



EQG / BALANCER

SENEBOGEN

EQG
BALANCER



BALANCE MATERIAL HANDLER

WITH A REACH OF UP TO 42 M



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.

PRODUCT VIDEO



Huge savings potential, high ease of maintenance: You can find out what makes the EQ G Balancer so effective in the tour around the machine

sennebogen.com/produkt-video-eq



Low operating costs thanks to energy-saving electric drives and the balance principle



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



Cover large ranges, make optimum use of storage space and complete a wide range of tasks with just one machine



Sophisticated technology thanks to the consistent further development up to the 6th Generation, 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

THE EQ BALANCE PRINCIPLE EASY AND EFFECTIVE

THE ADVANTAGES

Save up to 75 % energy

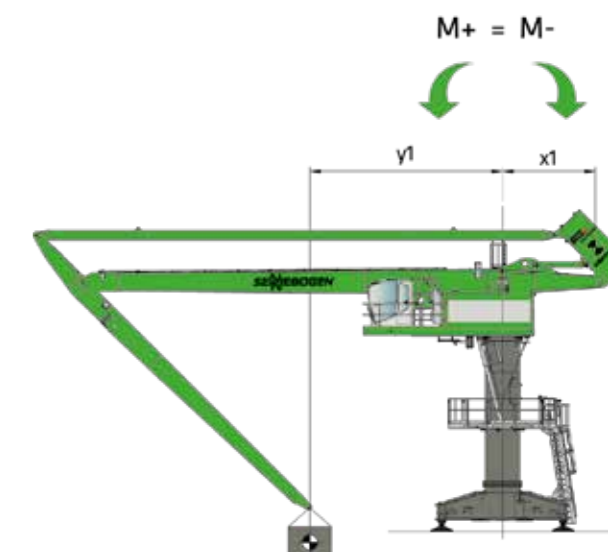
- ✓ Emission-free thanks to electric motor
- ✓ Intelligent weight distribution according to the lever principle
- ✓ Smaller engine size and hydraulic components
- ✓ Low operating costs due to low energy consumption

Versatile machine concept

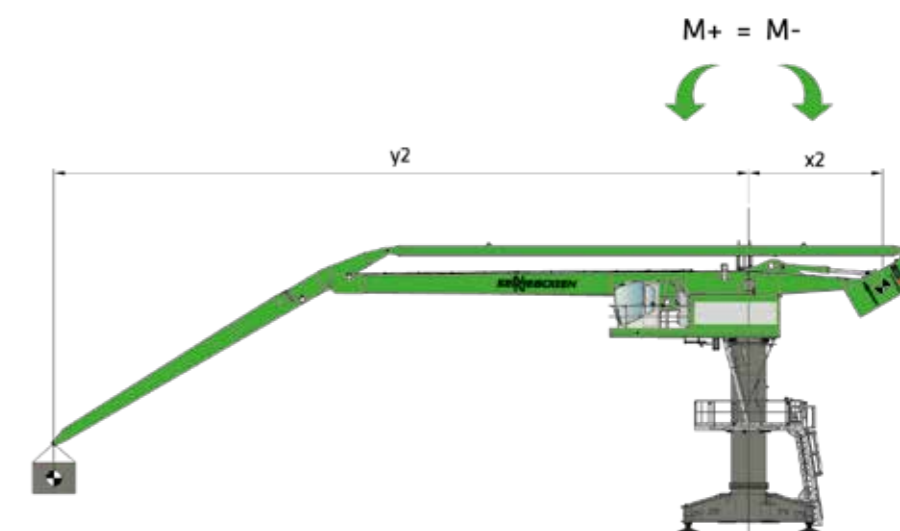
- ✓ An EQ Balancer carries out the tasks of several machines centrally on the spot: Sorting, loading and unloading, supplying and transport
- ✓ Working radius of up to 42 m
- ✓ Numerous undercarriage options

Keep it simple

- ✓ Low maintenance and less wear
- ✓ Cheaper spare parts
- ✓ Reduced installation effort



- 1 WORKING IN CLOSE RANGE**
by shifting the counterweight forward



- 2 WORKING IN FAR RANGE**
by shifting the counterweight backwards

In balance: the center of gravity is always centered above the slewing ring

**WALK-IN
POWERPACK:
OPTIMAL SERVICE
ACCESSIBILITY**

- 1** Folding maintenance roof
- 2** Overpressure ventilation incl. filter
- 3** Hydraulic cooling (encapsulated from engine compartment)
- 4** Hydraulic tank
- 5** Electric drive



ELECTRO

**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

Internal image:
SENNEBOGEN Powerpack

SAFETY FIRST.

Enjoy a safe work environment thanks to numerous safety features developed especially for demanding material handling. Protecting people, the environment and the machine.

Component safety

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

Safe & ergonomic

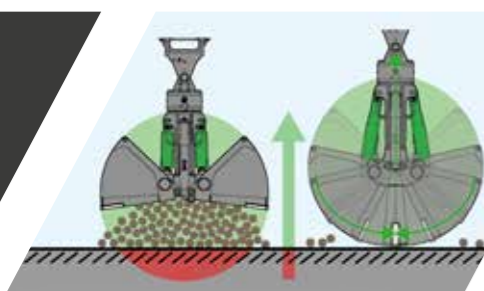
optimum cab and machine component accessibility via stairs and ascents

HOW TO OPERATE THE SAFETY BOOM LIFT



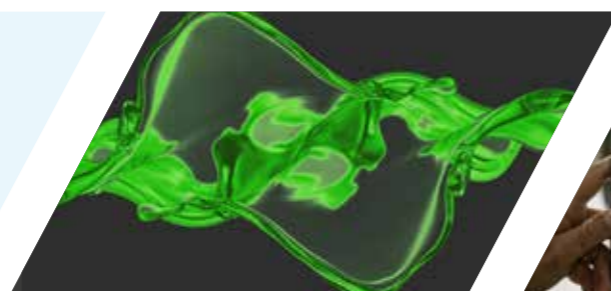
This video will show you how the SENNEBOGEN Safety Boom Lift works.

www.sennebogen.com/safety-boom-lift



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



Safety rods

for climbing equipment during boom maintenance

EXPERIENCE VARIETY FOR EVERY TYPE OF MATERIAL

The entire range of handling technology can be flexibly operated using the quick change system on the stick and the SENNEBOGEN material handlers' powerful hydraulics. Whether in the port, scrap yard or sawmill, you can easily switch between different grab applications.



