Thinking Beyond the Machine 🕀 🗘 🗘





GREEN HYBRID MATERIAL HANDLER

Cummins X15, Tier 4 524 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 safely move more material 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 understanding the needs of our customers. Thanks to our customers' feedback we've been able to continually develop and deliver 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's innovative Green Hybrid energy recovery system saves energy costs every time it lifts a load.

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

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 industrypreferred Cummins engines.

Cab Configurations and Elevations

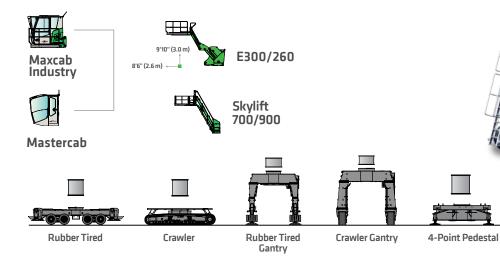
The elevating Maxcab, now with bulletproof windshield and skylight as standard equipment, allows an unobstructed view in all directions for increased safety and productivity, even under harsh and adverse conditions.

Optional features include:

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

Cabs

Cab elevations





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:









Platforms

15

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

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 userfriendly multicolored interface, available in multiple languages

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

Multiple platforms

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

Entry/exit

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

Superior visibility

HydroClean filtration

3-micron oil filtering with 99.95% efficiency

All test ports are easily accessible in one place

absorbs water, prevents acid generation

Convenient servicing

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

Boom pivot

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

SAFETY

Safety rails

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

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

BOOM & STICK

and reverse

Limit switches

Upper carriage

pivot to counterweight

Reversible fan

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

Fuses and relays

UPPER CHASSIS

Guarding surrounds upper deck to enhance safety for service technicians

One-piece center frame

Optimizes distribution of stresses and machine balance from boom

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 unequaled fuel efficiency due to efficient cooling

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

Automatic lubrication

Extend component life with no waste, no spill hazards

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



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 protecting people and downtime.

Safety-conscious owners 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. 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, cameras, and travel alarm are all standard features of your SENNEBOGEN.

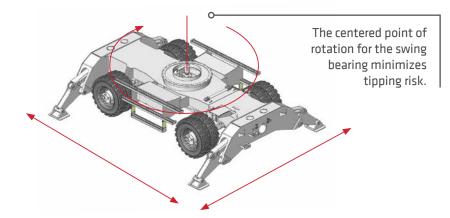
Handrails around the upper deck and anti-slip walking surfaces provide a safe working environment for service and maintenance crews.

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

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

Accessible safety switches including emergency shutoff, battery disconnect, and travel alarm.





Dual cameras with views to the rear and 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 by adapting to individual preferences to fight fatigue through long shifts.

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BEYOND THE MACHINE

SENNEBOGEN is on a mission to deliver the lowest Total Cost of Ownership with industry-leading aftersales support. Factory technical support, 55 million parts in inventory, and 24/7 parts availability means less downtime and more production.

- 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, authorized service providers, 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.
- SENNEBOGEN's in-house engineering solutions provides customers with custom machine solutions to meet their application.





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

Our dedicated Training Center in Stanley, North Carolina provides both primary and advance courses free of charge for our customers. This free training is the same level as Dealer's and Authorized Service Providers (ASP's) receive.

Purpose-built For America's Best-Trained Technicians

The main demonstration bay allows hands-on access to machines and 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 dealers, ASPs, 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

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

Course fees: No charge to SENNEBOGEN dealers, staff and customers. – Courses offered in English and Spanish sessions

5 Day Courses

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



PROVEN UPTIME

To find out how to make SENNEBOGEN machines easier to maintain than any other material handler, we ask the technicians who service our equipment.

Our support team, instructors, 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 by 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 fullystocked kits bring together all the parts

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.

Esc 2



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 cooling surface than comparable machines.

SENCON

The advanced SENCON 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.

This design also adds structural strength to the upper carriage with two mount frame plates running consistently from boom pin mount to counterweight.

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

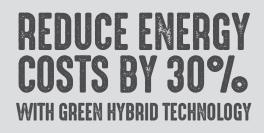
ERGY RECOVER





LITTLE FOOTPRINT

Whether you choose a Tier 4F engine or electric motor to power your 875, our efficient hydraulics and green hybrid technology provide eco-friendly material handling.

