard with frequency converter
 - Power:** Total connected load 720 kVA, machine side fuse 800 A (also with generator) at 400 V - motor start via frequency converter
 - IP protection class:** IP 55 standard, (IP 65 optional)



TECHNICAL DATA, EQUIPMENT

HYDRAULIC SYSTEM

Load-sensing / LUDV hydraulic system*, pre-controlled work functions, Operating modes: Normal Lift, Heavy Lift, Precision Mode

DELIVERY RATE 2x 417 l / min and 1x 460 l / min for slewing drive in the closed circuit

OPERATING PRESSURE up to 350 bar

CONTROL SYSTEM Electrohydraulic actuation of work movements, additional functions via switches and foot pedals

SAFETY Emergency lowering of the equipment in the case of engine standstill

Pipe-fracture safety valves for lift and stick cylinders

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
- High-performance filtration with longterm change interval, SENNEBOGEN HydroClean micro-filter system with water separator

CAB²



CAB TYPE Maxcab Industry, can be elevated by 2.9 m and moved forward by 2 m

CAB FEATURES Maxcab Industry with sliding door incl. sliding window and undivided, flat windshield made from bullet proof glass, rigidly glazed, roof extended forward, bullet proof skylight, wipers, and wash system for windshield, lower windshield wiper with washer nozzle, wiper for skylight, vibration damped, radio with antenna and loud speaker, 2 floodlights integrated into the front of the roof, SENcon control and diagnostic system

OPTIONS

- Portcab large capacity cabin
- Skylift cab elevation (elevation 9 m)
- Skylift cab elevation (elevation 7 m)
- Safety glazing made of polycarbonate
- Protective roof guard, FOPS if applicable
- Protective front guard
- Carbon filter for circulation/outside air
- Auxiliary heating system
- Air-conditioned seat
- Radio
- Cooling box

SLEWING DRIVE

GEARBOX Compact planetary gear with bent-axis hydraulic engine

PARKING BRAKE Spring-loaded multi-disk brake

SLEWING RING Strong, 3-row slewing ring, sealed. Externally geared slewing ring with 360° protection and pinion lubrication

SLEWING SPEED 0-4,3min⁻¹, variable

TORQUE 420 kNm

*with 3 hydraulic circuits

Option: working at a viewing height of up to 15 m thanks to Skylift cab adjustment



²Vibration level: Max. hand/arm (acc. ISO 5349-2001) < 2.5 m/s² und max. body (acc. ISO/TR 25398:2006) < 0.5 m/s²

TECHNICAL DATA, EQUIPMENT

UNDERCARRIAGE MOBILE

MOBILE	Mobile undercarriage MS210 with integrated 4-point outrigger, four planetary axles with integrated steering cylinders, two axles driven by variable-displacement hydraulic engine with directly mounted, automatically acting brake valve, all-wheel steering.
UNDER-CARRIAGE WIDTH	4.450 mm
TIRE TYPE	Solid rubber 14.00-24 (16-times); Option: 16.00-25
BRAKES	hydraulic
SUPPORT PLATE SIZE	Ø 1.300 mm
TRAVEL SPEED	0 – 6 km/h (mobile)

UNDERCARRIAGE CRAWLER

Crawler undercarriage with hydraulic travel drive on each chassis side integrated in the chassis frame by an axial piston engine via compact planetary gears, spring-loaded parking brake, hydraulically ventilated multi-disk brake

UNDER-CARRIAGE WIDTH	6.800 m
TRACK WIDTH	5.800 mm
PLATE WIDTH	1.000 mm
UNDER-CARRIAGE LENGTH	8.500 mm

UNDERCARRIAGE MOBILE GANTRY

TRACK WIDTH	5.850 mm
TIRE TYPE	285/70-19,5 pneumatic tires, Option: 355/65-15 solid rubber tires
BRAKES	hydraulic
SUPPORT PLATE SIZE	Ø 1.600 mm
TRAVEL SPEED	0 – 4 km/h / variable

