



875E

GREEN HYBRID MATERIAL HANDLER



Cummins X15, Tier 4F
524 HP (391 kW)



Rubber Tired (M) - 374,785 lb (170,000 kg)



Crawler (R-HD) - 319,880 lb (145,095 kg)

PURPOSE-BUILT – TO SUIT **YOUR** PURPOSE

We're building smarter, to build *your* business.

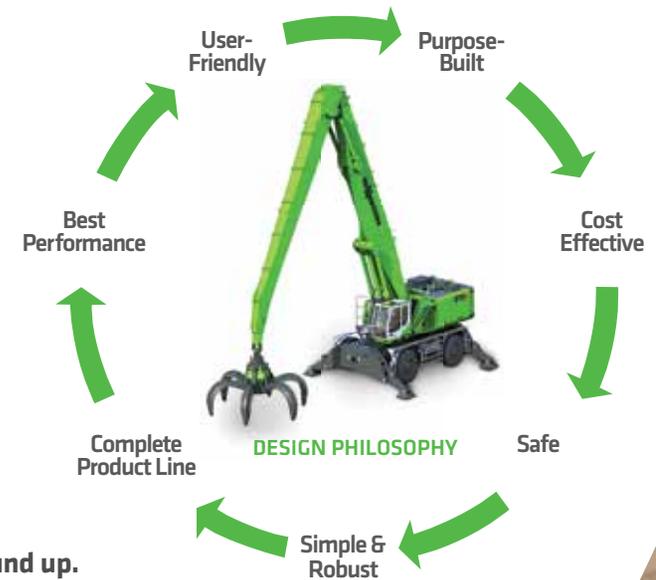
Every SENNEBOGEN material handler begins with you, our customer, and the challenges you face every day. Our singular focus leads us to the simplest, most efficient engineering solutions.

With our Green Hybrid series of purpose-built material handlers, we're meeting our commitment to help you move more material, safely, at a lower cost:

- Innovative energy recovery system saves costs with every lift
- Interchangeable components across multiple platforms
- Industry standard parts for service & repairs
- Intelligent hydraulics in place of complex electronics
- Robust structures matched to heavy loads and stresses

Now in our third generation as a family-owned business, SENNEBOGEN takes pride in taking a personal interest in the needs of our customers. By listening and responding to their requirements, we have continually delivered the world's best material handling solutions since 1952.

When you purchase a SENNEBOGEN machine, you'll know it was purpose-built for you, **from the ground up.**





Lift More. Pay Less.

SENNEBOGEN innovative Green Hybrid energy recovery system **saves energy costs** every time it lifts a load. But it offers more savings too.

Material handlers equipped with the Green Hybrid energy recovery system, starting with the SENNEBOGEN 875, will **outlift conventional machines**, and they do it with less horsepower. As a result, you can now **replace larger equipment** in your fleet with a smaller Green Hybrid machine, and still meet the same goals for lift capacity, throughput and cycle time.

QUICK SPECS

875 M RUBBER TIRED

875 R-HD CRAWLER TRACKS

Net Power

524 HP (391 kW)

524 HP (391 kW)

Operating Weight

374,785 lb (170,000 kg)

319,880 lb (145,095 kg)

Magnet System

33 kW

33 kW

Max reach

95'2" (29.0 m)

95'2" (29.0 m)



Power

With its engineered efficiency and Green Hybrid energy recovery system, the 875 reduces operating costs and your environmental footprint whether you choose diesel power, electric drive or a combination of the two.

For reliable performance and ease of maintenance, SENNEBOGEN diesel machines are powered by industry-preferred Cummins engines.

Cab Configurations and Elevations

The elevating Maxcab, now with bulletproof windshield and skylight as standard equipment, allows an unobstructed view in all directions for increased safety and productivity, even under harsh and adverse conditions.

Optional features include:

- Windshield protective guard
- Skylight protection guard and/or FOPS guard
- Floor window

Cabs

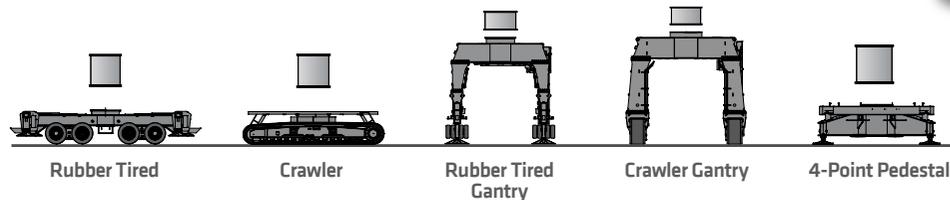
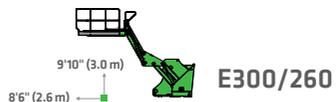


Maxcab Industry



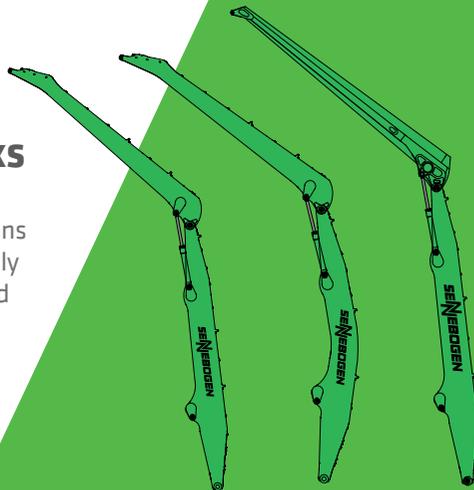
Mastercab

Cab elevations



Booms and Sticks

A wide choice of powerful boom and stick configurations allows the 875 to adapt easily to match the specific lift and reach requirements of your operations.



Attachments

SENNEBOGEN grapples and magnets complete your purpose-built solution with the same reliability as our 875 material handling machines. Your machine will also accept a full range of standard attachments from all brand-name manufacturers including:



Orange peel grab



Clamshell grab



Magnet plate



Timber grab

SENNEBOGEN magnet systems are powered by Baldor generators with Hubbell controllers

Platforms

The modular design of the 875 adapts easily to any required mounting for gantries, rail cars, barges and ship applications.





UNDERCARRIAGE

■ Stable footprint

The centered point of rotation for the swing bearing allows for 360° equal lift capacity

■ Swing system

The large-diameter slewing ring provides excellent cycle times and swing torque for large loads

■ Multiple platforms

The modular 875 is designed to adapt to standard wheeled, tracked and pedestal mounts

CAB

■ Elevating Maxcabs

Various cab configurations maximize safety, loading accuracy and stability. Optionally available with an elevated fixed cab

■ Joystick steering

Unobstructed view for operator with highly responsive controls

■ SENCON

Advanced diagnostic system with user-friendly multicolored interface, available in multiple languages

■ Entry/exit

Maxcab sliding door with permanent catwalk for safe, easy entry and exit

■ Superior visibility

Large bulletproof glass front window and skylight as well as large side windows supplemented by 2-camera system are standard. Also available with glass floor

HYDRAULIC SYSTEM

■ Purpose-built design

Fully hydraulic controls require no special software to troubleshoot

■ Hybrid Technology

SENNEBOGEN's exclusive Green Hybrid captures energy on each downstroke of the boom, and releases it as "free" load-lifting power on each upstroke

■ HydroClean filtration

3-micron oil filtering with 99.95% efficiency absorbs water, prevents acid generation

■ Convenient servicing

All test ports are easily accessible in one place

UPPER CHASSIS

■ Upper carriage

Guarding surrounds upper deck to enhance safety for service technicians

■ One-piece center frame

Optimizes distribution of stresses and machine balance from boom pivot to counterweight

■ Reversible fan

Closed circuit drive with axial displacement pump allows fast change between normal and reverse

■ OSHA-compliant

Continuous 3-point contact access to upper deck with handrails and guarding from ground to cab

■ Longitudinal engine mount

Allows safe and easy access and unequalled fuel efficiency due to efficient cooling

■ Automatic lubrication

Extend component life with no waste, no spill hazards

BOOM & STICK

■ Limit switches

Limit switches on the boom and stick cylinders prevent high pressure peaks to provide a cushion for rod movement and prevent attachments from colliding with the cab

■ Boom pivot

Purpose-designed boom mounting point on the chassis for enhanced balance and lifting capacity

■ Cylinder protection

The boom and stick have been designed specifically for material handling applications. Hydraulic cylinders are mounted and protected by an open box frame to ensure uptime

SAFETY

■ Safety rails

Full guarding on upper decks provide safety for technicians on North American models

■ Fuses and relays

All fuses and relays are clearly labeled and easily accessible in a centrally located terminal box

■ Sliding door

The door slides open for safe ease of entry and exit from the cab

■ Bulletproof glass

Bulletproof windshield and skylight are standard on all new SENNEBOGEN models

Bulletproof windshield and skylight are now standard on all new SENNEBOGEN material handlers.

HEALTH & SAFETY: THE FIRST STEP TO PRODUCTIVITY

Various optional guarding packages available to meet industry safety requirements.



SENNEBOGEN is renowned as the industry leader in preventing downtime, and in protecting people.

