DEMOLITION

830R-HDD E / 870R-HDD E

SENNEBOGEN®

Purpose-Built – To Suit Your Purpose

By building simply, we can build flexibly.

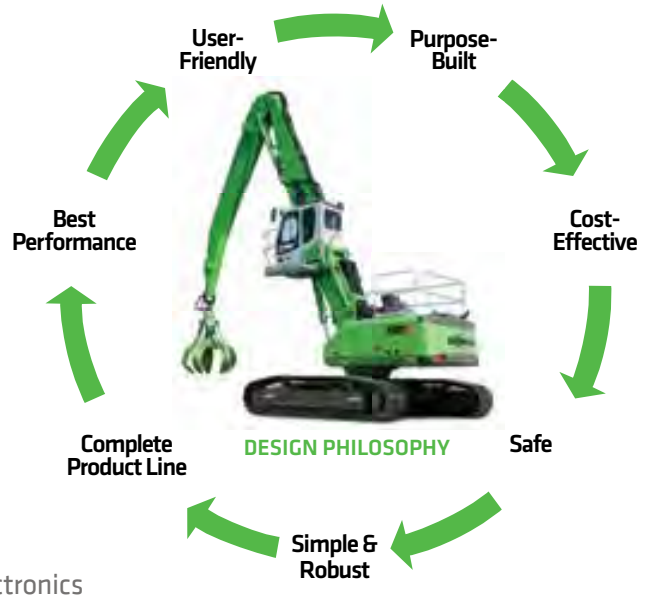
The design and manufacture of every SENNEBOGEN material handler begins with you, our customer, and the challenges you face every day. Our singular focus leads us to the simplest, most efficient engineering solutions.

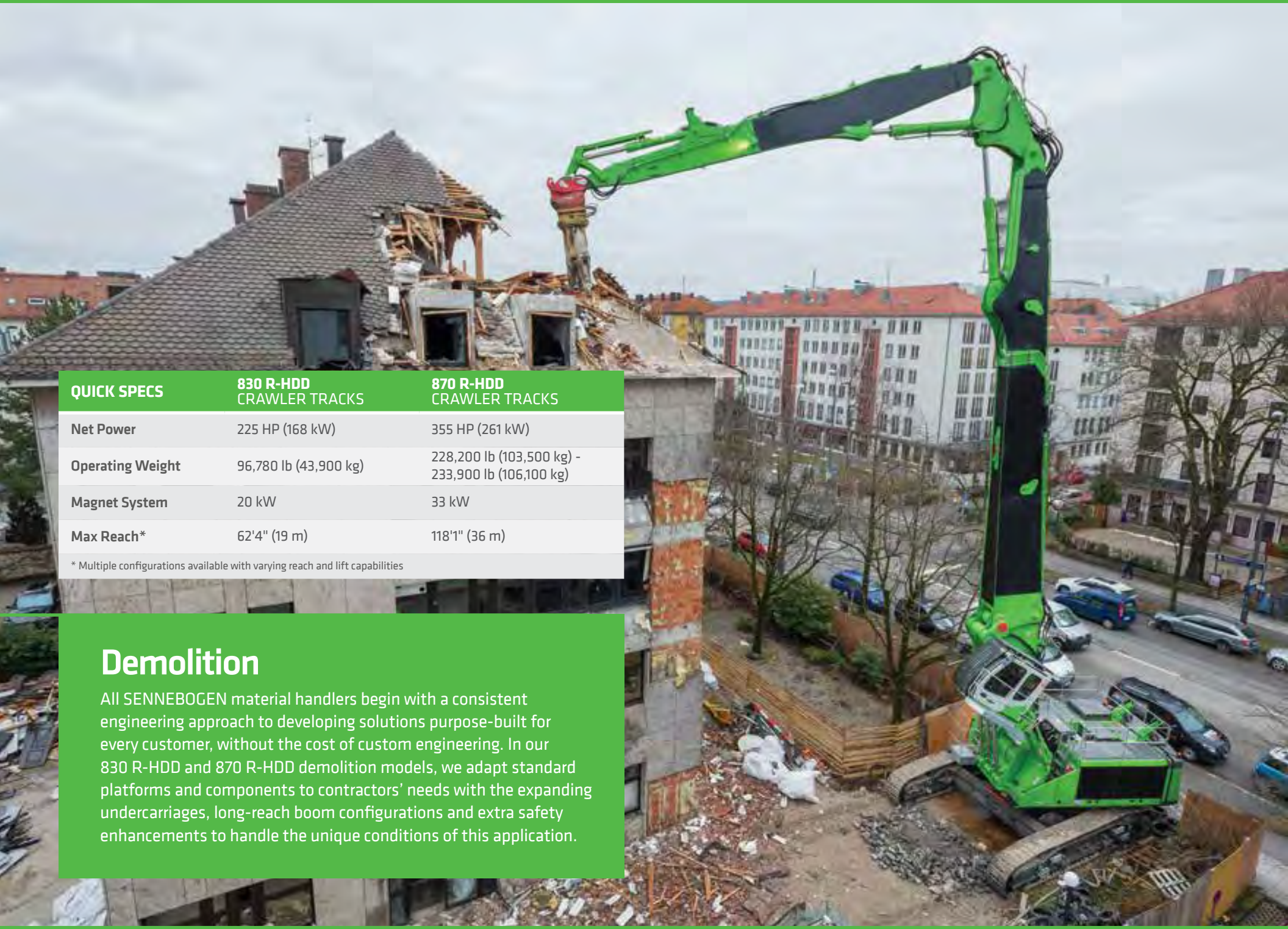
To meet our commitment to customer needs, the simplest solution is to engineer machines that adapt easily to their intended purpose:

- Interchangeable components across multiple platforms
- Industry-standard service parts
- 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 continuously 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.**



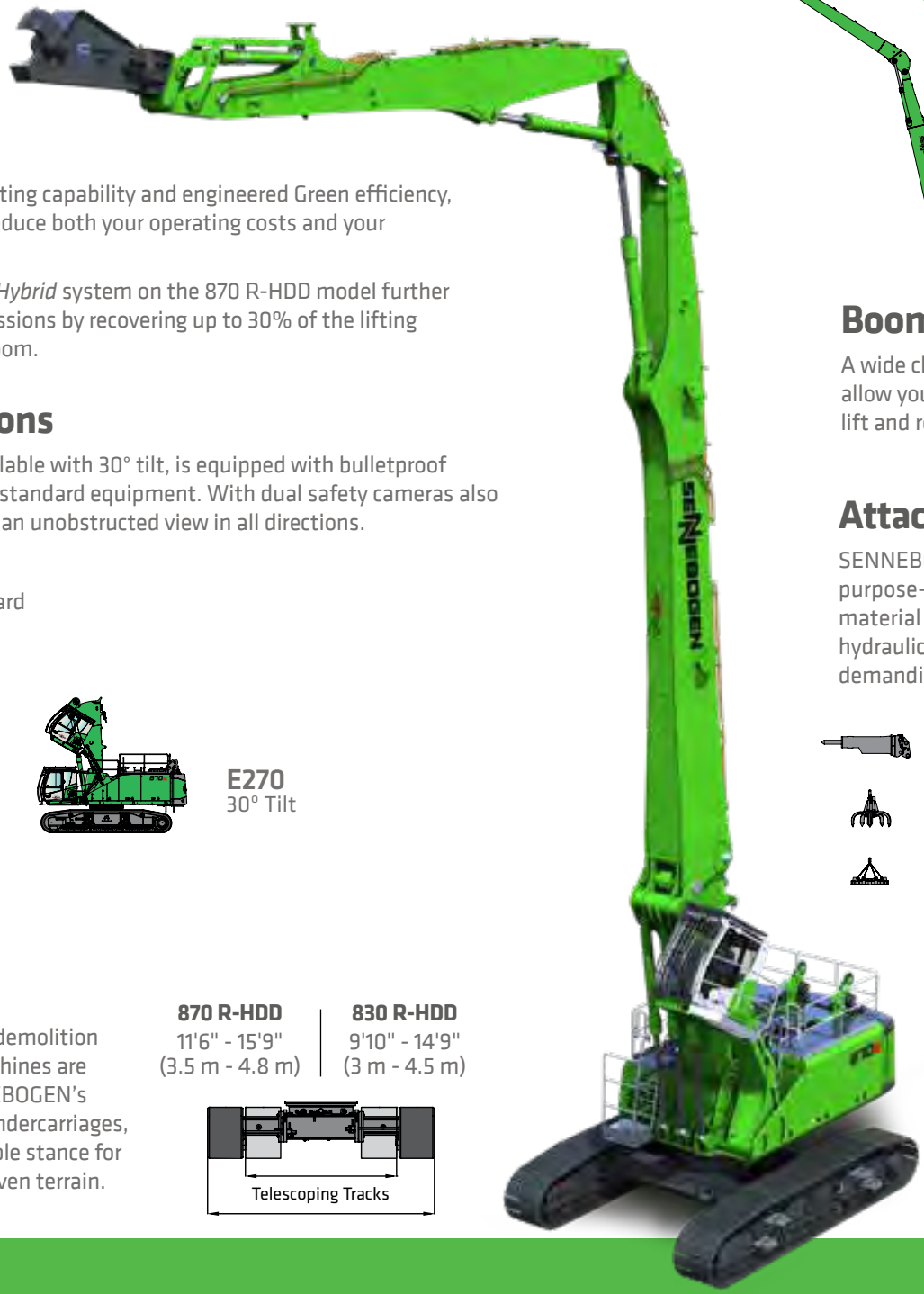


QUICK SPECS	830 R-HDD CRAWLER TRACKS	870 R-HDD CRAWLER TRACKS
Net Power	225 HP (168 kW)	355 HP (261 kW)
Operating Weight	96,780 lb (43,900 kg)	228,200 lb (103,500 kg) - 233,900 lb (106,100 kg)
Magnet System	20 kW	33 kW
Max Reach*	62'4" (19 m)	118'1" (36 m)

