



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:

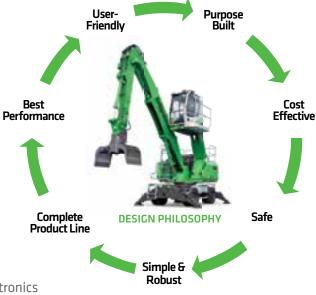
- Interchangeable components across multiple platforms Intelligent hydraulics in place of complex electronics

• Industry-standard service parts

• 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.











One Model: Many Choices

The SENNEBOGEN 818 is offered with a complete range of mobile and stationary undercarriages to provide the best fit for your operation and related equipment. The adaptability of the 818 diesel power and/or electric drive with multiple boom configurations allows customers to choose the right model to achieve their production goals without the added cost of custom engineering.

QUICK SPECS	818 M RUBBER TIRED	818 R-HD CRAWLER
Net Power	132 HP (98 kW)	132 HP (98 kW)
Operating Weight	48,060 lb (21,800 kg)	55,115 lb (25,000 kg)
Magnet System	10 kW	10 kW
Max reach	32'8" (10 m)	29'5" (9 m)

Power

With their purpose-built lifting capability and engineered eGreen efficiency, SENNEBOGEN material handling machines reduce both your operating costs and your environmental footprint whether you choose diesel power, electric drive or a combination of the two.

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

Cab Configurations

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



Platforms

The modular machine concept of the 818 provides one base model design that's available on any required mounting for gantries, rail cars, barges, ship applications and pedestal mounts.



Booms and Sticks

A wide choice of powerful boom and stick configurations allows the 818 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 818 material handling machines. Your machine will also accept a full range of standard attachments from all brand-name manufacturers including:



Orange Peel Grab



Log Grapple



Clamshell



Lifting Magnets



Mobile Shear Types



Waste/Trash Grapple



UNDERCARRIAGE



Stable footprint

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



Swing system

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



Multiple platforms

The modular 818 is designed to adapt to standard wheeled, tracked and pedestal mounts

CAB



Elevating Maxcab

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 control



SENCON

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



Entry/exit

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



Superior visibility

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

HYDRAULIC SYSTEM



Purpose-built design

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



Convenient servicing

All test ports are easily accessible in one place



HydroClean filtration

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

UPPER CHASSIS



Upper carriage

Guarding surrounds upper deck to enhance safety for service technicians



One-piece center frame

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



Reversible fan

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



OSHA-compliant

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



Longitudinal engine mount

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



Automatic lubrication

Extend component life with no waste, no spill hazards

Cylinder protection

specifically for material handling

frame to ensure uptime

applications. Hydraulic cylinders are

The boom and stick have been designed

mounted and protected by an open box

BOOM & STICK



Limit switches

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



Boom pivot

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

SAFETY



Safety rails

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



Fuses and relays

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



Sliding door

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



Bulletproof glass

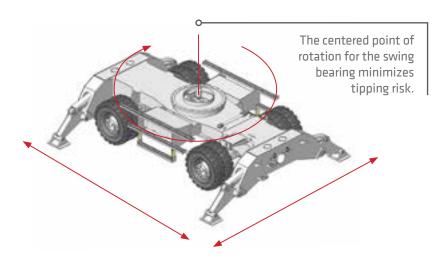
Bulletproof windshield and skylight are standard on all new SENNEBOGEN models

Health & Safety: 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 of your 818.



Various optional guarding packages available to meet industry safety requirements.



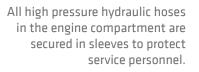
Dual cameras with views to the rear and to the right side are standard equipment.



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

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.









Maxcab's sliding door and 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 at ground level with easy access to all maintenance points.





Good For The Environment. Easy On The Budget.

SENNEBOGEN 818 E Series material handlers lead a new generation of machines that are both cost-saving and environmentally-friendly.

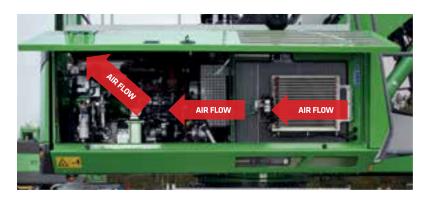
Creating a truly "green" machine takes more than a new energy-saving device.