Safety-conscious producers look for equipment that prevents liability costs and protects their most valued assets. SENNEBOGEN works closely with the operators and technicians who know our equipment best, and we listen to their ideas to make our machines the safest on any jobsite.

That's why ease of access, ground-to-cab guarding, sliding door cab entry, 360° visibility, battery disconnect switch and travel alarm are all standard features of your 875.

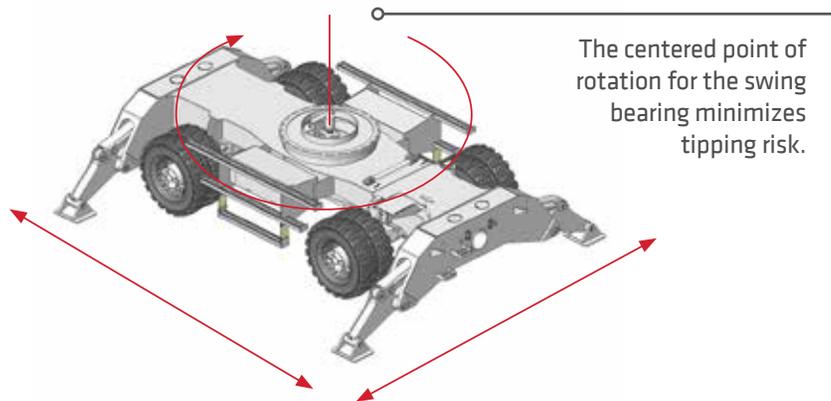
Handrails around the upper deck and anti-slip walking surfaces provide a safe working environment for service and maintenance crews.

All daily service is completed with easy access to all maintenance points.



Safe access to the upper deck is achieved with a permanent 3-point contact ladder with railings.

Accessible safety switches including emergency shut-off, battery disconnect and travel alarm.



The centered point of rotation for the swing bearing minimizes tipping risk.

Dual cameras with views to the rear and to the right side are standard equipment.

Maxcab's sliding door and guarded permanent catwalk provide the safest entry and exit in the industry.



Optional Mastercab's maximized window area (shown) and elevating mount give the operator an unobstructed wide-angle view of the work zone.

Intuitive joystick controls connect the operator seamlessly to the industry's most responsive hydraulic system for precise, easy handling.

Ergonomic comfort and climate control features keep operators alert, adapting to individual preferences to fight fatigue through long shifts.



BEYOND THE MACHINE

SENNEBOGEN is on a mission to deliver the lowest Total Cost of Ownership with the industry's best in aftersale service. Expert technical support, available parts and qualified servicing translate into less downtime and more productive years on the job.

- Our 100,000 sq. ft. (9,300 m²) headquarters in Stanley, NC is a multipurpose facility dedicated to supporting customers "beyond the machine."
- Our coast-to-coast network of factory-trained distributors and technicians sets the industry standard for outstanding field service.
- SENNEBOGEN application specialists provide customers and dealer sales staff with expert insight into the unique challenges.
- Our in-house engineering services respond quickly to customer needs for unique solutions.

The largest inventory of material handler parts in the Americas ensures fast delivery for repairs and service to every fielded SENNEBOGEN machine currently in operation.

**98% ORDER FULFILLMENT
WITHIN 24 HOURS**



TRAINING CENTER OF EXCELLENCE

The dedicated Training Center in our North American head office complex provides primary and advanced courses. Offered free of charge for our dealers and their customers, the Training Center has working units, demonstration modules and is staffed with professional trainers each with many years of in-field experience and hands-on knowledge.

Purpose-built For America's Best-Trained Technicians

The main demonstration bay allows hands-on access to machines while the meeting rooms and classrooms are all equipped with the technology required for today's interactive instruction methods.

Truly a Center for developing excellence in service and support for dealer and customer personnel, the SENNEBOGEN Training Center has earned accolades for the quality of the instructors, facilities and materials.

Free Training Courses Include:

Service • Parts Training • Tree Care • Operator Familiarization

Visit us online at
www.sennebogen-na.com/training



5 Day Courses

Service Level 1

Class Size: 8 Students

Required: Basic Technical Knowledge

Course Content:

- Machine Safety, Operation & Functions
- Preventive Maintenance
- Read & Understand Hydraulic & Electric Schematics
- Basic Troubleshooting:
Magnet System, Hydraulics, Electrics

Service Level 2

Class Size: 8 Students

Required: Completion of Level 1 Class

Course Content:

- Remote Troubleshooting
- Component Training & Repair
- Failure Analysis
- In-Depth Troubleshooting:
Magnet System, Hydraulics, Electrics

Course fees: No charge to SENNEBOGEN dealers, staff and customers.

Courses offered in English and Spanish sessions

PROVEN UPTIME

To find out how to make SENNEBOGEN machines easier to maintain than any other material handler, we ask the experts...

... we talk to the technicians who actually service our equipment.

Our own support team, our instructors, our dealers and customers are all in constant contact to troubleshoot problems and find permanent solutions. Even our senior management and the Sennebogen family take a hands-on approach to product improvement, meeting customer mechanics and operators in their own shops and yards.

Their innovative ideas help us to deliver machines that spend more time on the job, and less time in the shop.

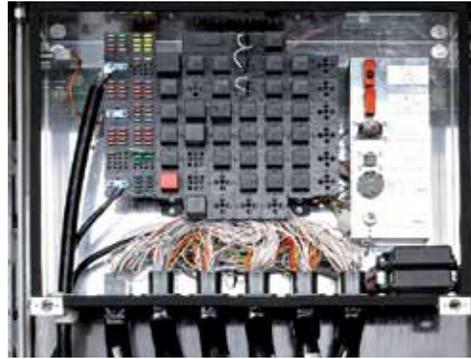


SENNEBOGEN Uptime Kits are matched to specific service tasks and machines. Hundreds of assorted parts, connectors, fittings and electrical components are easy to locate and access.

In the shop or in the field, these fully stocked kits bring together all the parts and material required for a specific service need, conveniently sorted and organized in one place.



Solid steel top-opening compartment access doors on the sides, top of the upper deck and above the engine compartment maintain a secure fit, even after repeated opening for service access.



All the fuses and relays are in a centrally located box for easy access.



Simple hydraulic controls replace complex electronics, so the 875 requires no special software or "black box" components to troubleshoot your machine.



The large reversing fan provides up to 45% more of the cooling surface than comparable machines.



SENCÓN

The advanced SENCÓN diagnostic and reporting system presents a multicolored user-friendly interface, now available in multiple languages.



With no bypass in the fluid circuit, SENNEBOGEN's HydroClean system continuously protects hydraulic components with industry-leading 3-micron oil filtration.



Automatic central lubrication, standard on all SENNEBOGEN machines, saves servicing time every day while improving component life cycles.

BIG SAVINGS

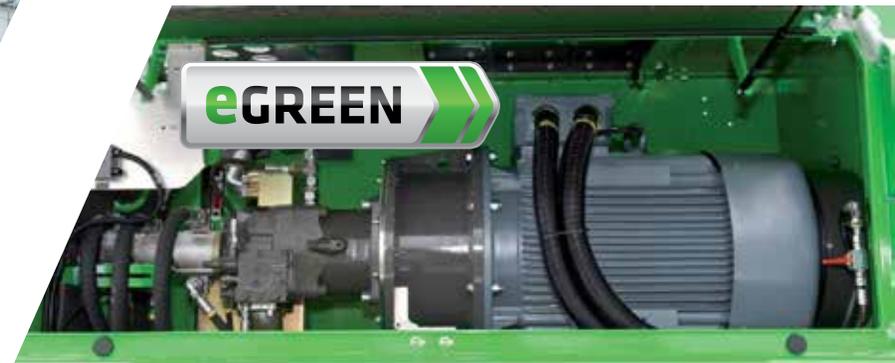
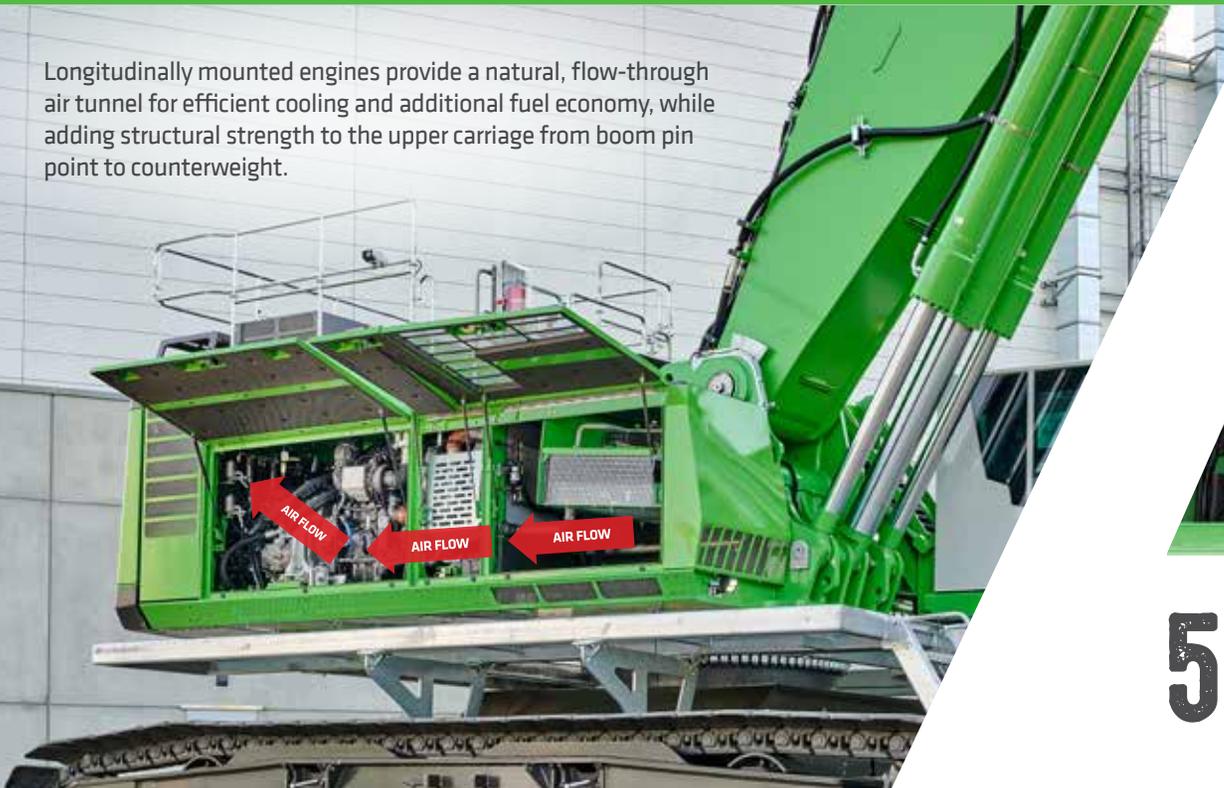
“Green Efficiency” powers a new generation of machines that reduce operating costs through every working hour and on every lift.