* Multiple configurations available with varying reach and lift capabilities

Demolition

All SENNEBOGEN material handlers begin with a consistent engineering approach to developing solutions purpose-built for every customer, without the cost of custom engineering. In our 830 R-HDD and 870 R-HDD demolition models, we adapt standard platforms and components to contractors' needs with the expanding undercarriages, long-reach boom configurations and extra safety enhancements to handle the unique conditions of this application.



Power

With their purpose-built lifting capability and engineered Green efficiency, SENNEBOGEN machines reduce both your operating costs and your environmental footprint.

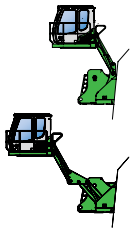
The new generation *Green Hybrid* system on the 870 R-HDD model further reduces fuel costs and emissions by recovering up to 30% of the lifting energy generated by the boom.

Cab Configurations

The elevating Maxcab, available with 30° tilt, is equipped with bulletproof windshield and skylight as standard equipment. With dual safety cameras also standard, these cabs allow an unobstructed view in all directions.

Optional features include:

- Windshield protective guard
- Skylight protection guard
- FOPS guard



E270
with Maxcab

E300/260
with Maxcab

E270
30° Tilt

Platforms

For maximum stability on demolition sites, the 830 and 870 machines are recommended with SENNEBOGEN's hydraulically telescoping undercarriages, providing the widest possible stance for reaching and lifting on uneven terrain.

870 R-HDD	830 R-HDD
11'6" - 15'9"	9'10" - 14'9"
(3.5 m - 4.8 m)	(3 m - 4.5 m)

Booms and Sticks

A wide choice of powerful boom and stick configurations allow your demolition handler to adapt easily to the specific lift and reach requirements of your operations.

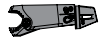
Attachments

SENNEBOGEN grapples and magnets complete your purpose-built solution with the same reliability as our material handling demolition machines. SENNEBOGEN hydraulics provide high-capacity, independent flow to operate demanding attachments such as shears and hammers.

Demolition Hammer

Orange Peel Grab

Lifting Magnets


Mobile Shear Types


Crushers


Demolition Grab


Waste/Trash Grapple

* SENNEBOGEN magnet systems are powered by Baldor generators with Hubbell controllers

UNDERCARRIAGE

Stable footprint

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

Telescoping base

Crawler tracks expand from transport mode to wide-stance working mode for maximum stability

Swing system

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

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

OSHA-compliant

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

Reversible fan

Closed circuit drive with axial displacement pump allows fast change between normal and reverse; high capacity for maximum efficiency in dusty demolition environments

Longitudinal engine mount

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

Automatic lubrication

Extend component life with no waste, no spill hazards

Self-mounting counterweight

The counterweight of the 870 R-HDD quickly dismounts for easy transport; self-mounts at the work site using the machine's own boom

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

Cylinder protection

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

Boom pivot

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

CAB

Elevating Maxcabs

The Maxcab configuration with a 30° tilt maximizes safety, accuracy and stability

Entry/exit

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

Joystick steering

Unobstructed view for operator with highly responsive controls

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

SENCON

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

HYDRAULIC SYSTEM

HydroClean filtration

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

Purpose-built design

Fully hydraulic controls require no special software to troubleshoot

Convenient servicing

All test ports are easily accessible in one place

Hybrid technology

SENNEBOGEN's exclusive Green Hybrid on the 870 R-HDD captures energy on each downstroke of the boom and releases it as "free" load-lifting power on each upstroke

SAFETY

Sliding door

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

Safety rails

All North American models come with full guarding on upper decks to ensure safety for technicians

Bulletproof glass

Bulletproof windshield and skylight are standard on all new models

Impact guards

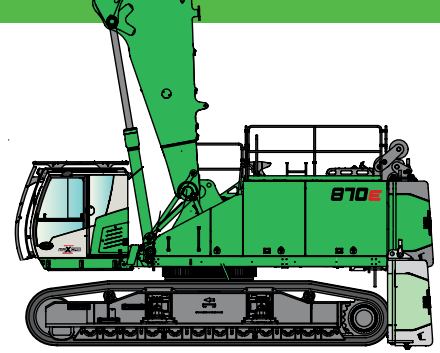
Optional guarding for skylight and windshield provides additional protection from falling debris

Fuses and relays

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

Green Demolition

SENNEBOGEN purpose-built demolition handlers step up to challenging demolition projects with unmatched power, control, safety and durability. Specially equipped for long-reach capability and ground-gripping stability, our 830 R-HDD and 870 R-HDD models add extra protection and application specific features for operators and industry-leading cooling systems to thrive on harsh, dusty jobsites.



The 870 R-HDD features an intelligent self-mounting system for the machine's counterweight, simplifying transportation and set-up at the worksite.

870 R-HDD

LARGE SCALE & POWERFUL

Net Power	355 HP (261 kW)
Operating Weight	228,200 lb (103,500 kg) - 233,900 lb (106,100 kg)
Max Reach	118'1" (36 m)

The towering SENNEBOGEN 870 R-HDD is built to safely tear down buildings between 9 and 10 stories tall (depending on actual floor heights).

- A telescoping wide-stance undercarriage that expands from 11'6" - 15'9" (3.5 m - 4.8 m) provides a safe, stable working platform on uneven jobsites
- 8,000 lb (3,630 kg) lifting capacity at 118'1" (36 m)
- Precise controls for selective dismantling
- Interchangeable demolition attachments including shears and hammers
- Intelligent self-mounting system for counterweight
- Green Hybrid system reduces fuel consumption up to 30%

830 R-HDD

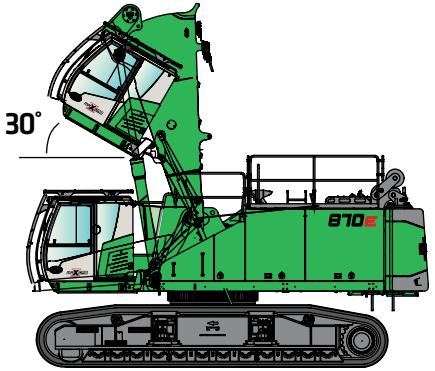
PRECISE AND MULTI-FUNCTIONAL

Net Power	225 HP (168 kW)
Operating Weight	96,780 lb (43,900 kg)
Max Reach	62'4" (19 m)

The versatile SENNEBOGEN 830 R-HDD is the standalone solution for one-stop demolition projects, from tear-down to sorting & loading to clean-up.

- A telescoping wide-stance undercarriage that expands from 9'10" - 14'9" (3 m – 4.5 m) provides a safe, stable working platform on uneven jobsites
- 7,000 lb (3,175 kg) lifting capacity at 62'4" (19 m)
- Precise controls for efficient dismantling and sorting
- Interchangeable demolition attachments including shears and hammers
- Green efficiency energy savings for low operating cost

SENNEBOGEN's telescoping undercarriages hydraulically expand the machine's footprint from the compact travel position to its wide-stance working platform for maximum stability and safety.



The hydraulically elevating Maxcab with up to 30° tilt allows operators to maintain a comfortable working position at the controls while working at heights.

Model	Travel Mode	Working Mode
870 R-HDD	11'6" (3.5 m)	15'9" (4.8 m)
830 R-HDD	9'10" (3 m)	14'9" (4.5 m)

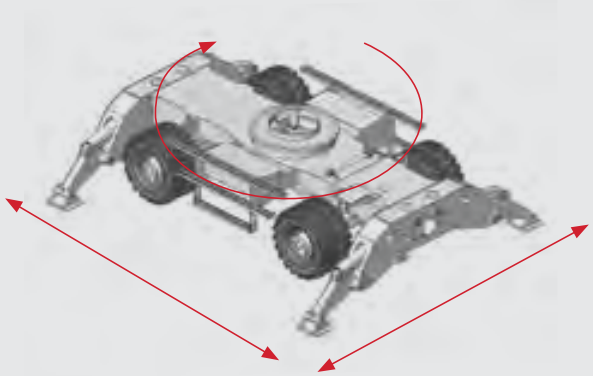
All In The Family

Sorting, picking, sweeping, feeding, loading… there's a SENNEBOGEN machine purpose-built for every purpose in your demolition fleet.

