

Technical Specifications

SENNEBOGEN Rubber Tired Material Handler

PRELIMINARY



Leading Through Innovation

Engine _____
Model Cummins QSB 4.5, Tier 4 Final
Net Power 132 HP (97 kW)

Operating Weight _____
M/rubber tired 48,060 lb (21,800 kg)

Reach _____
Standard 34'2" (10.42 m)

Magnet System _____
Rating 9 kW

818E_M

SENNEBOGEN

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) @ 2200 rpm
injection	high pressure common-rail
displacement	4.5 L (272 cu.in.)
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
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
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
WEIGHT	
operating weight	48,060 lb (21,800 kg)

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	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 (2.9 L)
central lubrication reservoir	5.5 lb (2.5 kg)
MAGNET SYSTEM	
rating	9 kW
voltage (magnetized)	230 V
current (cold condition)	39 Amps
drive	hydraulic

Subject to technical modification.

Standard / Optional Equipment 818 M “E”

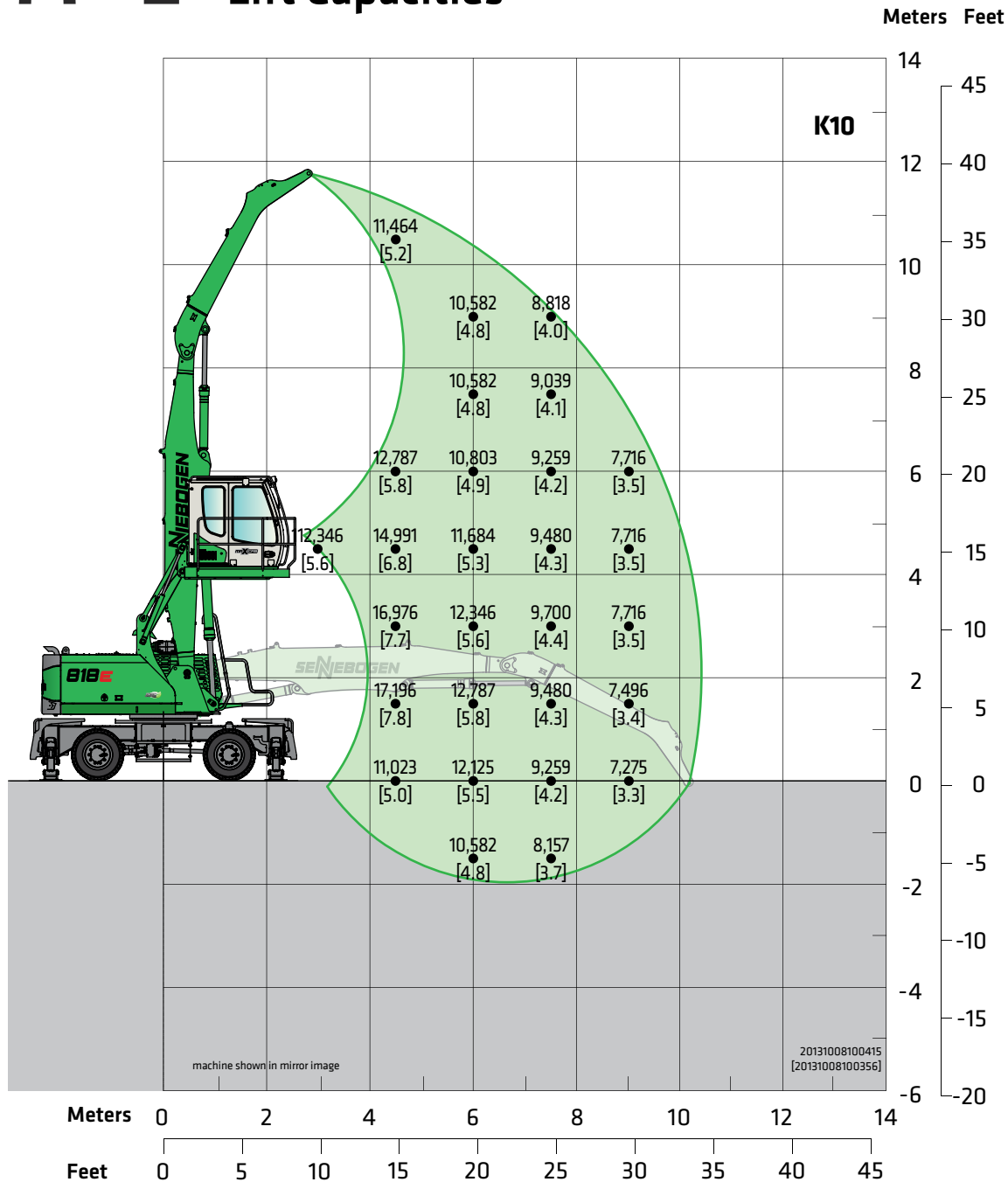
ENGINE	
Water separator in fuel line	●
Automatic idle / engine stop control	●
Eco mode	●
Air Filter Pre-cleaner	●
Visual fuel tank check	●
Heated water separator	●