Our "Green Efficiency" solution is built on layers of smart engineering and system innovations aimed at doing more with less. The 818 E Series material handlers reduce your costs and environmental footprint with multiple SENNEBOGEN initiatives.



Optional electrically powered eGreen models achieve an additional 50% reduction of energy costs over diesel models, along with low noise and vibration-free operation.

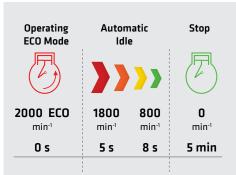




Longitudinally mounted engines provide a natural, flow-through air tunnel for efficient cooling and additional fuel economy, while adding structural strength to the upper carriage from boom pin point to counterweight.



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





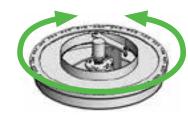
Attention To Details Makes Us Stronger

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

Reliability and durability are engineered into the details of your 818, 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 818 is 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 under carriage.

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.



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





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, matched to specific service tasks and machines. Hundred 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 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.



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 m²) 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.











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

each with many years of

Visit us online at

knowledge.

units, demonstration modules and

is staffed with professional trainers

www.sennebogen-na.com/training

in-field experience and hands-on

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.

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 Trouble Shooting: 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 D-Series Service Level 1 E-Series Service Level 2 E-Series **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 Trouble Shooting
- Component Training & Repair
- Failure Analysis
- In-Depth Trouble Shooting 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.

Truly a Center for developing excellence in service



Purpose-Built Facilities

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

- We fabricate our own booms and sticks
- Our line-up 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.













The Right Tools For Every Job Ensures Maximum Uptime

Keep your 818 E "purpose-built" from end to end with your choice of genuine SENNEBOGEN attachments.

SENNEBOGEN grapples and lifting magnets 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 for your SENNEBOGEN material handler, these attachments ensure that you always get the most productivity from your machine.

Available only from your authorized SENNEBOGEN dealer, *green machine* attachments qualify as part of your total SENNEBOGEN Capital financing package.



Orange Peel **Grapples**

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

- Rotator design with 360° rotation
- 4-tine and 5-tine scrap grapples from .5 to 5.0 cu. vd.



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
- All common sizes from 30" to 72" (762 mm to 1,828 mm)



Waste **Grapples**

Extra wide jaw and elongated head structure to grab large loads in transfer stations and wood waste handling

- Heavy-duty 5,000 PSI hydraulic cylinders
- Load capacity 0.4 and 0.6 yard



Mag **Grapples**

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

- 360° rotation; designed for both high radial and axial loads
- Grapples from .75 to 1.5 cu. yd. with magnets from 30" to 44" (762 mm to 1,118 mm) diameter



SPECIFICATIONS INDEX

818 M "E"
Technical Specifications
818 R-HD "E"
Technical Specifications
Standard / Optional Equipment 34-35





Technical Specifications - 818 M "E"

ENGINE	
model	Cummins QSB4.5-C130
type	in-line, 4 cylinder, cooled exhaust gas recirculation, water cooled
emission	EPA Tier 4 Final
net power	132 HP (97 kW) @ 2,200 rpm
injection	high pressure common-rail
displacement	275 cu. in. (4.5 L)
bore	4.21 in (107 mm)
stroke	4.88 in (124 mm)
aspiration	turbo charged, charge air cooled
fuel tank	87 gal (330 L)
air filtration	direct flow filtration system dual stage filter with pre-filter
control	integrated ECM automatic idle - stop eco mode

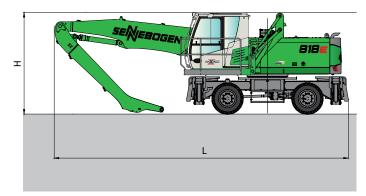
HYDRAULIC SYSTEM	
system type	LUDV load sensing pilot pressure controlled open center
pump type	variable-displacement axial-piston pump
max. pump flow	82 gal (310 l/min)
max. pressure	5,076 psi (350 bar)
hydraulic tank	69 gal (260 L)
filtration	dual filtration system 3 micron (HydroClean)
COOLING	
cooling 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	95 V/Ah
starter	24 V, 4.8 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 / UNDERCA	
type	rubber tired MP21E
drive system	all-wheel drive, variable displacement motor with dual stage power shift transmission
travel speed	1st 0-3.4 mph (0-5.5 km/h) 2nd 0-12.43 mph (0-20 km/h)
tires	8 x 10.00-20 (solid rubber)
steering	joystick steering
front axle	oscillating with hydraulic lock, integrated safety check valves
rear axle	fixed
service brake	disc brake
parking brake	multidisc brake spring loaded
safety	travel alarm