Choose from SENNEBOGEN's wide range of compact, transportable machines for the same efficient, reliable service you get from our heavy-duty demolition models.

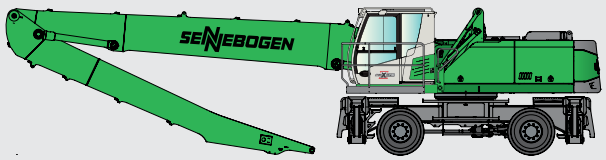
- Mobile maneuverable loaders for onsite processing equipment
- Efficient, mobile debris handling to consolidate piles and load trucks
- Specialized safety cabs and long-reach configurations available

QUICK SPECS			
Rubber tired	818 M	821 M	825 M
Net Power	132 HP (97 kW)	141 HP (105 kW)	197 HP (145 kW)
Operating Weight	48,060 lb (21,800 kg)	52,800 lb (23,950 kg)	57,600 lbs (26,120 kg)
Max Reach	32'8" (10 m)	39'4" (12 m)	45'11" (14 m)
Min Transport Length	28'7" (8,700 mm)	33'11" (10,340 mm)	34'1" (10,400 mm)
Crawler tracks	818 R-HD	821 R-HD	825 R-HD
Net Power	132 HP (97 kW)	141 HP (105 kW)	197 HP (145 kW)
Operating Weight	55,115 lb (25,000 kg)	57,980 lb (26,300 kg)	72,300 lbs (32,800 kg)
Max Reach	29'5" (9 m)	36' (11 m)	45'11" (14 m)
Min Transport Length	27'11" (8,500 mm)	27'9" (8,500 mm)	33'9" (10,335 mm)



Square Footprint

All SENNEBOGEN demolition machines feature a central swing point that allows equal load limits for lifting from all sides through 360°, providing stability on jobsites.



"Drive-on" Transport

Compact 818, 821 and 825 models fold up quickly into transport mode, ready to self-drive onto standard float trailers for convenient delivery to the next jobsite.

The Right Tools For Every Job Ensures Maximum Uptime

Every SENNEBOGEN machine allows you ultimate flexibility to keep your machine productive with interchangeable attachments.

Our renowned hydraulic systems deliver the power to drive the most demanding demolition tools, from hammers to pulverisers providing operators with the responsive "feel" to work quickly and precisely.

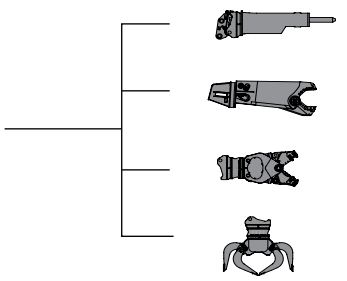
Our own grapples and lifting magnets are all heavy-duty production-rated tools, specified to match the fittings and power ratings for your SENNEBOGEN machine.

Clean Sweep

SENNEBOGEN's own made-in-America lifting magnets efficiently sweep jobsites and debris piles to separate rebar and other ferrous material from concrete and wood scrap. By delivering clean top-value material for each recycling stream, our magnets help to reduce truckloads to the landfill and maximize revenues from every project.

Available in all common sizes from 30" to 72" (762 mm to 1,828 mm)

SENNEBOGEN Quick Couplers adapt to all standard-fitting demolition attachments

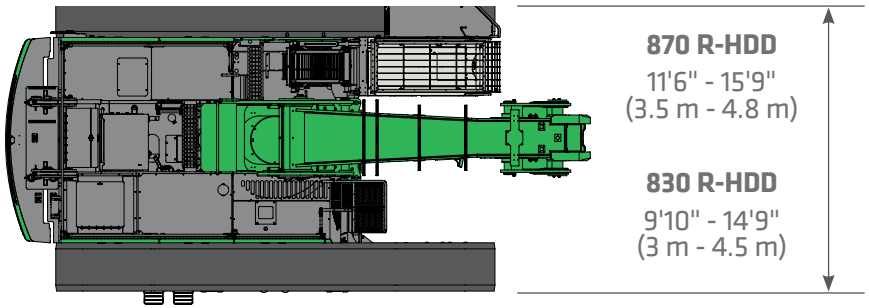


The First Step To Productivity

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 on our 830 and 870 R-HDD demolition models.



SENNEBOGEN's telescoping crawler undercarriage allows a wide stance to maintain a stable footing on uneven jobsites.

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

Various optional guarding packages available to meet industry safety requirements.

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

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

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

All high pressure hydraulic hoses in the engine compartment are secured in sleeves to protect service personnel.

The sliding door of the 30° tilting Maxcab with guarded permanent catwalk provides the safest entry and exit in the industry.

SENNEBOGEN's Maxcab puts you in the driver's seat for jobsite safety.

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

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

Positioning the gas accumulators of the SENNEBOGEN Green Hybrid system on the 870 R-HDD at the rear of the deck adds an extra measure of safety for operators.

MAXCAB

Maxcab's maximized window area and elevating mount give the operator an unobstructed wide-angle view of the work zone.

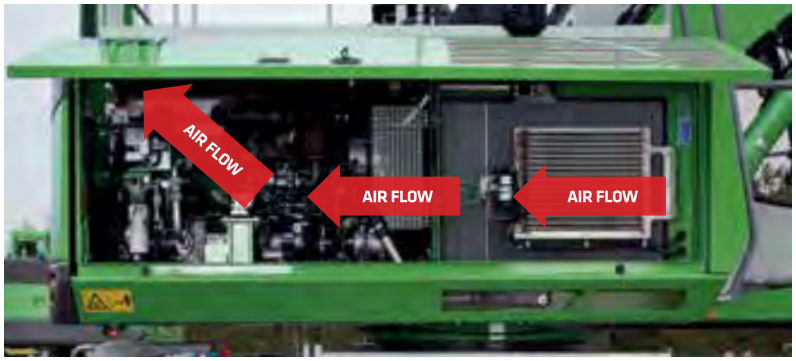
Intuitive joystick controls connect the operator seamlessly to the industry's most responsive hydraulic system for precise, easy handling.

A 30° tilt combined with ergonomic comfort and climate control features keep operators alert, adapting to individual preferences to fight fatigue through long shifts.

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.

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

The large reversing fan provides up to 45% more of the cooling surface than comparable machines, keeping the engine compartment free of demolition dust and debris.

Little Footprint

Green Hybrid technology: the industry's new standard for eco-friendly material handling.

By utilizing power more efficiently, the 870 R-HDD 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

EXPERIENCE THE SYSTEM

SCAN TO WATCH AN ONLINE VIDEO DEMONSTRATION

Green Hybrid achieves high productivity, fast cycle times and high lift capacities without adding complexity to the machine. The energy recovery system is fully engineered with standard hydraulic components requiring no "black box" controls.

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 the 830 R-HDD and 870 R-HDD purpose-built demolition machine, 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 SENNEBOGEN machines are built to deliver the best return on your equipment investment.

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.

Built on our renowned expertise with intelligent hydraulics, SENNEBOGEN demolition machines minimize the need for delicate electronics and computers, preventing their related failures and the associated downtime in harsh environments.

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

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, 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.

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

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

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

SENCON

The advanced SENCON diagnostic and reporting system presents a multi-colored user-friendly interface, now available in multiple languages.

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

Test and service points are conveniently arranged together behind the cab and within reach from ground level.

Simple hydraulic controls replace complex electronics, so technicians require no special software or “black box” components to troubleshoot your machine.

Our Commitment To Your Business

SENNEBOGEN's investment in service support is unmatched in the industry, providing the capabilities and resources to build success for our customers.

- Our headquarters in Stanley, NC is a 100,000 sq. ft. (9,300 m^2) multi-purpose facility dedicated to supporting SENNEBOGEN material handlers throughout the Americas.
- 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.

Our large parts warehouse maintains inventories of service parts and replacement components for all of our fielded machines, from O-rings to engines, axles and complete boom and stick assemblies.

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.

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

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.

5 Day Course

Service Level 1

Min 6 / Max 10 Students per class

Required: Basic Technical Knowledge

Course Content:

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

Offered in English and Spanish sessions

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

ALL TRAINING COURSES AVAILABLE FREE

Service Level 1
Service Level 2
Parts Training
Operator Familiarization

5 Day Course

Service Level 2

Min 4 / Max 6 Students per class

Required: Completion of Level 1 Class

Course Content:

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

Offered in English and Spanish sessions

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

Level 2 classes are smaller & more intensive & build on Level 1.