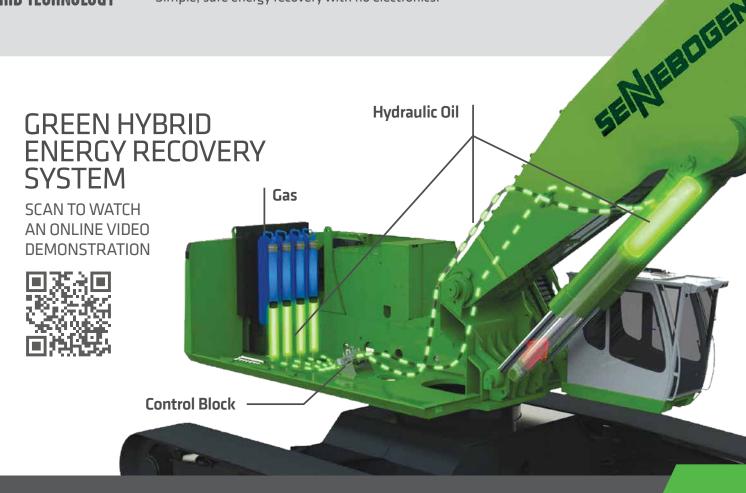


By utilizing power more efficiently, the 875 will outlift larger conventional machines while it consumes **30% less energy** and reduces emissions.

- Vertical boom movements generate potential energy.
- Our hybrid cylinder (standard hydraulic 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	Auton		Stop
	>>	>>	
2000 ECO min ⁻¹	1800 min ⁻¹	800 min ⁻¹	O min ⁻¹
0 s	5 s	8 s	5 min
	1		

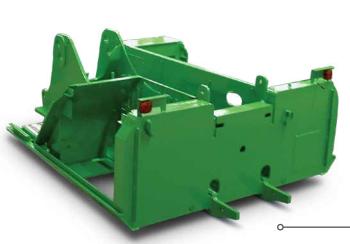


ATTENTION TO DETAILS MAKES US STRONGER

Strong and smart, SENNEBOGEN machines stand up to your toughest 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.







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



PURPOSE-BUILT FACILITIES

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)



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

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









Every configuration of a SENNEBOGEN machine begins identically 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. -

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THE RIGHT TOOLS FOR EVERY JOB ENSURES MAXIMUM PRODUCIVITY

Keep your 875 E "purpose-built" from end to end with your choice of genuine SENNEBOGEN attachments.

SENNEBOGEN grapples, lifting magnets, and clamshell buckets are all heavy-duty, production-rated tools, built to SENNEBOGEN's exacting standards for reliable, efficient service. Specified to match the fittings and power ratings of your SENNEBOGEN material handler, these attachments ensure that you always get the most productivity from your machine.

Available from our network of SENNEBOGEN Dealers and Authorized Service Providers, *green machine* attachments qualify as part of your total SENNEBOGEN Capital financing package.

Lifting Magnets

Made-in-America magnets engineered to operate 24/7 with consistent lifting strength throughout every working shift

- Deep field and extra deep field models with aluminum or copper coils
- Optimized for true 75% duty cycle
- Available in common sizes from 30" (762 mm) to 72" (1828 mm)
- Balanced for superior lift-to-weight ratios
- Heavy-duty cast or fabricated casings
- High-temperature insulation
- Durable manganese bottom plate

Orange Peel **Grapples**

Built to grab and hold large loads efficiently with easy handling and reliable service

- 4-tine and 5-tine scrap grapples
- \bullet From .5 to 5.0 yd 3
- Protected hose routings and hose guarding
- Tine tips 44% stronger than Hardox 400
- Fully sealed Rotobec rotator design with 360° rotation
- Self-contained cylinders with integrated guarding





Mag Grapples

Combination 4-tine grapple and magnet to sort and separate scrap metals from mixed loads and debris

- \bullet 11 models from .75 to 1.5 $\rm yd^3$
- Magnets from 30" to 44" diameter
- 360° rotation designed for high radial and axial loads

3600

• Removable cylinder guards for ease of service

Clamshell Buckets

- Light, standard, and heavy-duty models
- Sizes from 1.5 yd³ to 14 yd³ capacity
- Rotobec 5,000 psi quad-cylinder design
- Fully sealed 360° rotation
- Bolt-on cutting edges