Engine block pre-heater	○
ELECTRIC	
Battery disconnect switch	●
Centralized fuse box	●
Battery jump start connection from ground level	●
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	○
UPPER CARRIAGE	
Rear view & right side view camera system	●
Automatic lubrication system	●
Anti-slip mats on walking area	●
Lockable side doors	●
Handrails on top of upper carriage	●
Mirror left side	●
Turning signal lights in upper carriage frame	●
Removable panels	●
Additional light package	○
Custom colors	○
Seawater paint coating	○
UNDERCARRIAGE	
Robust designed material handling under carriage	●
Heavy duty axles	●
Solid rubber tires 10.00-20 (8x) incl. intermediate ring	●
Front axle automatic oscillating axle unlock (travel position)	●
Dual stage power shift transmission	●
Drive train protection guards	●
Travel alarm	●
Centralized lubrication points	●
2 circuit servo brake system	●
4-point outriggers	●
Integrated safety check valves in outrigger cylinders	●
Tool and storage compartments, lockable	●
Individual outrigger control	●
Towing hitch package	○
Pneumatic tires 10.00-20 (8x)	○
MAGNET SYSTEM	
Hydraulic driven generator	●
Magnet controller	●
Magnet suspension link	○
SWING SYSTEM	
Automatic lubrication system	●