Purpose-Built Facilities

With nearly 1,000,000 sq. ft. (93,000 m^2) of production space in our four manufacturing facilities, 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.

Demolition Series Material Handlers

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870 R-HDD "E"

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SENNEBOGEN
830 E

Technical Specifications - 830 R-HDD “E”

ENGINE	
model	Cummins QSB 6.7 C225
type	in-line, 6 cylinder, cooled exhaust gas recirculation, water cooled
emission	EPA Tier 4F
net power	225 HP (168 kW) @ 2,000 rpm
injection	high pressure common-rail
displacement	408 cu.in. (6.7 L)
bore	4.21" (107 mm)
stroke	4.88" (124 mm)
aspiration	turbo charged, charge air cooled
fuel tank	132 gal (500 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. pump flow	137 gpm (520 l / m)
max. pressure	5,076 psi (350 bar)
hydraulic tank	82 gal (310 L)
hydraulic system	180 gal (680 L)
filtration	dual filtration system 3 micron (HydroClean)

COOLING	
cooling type	cool-on-demand, suction-type fan system, side by side
hydraulic / water	hydraulic fan drive axial piston pump, reversible fan thermostatically controlled, closed loop system
charge air	direct fan drive

ELECTRICAL	
alternator	100 V/Ah
starter	24 V, 7.8 kW
battery	2 x 12 V, 150 Ah
lights	2 x cab roof, type halogen 2 x frame upper carriage, type H4

SWING SYSTEM	
swing speed	0 - 8 rpm
swing hydraulic	open loop
drive	1 x axial piston motor driving planetary gearbox, integrated brake vales
swing brake	multidisc brake, spring loaded
swing bearing	internal teeth, sealed ball bearing

UPPER CARRIAGE	
design	torsion-free upper frame with continuous bearing-plates for optimal power introduction, precision pivot; excellent design; very low noise emission

TRAVEL / UNDERCARRIAGE	
type	crawler T41/380
system	hydraulic adjustable wide gauge
drive	independent driven by an axial piston motor through a compact planetary
travel speed	0-1.84 mph (0-3.0 km/h)
shoes	23.6" (600 mm) (triple grouser)
crawler	B60 maintenance-free
steering	foot pedals / levers
safety	travel alarm

REFILL CAPACITIES	
fuel tank	132 gal (500 L)
engine cooling system	13.20 gal (50 L)
engine oil w / filter	4.49 gal (17 L)
hydraulic tank	82 gal (310 L)
hydraulic system	180 gal (680 L)
swing gear (each)	1.06 gal (4.0 L)
final drive (each)	2.38 gal (9.0 L)
swing ring lubrication reservoir	0.26 gal (1.0 L)
central lubrication reservoir	5.5 lb (2.5 kg)
diesel exhaust fluid	7.93 gal (30 L)

MAGNET SYSTEM (OPTIONAL)	
rating	20 kW
voltage (magnetized)	230 V
current (cold condition)	87 Amps
controller	Hubbell
generator	Baldor
drive	hydraulic

WEIGHT	
operating weight	96,780 lb (43,900 kg)

Subject to technical modification.

Standard / Optional Equipment - 830 R-HDD

ENGINE	
Water separator in fuel line	●
Automatic idle / engine stop control	●
Eco mode	●
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 (HydroClean)	●
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	○
Hydraulic circuit for hammer, breaker	○
Additional hydraulic circuits	○
Attachment return filtration filters (60 µm)	○

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

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)	
Hydraulic elevating up and out cab E260	●
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	●
Hydraulic elevating up and out cab E270	○
30° cab tiltable	○
Maxcab industry	○
Windshield protection guard	○
Skylight protection guard	○
Skylight FOPS guard	○
Polycarbonate side windows	○
Additional light package	○
Fixed cab elevation	○
Hydraulic elevating up and out cab E300/260	○
Operator's cab with floor window	○
Additional cameras	○

WORKING EQUIPMENT	
Purpose-built material handling boom	●
Purpose-built material handling stick	●
Attachment hydraulic line connections with ball valves	●
Boom position 1	●
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 stick with reversing linkage	○
Purpose-built material handling boom for scrap shears	○

UNDERCARRIAGE	
Robust designed material handling undercarriage	●
Travel alarm	●
Servo brake system	●
Crawler under carriage with mechanical adjustable tracks	●
Heavy-duty crawler track frame	●
23.6" (600 mm) triple grouser track shoes, canted	●
Maintenance-free crawlers B60	●
Hydraulic chain tension device	●
Counterweight lowering system	●
27.6" (700 mm) triple grouser track shoes, canted	○
27.6" (700 mm) forged flat track shoes, canted	○
Increased size outrigger pads to decrease ground pressure	○

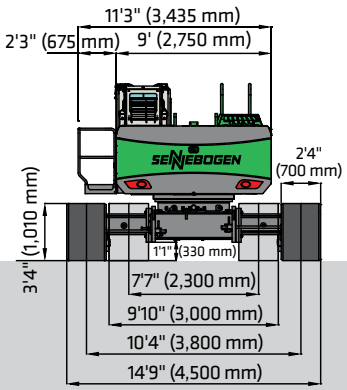
MAGNET SYSTEM	
Hydraulic driven generator	●
Magnet controller	●
Magnet suspension link	○

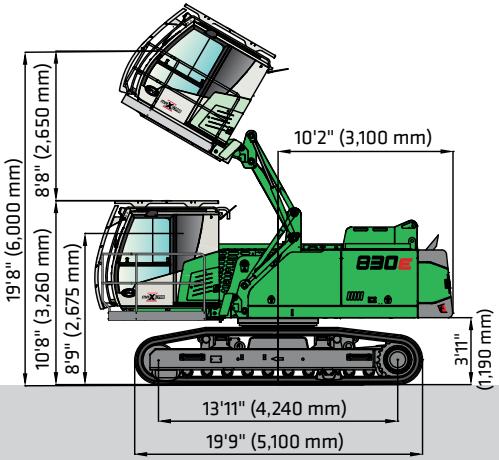
ATTACHMENTS	
Crusher	○
Demolition Grab	○
Demolition Hammer	○
Magnets	○
Quick Coupler	○
Scrap Shear	○
Orange Peel Grab	○
Waste/Trash Grapple	○

Standard Equipment ● **Optional** Equipment ○

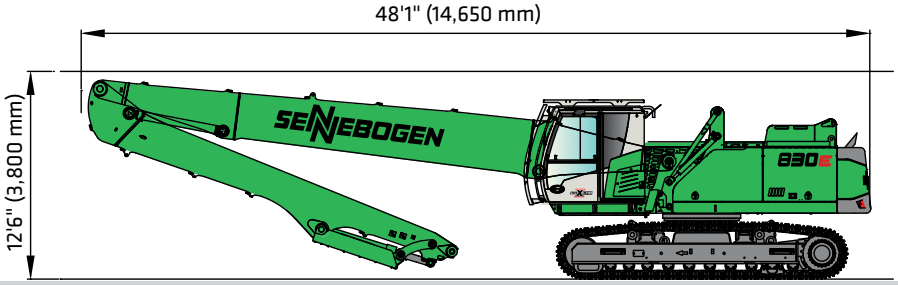
Subject to technical modification.

Dimensions / Transport Dimensions - 830 R-HDD “E”

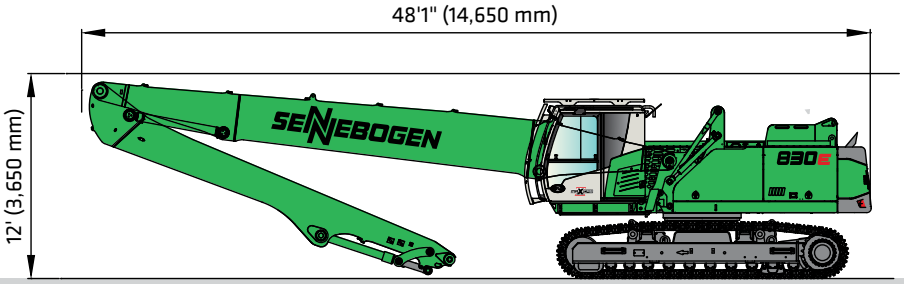




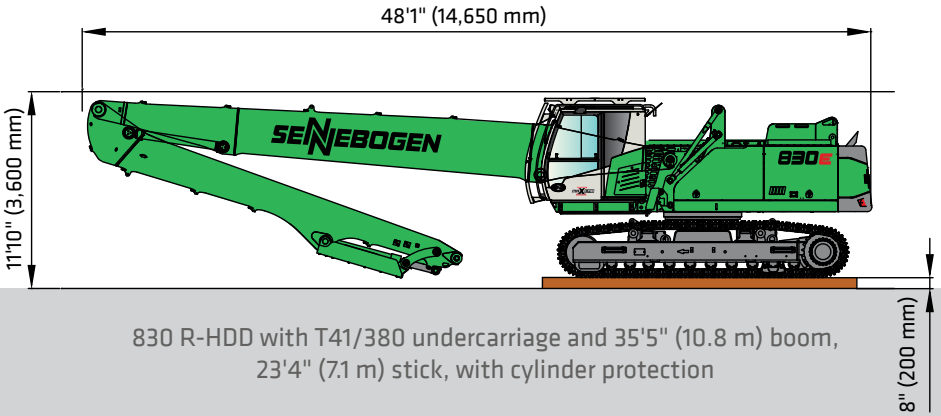
830 R-HDD with T41/380 undercarriage and hydraulically elevating Maxcab, tiltable by 30°



830 R-HDD with T41/380 undercarriage and 35'5" (10.8 m) boom, 23'4" (7.1 m) stick



830 R-HDD with T41/380 undercarriage and 35'5" (10.8 m) boom, 23'4" (7.1 m) stick, with cylinder protection



830 R-HDD with T41/380 undercarriage and 35'5" (10.8 m) boom, 23'4" (7.1 m) stick, with cylinder protection

Subject to technical modification.