875 M "E"_____

B

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875 R-HD "E"____

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Standard / Optional Equipment29
Dimensions / Transport Dimensions
Lifting Capacities - K1832
Lifting Capacities - K2133
Lifting Capacities - B2434
Lifting Capacities - K2935







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 SYS	ГЕМ
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 cooling type	water cooled, charge air cooling, coolant cooling
	charge air cooling,

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 / UNDERC	boom mountings. Service-friendly design, engine installed in the longitudinal direction
TRAVEL / UNDERC	boom mountings. Service-friendly design, engine installed in the longitudinal direction
	boom mountings. Service-friendly design, engine installed in the longitudinal direction ARRIAGE
type	boom mountings. Service-friendly design, engine installed in the longitudinal direction ARRIAGE rubber tired MS210 all-wheel drive powered by a variable-displacement hydraulic motor with direct-mounted, automatic brake valve and 2-gear
type	boom mountings. Service-friendly design, engine installed in the longitudinal direction ARRIAGE rubber tired MS210 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
type drive	boom mountings. Service-friendly design, engine installed in the longitudinal direction ARRIAGE rubber tired MS210 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 0-6 mph (0-9.6 kph) solid rubber 14.00-24 (16x)
type drive speed	boom mountings. Service-friendly design, engine installed in the longitudinal direction ARRIAGE rubber tired MS210 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 0-6 mph (0-9.6 kph)
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REFILL CAPACITIE	
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 Type B	0.07 gal (0.25 L) 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
50.00.000	

Standard / Optional Equipment - 875 M "E"

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ENGINE	
Water separator in fuel line	
Automatic idle / engine stop control	
Eco mode	
Muffler	
Visual fuel tank check	
Engine block & water separator pre-heater	0
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	0
Biodegradable hydraulic oil	0
Hydraulic circuit for scrap shear	0
Additional hydraulic circuit slasher	0
Additional hydraulic circuits	0
Attachment return filtration filters (60 μm)	0
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	0
Custom colors	0

Seawater paint coating

OPERATOR'S CAB (Maxcab Industry)	
Hydraulic elevating up and out cab e300/260	
Multi-adjustable, air suspended operator's seat	۲
3" (76 mm) seat belt	٠
Seat heater	
Automatic climate control (heater / AC)	
Air outlets w / defroster	٠
Storage area for lunch box	
Large cup holder	
Fire extinguisher	
Tinted windows with safety glass	٠
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	0
Windshield protection guard	
Skylight protection guard	0 0
Skylight FOPS guard	0
Polycarbonate side windows	0
Additional light package	
Fixed cab elevation	0
Operator's cab with floor window	0
Additional cameras	0
Spacious Mastercab	0
Skylift cab elevation (elevation 7 m or 9 m)	0

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 syste	m 🔍
Stick limitation	•
LED light package boom	0
LED light package stick	0
Purpose-built material handling boom for scrap shears	0