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	●
AM / FM Radio with CD player & speakers	●
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 over front window	●
Outside mirror	●
Optical and acoustic warning system	●
Positive filtered ventilation (pressurized cab)	●
Safety check valves for elevating cab cylinder	●
Foot rest	●
maXCab industry	○
Windshield protection guard	○
Skylight protection guard	○
Skylight FOPS guard	○
Bullet proof windshield	○
Bullet proof skylight	○
Polycarbonate side windows	○
Additional light package	○
Fixed cab elevation	○
Operator's cab with floor window	○
Steering column instead of joystick steering	○
Steering column in combination with joystick steering	○
Additional cameras	○
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	○
Halogen light package boom	○
Purpose-built material handling stick with reversing linkage	○
Purpose-built material handling boom for scrap shears	○
ATTACHMENTS	
Orange peel grapple	○
Clamshell	○
Magnet	○
Log grapple	○
Scrap shear	○
Power attachment	○
Live heel / dead heel	○

Subject to technical modification.

Standard Equipment ●
Optional Equipment ○

818 M "E" Lift Capacities



Working Equipment K10

reach	34'2" (10.42 m)
boom	20'4" (6.2 m)
stick	13'9" (4.2 m)

Operator's Cab

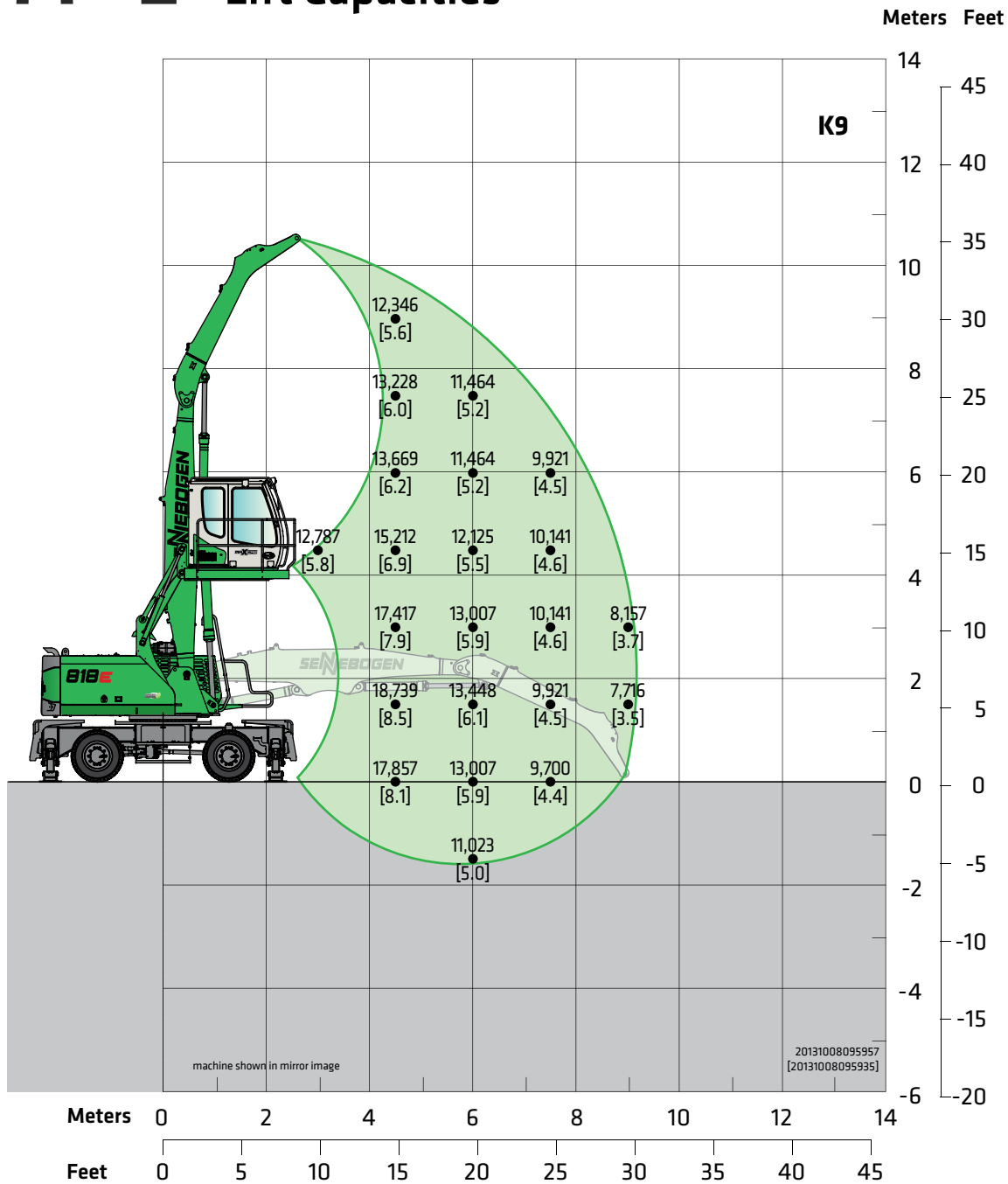
model	E270 maXCab
	hydraulic elevating up
	8'8" (2.65 m elevation)
eye level	approx. 17'7" (5.35 m)

Undercarriage

model	MP21E
	4-point outriggers
tires	10.00-20
	solid rubber

Lift capacities are stated in pounds. Values in brackets [] are stated in metric tons. Indicated figures are based on ISO 10567 and do not exceed 75% or tipping and 87% of hydraulic capacity and machine standing on firm, level supporting surface. Loads are valid for 360° with machine support on 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 lifting 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.