All SENNEBOGEN E-Series machines are built on layers of smart engineering and system innovations aimed at doing more with less. Our “Green Efficiency” solution combines with multiple design features that utilize power more effectively to achieve **savings of up to 50%** compared to traditional diesel-fueled machines.

Longitudinally mounted engines provide a natural, flow-through air tunnel for efficient cooling and additional fuel economy, while adding structural strength to the upper carriage from boom pin point to counterweight.



Optional eGreen electric-drive systems reduce energy costs up to 50%; reduce vibration wear and maintenance cycles; eliminate refueling stops.



50% LOWER OPERATING COSTS WITH SENNEBOGEN ENERGY SOLUTIONS

LITTLE FOOTPRINT

Tier 4F engines, efficient hydraulics, Eco-mode controls and electric drive options mean low noise and emissions for eco-friendly material handling.

REDUCE ENERGY COSTS BY 30% WITH GREEN HYBRID TECHNOLOGY

By utilizing power more efficiently, the 875 will outlift larger conventional machines while it consumes **30% less energy** and reduces emissions.

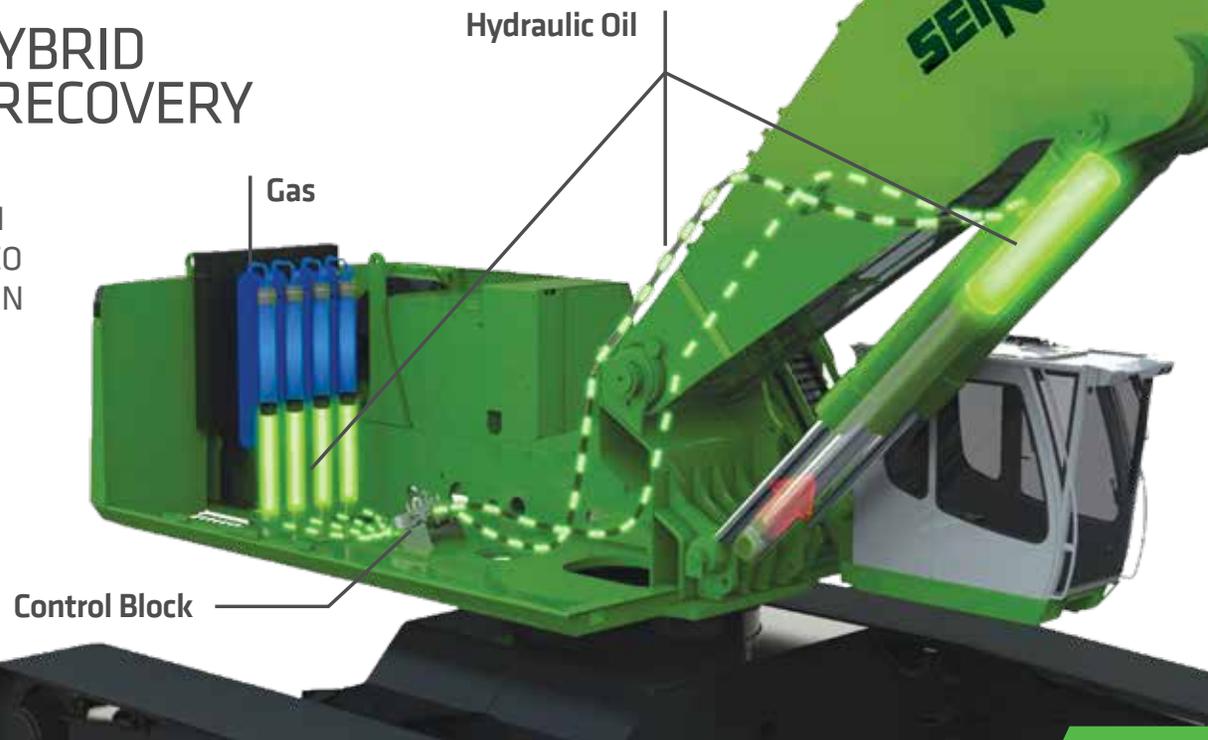
- Vertical boom movements generate potential energy
- Recovery cylinder captures energy in gas accumulators
- Released energy supports the boom through the next lift cycle
- Simple, safe energy recovery with no electronics

Eco-mode engine control automatically reduces engine speed to 1800 rpm.

Operating ECO Mode	Automatic Idle		Stop
			
2000 ECO min ⁻¹	1800 min ⁻¹	800 min ⁻¹	0 min ⁻¹
0 s	5 s	8 s	5 min

GREEN HYBRID ENERGY RECOVERY SYSTEM

SCAN TO WATCH AN ONLINE VIDEO DEMONSTRATION

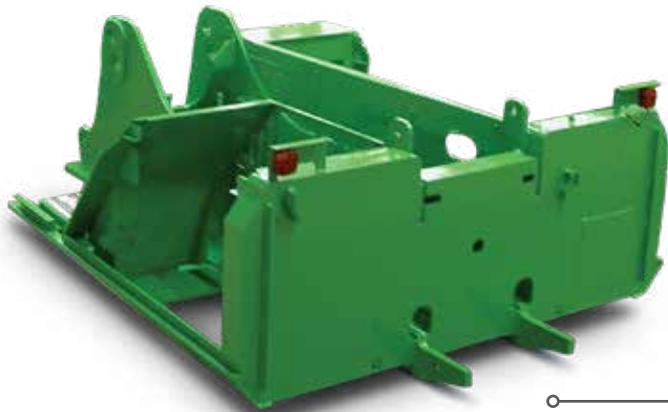


ATTENTION TO DETAILS MAKES US STRONGER

Strong-and-smart SENNEBOGEN machines stand up to your toughest and grittiest work environments.

Reliability and durability are engineered into the details of your 875, from heavy-duty structural components to natural flow-through engine cooling. Each of SENNEBOGEN's manufacturing, fabrication and assembly facilities is ISO-certified to deliver the same outstanding quality in every machine, every time.

By going to work every day, and staying on the job year after year, your 875 is built to deliver the best return on your equipment investment.



Dual motors extend swing system life while improving cycle times and torque.

The swing bearing is equipped with automatic lubrication to withstand extreme 360° duty cycle operation.

A continuous flange ring reduces stress and improves distribution of swing loads to the undercarriage.

The upper carriage is built around a large, continuous one-piece center frame for added structural strength and improved air flow.

Fully hydraulic controls require no special software to troubleshoot and all test ports are easily accessible in one place.



Fabricating booms and sticks in our own shops lets SENNEBOGEN eliminate welding stresses inside the box structure and maximize service life.



Low-vibration engine mounting reduces wear on components and lowers sound levels.



SEE HOW OUR QUICK
COUPLER ADAPTS
THE 875 TO ANY LOAD,
EASILY AND QUICKLY



Built on SENNEBOGEN's renowned expertise with intelligent hydraulics, the 875 and its Green Hybrid system minimize the need for delicate electronics and computers, preventing their related failures and the associated downtime in harsh environments.

PURPOSE-BUILT FACILITIES

With nearly 1,000,000 sq. ft. (93,000 m²) of production space in our four manufacturing facilities in Europe, every step of production at SENNEBOGEN is planned to serve individual customer needs. Every critical component and process is completed in-house to assure quality, efficiency and flexibility on the production line.