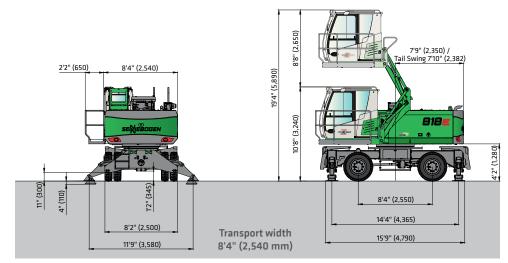
REFILL CAPACITIES	
fuel tank	87 gal (330 L)
engine cooling system	10.6 gal (40 L)
engine oil w / filter	4.8 gal (18 L)
hydraulic tank	69 gal (260 L)
axle hub (front axle)	0.66 gal (2.5 L)
axle hub (rear axle)	0.66 gal (2.5 L)
axle differential (front axle)	2.51 gal (9.5 L)
axle differential (rear axle)	2.51 gal (9.5 L)
axle transmission	0.66 gal (2.5 L)
central lubrication reservoir	5.5 lb (2.5 kg)
WEIGHT	
operating weight	48,060 lb (21,800 kg)

Subject to technical modification.

Dimensions - 818 M "E"

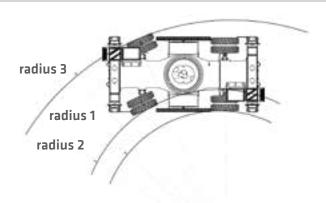


818 M undercarriage type MP21E



818 M with undercarriage MP21E and hydraulic elevating cabin type E270

	Boom	Stick	Transport Length (L)	Transport Height (H)
K9 ULM	17'5" (5.3 m)	12'6" (3.8 m) ULM	28'7" (8.7 m)	10'8" (3.25 m)
К9	17'5" (5.3 m)	12'6" (3.8 m)	28'7" (8.7 m)	10'8" (3.25 m)
K10 ULM	20'4" (6.2 m)	12'6" (3.8 m) ULM	31'6" (9.6 m)	10'8" (3.25 m)
K10	20'4" (6.2 m)	13'9" (4.2 m)	31'6" (9.6 m)	10'8" (3.25 m)



Undercarriage	Radius 1	Radius 2	Radius 3
818 M "E"	31'2" (9.5 m)	34'9" (10.6 m)	50'2" (15.3 m)

Working Equipment K10

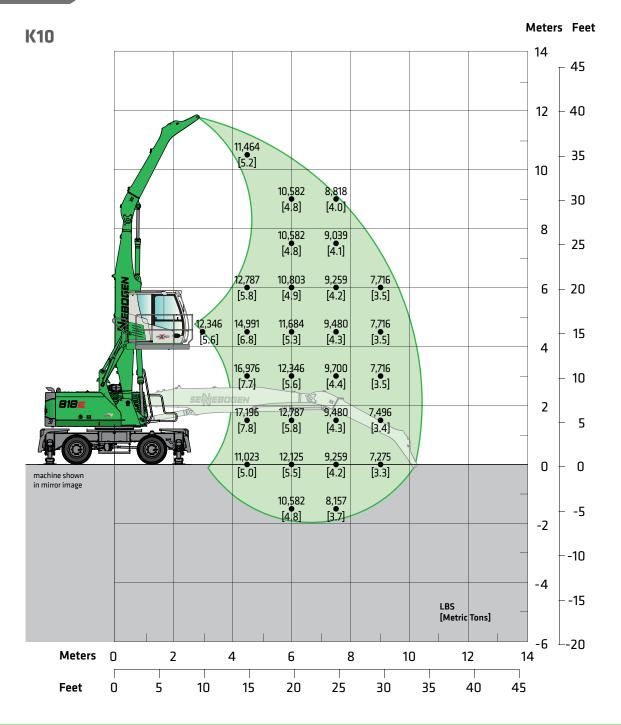
Reach	34'2" (10.42 m)
Boom	20'4" (6.2 m)
Stick	13'9" (4.2 m)

