

HANDLER

WITH A REACH OF UP TO 38 M

















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.

Modular variety

Unique machine variety – we build the perfect machine to meet the needs of your port.

Maximum comfort

The spacious Portcab 2.0 is designed with the needs of the operator in mind - comfortable and spacious with sophisticated features.

Maintenance & Service

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

Occupational safety

Thanks to the precisely controlled movecan work effortlessly and safely throughout your day.





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 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.



ANTHORNE SAN AND SAN A



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 1,800 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 the heat of Dubai







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

30%

energy with 255 kW system output of the Green Hybrid system





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

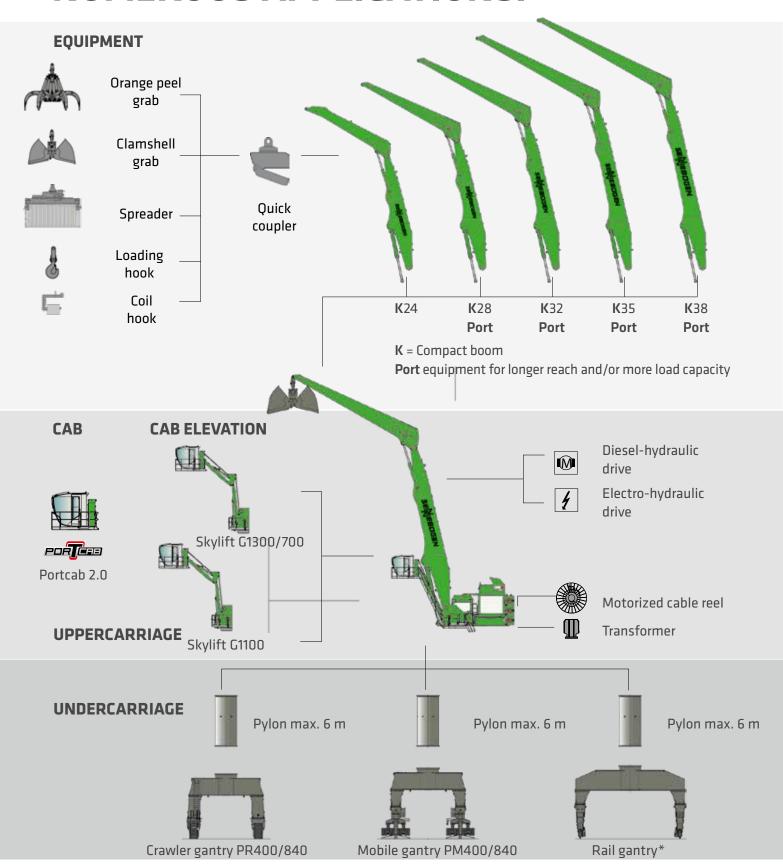
selyebogen Green**Hybrid**

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
- System is optimally adjusted to the individual machine configuration



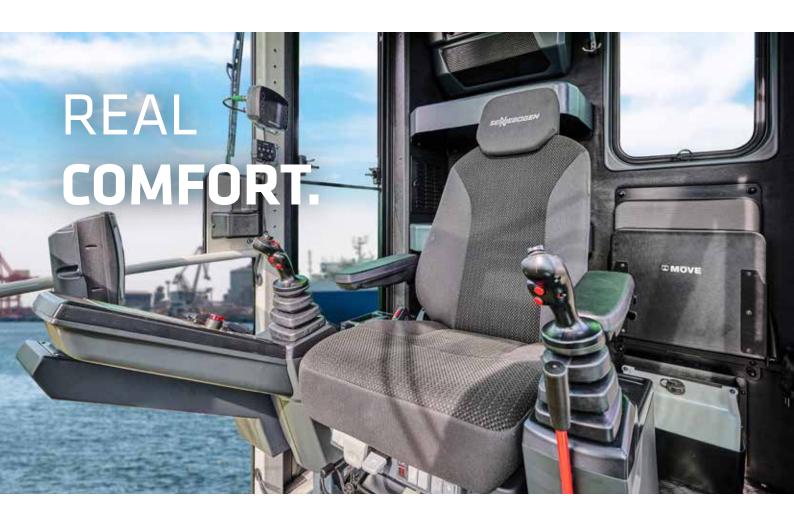
A MODULAR DESIGN. NUMEROUS APPLICATIONS.