- We fabricate our own booms and sticks
- Our lineup is based on a full line of interchangeable platforms
- Our plants are designed to customize each machine, built-to-order
- Your machine is fully inspected and live-tested before it leaves the factory

Our four factories in Europe support the full range of capabilities for SENNEBOGEN to machine, fabricate and assemble all major components to our own standards, in-house.

(Pictured here is our main plant in Straubing, Germany)



Modular components used across multiple products allow SENNEBOGEN to deliver purpose-built machines competitively. Shared systems also streamline aftersale parts inventories for customers and their local SENNEBOGEN distributors.





Every configuration of a SENNEBOGEN begins as an identical machine up until the final stage of assembly. The unit is then mounted on your choice of undercarriage or platform, and completed with your preferred equipment and choice of cab.

SPECIFICATIONS INDEX

875 M “E”

Technical Specifications	20
Standard / Optional Equipment	21
Dimensions / Transport Dimensions	22-23
Lifting Capacities - B26	24

875 R-HD “E”

Technical Specifications	26
Standard / Optional Equipment	27
Dimensions / Transport Dimensions	28-29
Lifting Capacities - K21	30
Lifting Capacities - K29	31





Technical Specifications - 875 M “E”

ENGINE	
model	Cummins X15 FR118131
type	in-line, 6 cylinder, cooled exhaust gas recirculation, DPF diesel particulate filter water cooled
emission	EPA Tier 4F
net power	391 HP (292 kW) @ 1,800 rpm
injection	high pressure common-rail
aspiration	turbo charged, charge air cooled
fuel tank	555 gal (2100 L)
air filtration	direct flow filtration system dual stage filter with pre-filter
control	integrated ECM automatic idle - stop eco mode
HYDRAULIC SYSTEM	
system type	LUDV load sensing pilot pressure controlled open center
pump type	variable-displacement axial-piston pump
max. pressure	5,076 psi (350 bar)
hydraulic tank	370 gal (1400 L)
filtration	dual filtration system 3 micron (HydroClean)
COOLING	
cooling type	water cooled, charge air cooling, coolant cooling
hydraulic / water	hydraulic fan drive axial piston pump, reversible fan thermostatically controlled, closed loop system
charge air	direct fan drive

ELECTRICAL	
alternator	24 V, 105 A
starter	24 V, 9 kW
battery	2 x 210 Ah
lights	2 x cab roof, type halogen 2 x frame upper carriage, type H4
SWING SYSTEM	
swing speed	0 - 5 rpm
swing hydraulic	closed loop
drive	axial piston motor driving planetary gearbox, integrated brake valves
swing brake	multidisc brake, spring loaded
swing bearing	external teeth sealed triple roller bearing
UPPER CARRIAGE	
design	torsion-resistant box design, precision crafted, steel bushings for boom mountings. Service-friendly design, engine installed in the longitudinal direction
TRAVEL / UNDERCARRIAGE	
type	rubber tired MS210
drive	all-wheel drive powered by a variable-displacement hydraulic motor with direct-mounted, automatic brake valve and 2-gear power shift transmission planetary axles with integrated steering cylinder and dual-circuit service brake
speed	0-6 mph (0-9.6 kph)
tires	solid rubber 14.00-24 (16x)
parking brake	spring-loaded multidisc brake
steering	joystick steering
safety	travel alarm

REFILL CAPACITIES	
fuel tank	555 gal (2100 L)
engine cooling system	30 gal (115 L)
engine oil w / filter	12 gal (45 L)
hydraulic tank	370 gal (1400 L)
hydraulic system	488 gal (1850 L)
DEF (AdBlue) tank	27.7 gal (105 L)
slewing gear	3.33 gal (12.6 L) each
axle hub (front axle)	1.32 gal (5.0 L) each
axle hub (rear axle)	1.32 gal (5.0 L) each
differential	10 gal (38 L)
gear reducer	0.4 gal (1.5 L)
parking disc brake Type A	0.07 gal (0.25 L)
Type B	0.15 gal (0.60 L)
pump distributor gearbox	2.25 gal (8.5 L)
slewing ring lubrication reservoir	0.26 gal (1.0 L)
central lubrication reservoir	14.08 lb (4 kg)
WEIGHT	
operating weight	374,785 lb (170,000 kg)
MAGNET SYSTEM	
rating	25/33 kW
voltage (magnetized)	230 V
current (cold condition)	137.5 Amps
controller	Hubbell
generator	Baldor
drive	hydraulic

Subject to technical modification.

Standard / Optional Equipment - 875 M “E”

ENGINE

Water separator in fuel line	●
Automatic idle / engine stop control	●
Eco mode	●
Muffler	●
Visual fuel tank check	●
Engine block & water separator pre-heater	○

ELECTRIC

Battery disconnect switch	●
Centralized fuse box	●
Battery jump start connection from ground level	●

HYDRAULIC

Pilot pressure controlled variable displacement pump	●
Thermostatically controlled cooling system	●
Centralized hydraulic test ports	●
Protection covers for pilot pressure control valves	●
3 micron dual filtration system	●
Load sensing, flow on demand hydraulic system	●
Optimized hydraulic pump regulation (GLR)	●
Visual hydraulic tank check from ground level	●
Attachments open, close & rotation hydraulics	●
Hydraulic tank shut off valve	●
Electrical hydraulic tank pre-heater	○
Biodegradable hydraulic oil	○
Hydraulic circuit for scrap shear	○
Additional hydraulic circuit slasher	○
Additional hydraulic circuits	○
Attachment return filtration filters (60 µm)	○

UPPER CARRIAGE

Rearview & right side view camera system	●
Automatic lubrication system	●
Anti-slip mats on walking area	●
Lockable side doors	●
Handrails on top of upper carriage	●
Mirror left side	●
Turning signal lights in upper carriage frame	●
Removable panels	●
Additional light package	○
Custom colors	○
Seawater paint coating	○

OPERATOR'S CAB (Maxcab Industry)

Hydraulic elevating up and out cab e300/260	●
Multi-adjustable, air suspended operator's seat	●
3" (76 mm) seat belt	●
Seat heater	●
Automatic climate control (heater / AC)	●
Air outlets w / defroster	●
Storage area for lunch box	●
Large cup holder	●
Fire extinguisher	●
Tinted windows with safety glass	●
Door window as sliding window	●
Radio with USB and SD port, MP3 and Bluetooth	●
Removable floor mat	●
SenCon diagnostic system	●
Multicolor monitor	●
Tilt out front window	●
Halogen light package on cab roof	●
Mechanical hour meter	●
Sliding door	●
Catwalk w / handrail	●
12 V / 24 V power outlet	●
Windshield wiper and washers	●
Emergency exit hammer	●
Safety lever	●
Sun shades	●
Interior lighting	●
Rain cover front window	●
Outside mirror	●
Optical and acoustic warning system	●
Positive filtered ventilation (pressurized cab)	●
Safety check valves for elevating cab cylinder	●
Foot rest	●
Bulletproof windshield	●
Bulletproof skylight	●
Windshield protection guard	○
Skylight protection guard	○
Skylight FOPS guard	○
Polycarbonate side windows	○
Additional light package	○
Fixed cab elevation	○
Operator's cab with floor window	○
Additional cameras	○
Spacious Mastercab	○
Skylift cab elevation (elevation 7 m or 9 m)	○

UNDERCARRIAGE

Heavy-duty designed material handling undercarriage	●
Solid rubber 14.00-24 (16x) incl. intermediate ring	●
MS210 undercarriage with integrated 4-point outrigger system	●
All wheel drive	●
Planetary axles with integrated steering cylinders	●
Travel alarm	●

WORKING EQUIPMENT

Purpose-built material handling boom	●
Green Hybrid energy recovery system	●
Purpose-built material handling stick	●
Attachment hydraulic line connections with ball valves	●
Safety check valves for stick cylinders	●
Safety check valves for boom cylinders	●
Cylinder end position dumping	●
Boom hoist limitation	●
Bronze bushings connected to automatic lubrication system	●
Stick limitation	●
LED light package boom	○
LED light package stick	○
Purpose-built material handling boom for scrap shears	○

MAGNET SYSTEM

Hydraulic driven generator	●
Magnet controller	●
Magnet suspension link	○

ATTACHMENTS

Orange peel grapple	○
Mag grapple	○
Clamshell	○
Magnet	○
Scrap shear	○
Power attachment	○
Pipe handler	○