UNDERCARRIAGE CRAWLER GANTRY

UNDER-CARRIAGE WIDTH	7.210 mm
TRACK WIDTH	5.850 mm
PLATE WIDTH	900 mm
UNDER-CARRIAGE LENGTH	8.450 mm

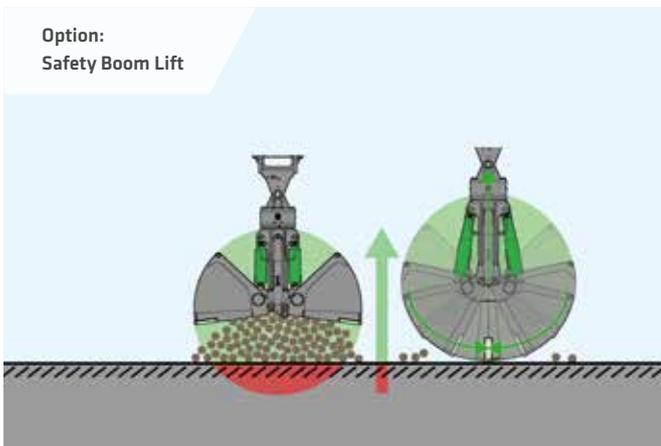
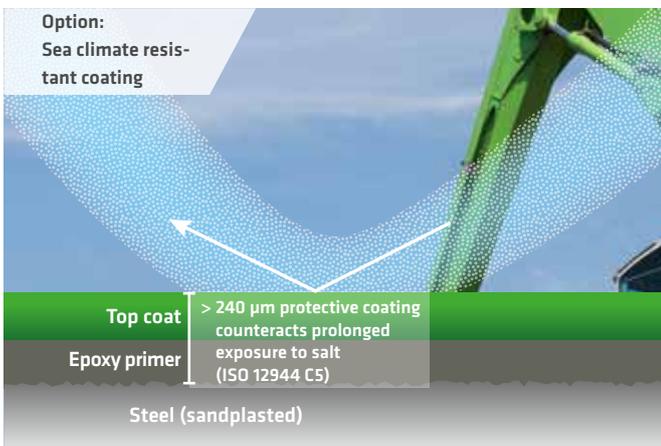
EQUIPMENT

RANGE	up to 32 m
CYLINDER	Hydraulic cylinders with high-quality sealing and guide elements, end position damping, sealed bearing points; all cylinders coated, nickel-plated and chromium-plated in a way that is suitable for maritime climates
OPTIONS	<ul style="list-style-type: none"> Safety Boom lift for equipment Lift limitation/stick limitation adjustable to the stop settings LED lighting Stick mounted camera

OPERATING DATA

REACH	up to 32 m
OPERATING WEIGHT	165 – 195 t, depending on model and equipment
NOTE	Operating weight varies by model and equipment

TECHNICAL DATA, EQUIPMENT



LOAD RATINGS K32 PORT

The specified load capacities are for information only. For a detailed project study, please contact our regional sales partners.