SENJEBOGEN





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

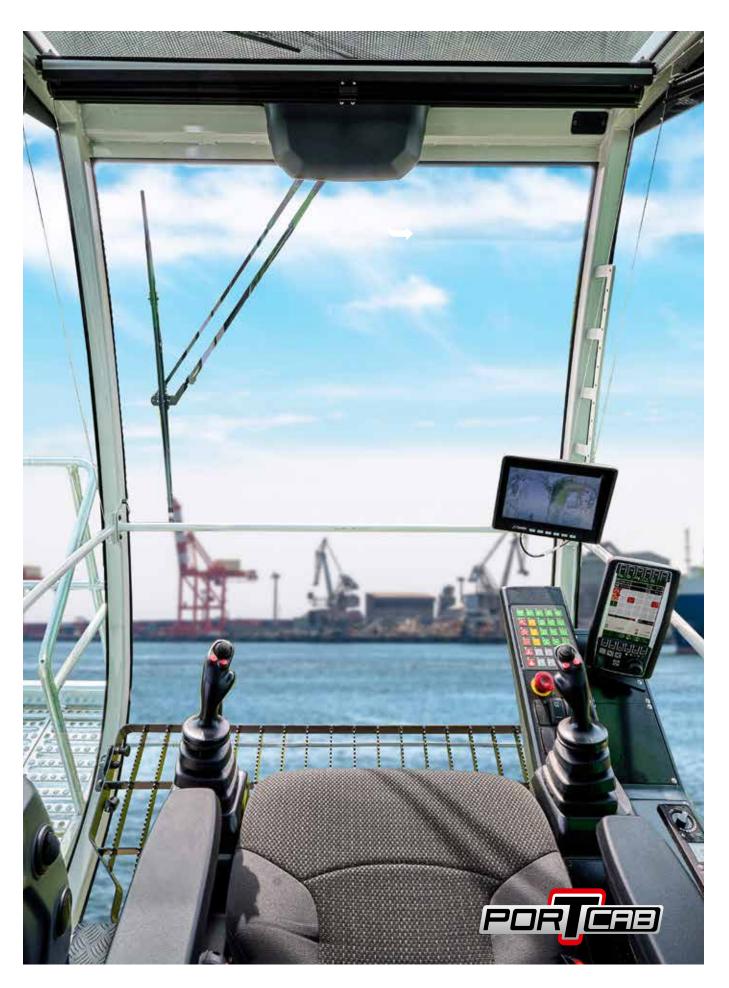
Operators spend many hours in their working position. The backfriendly comfort seat, adjustable armrests, joysticks that sit comfortably in the hand, and the optimally arranged controls make daily work as easy as possible.

"The development of the Green Line machines is based on user feedback in order to create the best operating experience."