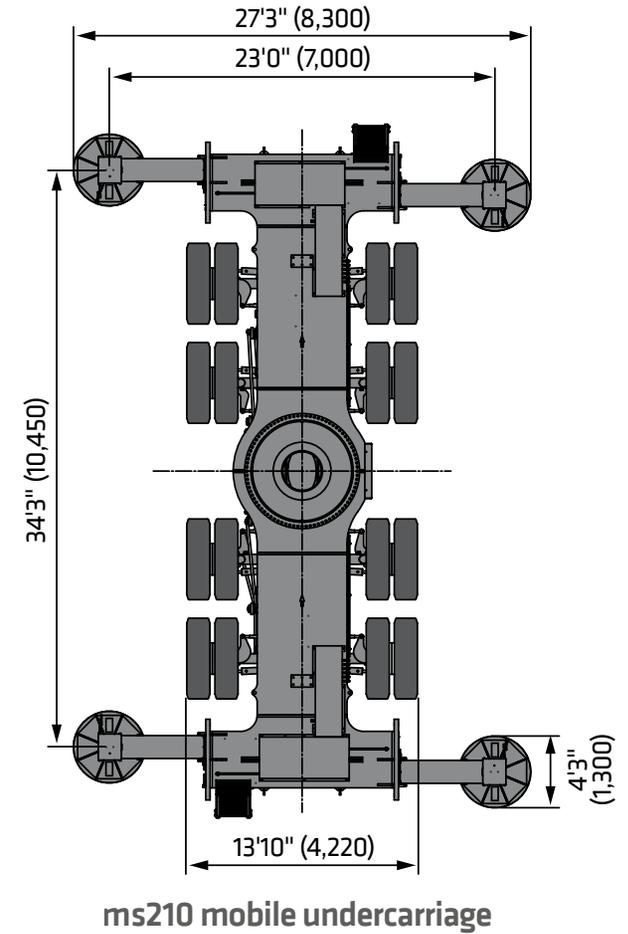
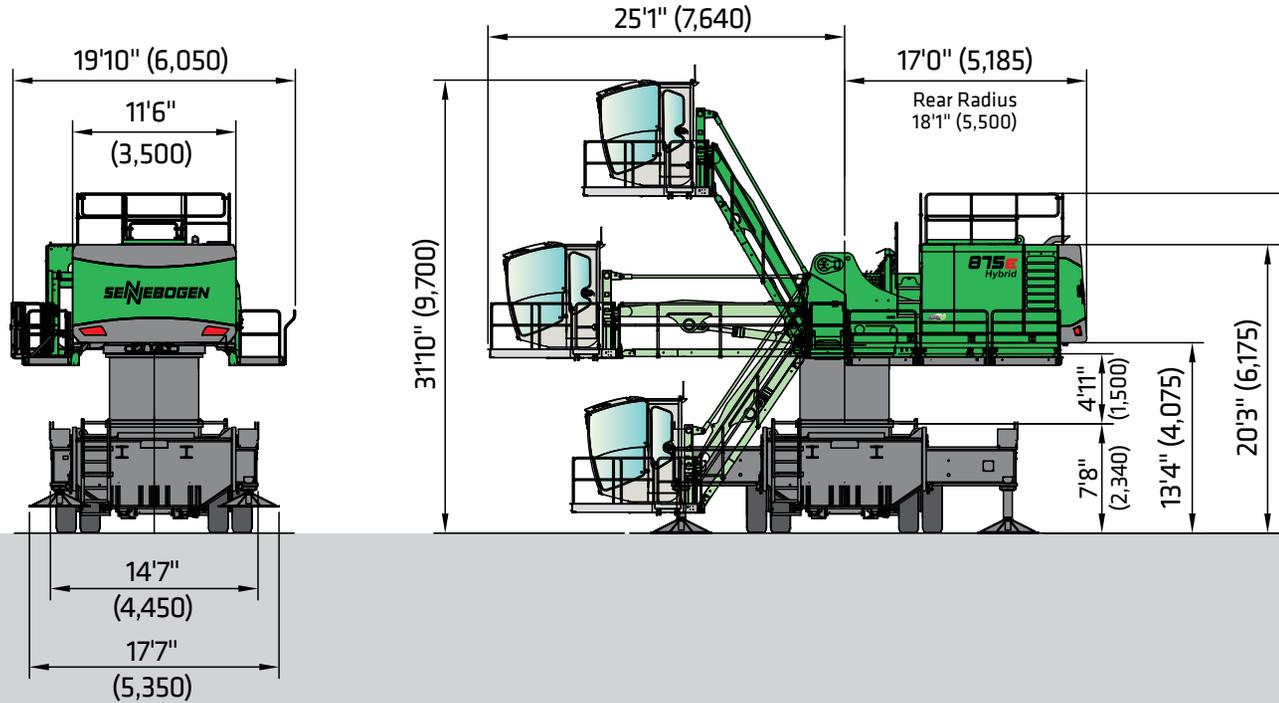
SWING SYSTEM

360° protection cover, removable	●
Electrical driven swing gear pinion lubrication pump	●

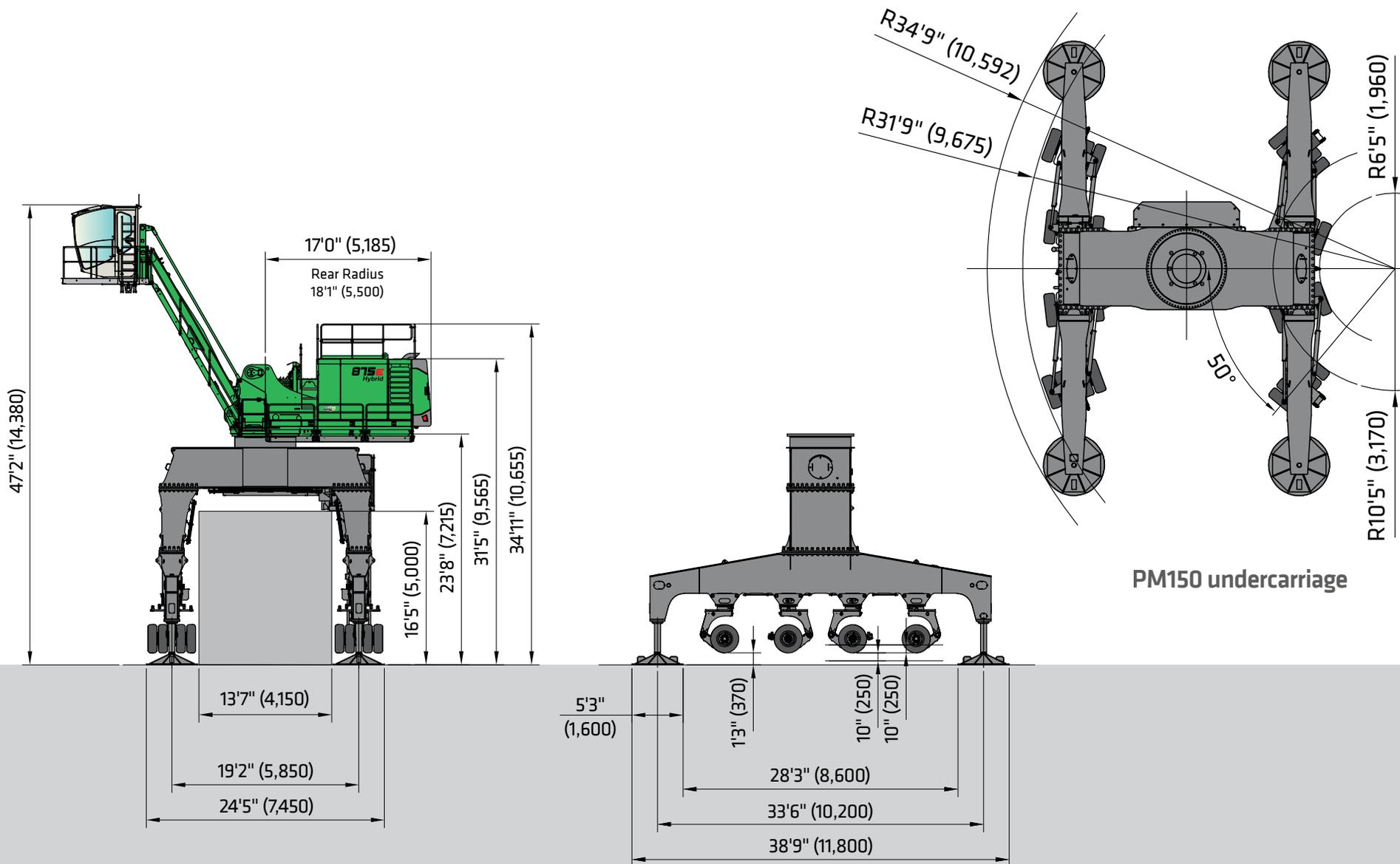
Standard Equipment ● Optional Equipment ○

Subject to technical modification.