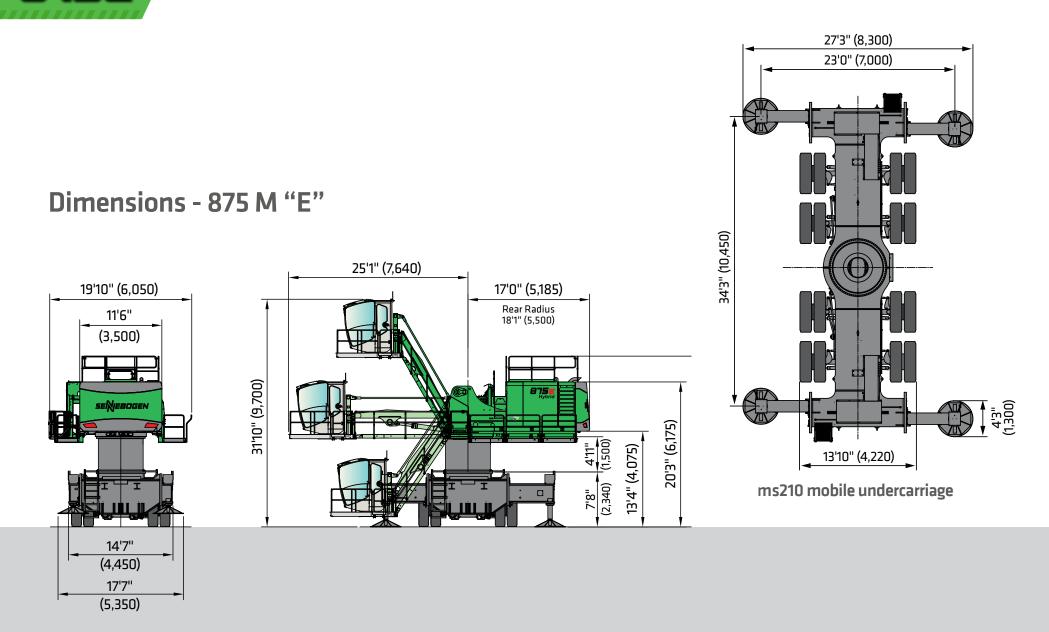
MAGNET SYSTEM

Hydraulic driven generator	
Magnet controller	
Magnet suspension link	0

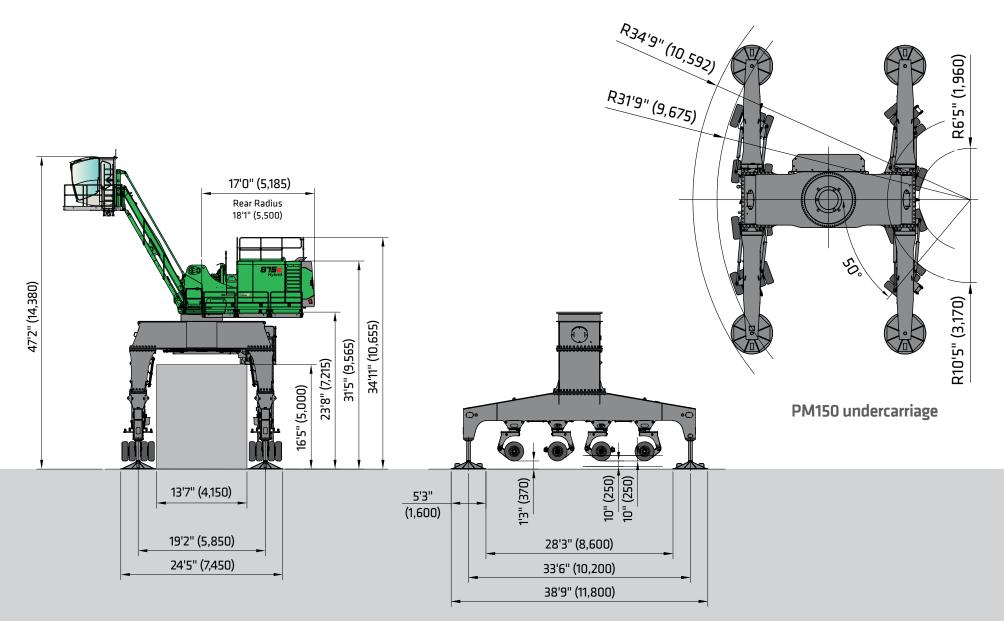
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SWING SYSTEM 360° protection cover, removable Electrical driven swing gear pinion lubrication pump

PURPOSE-BUILT MATERIAL HANDLER



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

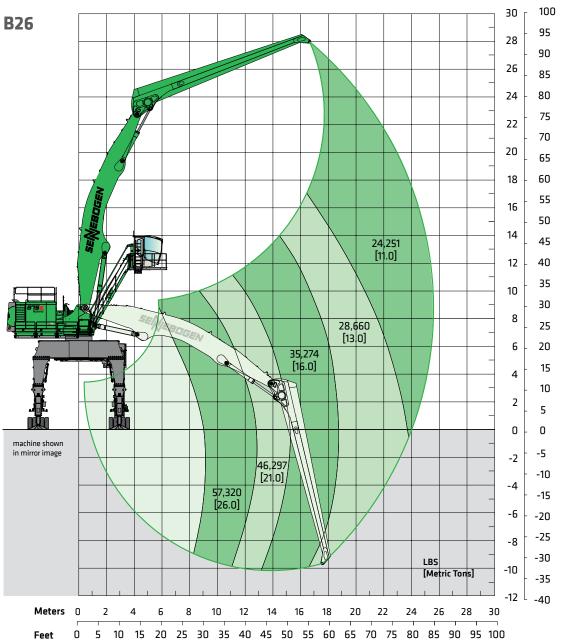


875 M gantry with PM150 undercarriage and hydraulically elevating Skylift 900 cab elevation and Mastercab



Lift Capacities - 875 M "E" Working Equipment B26 85'4" (26.0 m) Reach 47'7" (14.5 m) Boom 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.