Operator's Cab

Model	E270 Maxcab hydraulic elevating up 8'8" (2.65 m elevation)
Eye level	approx. 17'7" (5.35 m)

Undercarriage

Model	MP21E 4-point outriggers
Tires	10.00-20 solid rubber



Working Equipment K9

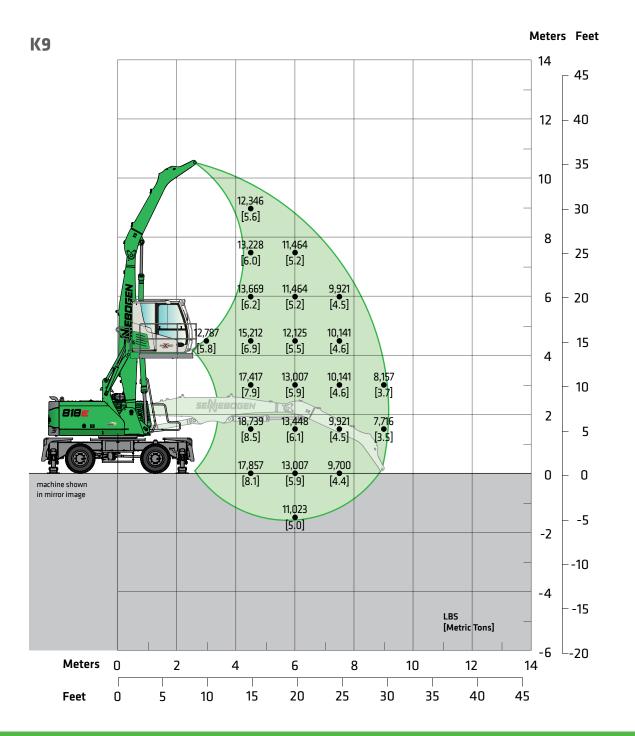
Reach	30'1" (9.17 m)
Boom	17'5" (5.3 m)
Stick	12'6" (3.8 m)

Operator's Cab

Model	E270 Maxcab hydraulic elevating up 8'8" (2.65 m elevation)
Eye level	approx. 17'7" (5.35 m)

Undercarriage

Model	MP21E 4-point outriggers
Tires	10.00-20 solid rubber



Working Equipment K10 ULM

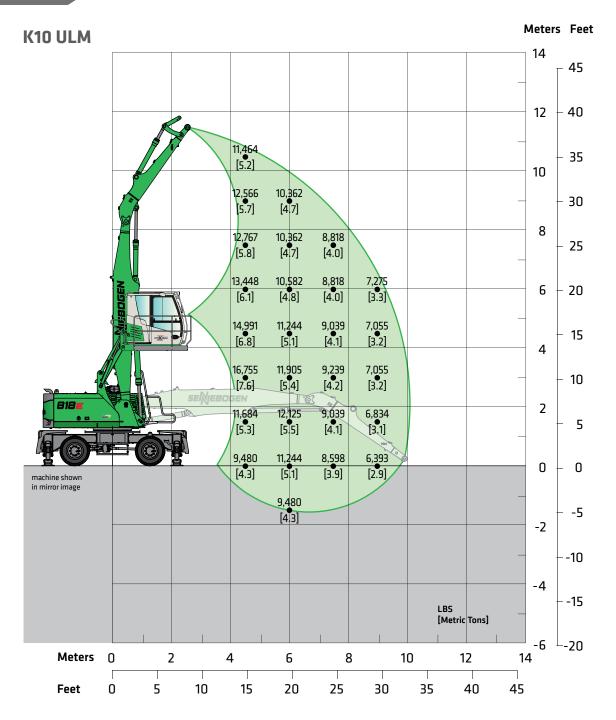
Reach	33'2" (10.1 m)
Boom	20'4" (6.2 m)
Stick	12'6" (3.8 m) ULM

Operator's Cab

Model	E270 Maxcab hydraulic elevating up 8'8" (2.65 m elevation)
Eye level	approx. 17'7" (5.35 m)