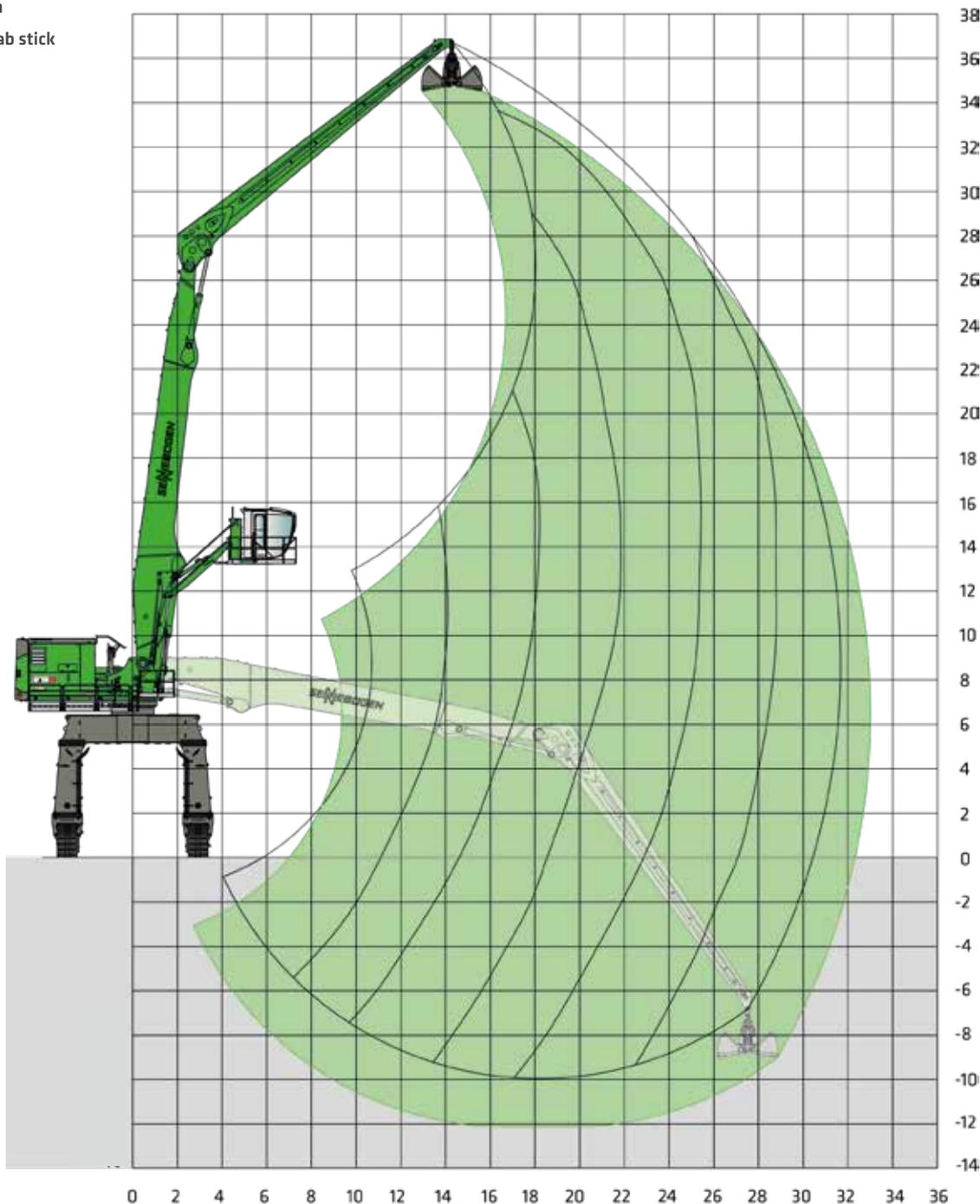
PR 150/585



SKYLIFT G1300/700
hydraulically elevating (optional)



18 m boom
15.5 m grab stick



Machine shown
in mirror image

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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. The specified load ratings apply to maximum track width and 360° slewing.

LOAD RATINGS B26 PORT

The specified load capacities are for information only. For a detailed project study, please contact our regional sales partners.