Lift Capacities - 830 R-HDD “E”

Working Equipment K17 ULM

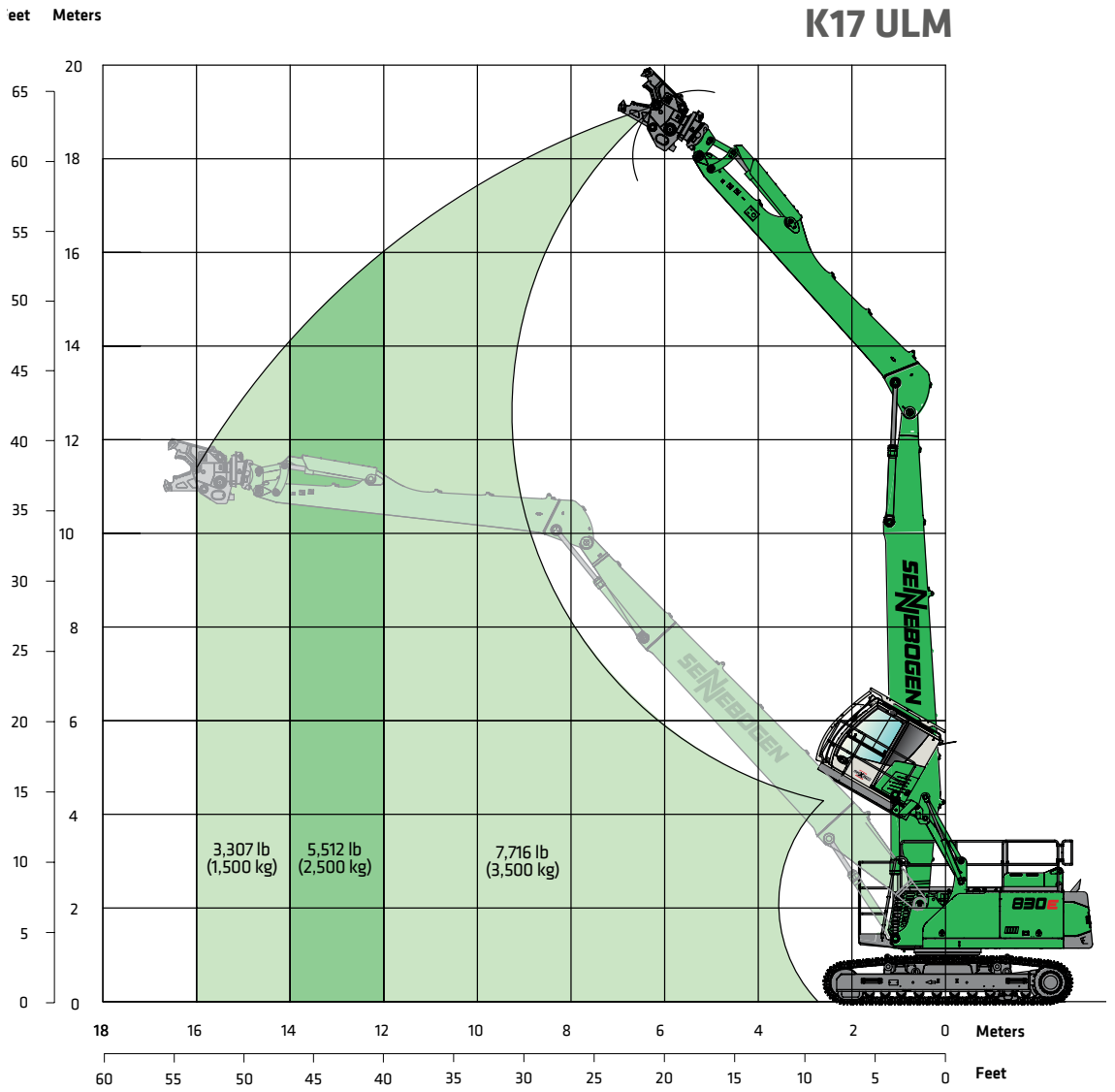
Reach	55'9" (17 m)
Boom	34'5" (10.5 m)
Stick	23'4" (7.1 m)
Boom pos.	1

Operator’s Cab

Model	E270 Maxcab hydraulic elevating up tiltable by 30°
Eye level	approx 19' (5.8 m)

Undercarriage

Model	T41/380
Tracks	B6 triple grouser shoes 23.6" (600 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 manual provided be SENNEBOGEN. Capacities apply only to the machine as originally manufactured and equipped by SENNEBOGEN.

Lift Capacities - 830 R-HDD “E”

Working Equipment K17 ULM

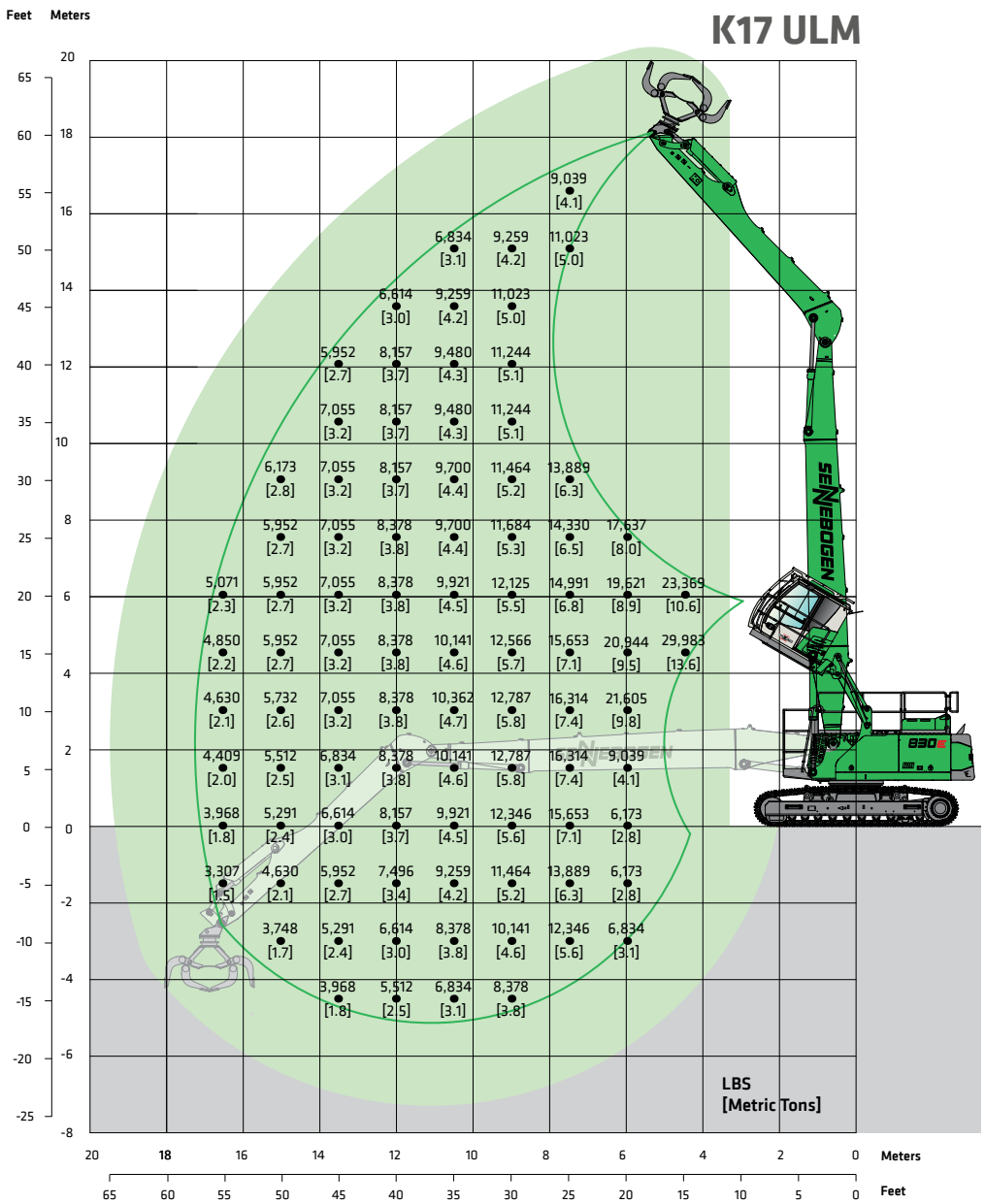
Reach	55'9" (17 m)
Boom	34'5" (10.5 m)
Stick	23'4" (7.1 m)
Boom pos.	1