Undercarriage

Model	MP21E 4-point outriggers
Tires	10.00-20 solid rubber



Working Equipment K9 ULM

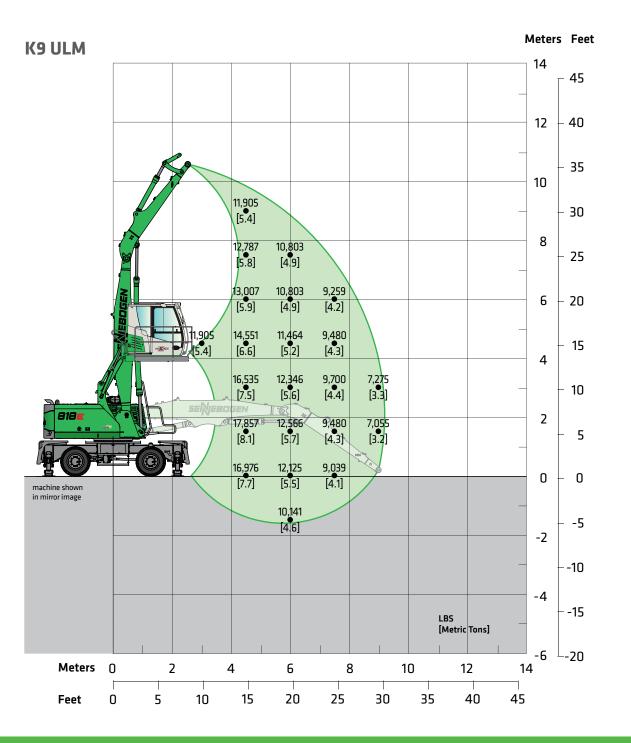
Reach	30'2" (9.2 m)
Boom	17'5" (5.3 m)
Stick	12'6" (3.8 m) ULM

Operator's Cab

Model	E270 Maxcab hydraulic elevating up 8'8" (2.65 m elevation)
Eye level	approx. 17'7" (5.35 m)

Undercarriage

Model	MP21E 4-point outriggers
Tires	10.00-20 solid rubber



Technical Specifications - 818 R-HD "E"

ENGINE	
model	Cummins QSB4.5-C130
type	in-line, 4 cylinder,
	cooled exhaust gas recirculation, water cooled
emission	EPA Tier 4 Final
net power	132 HP (97 kW) @ 2,200 rpm
injection	high pressure common-rail
displacement	275 cu. in. (4.5 L)
bore	4.21 in (107 mm)
stroke	4.88 in (124 mm)
aspiration	turbo charged, charge air cooled
fuel tank	87 gal (330 L)
air filtration	direct flow filtration system dual stage filter with pre-filter
control	integrated ECM automatic idle - stop eco mode

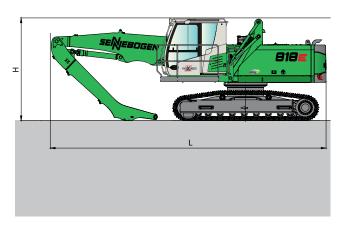
	eco mode
HYDRAULIC SYSTEM	
system type	LUDV load sensing pilot pressure controlled open center
pump type	variable-displacement axial-piston pump
max. pump flow	82 gal (310 l/min)
max. pressure	5,076 psi (350 bar)
hydraulic tank	69 gal (260 L)
filtration	dual filtration system 3 micron (HydroClean)
COOLING	
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	95 V/Ah
starter	24 V, 4.8 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 rbox, 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 / UNDERCA	· · · · · · · · · · · · · · · · · · ·
type	crawler R25/240
system	fixed wide gauge
drive	independent driven by an
	axial piston motor through
	a compact planetary
travel speeds	0-1.5 mph (0-2.4 km/h)
shoes	26.6" (600 mm) (triple grouser)
crawler	B4HD maintenance free
steering	foot pedals / levers
safety	travel alarm

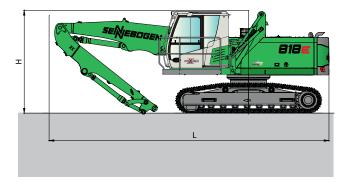
REFILL CAPACITIES	
fuel tank	87 gal (330 L)
engine cooli ng system	10.6 gal (40 L)
engine oil w / filter	7.53 gal (28.5 L)
hydraulic tank	69 gal (260 L)
hydraulic system	180 gal (680 L)
swing gear (each)	1.06 gal (4.0 L)
final drive (each)	2.38 gal (9.0 L)
swing ring lubrication reservoir	0.26 gal (1.0 L)
central lubrication reservoir	5.5 lb (2.5 kg)
WEIGHT	
operating weight	55,115 lb (25,000 kg)

Subject to technical modification.