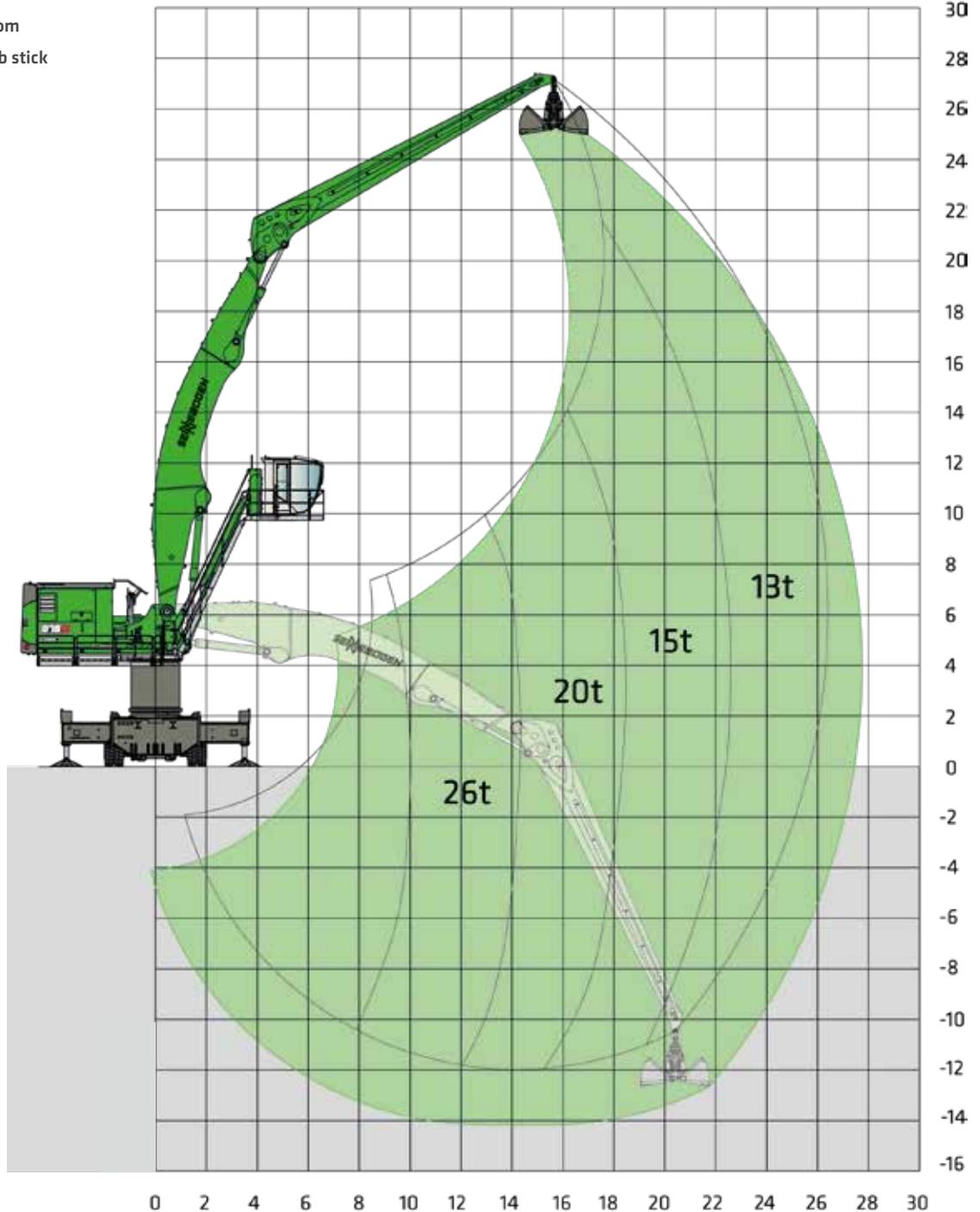
MS210



SKYLIFT G1100
hydraulically elevating (optional)