Bulk material (feed, coal, etc.)



Timber grab



Scrap handling



Vacuum lifter

QUICK AND EASY GRAB CHANGE

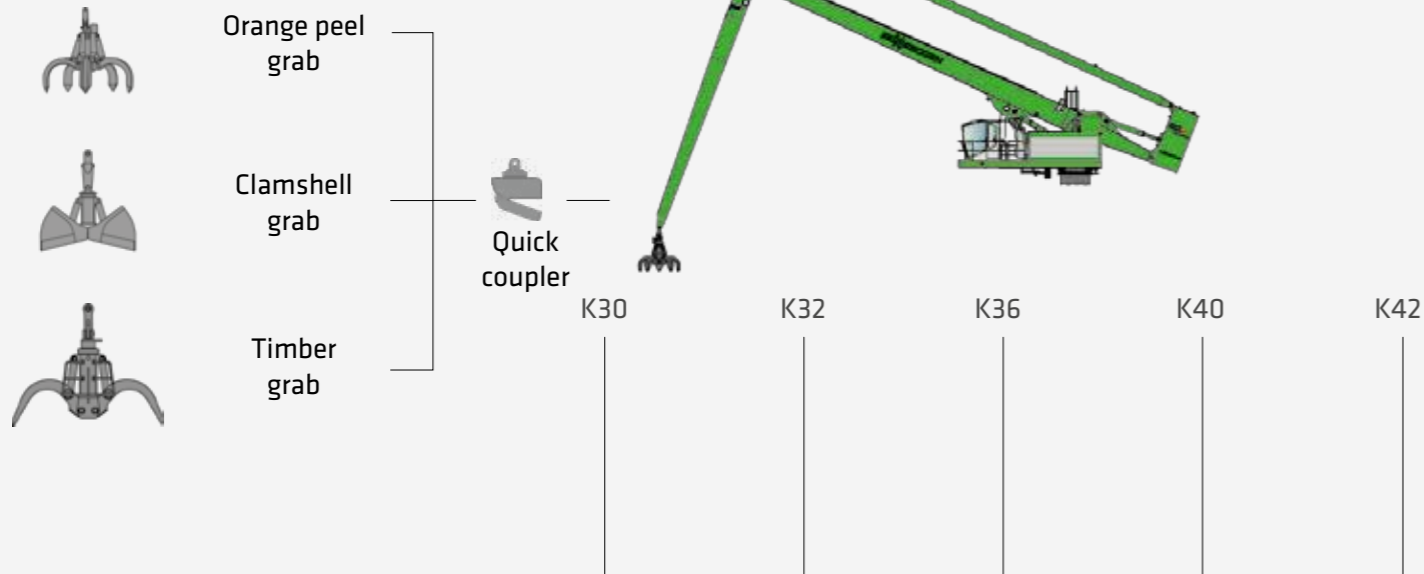


Watch the video to see how quick and easy it is to change the grab with the quick change system on the stick!

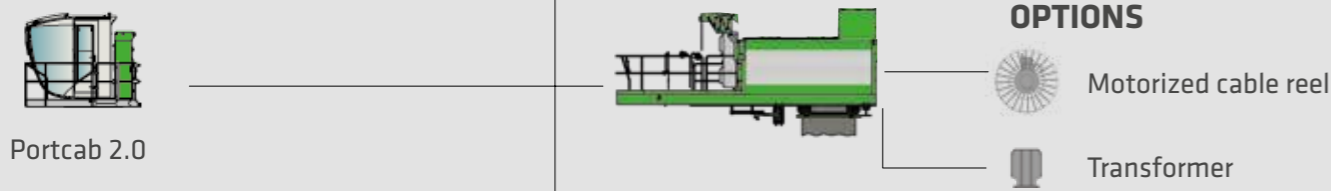
www.sennebogen.com/quick-coupler

A MODULAR DESIGN. NUMEROUS APPLICATIONS.

EQUIPMENT

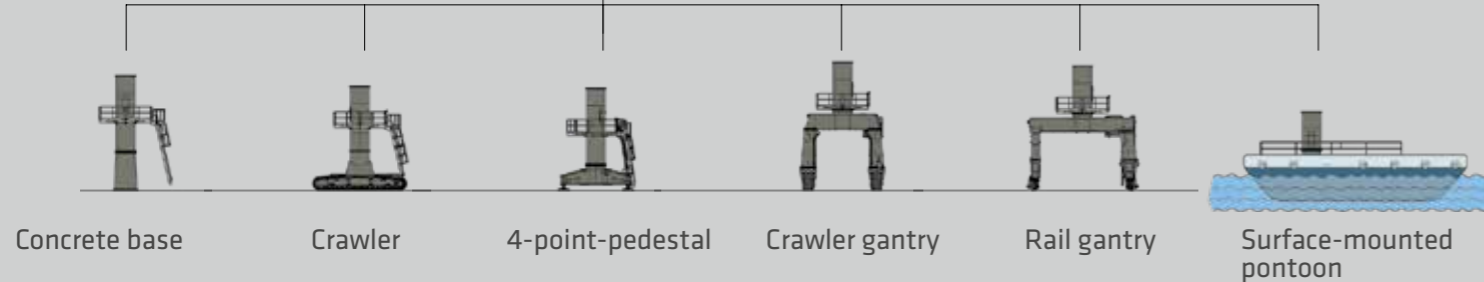


CAB



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

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 every day and concentrate on the essentials of work thanks to pleasant heating and air conditioning.

“We welcome regular feedback from operators to ensure the work space is configured perfectly.”