Operator’s Cab

Model	E270 Maxcab hydraulic elevating up tiltable by 30°
Eye level	approx 19' (5.8 m)

Undercarriage

Model	T41/380
Tracks	B6 triple grouser shoes 23.6" (600 mm)



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Lift Capacities - 830 R-HDD “E”

Working Equipment K17 ULM

Reach	55'9" (17 m)
Boom	34'5" (10.5 m)
Stick	23'4" (7.1 m)
Boom pos.	1

Operator’s Cab

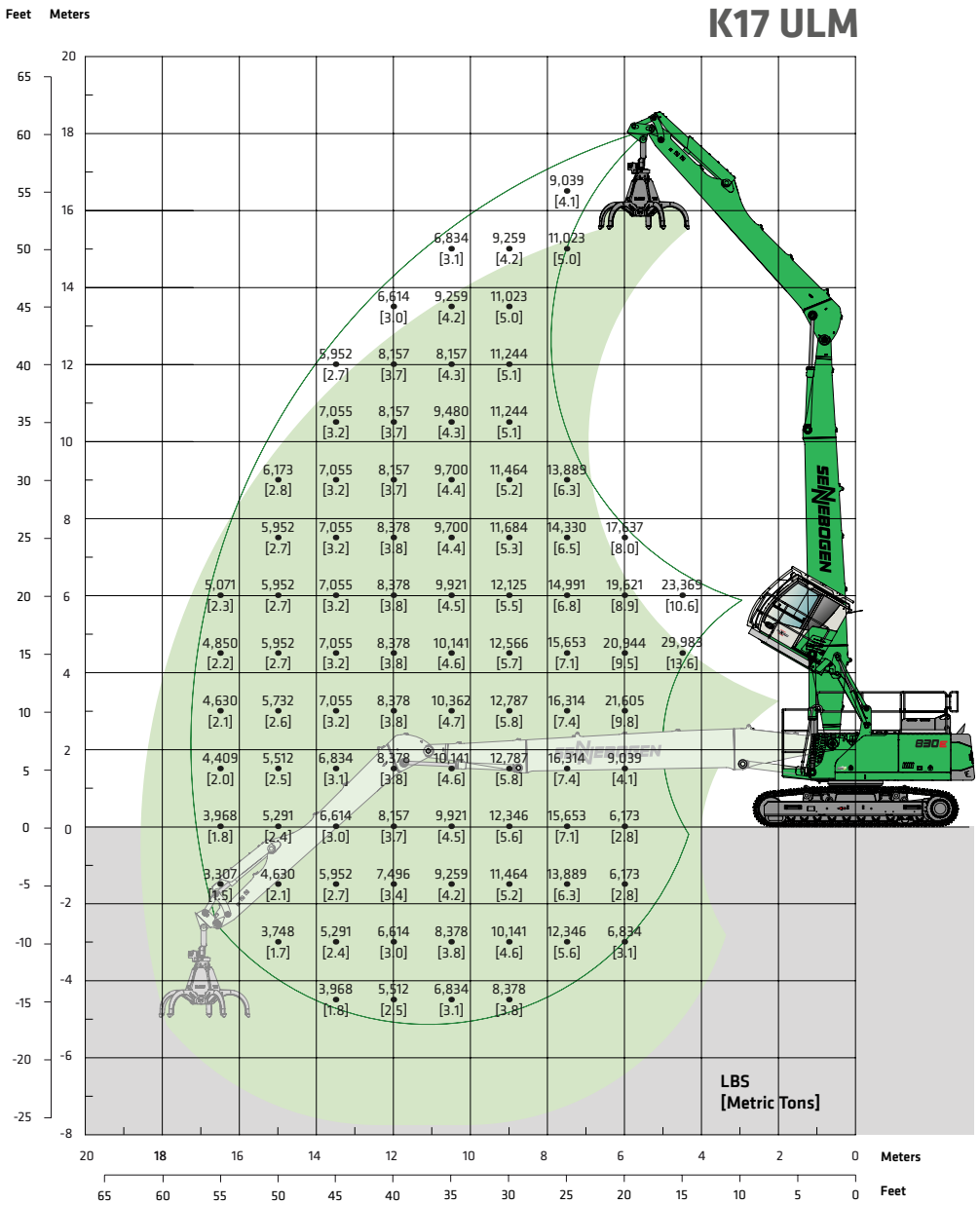
Model	E270 Maxcab hydraulic elevating up tiltable by 30°
Eye level	approx 19' (5.8 m)

Undercarriage

Model	T41/380
Tracks	B6 triple grouser shoes 23.6" (600 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 manual provided by SENNEBOGEN. Capacities apply only to the machine as originally manufactured and equipped by SENNEBOGEN.

K17 ULM



Technical Specifications - 870 R-HDD “E”

ENGINE	
model	Cummins QSG12, Tier 4F
type	in-line, 6 cylinder, cooled exhaust gas recirculation, DPF diesel particulate filter water cooled
emission	EPA Tier 4F
net power	355 HP (261 kW) @ 1,800 rpm
injection	high pressure common-rail
aspiration	turbo charged, charge air cooled
fuel tank	264 gal (1,000 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	237 gal (900 L)
filtration	dual filtration system 3 micron (HydroClean)

COOLING	
cooling type	cool-on-demand, suction-type fan system, side by side
hydraulic / water	hydraulic fan drive axial piston pump, reversible fan thermo-statically controlled, closed loop system
charge air	direct fan drive

ELECTRICAL	
alternator	100 V/Ah
starter	24 Vm 7.8 kW
battery	2 x 12 V, 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-free upper frame with continuous bearing-plates for optimal power introduction, precision pivot; excellent design; very low noise emission

TRAVEL / UNDERCARRIAGE	
type	crawler R83-450
system	mechanical, extendable tracks
drive	independent driven by an axial piston motor through a compact planetary
travel speed	stage I - 0-0.99 mph (0-1.6 km/h) stage II - 0-1.86 mph (0-3.0 km/h)
shoes	triple grouser, 35.4" (900 mm)
crawler	B8b maintenance-free tracks
steering	joystick steering
safety	travel alarm

REFILL CAPACITIES	
fuel tank	264 gal (1,000 L)
hydraulic tank	237 gal (900 L)

MAGNET SYSTEM	
rating	33 kW
voltage (magnetized)	230 V
current (cold condition)	175 Amps
controller	Hubbell
generator	Baldor
drive	hydraulic

WEIGHT	
operating weight	228,200 lb (103,500 kg) - 233,900 lb (106,100 kg)

Subject to technical modification.

Standard / Optional Equipment - 870 R-HDD “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)	○

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

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	●
Maxcab industry	○
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	○

UNDERCARRIAGE	
Heavy-duty designed material handling undercarriage	●
Heavy-duty crawler track frame	●
B8b maintenance-free tracks	●
Hydraulic chain tension device	●
Travel alarm	●