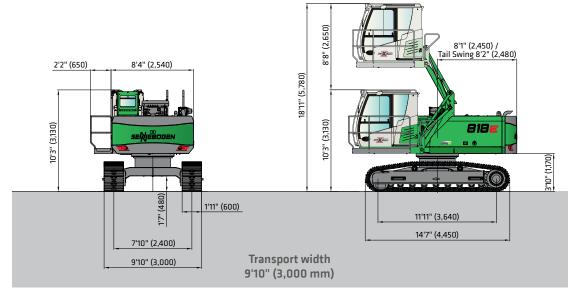
Dimensions - 818 R-HD "E"



818 R-HD undercarriages type R25/240 and working equipment K9



818 R-HD with K9 compact boom ULM 17'5" (5.3 m) and loading stick 12'6" (3.8 m)



818 R-HD with undercarriage R25/240 and hydraulic elevating cabin type E270

	Loading Boom	Grabstick	Transport Length (L)	Transport Height (H)
K9 ULM	17'5" (5.3 m)	12'6" (3.8 m) ULM	27'11" (8.5 m)	10'4" (3.15 m)
К9	17'5" (5.3 m)	12'6" (3.8 m)	27'11" (8.5 m)	10'4" (3.15 m)
K10 ULM	20'8" (6.3 m)	12'6" (3.8 m) ULM	31'2" (9.5 m)	10'4" (3.15 m)
K10	20'8" (6.3 m)	12'6" (3.8 m)	31'2" (9.5 m)	10'4" (3.15 m)

Working Equipment K10

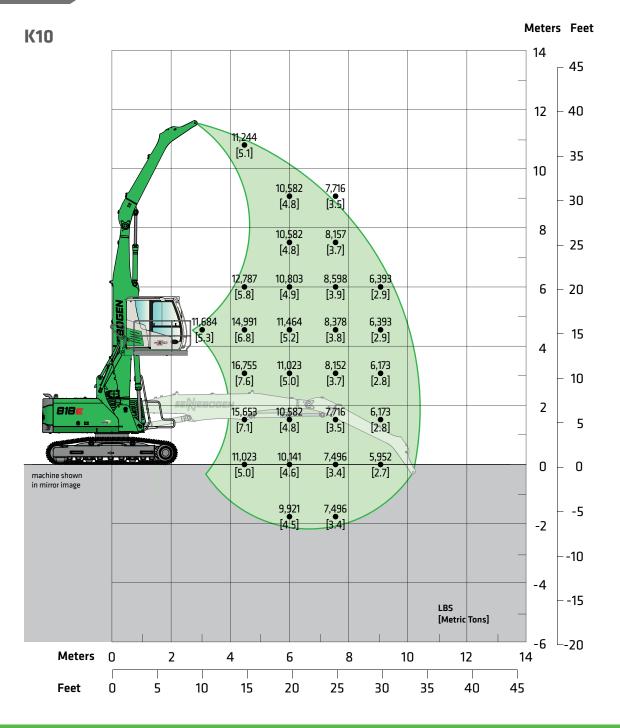
Reach	34'2" (10.42 m)
Boom	20'4" (6.2 m)
Stick	13'9" (4.2 m)

Operator's Cab

Model	E270 Maxcab hydraulic elevating up 8'8" (2.65 m elevation)
Eye level	approx. 17'7" (5.35 m)