Dimensions - 875 M "E"



875 M with ms210 undercarriage and skylift 700 with Mastercab, hydraulically elevating



875 M gantry with PM150 undercarriage and hydraulically elevating Skylift 900 cab elevation and Mastercab

Lift Capacities - 875 M "E"

Working Equipment B26

Reach	85'4" (26.0 m)
Boom	47'7" (14.5 m)
Stick	44'3" (13.5 m)

Operator's Cab

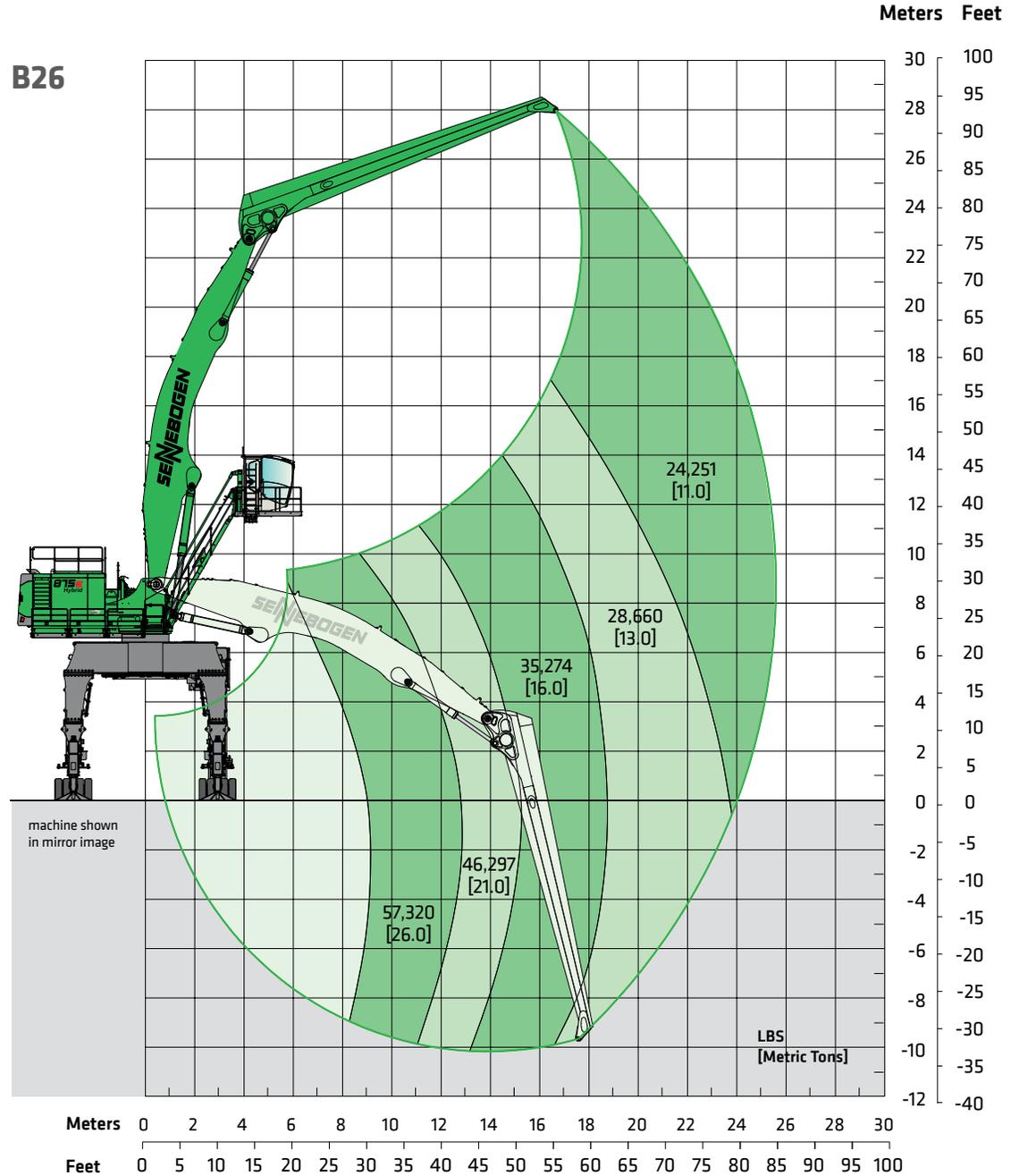
Model	Skylift 900 with Mastercab hydraulically elevating (option)
Eye level	approx. 45' (13.7 m)

Undercarriage

Model	PM150
Tires	16 x 14-24 solid rubber

Lift capacities are stated in pounds. Values in [] are stated in metric tons. Indicated figures are based on ISO 10567 and do not exceed 75% of tipping and 87% of hydraulic capacity and machine standing on firm, level supporting surface. Loads are valid for 360° with machine support outriggers. Lifting capacities do not include working equipment such as orange peel grapples, magnets, clamshells, etc. The load point is the center line of the attachment pivot mounting pin on the stick. Their weights must be deducted from the numbers indicated in the lift charts. Please contact SENNEBOGEN or your local dealer for optimum attachment selection. The operator/user of the machine should be fully acquainted with the operator's & safety manuals provided by SENNEBOGEN. Capacities apply only to the machine as originally manufactured and equipped by SENNEBOGEN.

B26





Technical Specifications - 875 R-HD "E"

ENGINE	
model	Cummins X15 FR118131
type	in-line, 6 cylinder, cooled exhaust gas recirculation, DPF diesel particulate filter water cooled
emission	EPA Tier 4F
net power	391 HP (292 kW) @ 1,800 rpm
injection	high pressure common-rail
aspiration	turbo charged, charge air cooled
fuel tank	555 gal (2100 L)
air filtration	direct flow filtration system dual stage filter with pre-filter
control	integrated ECM automatic idle - stop eco mode
HYDRAULIC SYSTEM	
system type	LUDV load sensing pilot pressure controlled open center
pump type	variable displacement axial piston pump
max. pressure	5,076 psi (350 bar)
hydraulic tank	370 gal (1400 L)
filtration	dual filtration system 3 micron (HydroClean)
COOLING	
cooling type	water cooled, charge air cooling, coolant cooling
hydraulic / water	hydraulic fan drive axial piston pump, reversible fan thermo-statically controlled, closed loop system
charge air	direct fan drive

ELECTRICAL	
alternator	24 V, 105 A
starter	24 V, 9 kW
battery	2 x 210 Ah
lights	2 x cab roof, type halogen 2 x frame upper carriage, type H4
SWING SYSTEM	
swing speed	0 - 5 rpm
swing hydraulic	closed loop
drive	axial piston motor driving planetary gearbox, integrated brake valves
swing brake	multidisc brake, spring loaded
swing bearing	external teeth sealed triple roller bearing
UPPER CARRIAGE	
design	torsion-resistant box design, precision crafted, steel bushings for boom mountings. Service-friendly design, engine installed in the longitudinal direction
TRAVEL / UNDERCARRIAGE	
type	crawler R147/580
system	mechanical, extendable tracks
drive	independent driven by an axial piston motor through a compact planetary
travel speed	0-1.3 mph (0-2.1 km/h)
shoes	flat grouser shoes, 3'3" (1,000 mm)
crawler	B9HDS
steering	joystick steering
safety	travel alarm

REFILL CAPACITIES	
fuel tank	555 gal (2100 L)
engine cooling system	30 gal (115 L)
engine oil w / filter	12 gal (45 L)
hydraulic tank	370 gal (1400 L)
hydraulic system	488 gal (1850 L)
DEF (AdBlue) tank	27.7 gal (105 L)
slewing gear	3.33 gal (12.6 L) each
pump distributor gearbox	2.25 gal (8.5 L)
slewing ring lubrication reservoir	0.26 gal (1.0 L)
central lubrication reservoir	14.08 lb (4 kg)
travel gear	
crawler gantry P156-5850	3.65 gal (13.8 L)
crawler R147/580	6.08 gal (23 L)
WEIGHT	
operating weight	319,880 lb (145,095 kg)
MAGNET SYSTEM	
rating	25/33 kW
voltage (magnetized)	230 V
current (cold condition)	137.5 Amps
controller	Hubbell
generator	Baldor

Subject to technical modification.

Standard / Optional Equipment - 875 R-HD "E"

ENGINE	
Water separator in fuel line	●
Automatic idle / engine stop control	●
Eco mode	●
Muffler	●
Visual fuel tank check	●
Engine block & water separator pre-heater	○
ELECTRIC	
Battery disconnect switch	●
Centralized fuse box	●
HYDRAULIC	
Pilot pressure controlled variable displacement pump	●
Thermostatically controlled cooling system	●
Centralized hydraulic test ports	●
Protection covers for pilot pressure control valves	●
3 micron dual filtration system	●
Load sensing, flow on demand hydraulic system	●
Optimized hydraulic pump regulation (GLR)	●
Visual hydraulic tank check from ground level	●
Attachments open, close & rotation hydraulics	●
Hydraulic tank shut off valve	●
Electrical hydraulic tank pre-heater	○
Biodegradable hydraulic oil	○
Hydraulic circuit for scrap shear	○
Additional hydraulic circuits	○
Attachment return filtration filters (60 µm)	○
UPPER CARRIAGE	
Rearview & right side view camera system	●
Automatic lubrication system	●
Anti-slip mats on walking area	●
Lockable side doors	●
Handrails on top of upper carriage	●
Mirror left side	●
Removable panels	●
Additional light package	○
Custom colors	○
Seawater paint coating	○