14.5 m boom
13.5 m grab stick



Machine shown
in mirror image

LOAD RATINGS

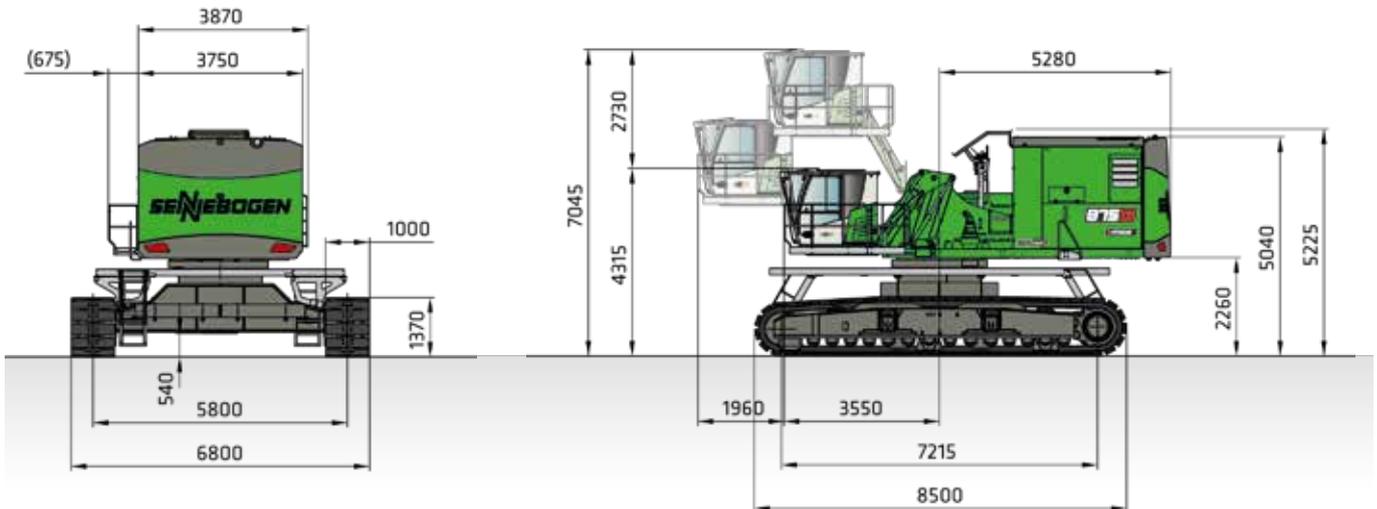
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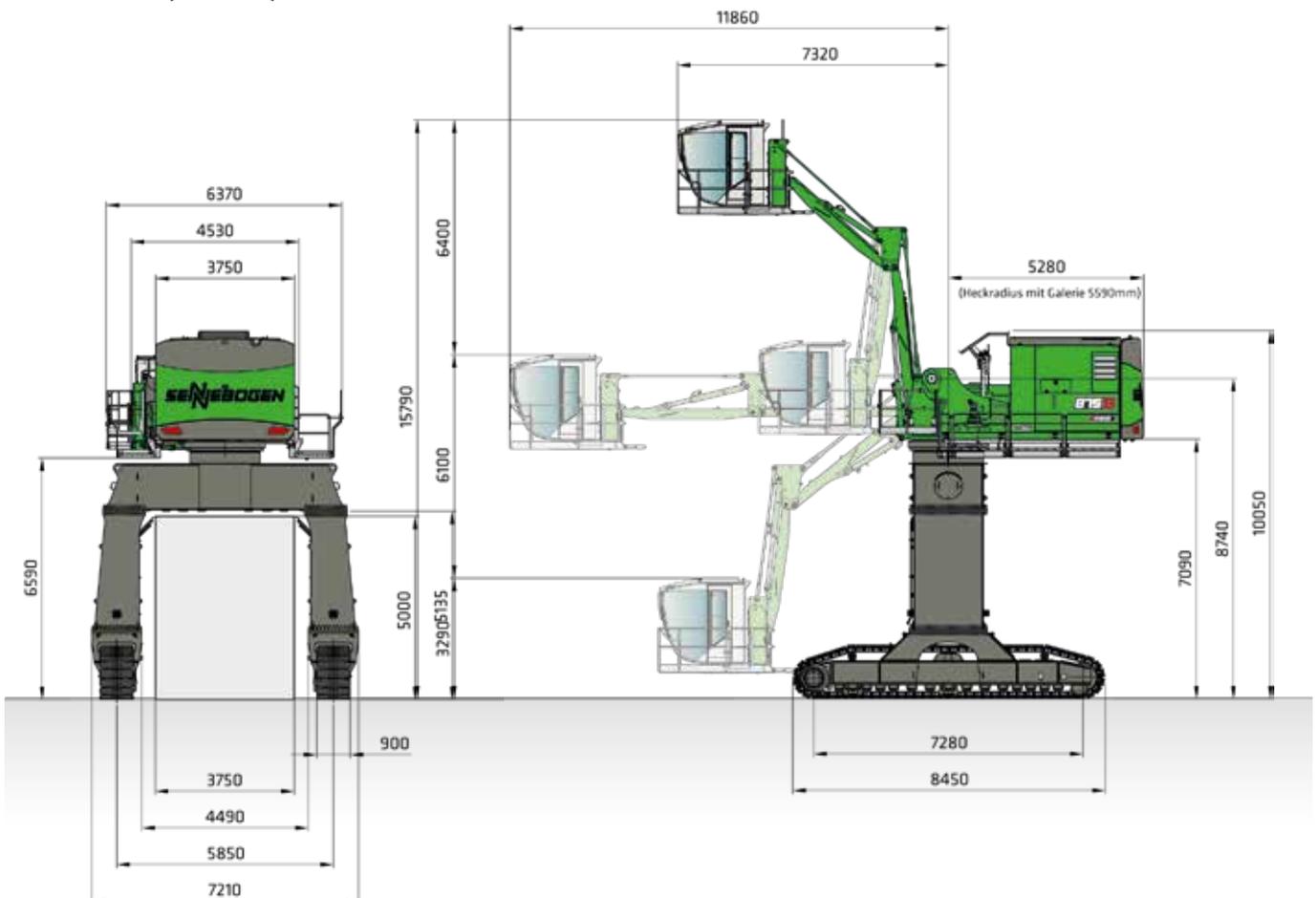
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DIMENSIONS CRAWLER