ALI GÜLYAZ, Designer Green Line

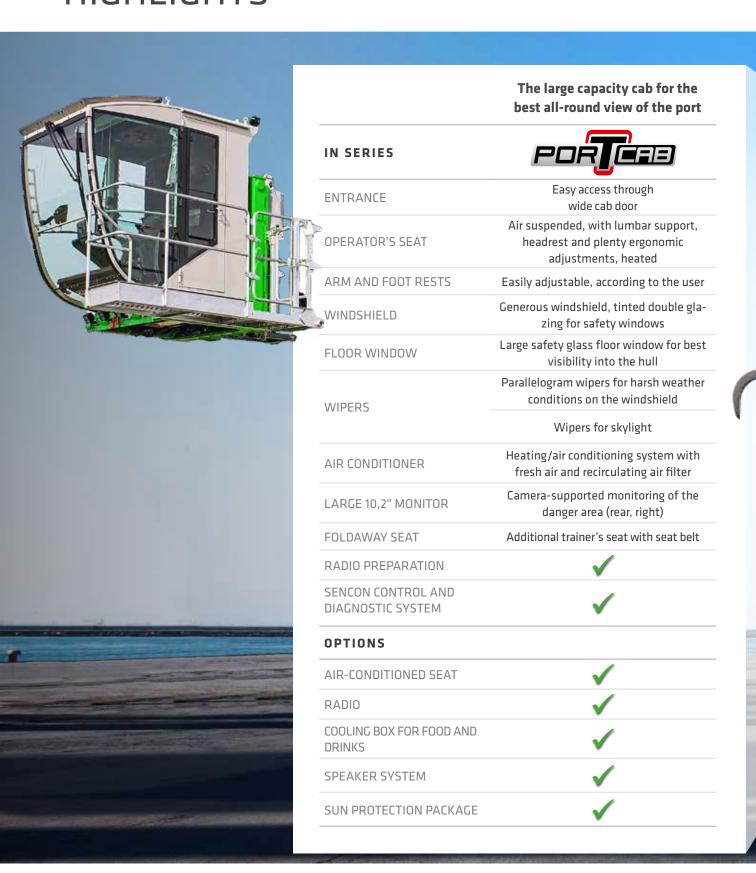








CAB HIGHLIGHTS









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."

3. Improve productivity

With just a few clicks, you can identify and optimize machine capacity, analyse 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. 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 the machine on your own.



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.



MACHINE TYPE

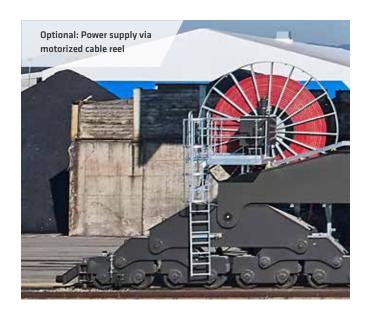
MODEL (TYPE) 885 Hybrid

DIESEL ENGINE TYPE Stage V: CAT C18¹ Rated power: 597 kW / 1800 rpm Operating point standard: 597 kW / 1800 rpm Operating point ECO: 590 kW / 1650 rpm Stage II: on request both: Automatic idle/stop COOLING water-cooled incl. fuel pre-filter DISPLACE-18 I MENT NUMBER OF 6 **CYLINDERS BATTERIES** 2x 210 Ah, battery disconnect switch ELECTRICAL 24 V SYSTEM OPTIONS Engine block heater Electric fuel pump

UPPERCARRIAGE ===	
DESIGN	Torsion-resistant box design, precision crafted, steel bushings for boom mounting, service-friendly design, sea climate resistant coating, camera package (right/rear), telematic system SENtrack
COOLING SYSTEM	Compact 3-circuit cooling system with large cooling capacity, thermostatically regulated fan drive for oil and water cooler reduces energy consumption and noise emissions Fan reversal for easy and regular cleaning
OPTIONS	LED lighting package
	Swing bearing brake via foot pedal
	Fire extinguisher
	Low temperature packages
	Electrical Hydraulic tank preheating
	Magnet generator 30/33 kW

ELECTRIC DRIVE	
OPTIONS	Type: 500 kW, standard with 400 V / 50 Hz
	Transformer
	Cable reel

TANK CAPACITIES	
FUEL	2250 I, Optional additional tanks
HYDRAULIC- TANK	2170 l
COOLANT	ca. 120 l
ENGINE OIL	ca. 40 l
CENTRAL LUBRICATION SYSTEM	Automatic central lubrication for equipment and slewing ring, display of fault and empty message via SENCON

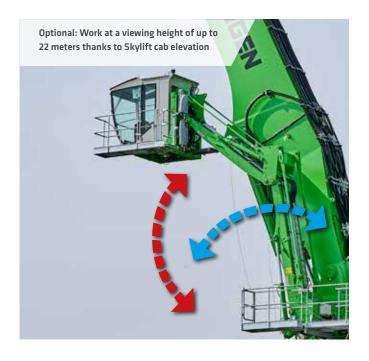




HYDRAULI	C SYSTEM <u>1</u>
Load-sensing/ LDUV hydraulic system, hydraulically operated work functions	
DELIVERY RATE	1800 l
OPERATING- PRESSURE	up to 320 bar
CONTROL SYSTEM	Proportional, precision electric actuation of work movements, joystick control for the work functions, additional functions via switches and foot pedals
SAFETY	Hydraulic circuits safeguarded with safety valves
	Pipe fracture safety devices
	Emergency lowering of the equipment in the 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