Undercarriage

Model	R25/240 B4HD
Tires	23'6" (600 mm) triple grouser shoes



Working Equipment K9

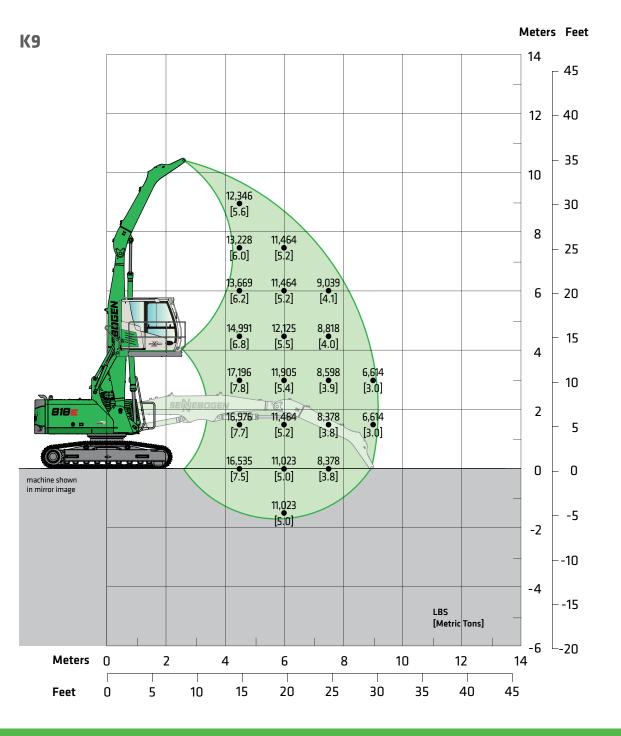
Reach	30'1" (9.17 m)
Boom	17'5" (5.3 m)
Stick	12'6" (3.8 m)

Operator's Cab

Model	E270 Maxcab hydraulic elevating up 8'8" (2.65 m elevation)
Eye level	approx. 17'7" (5.35 m)

Undercarriage

Model	R25/240 B4HD
Tires	23'6" (600 mm) triple grouser shoes



Working Equipment K10 ULM

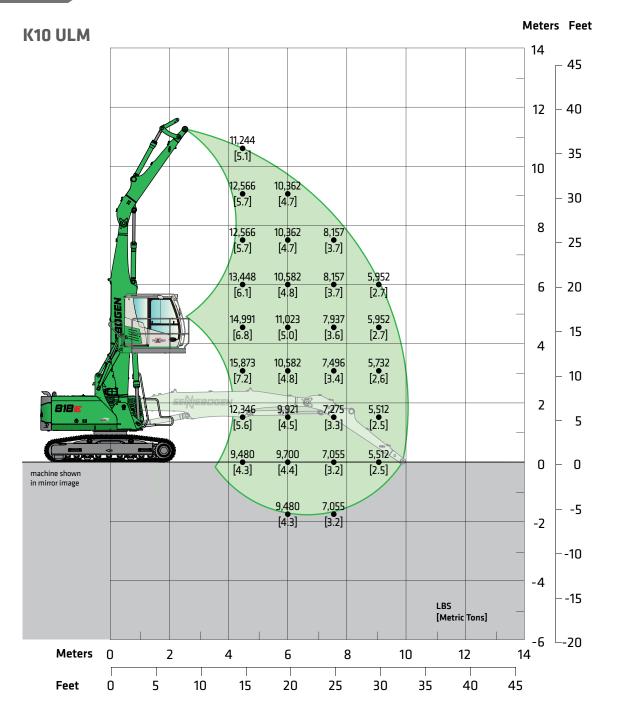
Reach	33'2" (10.1 m)
Boom	20'4" (6.2 m)
Stick	12'6" (3.8 m) ULM

Operator's Cab

Model	E270 Maxcab hydraulic elevating up 8'8" (2.65 m elevation)
Eye level	approx. 17'7" (5.35 m)

Undercarriage

Model	R25/240 B4HD
Tires	23'6" (600 mm) triple grouser shoes



Working Equipment K9 ULM

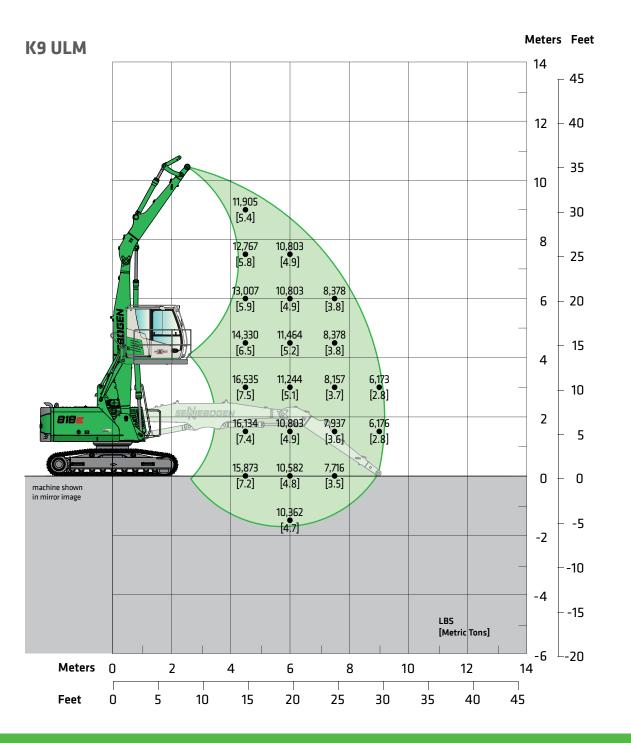
Reach	30'2" (9.2 m)
Boom	17'5" (5.3 m)
Stick	12'6" (3.8 m) ULM