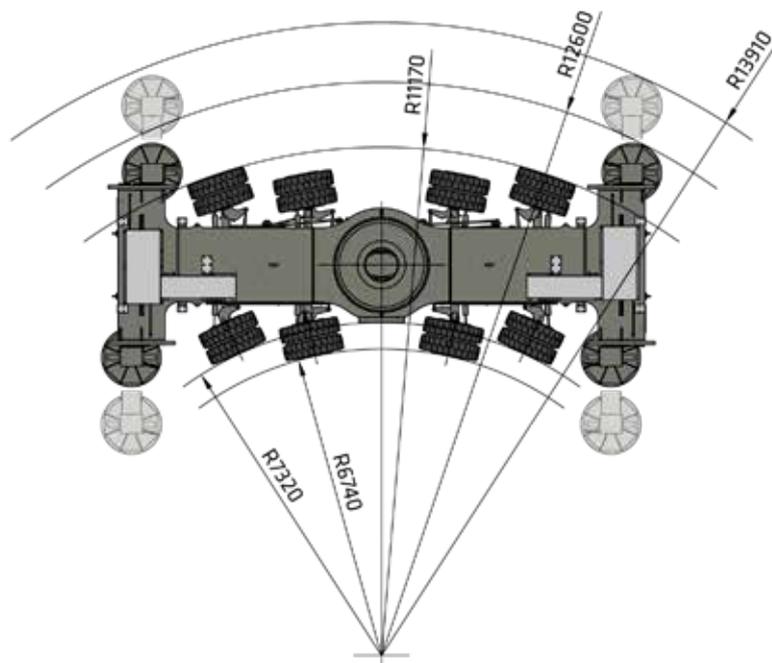
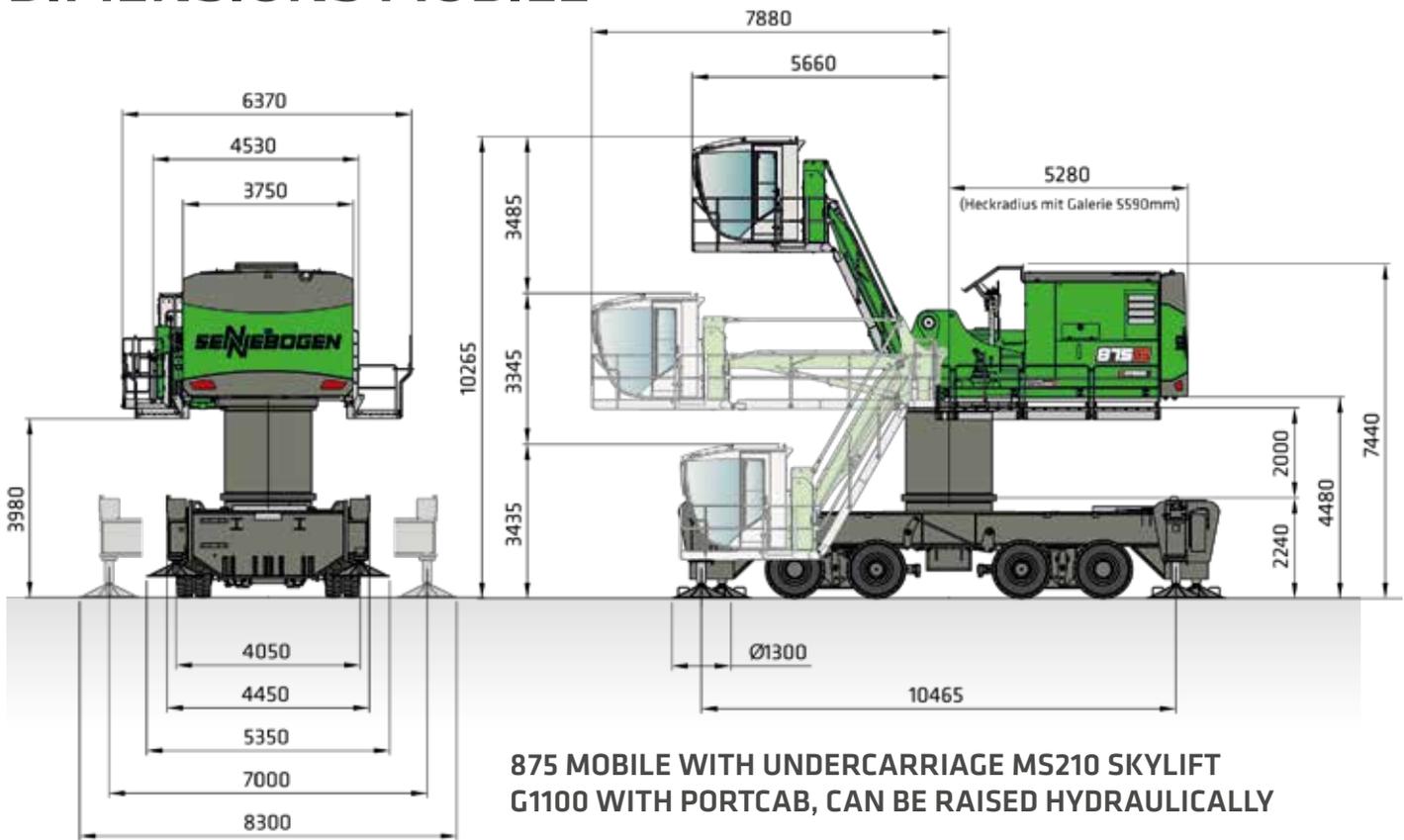