CAB	
CAB TYPE	Portcab 2.0, can be elevated by 11 m
CAB FEATURES	SENNEBOGEN Portcab 2.0 - large, special operator's cab with outstanding all-around visibility, large floor window at the front, high-performance heating and climate system Comfortable, air-suspended seat and seat belt, additional training seat, control elements according to the latest ergonomic standards, roof and floor window made from bulletproof glass, sun protection for roof and side windows, control and diagnostic system SENCON
OPTIONS	Bullet proof windshield
	Safety side window and rear window
	Polycarbonate safety glass
	Wipers for lower front window/skylight
	Sun blinds on the side windows
	Speaker system with gooseneck microphone
	Radio
	Cooling box

SLEWING DRIVE \$\footnote{\colon}	
GEARBOX	Compact planetary gear with bent-axis hydraulic engine, integrated brake valves
SLEW BRAKE	Spring-loaded multi-disk brake
SLEWING RING	3-row roller slewing ring, sealed. Externally geared slewing ring with 360° grease drip tray and pinion lubrication
SLEWING SPEED	0-4,2 rpm, stepless
TORQUE	565 kNm





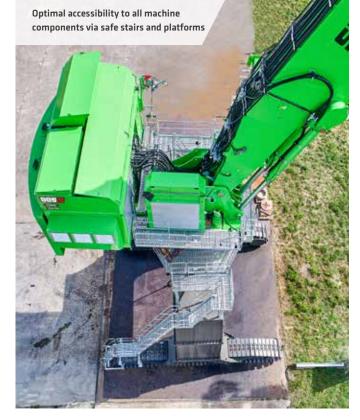
CRAWLER GANTRY



Crawler gantry undercarriage PR300/750 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 multidisk brake, flat track shoes 1200 mm

TRAVEL SPEED 0-1,5 km/h

OPTION max. 6 m Pylon



MOBILE GANTRY



Stable and agile mobile gantry undercarriage PM300/750 with 20 wheel sets and integrated 4-point support, automatic load compensation via corresponding level control for even floor relief. Simple, reliable maneuvering thanks to all-wheel steering on all wheel sets and crab steering, small turning radius

TIRE TYPE	80 x 285/70 R19.5
BRAKES	hydraulic
TRAVEL SPEED	0-3,8 km/h
OPTION	max. 4 m Pylon

RAIL GANTRY



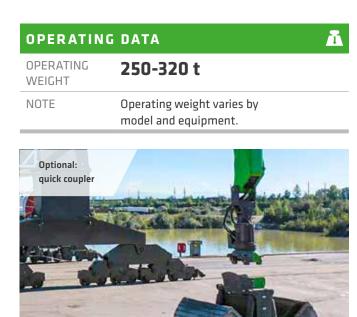
Customized rail undercarriage, dimensions according to customer requests

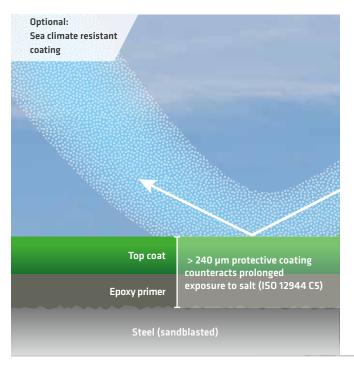
TRAVEL SPEED 0-2,4 km/h

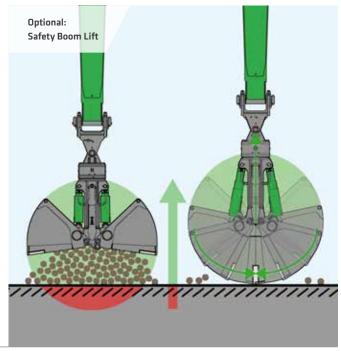
OPTION max. 6 m Pylon



EQUIPMEN1	T
REACH	up to 38 m
CYLINDERS	Hydraulic cylinders (incl. hybrid cylinder) with high-quality sealing and guide elements, end position damping, sealed-bearing points All cylinders coated, nickelplated and chromium-plated in a way that is suitable for maritime climates, pipe rupture safety device (lifting cylinder)
CENTRAL LUBRICATION	Automatic central lubrication system
OPTIONS	Safety Boom Lift for equipment
	Lift limitation / stick limitation adjustable to the stop settings
	LED lighting
	Stick mounted camera