Operator's Cab

Model	E270 Maxcab hydraulic elevating up 8'8" (2.65 m elevation)
Eye level	approx. 17'7" (5.35 m)

Undercarriage

Model	R25/240 B4HD
Tires	23'6" (600 mm) triple grouser shoes



Standard / Optional Equipment

ENGINE	818 M	818 R-HD
Water separator in fuel line	•	•
Automatic idle / engine stop control	•	•
Eco mode	•	•
Air filter pre-cleaner	•	•
Visual fuel tank check	•	•
Heated water separator	•	•
Engine block pre-heater	0	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 (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	0	0
Biodegradable hydraulic oil	0	0
Hydraulic circuit for scrap shear	0	0
Hydraulic circuit for hammer, breaker	0	0
Additional hydraulic circuits	0	0
MAGNET SYSTEM		
Hydraulic driven generator	•	•
Magnet controller	•	•
Magnet suspension link	0	0

UPPER CARRIAGE	818 M	818 R-HD
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	0
Custom colors	0	0
Seawater paint coating	0	0
OPERATOR'S CAB (Maxcab)		
Hydraulic elevating cab system E270	•	•
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	•	•
Halogen light package on cab roof	•	•
Mechanical hour meter	•	•
Sliding door	•	•
Catwalk w / handrail	•	•
12 V / 24 V power outlet	•	•
Windshield wiper and washers	•	•

Standard / Optional Equipment

OPERATOR'S CAB (Maxcab) continued	818 M	818 R-HD
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	0	0
Windshield protection guard	0	0
Skylight protection guard	0	0
Skylight FOPS guard	0	0
Polycarbonate side windows	0	0
Additional light package	0	0
Fixed cab elevation	0	0
Steering column instead of joystick steering	0	0
Steering column in combination with joystick steering	0	0
Additional cameras	0	0
Operator's cab with floor window	N/A	N/A
ATTACHMENTS		
Orange peel grapple	0	0
Clamshell	0	0
Magnet	0	0
Log grapple	0	0
Scrap shear	0	0
Power attachment	0	0
Live heel / dead heel	0	0
SWING SYSTEM		
Automatic lubrication system	•	•

UNDERCARRIAGE	818 M	818 R-HD
Robust designed material handling under carriage	•	N/A
Heavy duty axles	•	N/A
Solid rubber tires 10.00-20 (8x) incl. intermediate ring	•	N/A
Crawler undercarriage with mechanical fixed tracks	N/A	•
Heavy duty crawler track frame	N/A	•
23.6" (600 mm) triple grouser track shoes, canted	N/A	•
Maintenance free crawler B4HD	N/A	•
Hydraulic chain tension device	N/A	•
Front axle automatic oscillating axle unlock (travel position)	•	N/A
Dual stage power shift transmission	•	N/A
Drive train protection guards	•	N/A
Travel alarm	•	•
Centralized lubrication points	•	•
Servo brake system	•	•
4-point outriggers	0	N/A
Integrated safety check valves in outrigger cylinders	•	N/A
Tool and storage compartments, lockable	•	N/A
Individual outrigger control	•	N/A
Towing hitch package	0	0
Pneumatic tires 10.00-20 (8x)	0	N/A
WORKING EQUIPMENT		
Purpose-built material handling boom	•	•
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	•	•
Bronze bushings connected to automatic lubrication system	•	•
Stick limitation	•	•
Boom limitation	0	0
LED light package boom	0	0
LED light package stick	0	0
Purpose-built material handling stick with reversing linkage	0	0
Purpose-built material nanding stick with reversing linkage		

Standard Equipment

Optional Equipment O

Subject to technical modification.

OUR COMPLETE LINE OF **PURPOSE-BUILT**