ROBERT AUMÜLLER,
Head of the Port Business Unit



PORT CAB

CAB HIGHLIGHTS



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

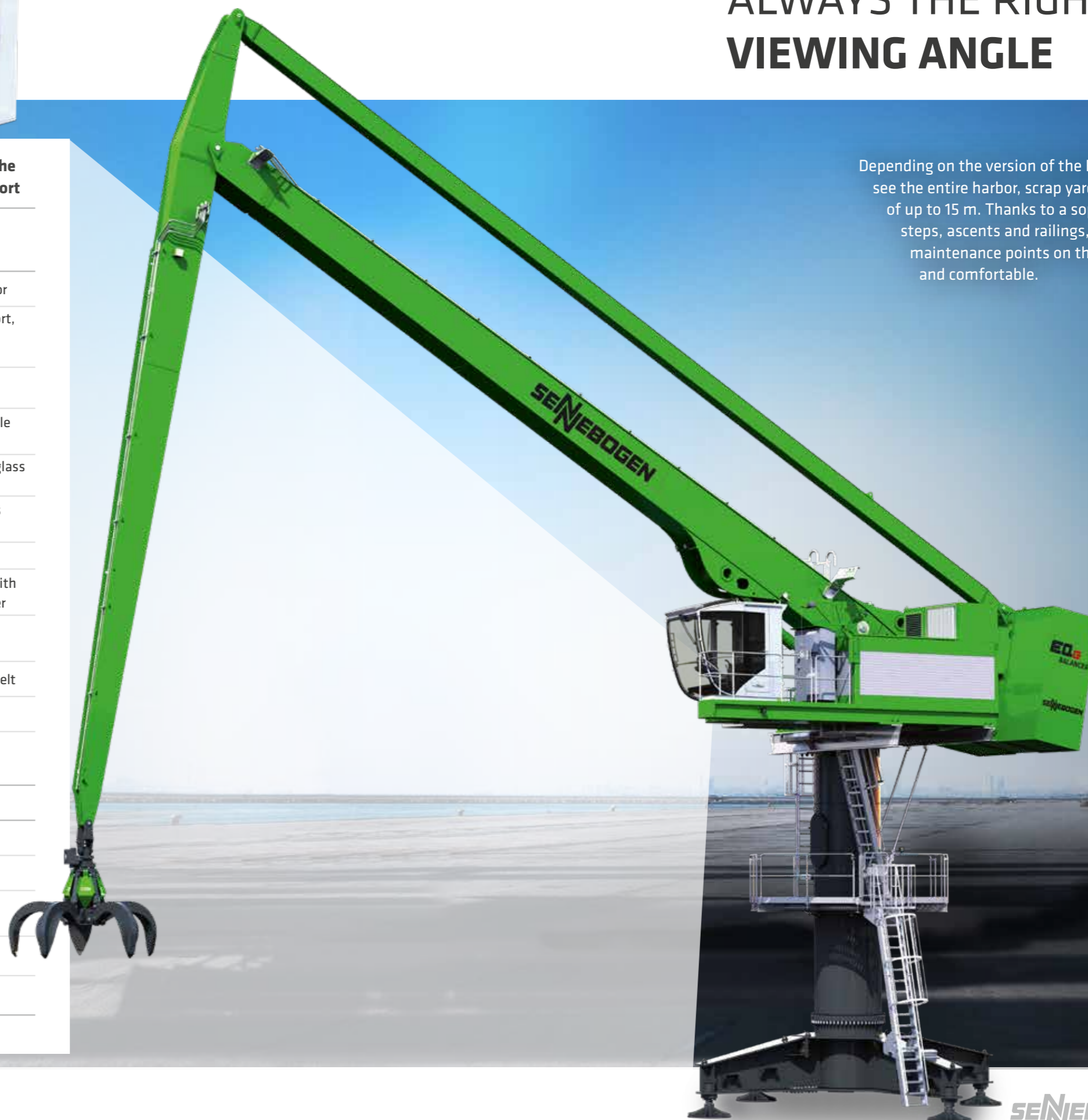
IN SERIES



ENTRANCE	Easy access through wide cab door
OPERATOR'S SEAT	Air-suspended, with lumbar support, headrest and numerous settings for optimal ergonomics, heated
ARM RESTS AND FOOT SUPPORTS	Easy to adjust to suit each user
WINDSHIELD	Generous windshield, tinted double glazing for safety windows
FLOOR WINDOW	Large floor window made of safety glass for the best view into the hull
WIPERS	Parallelogram windshield wipers for harsh weather conditions Wipers for skylight
AIR CONDITIONER	Heating/air conditioning system with fresh air and recirculating air filter
LARGE 10.2" MONITOR	Camera-supported monitoring of the danger zone (rear, right)
FOLDAWAY SEAT	Additional trainer's seat with seat belt
RADIO PREPARATION	✓
SENCON CONTROL AND DIAGNOSTIC SYSTEM	✓
OPTIONS	
AIR-CONDITIONED SEAT	✓
RADIO	✓
COOLING BOX FOR FOOD AND DRINKS	✓
LOUD SPEAKER SYSTEM	✓
SUN PROTECTION PACKAGE	✓

ALWAYS THE RIGHT VIEWING ANGLE

Depending on the version of the EQ G Balancer, you can see the entire harbor, scrap yard or log yard at a height of up to 15 m. Thanks to a sophisticated system of steps, ascents and railings, access to the cab and maintenance points on the uppercarriage is safe and comfortable.





PROFESSIONAL FLEET MANAGEMENT

SENtrack

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 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.”

MAINTENANCE AND SERVICE.

KEEP IT SIMPLE. WITH MANAGEABLE TECHNOLOGY.



Reliable and practical technology makes life easier. We rely on hydraulics, electrics and electronics only where they provide the greatest benefit.