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 SYS	STEM
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	
design TRAVEL / UNDERG	precision crafted, steel bushings for boom mountings. Service-friendly design, engine installed in the longitudinal direction	
-	precision crafted, steel bushings for boom mountings. Service-friendly design, engine installed in the longitudinal direction	
TRAVEL / UNDER	precision crafted, steel bushings for boom mountings. Service-friendly design, engine installed in the longitudinal direction CARRIAGE	
TRAVEL / UNDER	precision crafted, steel bushings for boom mountings. Service-friendly design, engine installed in the longitudinal direction ARRIAGE crawler R147/580	
TRAVEL / UNDERO	precision crafted, steel bushings for boom mountings. Service-friendly design, engine installed in the longitudinal direction ARRIAGE crawler R147/580 mechanical, extendable tracks independent driven by an axial piston motor through a compact	
TRAVEL / UNDER(type system drive	precision crafted, steel bushings for boom mountings. Service-friendly design, engine installed in the longitudinal direction ARRIAGE crawler R147/580 mechanical, extendable tracks independent driven by an axial piston motor through a compact planetary	
TRAVEL / UNDERO type system drive travel speed	precision crafted, steel bushings for boom mountings. Service-friendly design, engine installed in the longitudinal direction ARRIAGE crawler R147/580 mechanical, extendable tracks independent driven by an axial piston motor through a compact planetary 0-1.3 mph (0-2.1 km/h)	
TRAVEL / UNDERO type system drive travel speed shoes	precision crafted, steel bushings for boom mountings. Service-friendly design, engine installed in the longitudinal direction ARRIAGE crawler R147/580 mechanical, extendable tracks independent driven by an axial piston motor through a compact planetary 0-1.3 mph (0-2.1 km/h) flat grouser shoes, 3'3" (1,000 mm)	
TRAVEL / UNDER(type system drive travel speed shoes crawler	precision crafted, steel bushings for boom mountings. Service-friendly design, engine installed in the longitudinal direction ARRIAGE crawler R147/580 mechanical, extendable tracks independent driven by an axial piston motor through a compact planetary 0-1.3 mph (0-2.1 km/h) flat grouser shoes, 3'3" (1,000 mm) B9HDS	

REFILL CAPACITIE	S
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 crawler R147/580	3.65 gal (13.8 L) 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

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

-	_
ENGINE	
Water separator in fuel line	•
Automatic idle / engine stop control	٠
Eco mode	•
Muffler	•
Visual fuel tank check	•
Engine block & water separator pre-heater	0
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	۲
Optimized hydraulic pump regulation (GLR)	•
Visual hydraulic tank check from ground level	•
Attachments open, close & rotation hydraulics	•
Hydraulic tank shut off valve	٠
Electrical hydraulic tank pre-heater	0
Biodegradable hydraulic oil	0
Hydraulic circuit for scrap shear	0
Additional hydraulic circuits	0
Attachment return filtration filters (60 µm)	0
UPPER CARRIAGE	
Rearview & right side view camera system	•
Automatic lubrication system	•
Anti-slip mats on walking area	•
Lockable side doors	•
Handrails on ton of unner sarriage	•
Handrails on top of upper carriage	
Mirror left side	
	•
Mirror left side	•
Mirror left side Removable panels	
Mirror left side Removable panels Additional light package	° °

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	٠
Door window as sliding window	•
Radio with USB and SD port, MP3 and Bluetooth	٠
Removable floor mat	•
SenCon diagnostic system	•
Multicolor monitor	•
Tilt out front window	٠
Halogen light package on cab roof	•
Mechanical hour meter	•
Sliding door	•
Catwalk w / handrail	٠
12 V / 24 V power outlet	
Windshield wiper and washers	٠
Emergency exit hammer	۲
Safety lever	۲
Sun shades	۲
Interior lighting	
Rain cover front window	
Outside mirror	
Optical and acoustic warning system	۲
Positive filtered ventilation (pressurized cab)	
Safety check valves for elevating cab cylinder	۲
Foot rest	
Bulletproof windshield	
Bulletproof skylight	
Windshield protection guard	0
Skylight protection guard	0
Skylight FOPS guard	0
Polycarbonate side windows	0
Additional light package	0
Fixed cab elevation	0
Operator's cab with floor window	0
Additional cameras	0
Spacious Mastercab	0
Skylift cab elevation (elevation 7 m or 9 m)	0
	5