LOAD RATINGS K24 HEAVY DUTY

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



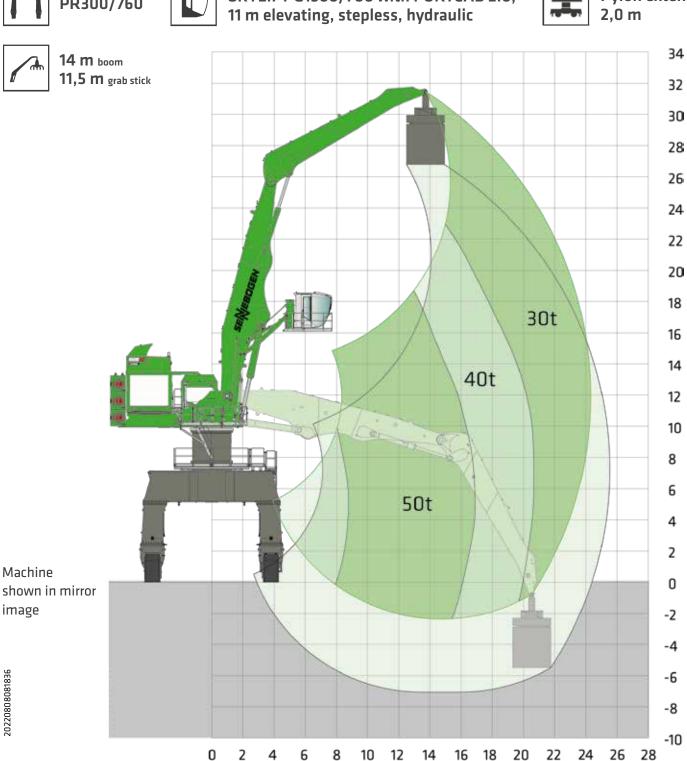
PR300/760



SKYLIFT G1300/700 with PORTCAB 2.0,



Pylon extension



Notes:

All values are in tons (t) and are 75% of the static tipping load or 87% of the hydraulic lifting force in accordance with ISO 10567, and apply at the required operating temperature in the Green Hybrid system. They apply on firm and level ground and 360° slewing. Attachments such as orange peel grabs, magnets, etc. are included in the load capacity. In accordance with harmonized EU standard EN 474-5, hydraulic material handling machines used for hoisting must be equipped with pipe fracture safety devices on the hoist cylinders and an overload warning device.





LOAD RATINGS K28 PORT

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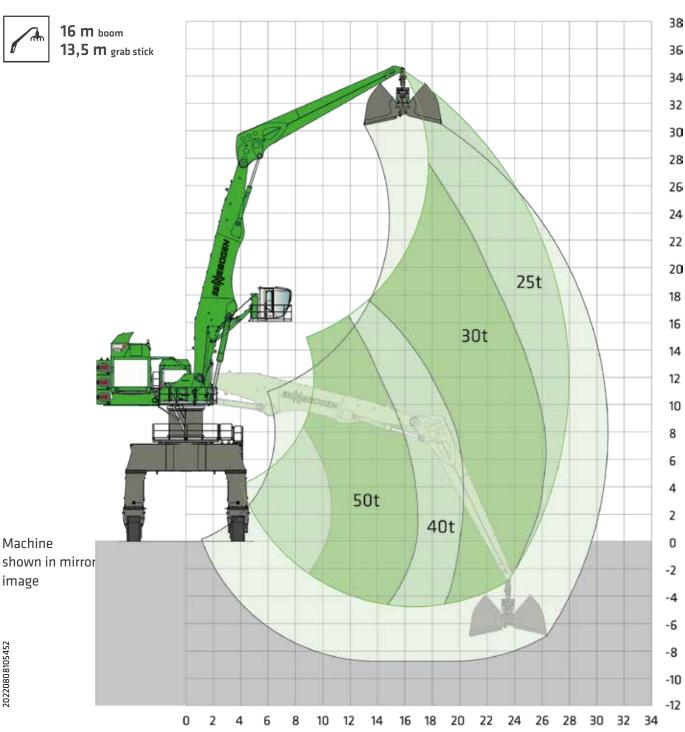
PR300/760



SKYLIFT G1300/700 with PORTCAB 2.0, 11 m elevating, stepless, hydraulic



Pylon extension 2.0 m



Notes:

All values are in tons (t) and are 75% of the static tipping load or 87% of the hydraulic lifting force in accordance with ISO 10567, and apply at the required operating temperature in the Green Hybrid system. They apply on firm and level ground and 360° slewing. Attachments such as orange peel grabs, magnets, etc. are included in the load capacity. In accordance with harmonized EU standard EN 474-5, hydraulic material handling machines used for hoisting must be equipped with pipe fracture safety devices on the hoist cylinders and an overload warning device.