875 G CRAWLER WITH UNDERCARRIAGE R147 AND ADVANCING CAB G290/200 MAXCAB INDUSTRY (SERIES)



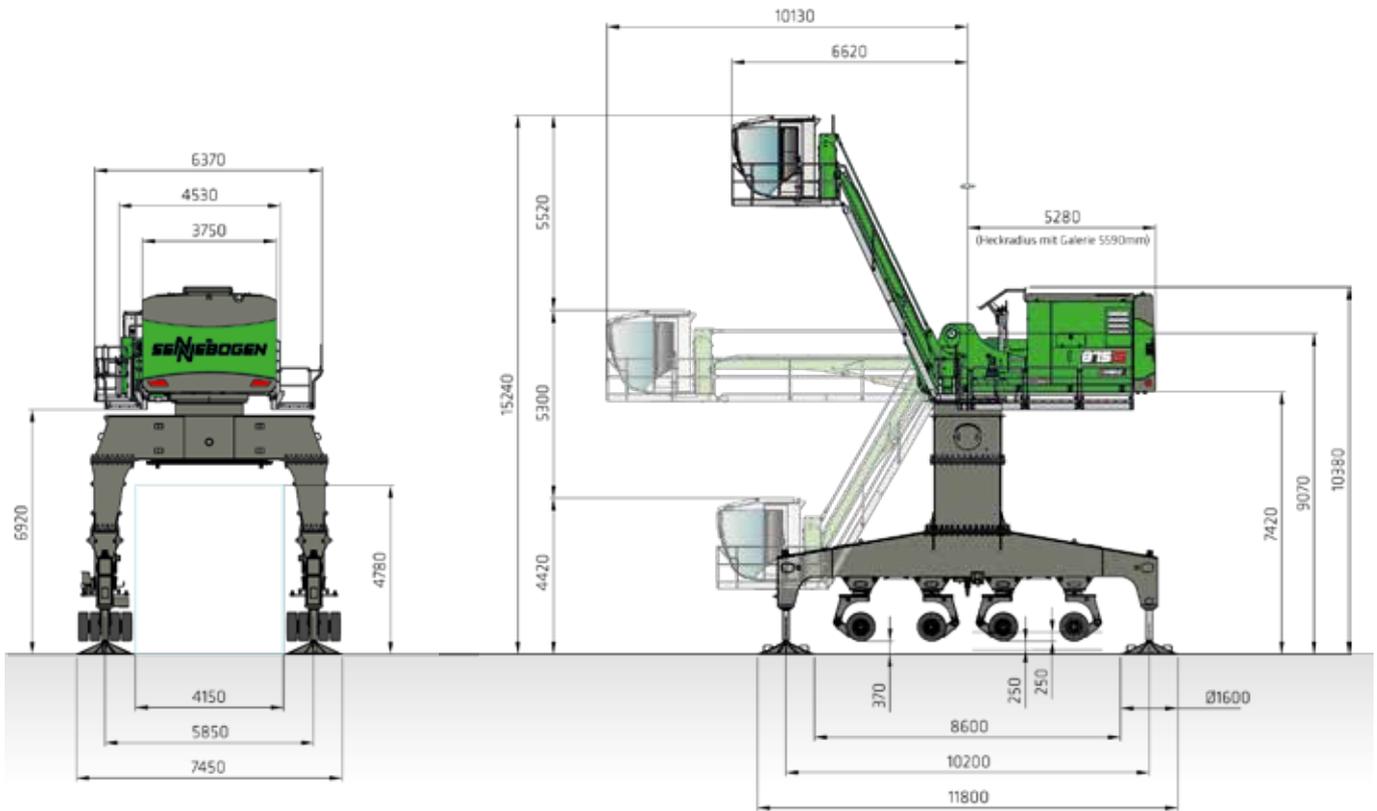
875 G CRAWLER GANTRY WITH UNDERCARRIAGE PR150/585 AND SKYLIFT G1300/700 WITH PORTCAB, HYDRAULICALLY ELEVATING