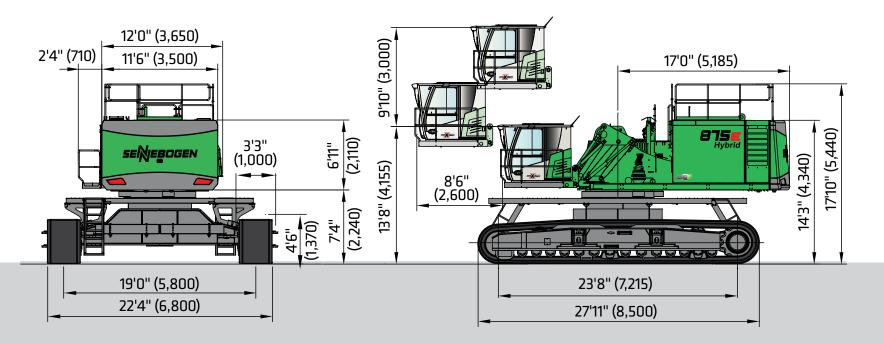
UNDERCARRIAGE

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	0
LED light package stick	0
Purpose-built material handling boom for scrap shears	0
MAGNET SYSTEM	
Hydraulic driven generator	0
Magnet controller	0
Magnet suspension link	0
ATTACHMENTS	
Orange peel grapple	0
Mag grapple	0
Clamshell	0
Magnet	0
Log grapple	0
Scrap shear	0
Power attachment	0
Pipe handler	0
SWING SYSTEM	
360° protection cover, removable	•
Electrical driven swing gear pinion lubrication pump	•

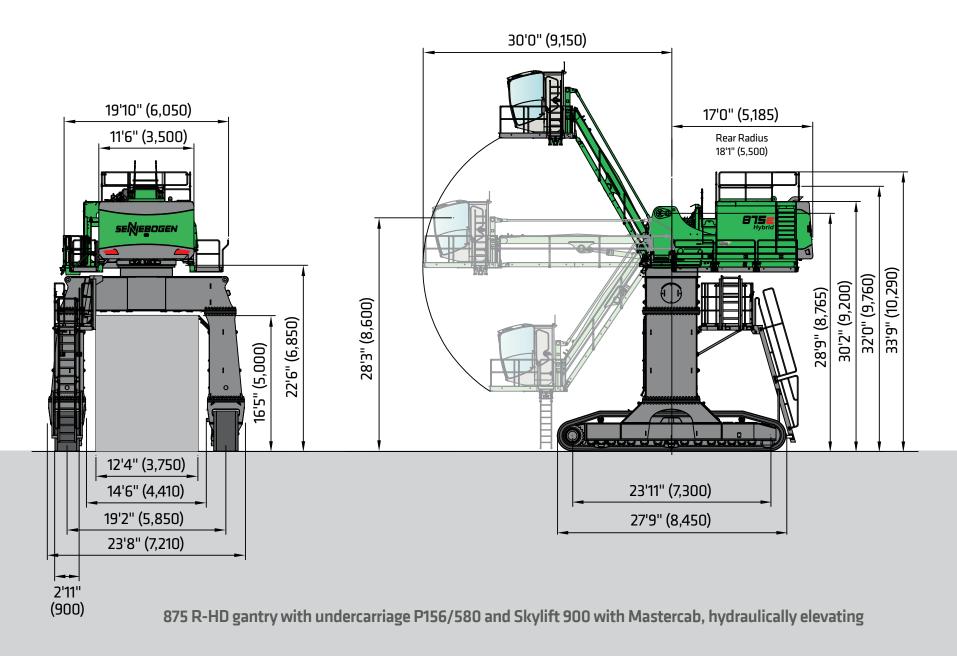
Subject to technical modification.