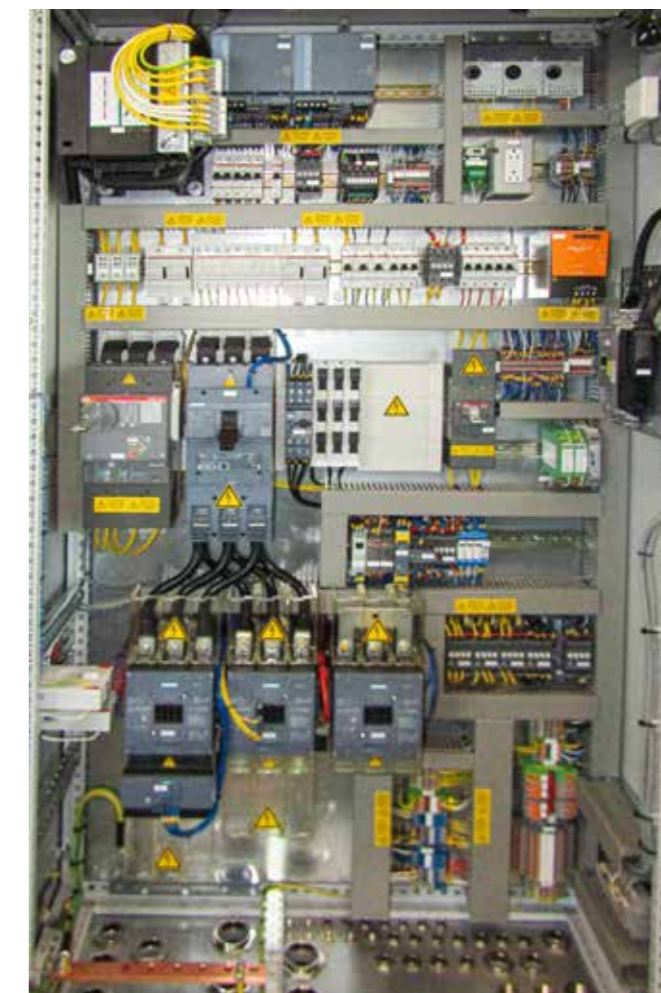
We make you happy, not reliant. With cost-effective components and fewer process steps, you can take care of your own machine.



The central electrical distributors and electronic modules facilitate maintenance and service, and are protected against environmental influences thanks to the large-scale e-box.



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) EQ G Balancer

ELECTRIC DRIVE

TYPE up to 315 kW, standard with 400 V / 50 Hz

OPTIONS Transformer

Cable reel

TANK CAPACITIES

HYDRAULIC TANK 900 l

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, very service-friendly design with walk-in powerpack, folding maintenance roof and engine installed in the longitudinal direction

COOLING SYSTEM Cooling system with demand-driven fan control, hydraulic oil cooling, hydraulically driven, thermostatically controlled incl. fan reversal; thermostatically controlled power pack ventilation (overpressure system)

OPTIONS LED lighting package

Swing bearing brake via foot pedal

Fire extinguisher

Maritime climate paint

Low temperature packages

Electrical hydraulic tank preheating

Magnet generator 20/25 kW

HYDRAULIC SYSTEM

Load-sensing/ LDUV hydraulic system, electronically operated work functions

DELIVERY RATE up to 2 x 390 l/min

OPERATING PRESSURE up to 340 bar

CONTROL SYSTEM Proportional, precision electrical control of work movements, 2 joysticks for work functions, additional functions via switches and foot pedals

SAFETY Hydraulic circuits safeguarded with safety valves

Pipe fracture safety devices

Load torque warning with capacity display

Emergency lowering of the equipment in case of engine standstill

OPTIONS Overload safeguard with shutdown

Tool control for programming pressure/ rate of up to 10 tools

Bio-oil filling

SLEWING DRIVE

GEARBOX Planetary gear with bent-axis hydraulic engine, integrated brake valves

PARKING BRAKE Spring-loaded multi-disk brake

SLEWING RING Externally toothed, with pinion lubrication

SLEWING SPEED 0-2.5 rpm, variable

HEAVY DUTY MODE

Heavy-lift system as standard equipment

TECHNICAL DATA, EQUIPMENT

CAB

PORTCAB

CAB TYPE Portcab 2.0

CAB FEATURES SENNEBOGEN Portcab 2.0 - large port cab with excellent all-round visibility, large full-view windshield without obstruction of vision, extremely powerful heating/air conditioning system with 14 adjustable air jets

Air-suspended comfort seat, seat belt, additional trainer's seat, control elements in accordance with the latest ergonomic standards, control and diagnostic system SENCON

OPTIONS Polycarbonate windshield

Safety side window and rear window

Polycarbonate safety glass

Wipers for right side window

Sunblinds on the side windows

Loudspeaker system with swan neck microphone

Radio

Cooling box

Sun protection for side windows

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

TRAVEL SPEED 0 - 1.3 km/h

4-POINT-PEDESTAL

Robust 4-point-pedestal for maximum stability and work safety for stationary work, e.g. when loading scrap shears

RAIL GANTRY

Custom-manufactured rail undercarriage, dimensions according to customer requirements. With rail sweep, bumper, storm lock, travel alarm and end position switch-off

EQUIPMENT

REACH up to 42 m

CYLINDERS Hydraulic cylinders with high-quality sealing and guide elements, end position damping, sealed bearing points, bearing points with high-quality bronze bushes, automatic central lubrication