818 M "E" Lift Capacities



Working Equipment K9

reach	30'1" (9.17 m)
boom	17'5" (5.3 m)
stick	12'6" (3.8 m)

Operator's Cab

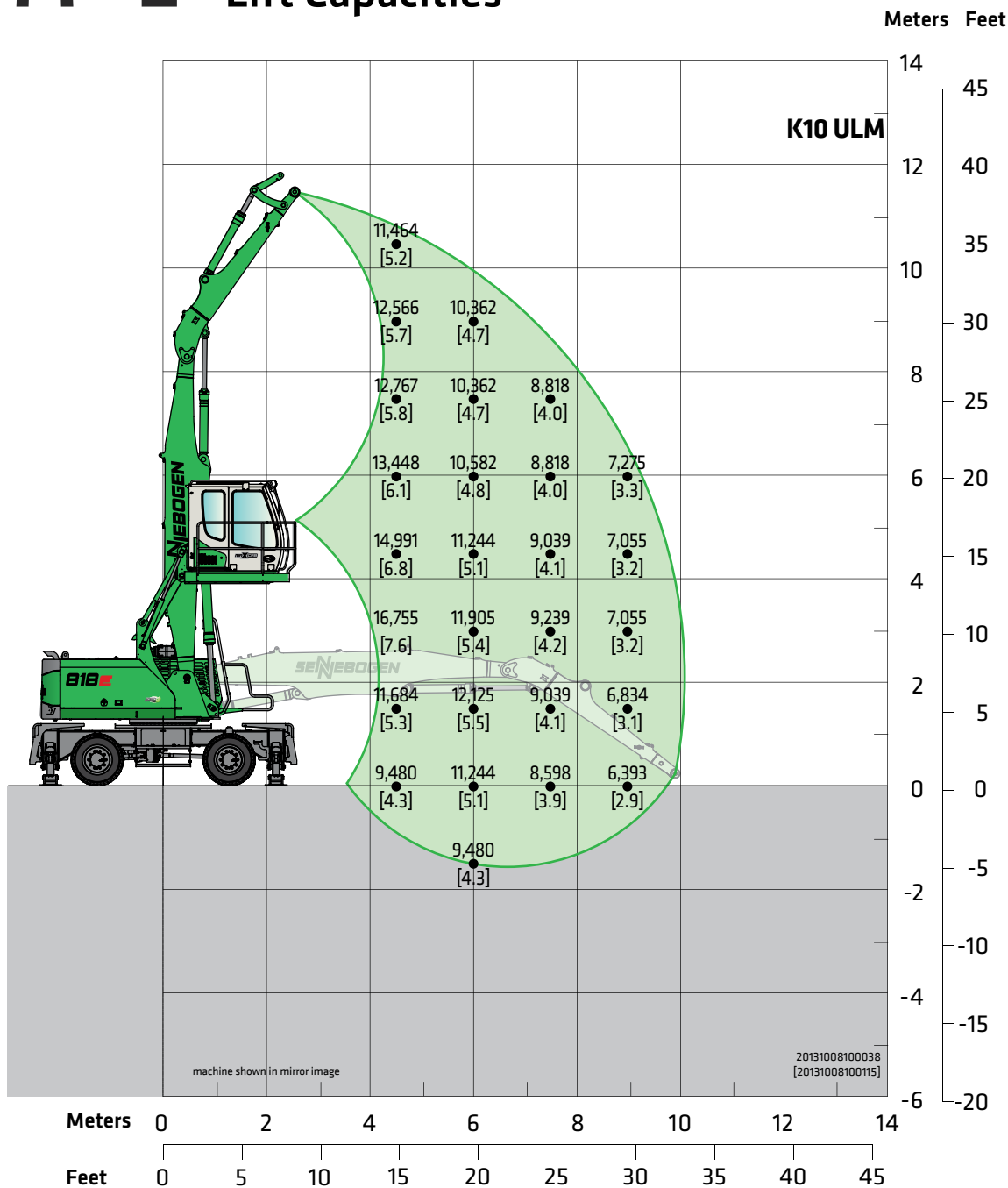
model	E270 maXCab
	hydraulic elevating up
	8'8" (2.65 m elevation)
eye level	approx. 17'7" (5.35 m)