LOAD RATINGS K35 PORT

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PM300/760



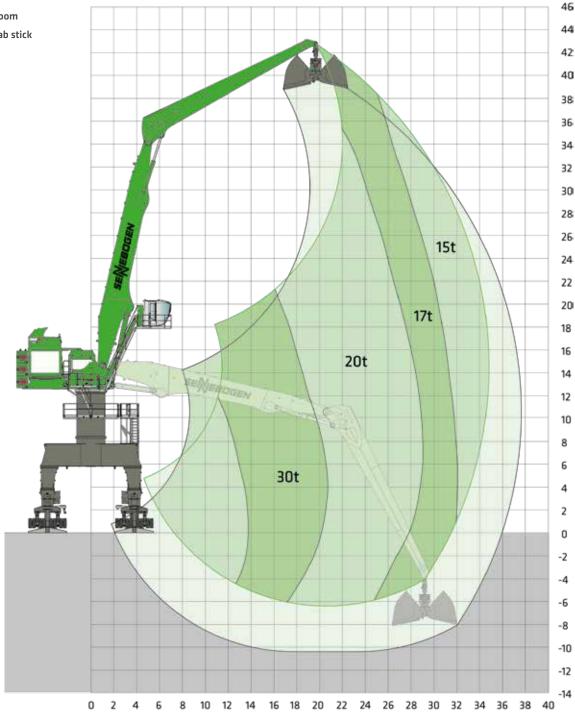
SKYLIFT G1100 with PORTCAB 2.0, 11 m elevating, stepless, hydraulic



Pylon extension 4,0 m







shown in mirror image

Machine

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Notes:

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LOAD RATINGS K38 PORT

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RAIL GANTRY



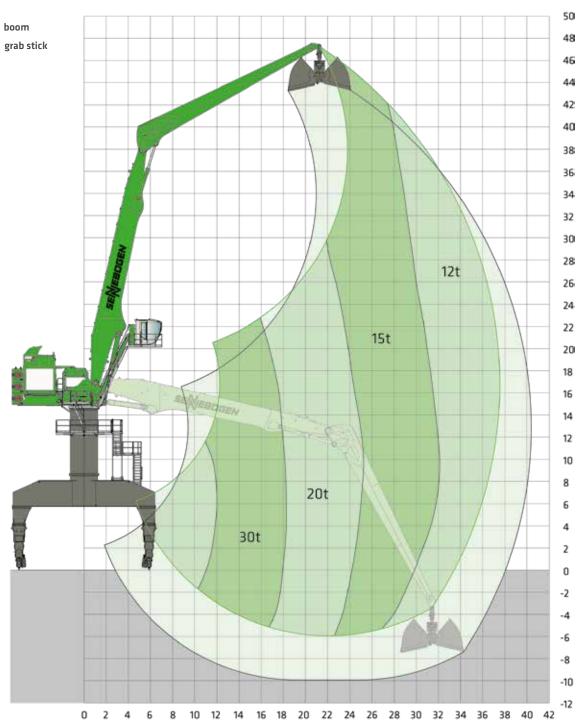
SKYLIFT G1100 with PORTCAB 2.0, 11 m elevating, stepless, hydraulic