DIMENSIONS MOBILE

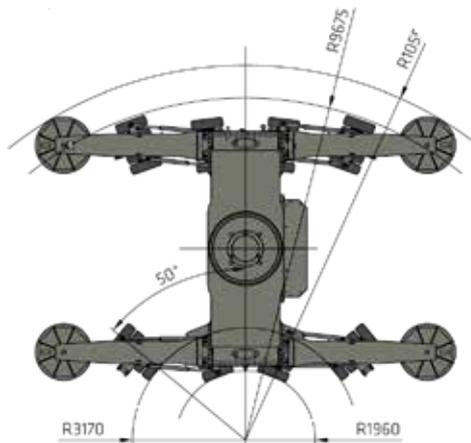


MOBILE UNDERCARRIAGE MS210

DIMENSIONS SPECIAL

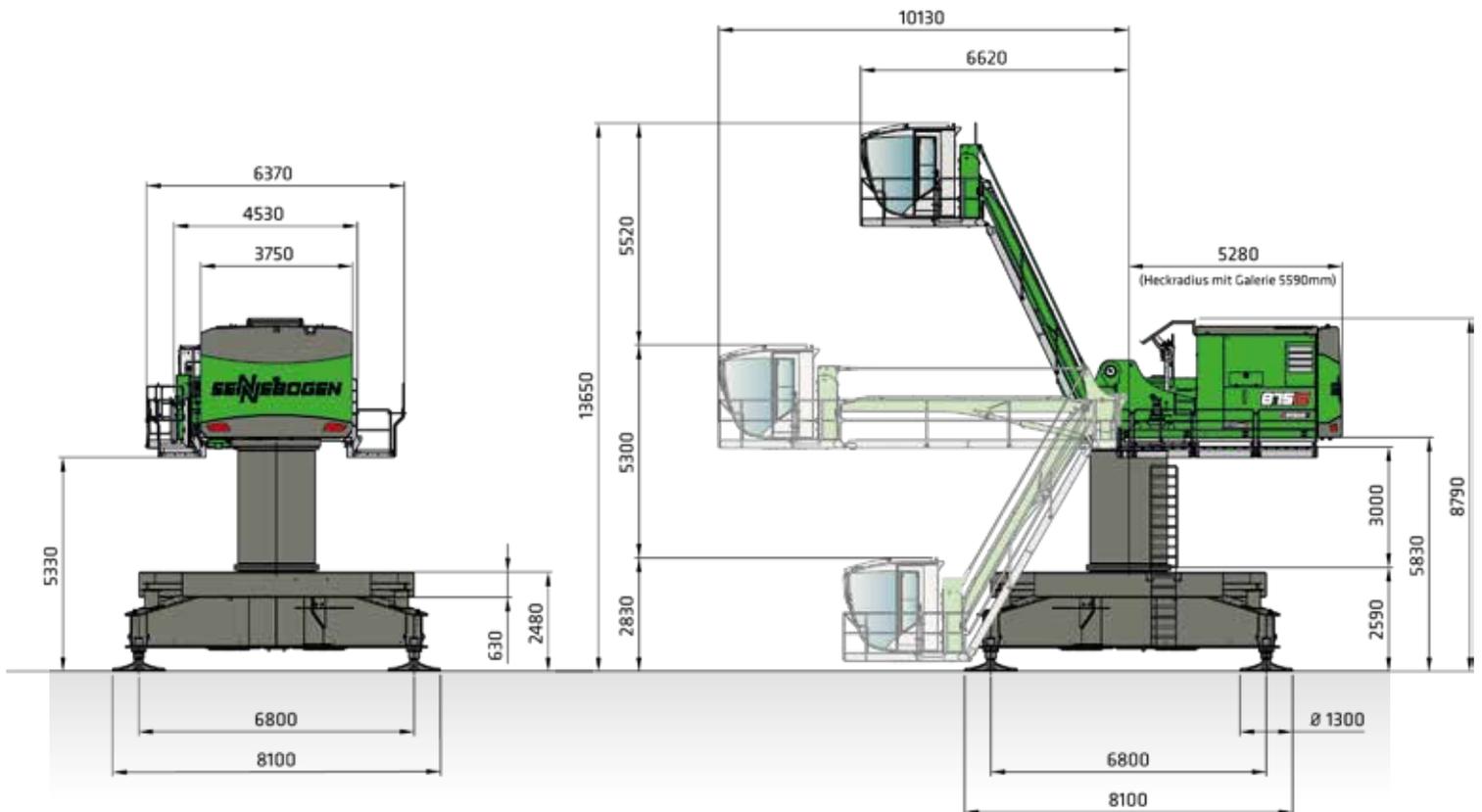


875 MOBILE GANTRY WITH UNDERCARRIAGE PM150/585 AND HYDRAULICALLY ELEVATING CAB SKYLIFT G1100 AND PORTCAB



UNDERCARRIAGE PM150/585

DIMENSIONS 4-POINT-PEDESTAL



875 G STATIONARY ON 4-POINT-UNDERCARRIAGE ST98 WITH 3 m PYLON,
HYDRAULICALLY ELEVATING CAB ELEVATION SKYLIFT G1100 AND PORTCAB



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



SERVICE AND MAINTENANCE

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

➔ 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



RENTAL & USED

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

➔ 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



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

875G | Hybrid

Bestell-Nr. 443605
875-G-032503

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