OPERATOR'S CAB (Maxcab Industry)	
Hydraulic elevating up and out cab e300/260	●
Multi-adjustable, air suspended operator's seat	●
3" (76 mm) seat belt	●
Seat heater	●
Automatic climate control (heater / AC)	●
Air outlets w / defroster	●
Storage area for lunch box	●
Large cup holder	●
Fire extinguisher	●
Tinted windows with safety glass	●
Door window as sliding window	●
Radio with USB and SD port, MP3 and Bluetooth	●
Removable floor mat	●
SenCon diagnostic system	●
Multicolor monitor	●
Tilt out front window	●
Halogen light package on cab roof	●
Mechanical hour meter	●
Sliding door	●
Catwalk w / handrail	●
12 V / 24 V power outlet	●
Windshield wiper and washers	●
Emergency exit hammer	●
Safety lever	●
Sun shades	●
Interior lighting	●
Rain cover front window	●
Outside mirror	●
Optical and acoustic warning system	●
Positive filtered ventilation (pressurized cab)	●
Safety check valves for elevating cab cylinder	●
Foot rest	●
Bulletproof windshield	●
Bulletproof skylight	●
Windshield protection guard	○
Skylight protection guard	○
Skylight FOPS guard	○
Polycarbonate side windows	○
Additional light package	○
Fixed cab elevation	○
Operator's cab with floor window	○
Additional cameras	○
Spacious Mastercab	○
Skylift cab elevation (elevation 7 m or 9 m)	○

UNDERCARRIAGE	
Robust designed material handling undercarriage	●
Crawler undercarriage with mechanical fixed tracks	●
Heavy-duty crawler track frame	●
3'3" (1,000 mm) flat grouser shoes	●
Maintenance-free crawler R147/580	●
Hydraulic chain tension device	●
Travel alarm	●
Centralized lubrication points	●
Servo brake system	●
Towing hitch package	●

WORKING EQUIPMENT	
Purpose-built material handling boom	●
Green Hybrid energy recovery system	●
Purpose-built material handling stick	●
Attachment hydraulic line connections with ball valves	●
Safety check valves for stick cylinders	●
Safety check valves for boom cylinders	●
Cylinder end position dumping	●
Boom hoist limitation	●
Bronze bushings connected to automatic lubrication system	●
Stick limitation	●
LED light package boom	○
LED light package stick	○
Purpose-built material handling boom for scrap shears	○

MAGNET SYSTEM	
Hydraulic driven generator	○
Magnet controller	○
Magnet suspension link	○

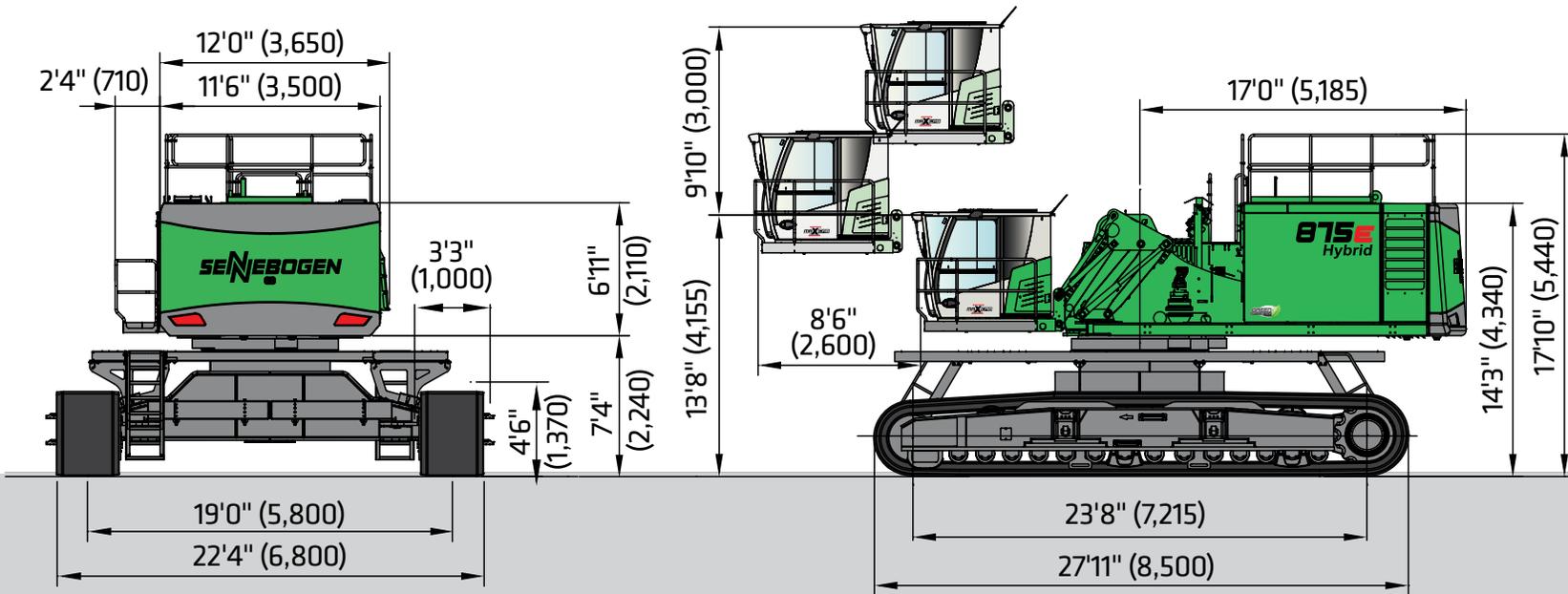
ATTACHMENTS	
Orange peel grapple	○
Mag grapple	○
Clamshell	○
Magnet	○
Log grapple	○
Scrap shear	○
Power attachment	○
Pipe handler	○

SWING SYSTEM	
360° protection cover, removable	●
Electrical driven swing gear pinion lubrication pump	●

Standard Equipment ● Optional Equipment ○

Subject to technical modification.

Dimensions - 875 R-HD "E"



875 R-HD with R147/580 undercarriage and e300/260 Maxcab industry (series)
which can be elevated and moved forward hydraulically

Lift Capacities - 875 R-HD "E"

Working Equipment K21

Reach	68'11" (21 m)
Boom	39'4" (12 m)
Stick	32'10" (10 m)

Operator's Cab

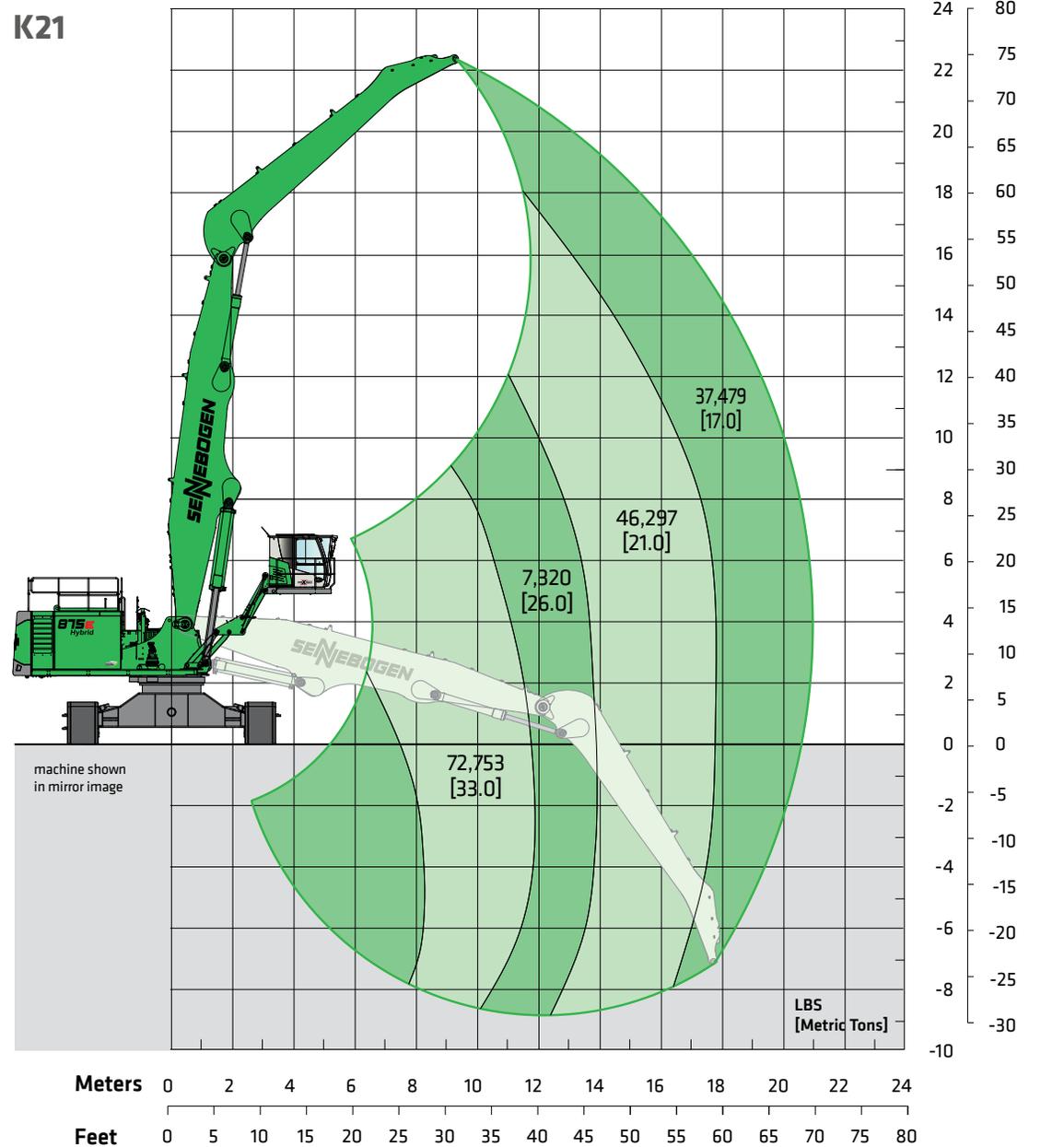
Model	Maxcab Industry, can be elevated by 9'10" (3 m) and moved forward 8'6" (2.6 m)
Eye level	approx. 19'4" (6.5 m)