OPTIONS Safety Boom Lift for equipment

additional LED lighting

Stick mounted camera

OPERATING DATA

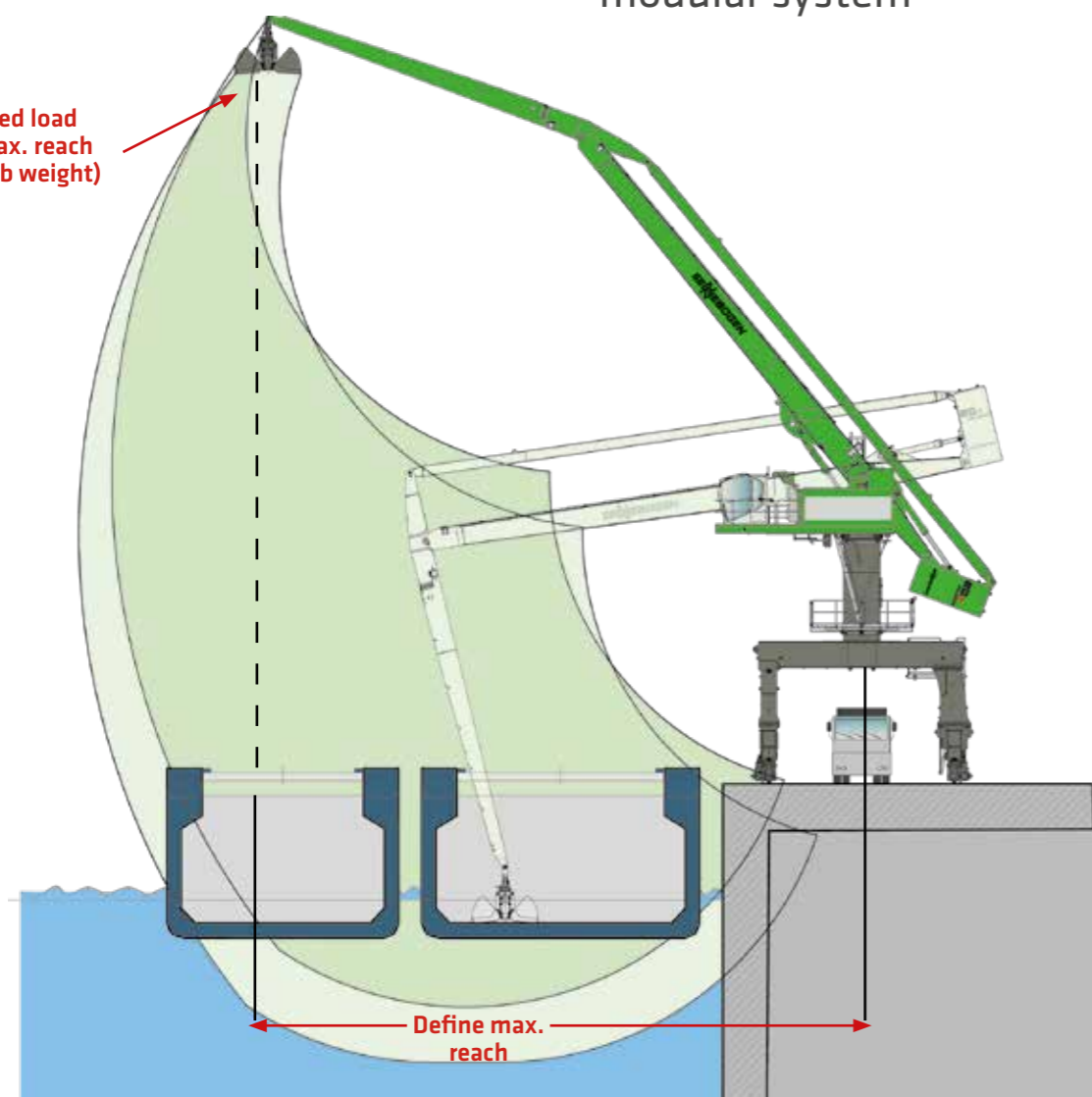
OPERATING WEIGHT **from 117 t to 370 t**
depending on machine type, equipment length, undercarriage version, pylon and attachment.



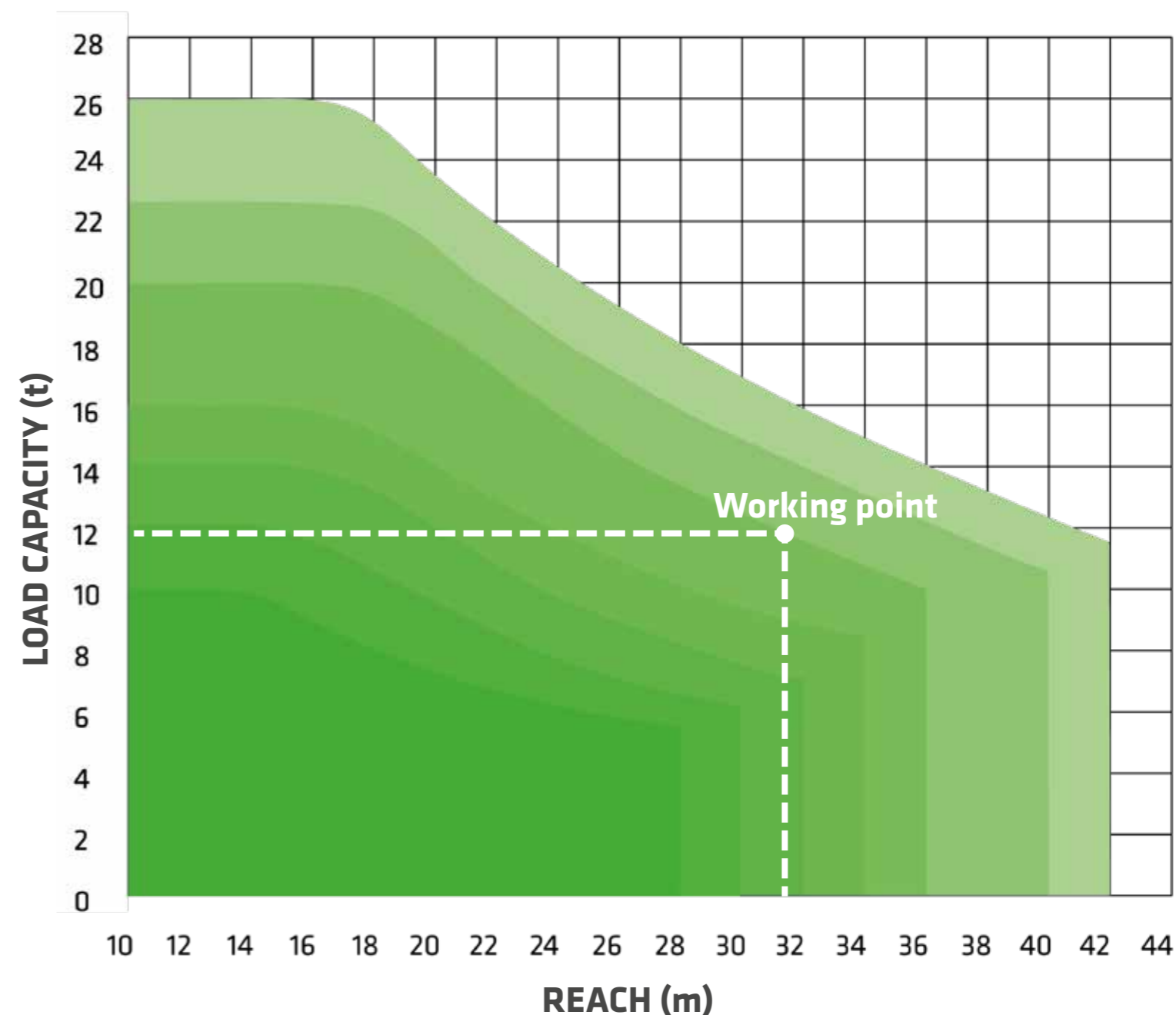
HOW DO I FIND THE RIGHT BALANCER FOR MY APPLICATION?