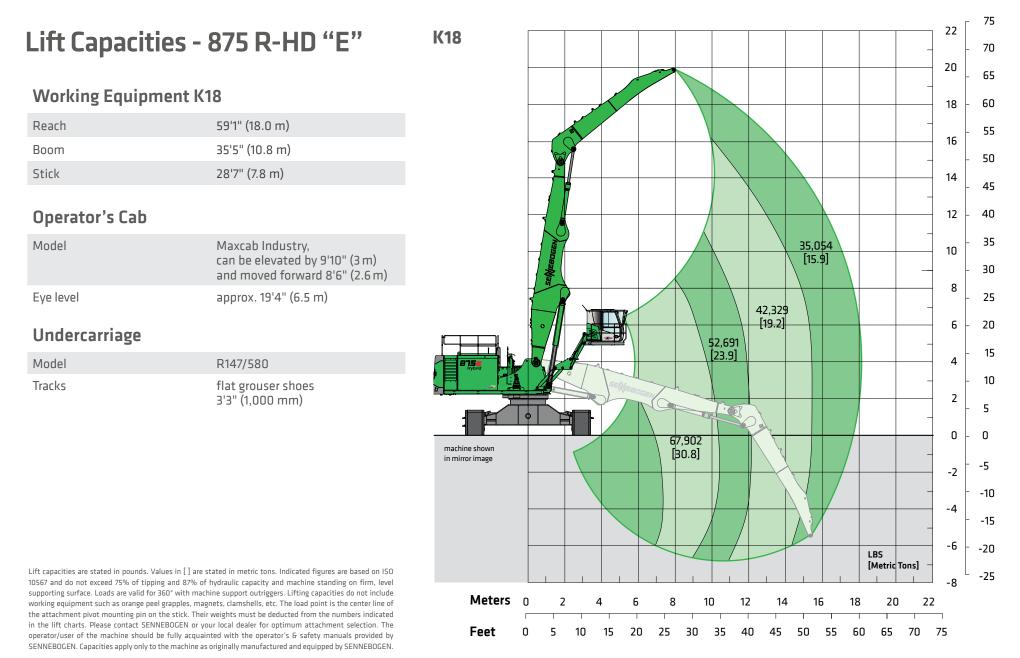
Dimensions - 875 R-HD "E"



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

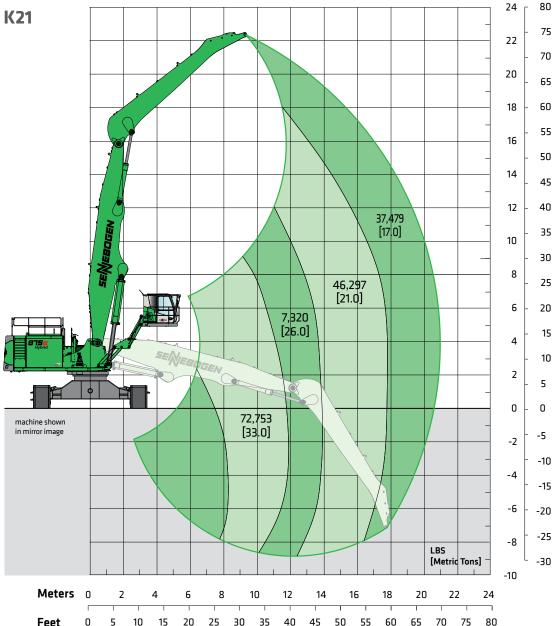






Working Equipment K21 68'11" (21 m) Reach 39'4" (12 m) Boom 32'10" (10 m) Stick **Operator's Cab** Maxcab Industry, Model can be elevated by 9'10" (3 m) and moved forward 8'6" (2.6 m) Eye level approx. 19'4" (6.5 m) Undercarriage Model R147/580 flat grouser shoes Tracks 3'3" (1,000 mm) machine shown in mirror image 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 Meters 0 2 the attachment pivot mounting pin on the stick. Their weights must be deducted from the numbers indicated 4 6 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 Feet 0 10 15 20 5 SENNEBOGEN. Capacities apply only to the machine as originally manufactured and equipped by SENNEBOGEN.