Undercarriage

model	MP21E
	4-point outriggers
tires	10.00-20
	solid rubber

Lift capacities are stated in pounds. Values in brackets [] are stated in metric tons. Indicated figures are based on ISO 10567 and do not exceed 75% or tipping and 87% of hydraulic capacity and machine standing on firm, level supporting surface. Loads are valid for 360° with machine support on 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 lifting 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.

818 M "E" Lift Capacities



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

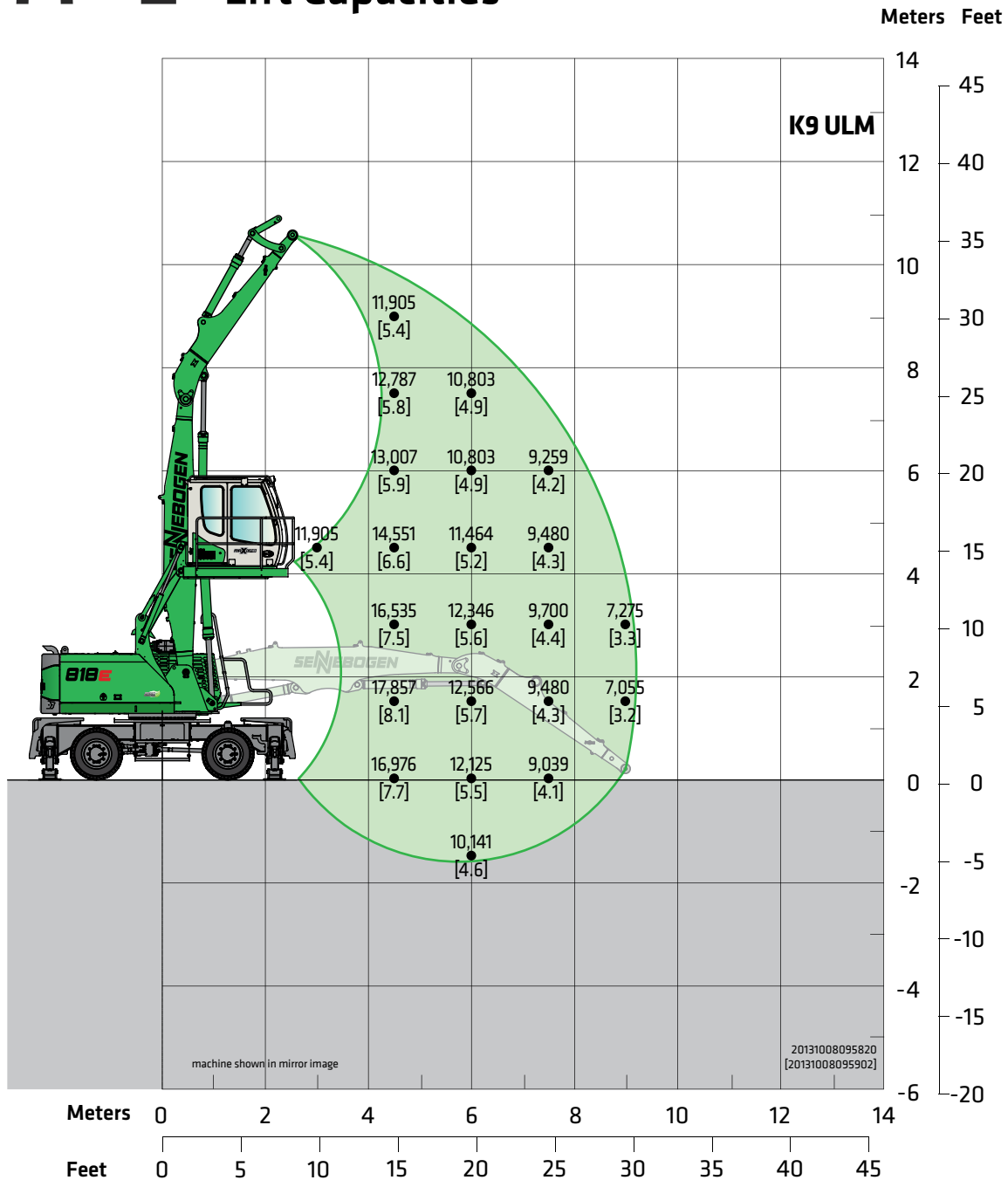
model	E270 maXCab
	hydraulic elevating up
eye level	8'8" (2.65 m elevation)
	approx. 17'7" (5.35 m)