Together with you, we develop the optimum configuration from our modular system

Define intended load capacity at max. reach (including grab weight)



Performance curves of the EQ G Balancer range



The right solution for every application: If your working point is within the green area, we can design an EQ G Balancer that is perfectly tailored to your needs.

WIDE RANGE OF SOLUTIONS FOR SCRAP YARDS, SAWMILLS & PORTS

LARGE WORKING AREAS, LOW OPERATING COSTS

Thanks to the enormous range of up to 42 m equipment length, you can optimize your logistics processes, whether in the scrap yard, sawmill or port. Thanks to its high handling rates and robust design, coupled with the efficiency of the electric drive, you save money in your daily operations. Combined with the EQ Balance principle, you can significantly reduce your operating costs by up to 75% compared to similar diesel-powered material handlers.

Throughout the entire life cycle, you benefit from a long service life, less maintenance and inexpensive spare parts directly from the manufacturer.



AT THE SCRAP YARD

- One machine for a wide range of tasks: Loading/unloading, sorting, shear loading
- 1 balancer replaces up to 3 other material handlers
- Space-saving solution: Raised and positioned with pylon extension, storage spaces can be conveniently arranged around and below the machine



WOOD INDUSTRY

- Can also be used in environmentally critical areas thanks to emission-free electric drives
- Covers enormous ranges: ideal for larger industrial plants or log yards



PORT APPLICATIONS

- A wide range of applications
- Bulk material handling up to the Panamax class
- Transshipment solutions



- Covers huge work areas

With a crawler or rail undercarriage, the EQ Balancer becomes mobile and extends its working range conveniently along the travel path

Sample calculation:

40 m range
100 m travel path on the quay
=> 13,000 m² of effectively used space

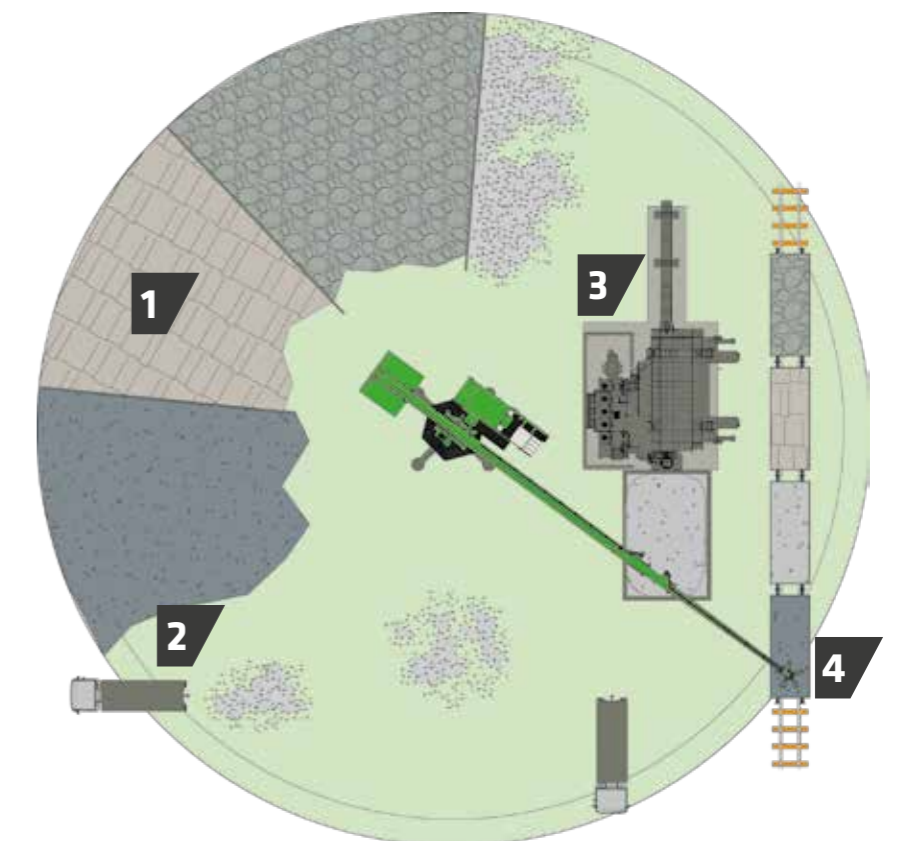
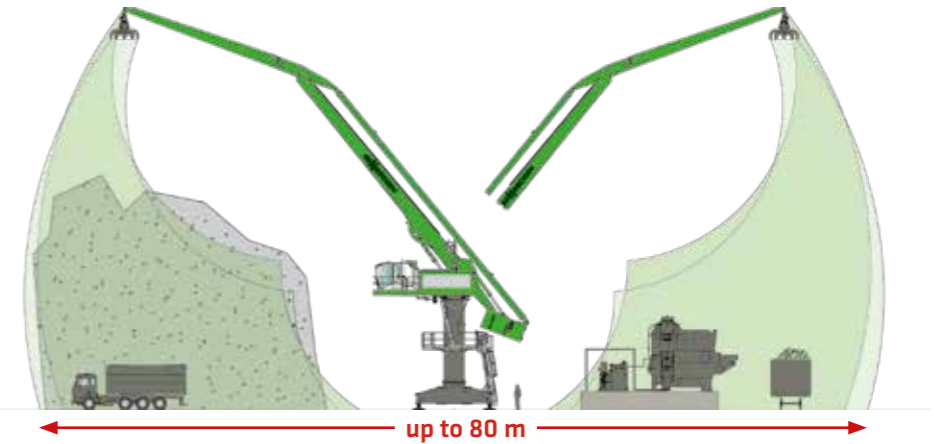


KEY PLAYER ON SCRAP YARDS

The EQ Balancer is at the heart of your scrap yard: it unloads delivering trucks with just a few grab loads, places the material precisely in the storage areas and feeds the press or shears that shred the material. Its electric motor makes it ideal for time-critical process steps: always ready to use, fewer maintenance stops, easy to handle.



Cover up to 5030 m²
of work area!