Pylon extension 6.0 m



21,5 m boom 18,5 m grab stick



Machine shown in mirror image

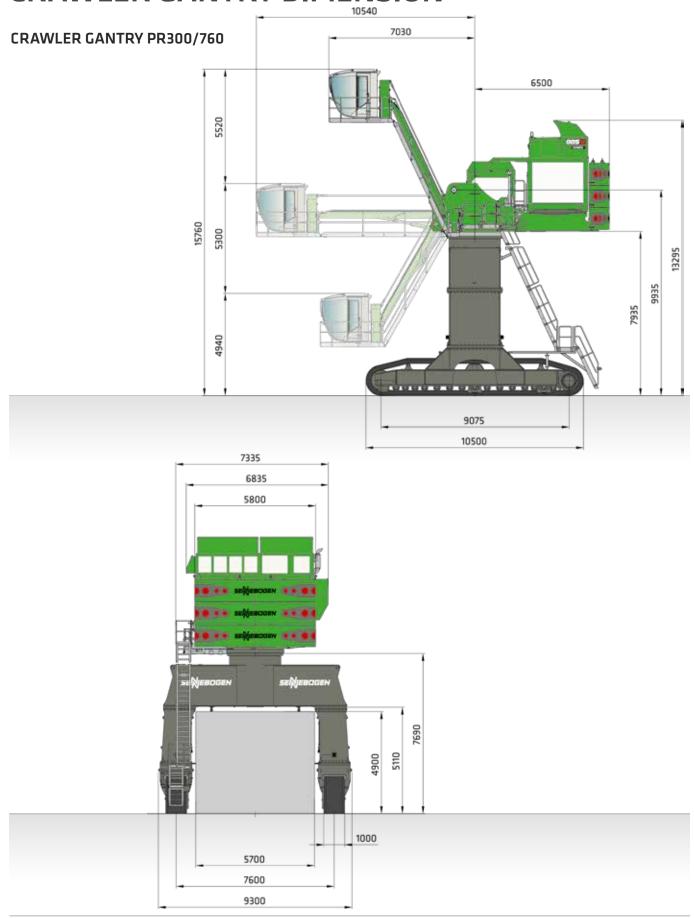
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Notes:

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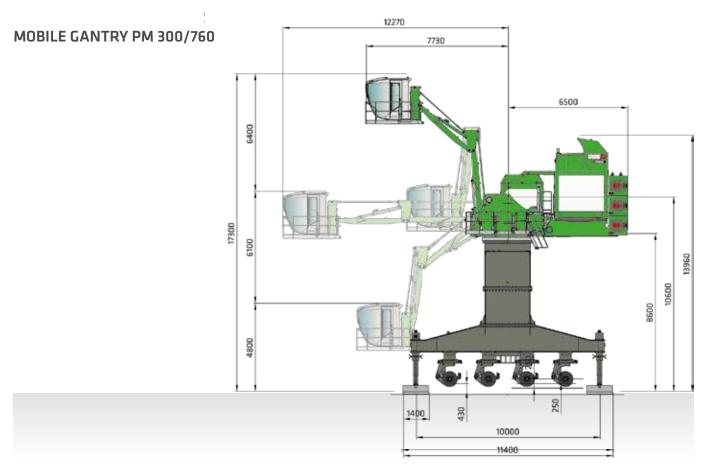
CRAWLER GANTRY DIMENSION 10540

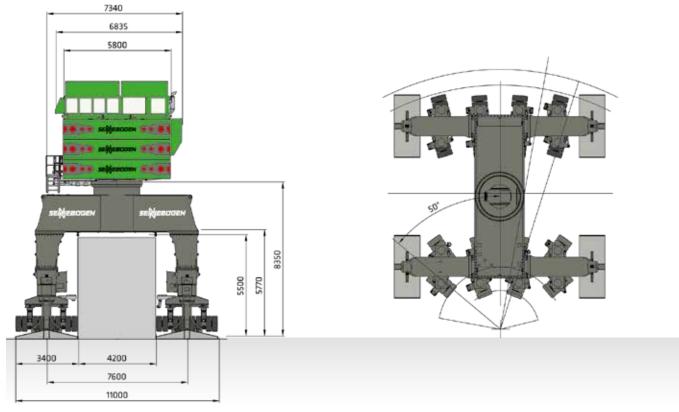






MOBILE GANTRY DIMENSIONS









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70 over

years of experience

100%

family company

over **2000**

experienced specialists worldwide

4

production plants in Germany

over 180

sales and service partners worldwide **27**

different material handlers



Telehandler 4-5.5 t

Balancer 130-300 t Material handler

Duty cycle crane 13.5-300 t

Crawler crane 50-300 t

Telescopic crane

Port crane 300 t



This catalog describes machine models, the scope of equipment of individual models, and configuration options (standard equipment and optional equipment) of the machines delivered by SENNEBOGEN Maschinenfabrik GmbH. Machine illustrations may contain optional and supplementary equipment. Actual equipment may vary depending on the country to which the machines are delivered, especially in regard to standard and optional equipment. All product designations used may be trademarks of SENNEBOGEN Maschinenfabrik GmbH or other supplying companies, and any use by third parties for their own purposes may violate the rights of the owners.

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