Lift Capacities - 875 R-HD "E"





Lift Capacities - 875 R-HD "E"

B24

Working Equipment B24

Reach	78'9" (24.0 m)
Boom	44'3" (13.5 m)
Stick	40'4" (12.3 m)

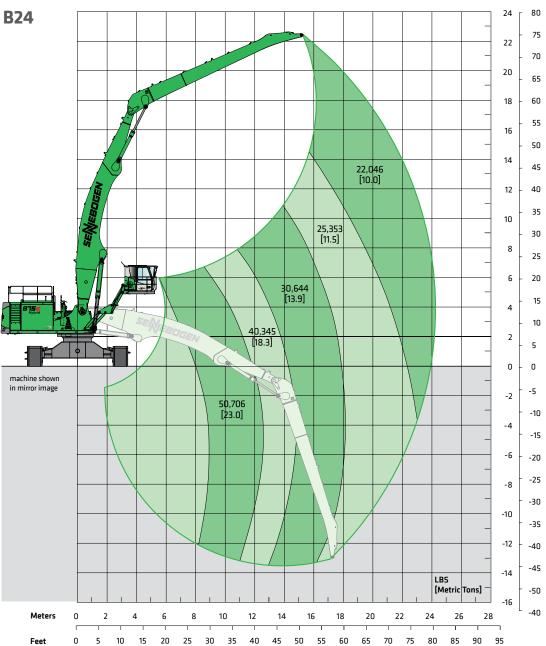
Operator's Cab

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 G safety manuals provided by SENNEBOGEN. Capacities apply only to the machine as originally manufactured and equipped by SENNEBOGEN.



Lift Capacities - 875 R-HD "E"

Working Equipment K29

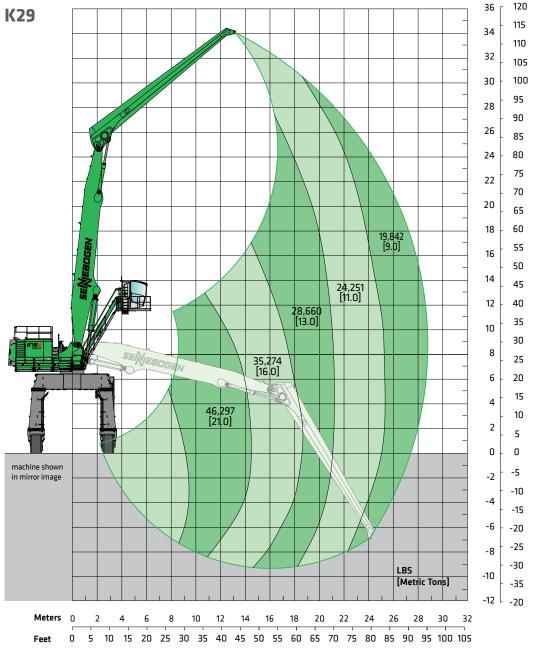
Reach	95'2" (29 m)
Boom	52'6" (16 m)
Stick	47'7" (14.5 m)

Operator's Cab

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

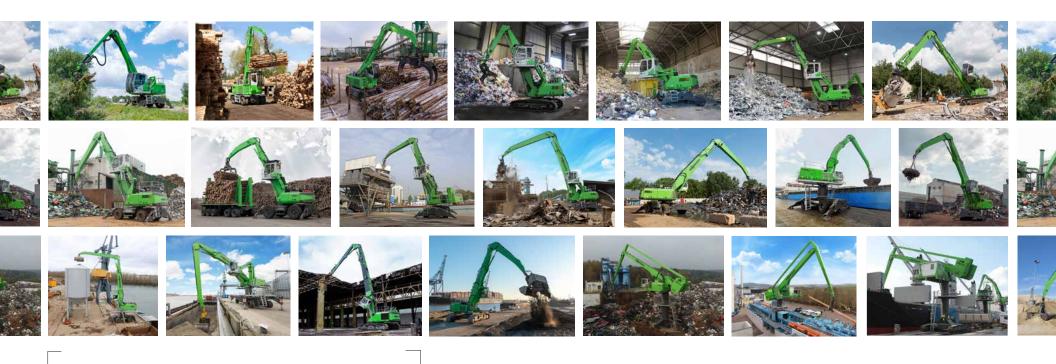
Undercarriage

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



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 G safety manuals provided by SENNEBOGEN. Capacities apply only to the machine as originally manufactured and equipped by SENNEBOGEN.

OUR LINEUP OF PURPOSE-BUILT MATERIAL HANDLERS





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