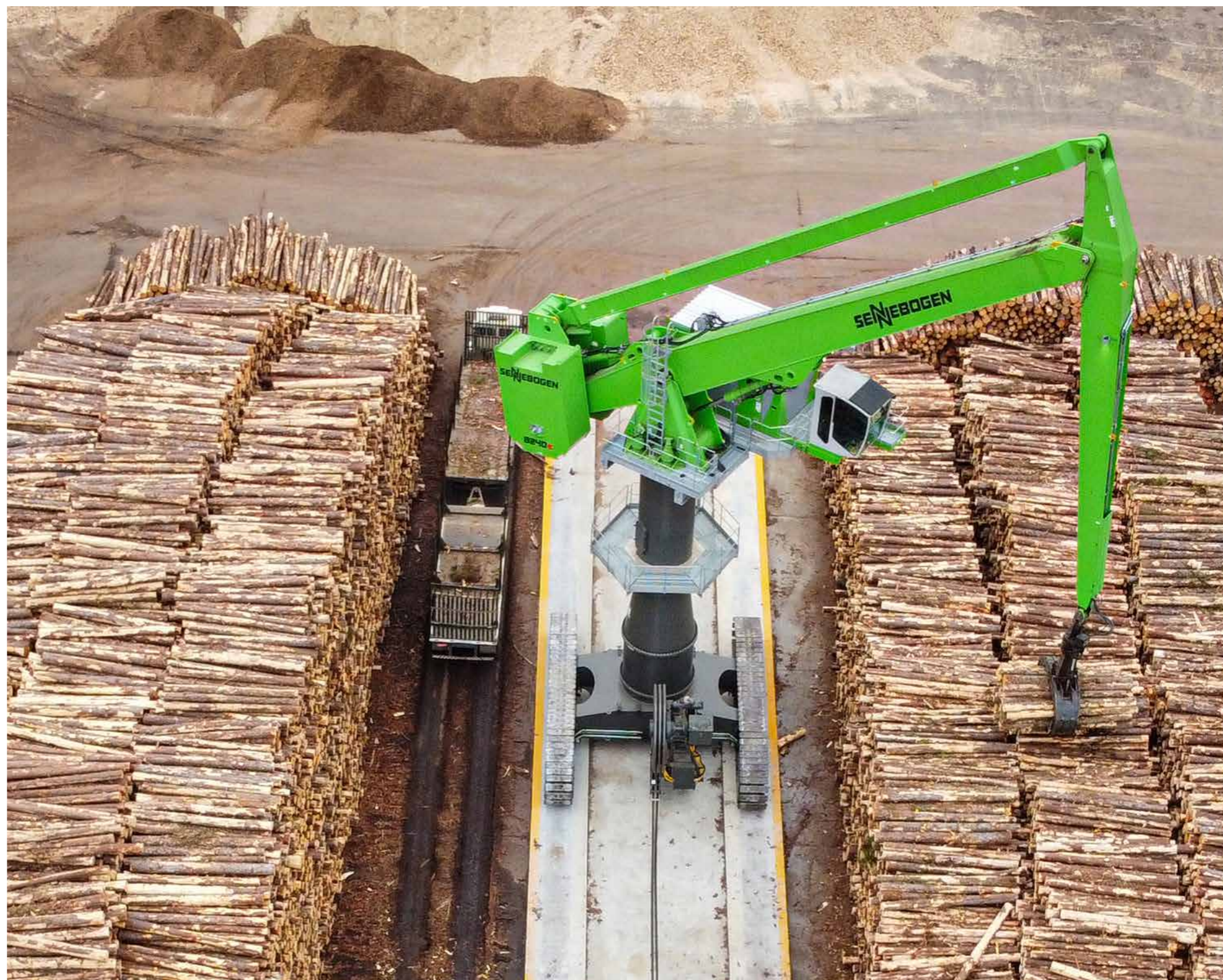
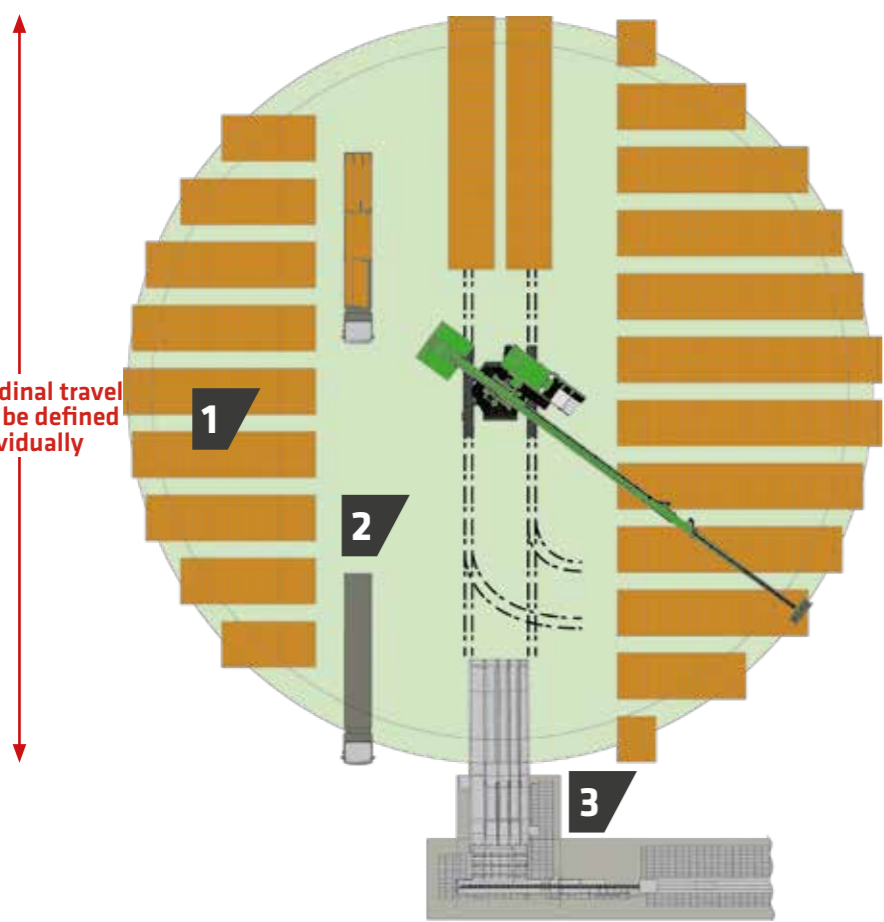
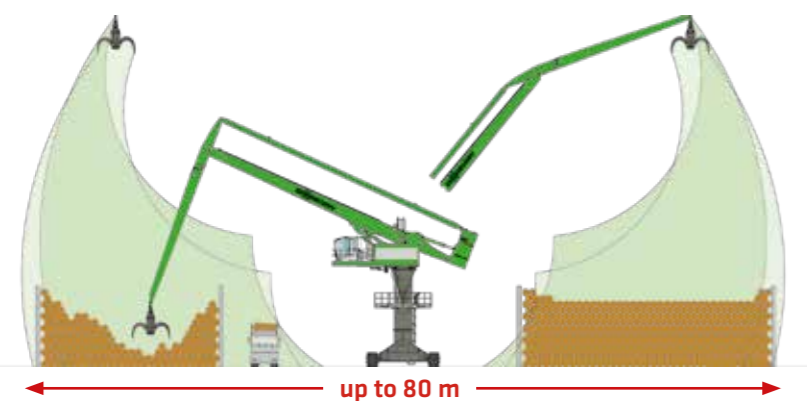