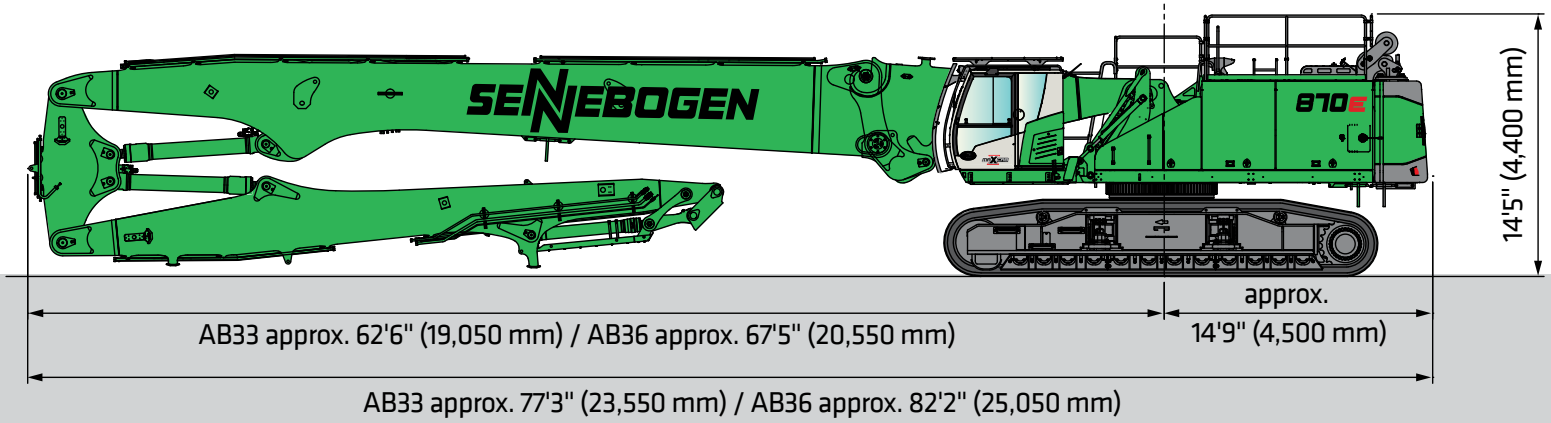
WORKING EQUIPMENT	
Purpose-built material handling boom	●
Green Hybrid energy recovery system	●
Purpose-built material handling stick	●
Attachment hydraulic line connections with ball valves	●
Safety check valves for stick cylinders	●
Safety check valves for boom cylinders	●
Cylinder end position dumping	●
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	○

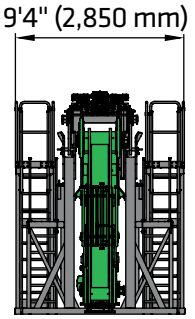
ATTACHMENTS	
Crusher	○
Demolition Grab	○
Demolition Hammer	○
Magnets	○
Quick Coupler	○
Scrap Shear	○
Orange Peel Grab	○
Waste/Trash Grapple	○

Standard Equipment ● **Optional** Equipment ○

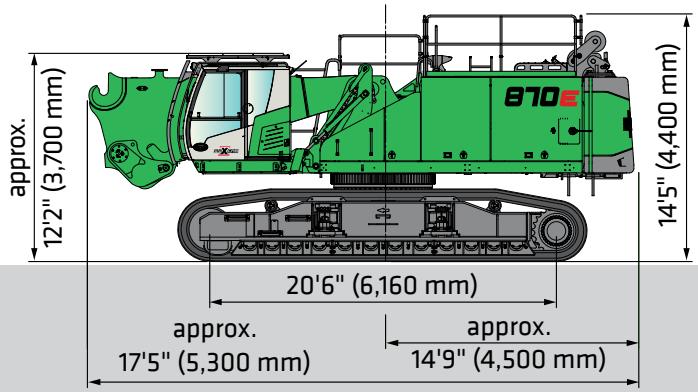
Subject to technical modification.

Transport Dimensions & Weights - 870 R-HDD “E”

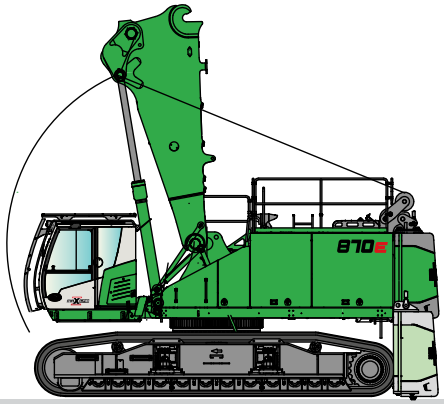




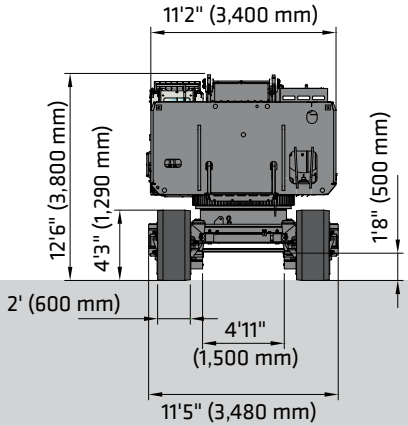
870 R-HDD with undercarriage T102/420 and 3-parts demolition equipment, hydraulically elevating cab Maxcab, tiltable 30°, ULM, Operating weight: approx. 251,327 lb - 257,941 lb (114,000 kg - 117,000 kg) (without tool)

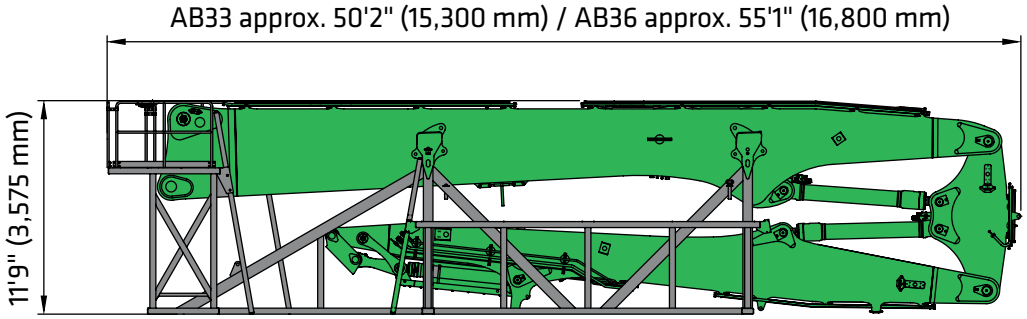


870 R-HDD basic machine including upper carriage railing and counterweight, transport weight approx. 202,825 lb (92,000 kg) including counterweight approx. 57,320 lb (26,000 kg)

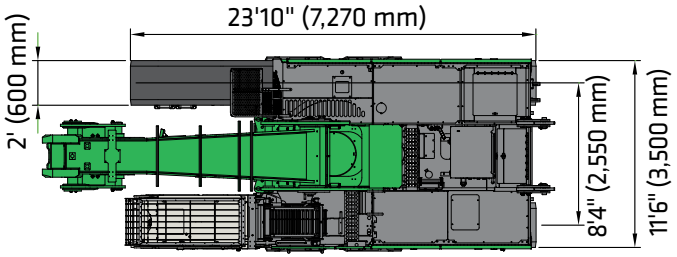


Self-mounting system for counterweight

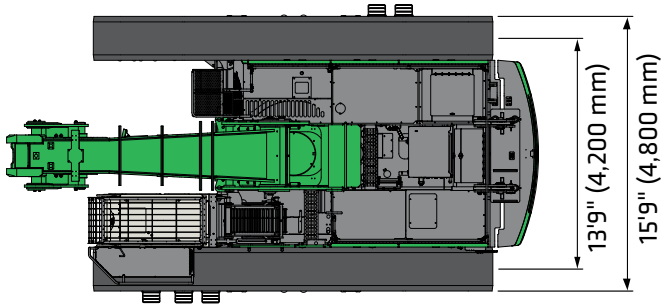




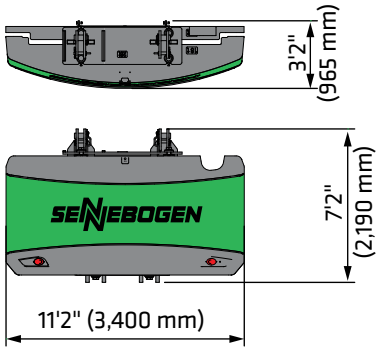
3-part demolition equipment including transport frame approx.
55,116 lb - 61,729 lb (25,000 kg - 28,000 kg)



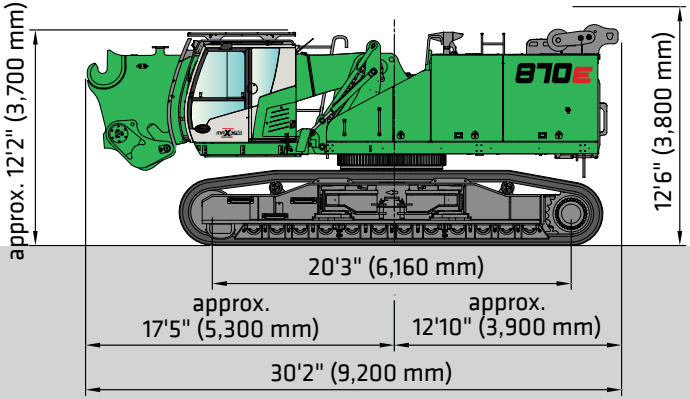
870 R-HDD basic machine undercarriage
retracted without counterweight



870 R-HDD basic machine undercarriage
telescoped including counterweight



counterweight:
57,320 lb (26,000 kg)



870 R-HDD basic machine without upper carriage railing, without
counterweight, transport weight approx. 145,505 lb (66,000 kg)

Lift Capacities - 870 R-HDD “E”

Working Equipment AB33

Reach	108'3" (33 m)
Boom	59'1" (18 m)
Stick	36'1" (11 m)