Undercarriage

Model	R147/580
Tracks	flat grouser shoes 3'3" (1,000 mm)

Lift capacities are stated in pounds. Values in [] are stated in metric tons. Indicated figures are based on ISO 10567 and do not exceed 75% of tipping and 87% of hydraulic capacity and machine standing on firm, level supporting surface. Loads are valid for 360° with machine support outriggers. Lifting capacities do not include working equipment such as orange peel grapples, magnets, clamshells, etc. The load point is the center line of the attachment pivot mounting pin on the stick. Their weights must be deducted from the numbers indicated in the lift charts. Please contact SENNEBOGEN or your local dealer for optimum attachment selection. The operator/user of the machine should be fully acquainted with the operator's & safety manuals provided by SENNEBOGEN. Capacities apply only to the machine as originally manufactured and equipped by SENNEBOGEN.

K21



Lift Capacities - 875 R-HD "E"

Working Equipment K29

Reach	95'2" (29 m)
Boom	52'6" (16 m)
Stick	47'7" (14.5 m)

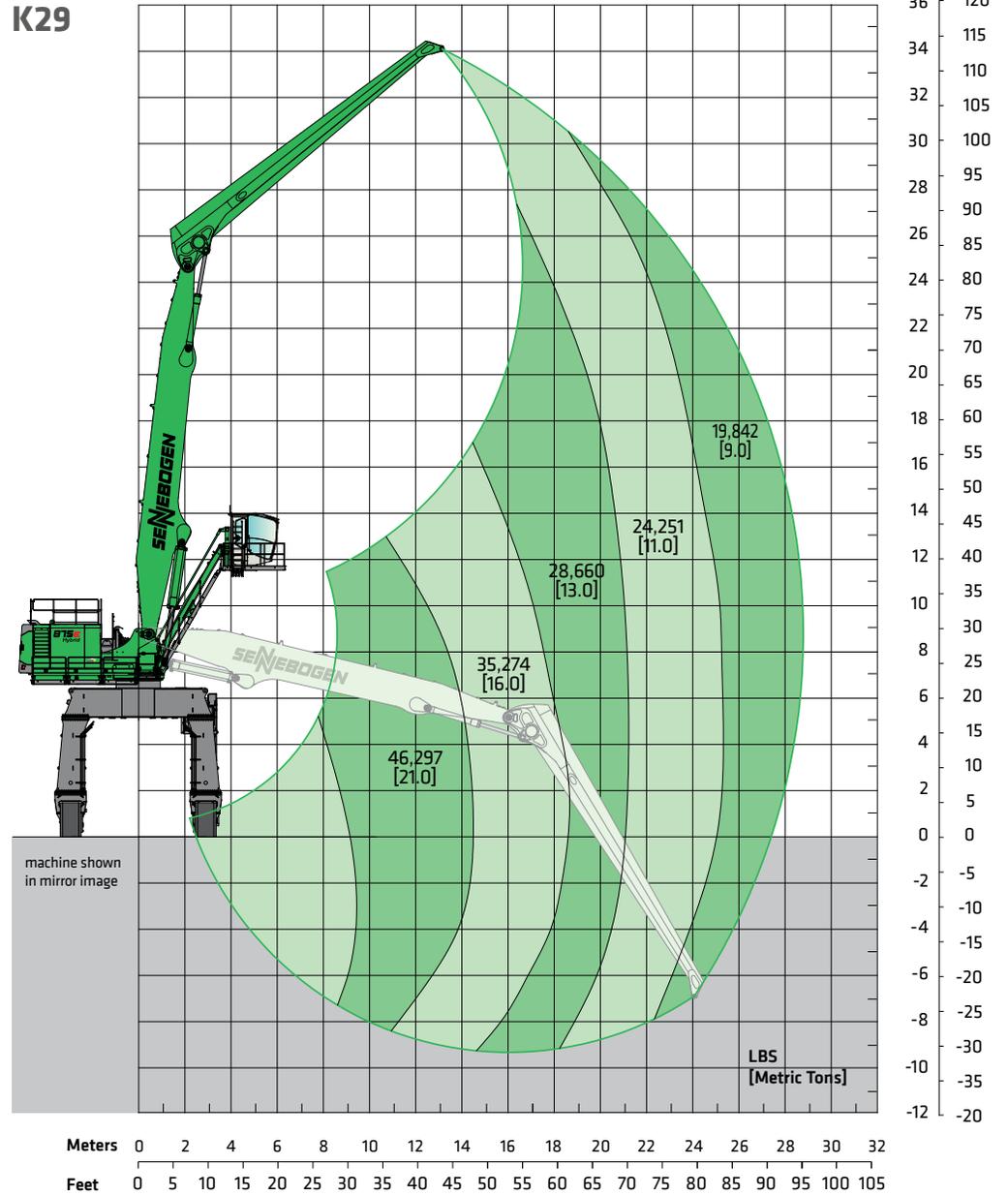
Operator's Cab

Model	Skylift 900 with Mastercab, hydraulically elevating (optional)
Eye level	approx. 45' (13.7 m)

Undercarriage

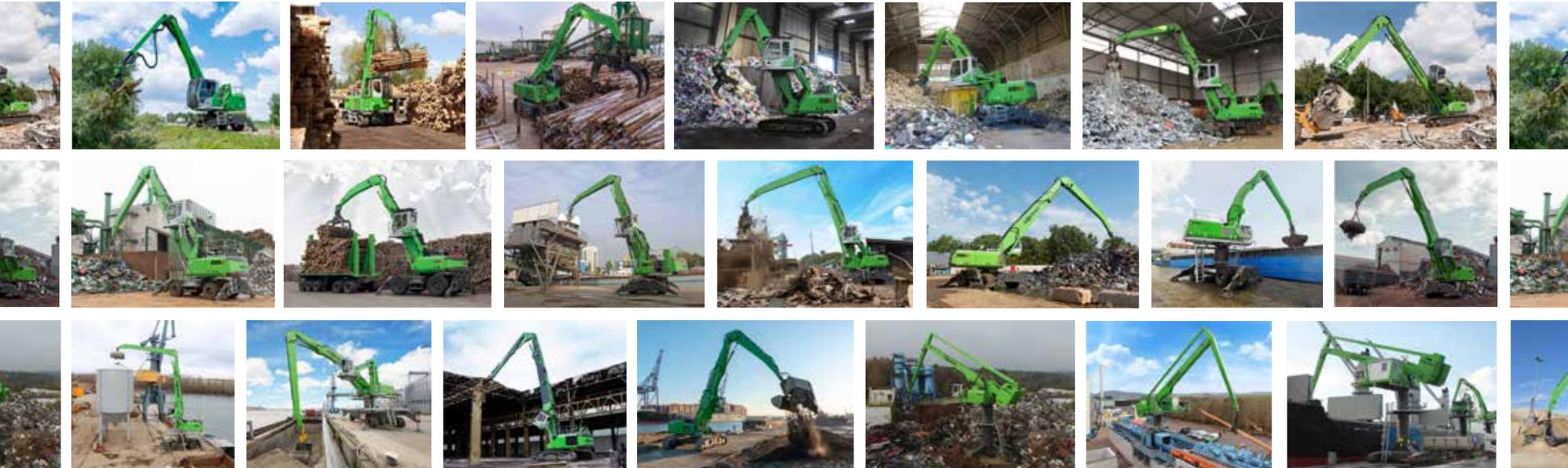
Model	P156/580
Tracks	flat grouser shoes 2'11" (900 mm)

K29



Lift capacities are stated in pounds. Values in [] are stated in metric tons. Indicated figures are based on ISO 10567 and do not exceed 75% of tipping and 87% of hydraulic capacity and machine standing on firm, level supporting surface. Loads are valid for 360° with machine support outriggers. Lifting capacities do not include working equipment such as orange peel grapples, magnets, clamshells, etc. The load point is the center line of the attachment pivot mounting pin on the stick. Their weights must be deducted from the numbers indicated in the lift charts. Please contact SENNEBOGEN or your local dealer for optimum attachment selection. The operator/user of the machine should be fully acquainted with the operator's & safety manuals provided by SENNEBOGEN. Capacities apply only to the machine as originally manufactured and equipped by SENNEBOGEN.

OUR COMPLETE LINE OF PURPOSE-BUILT MATERIAL HANDLERS



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