Undercarriage

model	MP21E
	4-point outriggers
tires	10.00-20
	solid rubber

Lift capacities are stated in pounds. Values in brackets [] are stated in metric tons. Indicated figures are based on ISO 10567 and do not exceed 75% or tipping and 87% of hydraulic capacity and machine standing on firm, level supporting surface. Loads are valid for 360° with machine support on 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 lifting 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.

818 M "E" Lift Capacities



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)

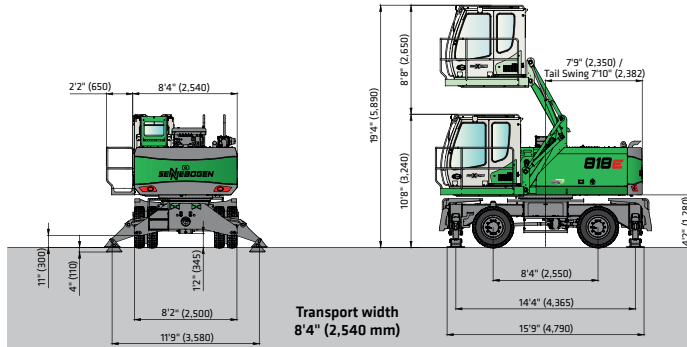
Undercarriage

model	MP21E
	4-point outriggers
tires	10.00-20
	solid rubber

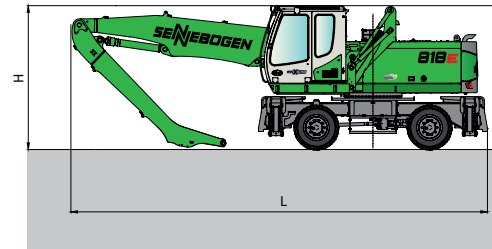
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818EM

Transport dimensions

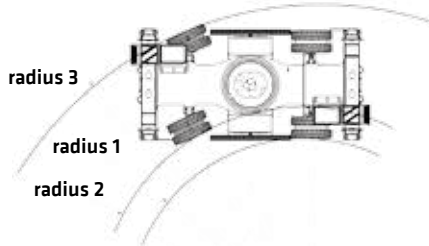


818 M with undercarriage MP21E and hydraulic elevating cabin type E270



818 M undercarriage type MP21E

	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)
K9	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)

"Under our policy of continuous improvements we reserve the right to change specifications, materials and design without prior notice. The illustrations shown may include optional equipment. Always refer to the appropriate Operation and maintenance manual for specific product information. See your local **SENNEBOGEN** dealer for further information."

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