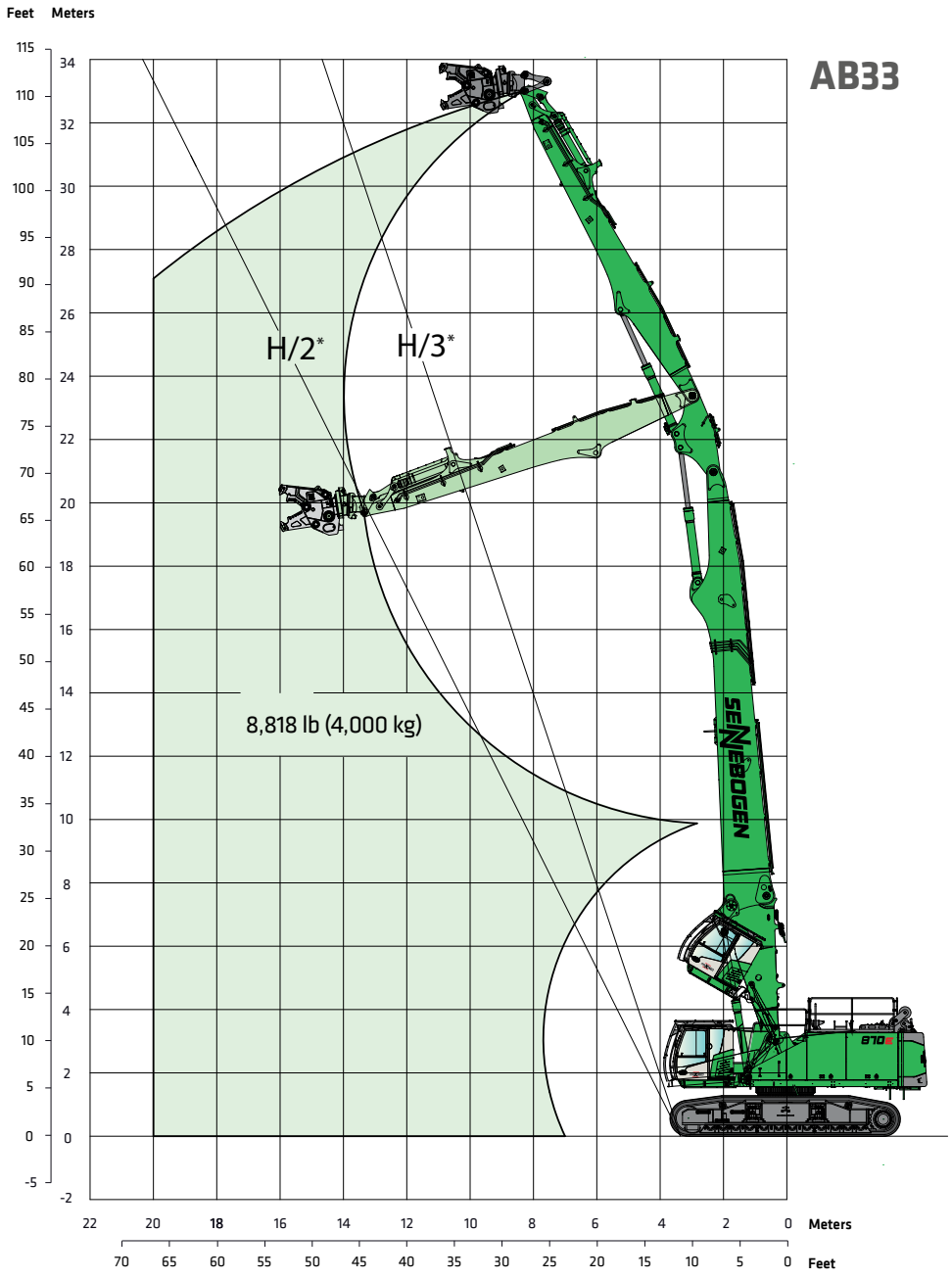
Operator’s Cab

Model	E270 Maxcab hydraulic elevating up tiltable by 30°
Eye level	approx 19' (5.8 m)

Undercarriage

Model	T102/420
Tracks	B6 triple grouser shoes 23.6" (600 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 manual provided be SENNEBOGEN. Capacities apply only to the machine as originally manufactured and equipped by SENNEBOGEN.



* Please note the safety distance according to BGV C22 between the machine and the demolition object (H=demolition height).

Lift Capacities - 870 R-HDD “E”

Working Equipment AB36

Reach	118'1" (36 m)
Boom	64' (19.5 m)
Stick	41' (12.5 m)

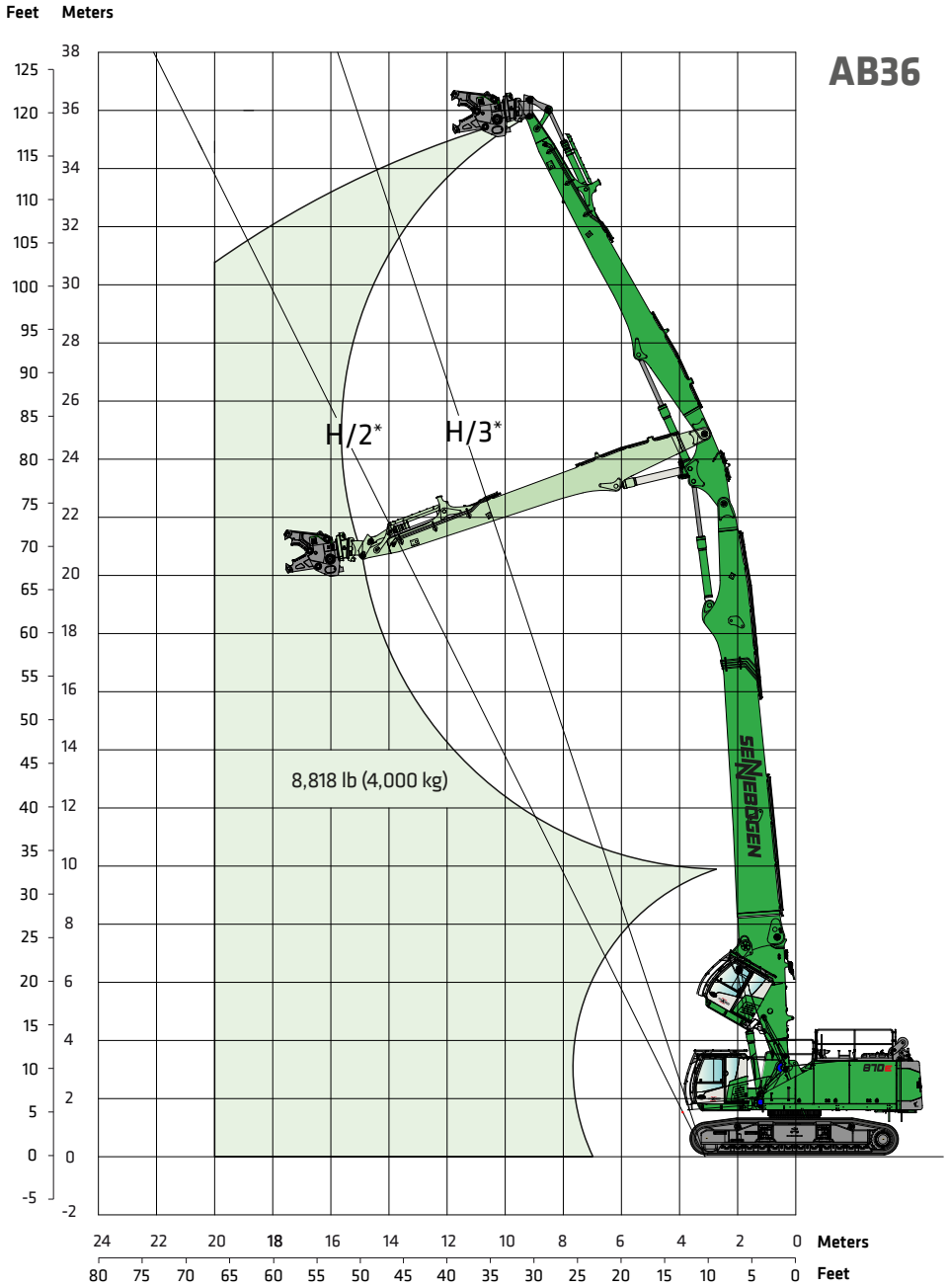
Operator’s Cab

Model	E270 Maxcab hydraulic elevating up tiltable by 30°
Eye level	approx 19' (5.8 m)

Undercarriage

Model	T102/420
Tracks	B6 triple grouser shoes 23.6" (600 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 manual provided by SENNEBOGEN. Capacities apply only to the machine as originally manufactured and equipped by SENNEBOGEN.



* Please note the safety distance according to BGV C22 between the machine and the demolition object (H=demolition height).

OUR COMPLETE LINE OF

PURPOSE-BUILT MATERIAL HANDLERS

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