- 1 Storage areas
- 2 Unloading trucks

- 3 Loading the press
- 4 Loading/unloading the wagon

HEART OF THE SAWMILL

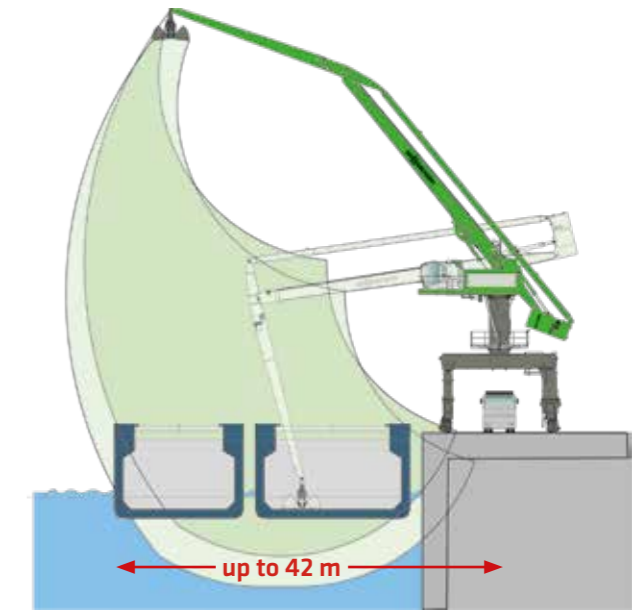
Storage space logistics with just one machine!



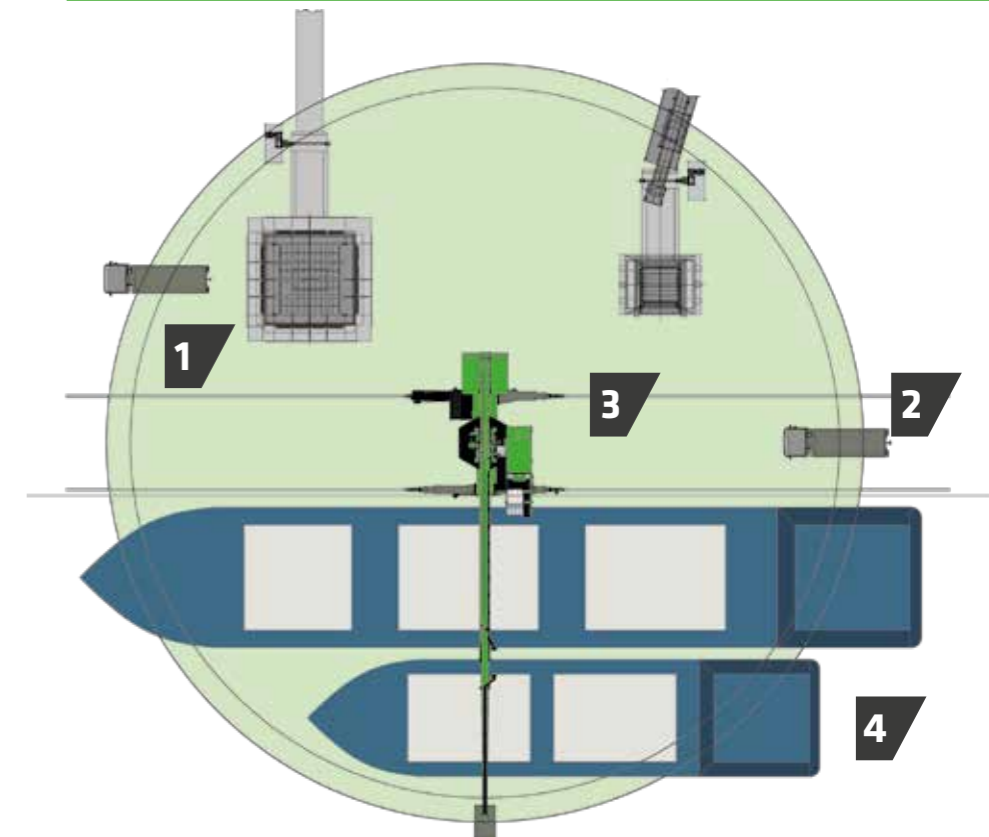
- 1** Log yard
- 2** Unloading trucks
- 3** Loading the saw

ANCHOR POINT OF THE PORT

The EQ G Balancer is a popular solution, especially for bulk handling at sea or inland ports. It carries out central logistics tasks on the quayside, such as loading and unloading the docking ships, filling hoppers and conveyor systems, and storage. Thanks to undercarriage options such as customer-specific rail gantries, it can be easily adapted to the existing infrastructure on site and thus remains flexible for use through the entire quay.



**Wide range, extensive applications:
Ship-to-ship cargo loading, hopper
or ship loading**



- 1** Conveyor system
- 2** Truck loading
- 3** Rails
- 4** Transshipment solution



“The SENNEBOGEN EQ Balancer is the heart of our logistical concept for feeding the log chopping system and the associated conditioning basins. Thanks to its central position, the entire plant can be conveniently monitored and controlled from the driver’s cab. The combination of electric drive and balance technology convinced us right from the start – that’s energy efficiency par excellence.”
Production Manager Rainer Moog – Pollmeier Holzwerke Creuzburg (Thuringia)

Stationary EQ Balancer in Germany



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 **71** years of experience

100% family company

over **2200** experienced specialists worldwide

5 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 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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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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