





Rubber Tired (M) - 100,000 lb (45,360 kg)
 Crawler (R-HD) - 120,151 lb (54,500 kg)



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:

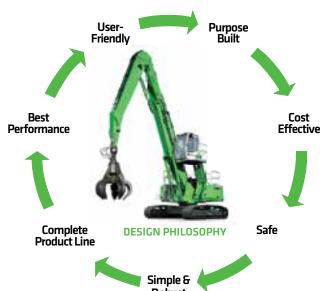
• Interchangeable components across multiple platforms • Intelligent hydraulics in place of complex electronics

• 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.



custom engineering.







QUICK SPECS	835 M RUBBER TIRED	835 R-HD CRAWLER TRACKS
Net Power	305 HP (224 kW)	305 HP (224 kW)
Operating Weight	100,000 lbs (45,360 kg)	120,151 lbs (54,500 kg)
Magnet System	25 kW	25 kW
Max reach	59' (18 m)	59' (18 m)

835

One Model: Many Choices

The SENNEBOGEN 835 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 835 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

Designed and Manufactured To Give You Total Confidence



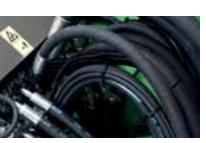
835

Safety First

SENNEBOGEN's safety-first engineering leads the industry with ground-to-cab guarding, 360° visibility and safe service access.

PG6





Efficiency & Economy

Designed for high throughput and productivity, the 835 achieves the most rigorous environmental goals while reducing operational costs for energy, downtime and service parts.

PG8

Simplicity & Reliability

Generations of experience drive SENNEBOGEN's focus on simple structural and hydraulic design for built-in durability and uptime regardless of your 835's application.





Serviceability

Virtually all daily maintenance on the 835 can be completed from ground level, with service components conveniently grouped and labelled for easy servicing.

PG12



Service & Support

America's largest inventory of material handler service components and the best-trained dealer network ensures ready access to the parts and skills to keep your 835 up and running.

PG14



Purpose-Built

SENNEBOGEN's modular design concept gives us flexibility to match your specific configuration needs without requiring costly modifications.

PG16

835 Specifications

Get all the details, specifications, dimensions, lifting charts and available options for the 835 M and the 835 R-HD units.

PG20







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.

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
- Floor window



Platforms

The modular machine design of the 835 adapts easily to any required mounting for gantries, rail cars, barges and ship applications.



Booms and Sticks

A wide choice of powerful boom and stick configurations allows the 835 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 835 material handling machines. Your machine will also accept a full range of standard attachments from all brand-name manufacturers including:



Orange Peel Grab







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

CAB

Elevating Maxcabs

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

Joystick steering

Unobstructed view for operator with highly responsive control

SENCON

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

HYDRAULIC SYSTEM



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

UPPER CHASSIS

Multiple platforms

The modular 835 is designed to adapt to standard wheeled, tracked and pedestal mounts

Entry/exit

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

Superior visibility

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

HydroClean filtration

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

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

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

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

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

Various optional guarding packages available to meet industry safety requirements.

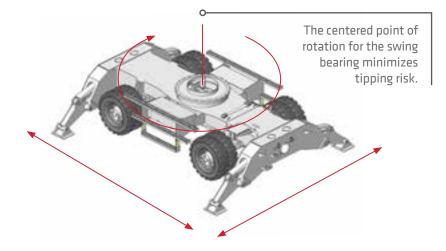
Health & Safety: The First Step To Productivity

83

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 835.





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.

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



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

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

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



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

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



Good For The Environment. Easy On The Budget.

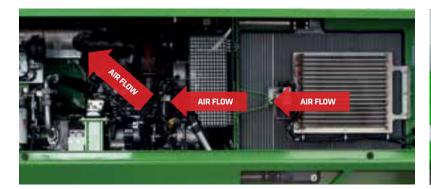
SENNEBOGEN 835 E-Series material handlers lead a new generation of machines that are both cost-saving and environmentally-friendly.

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 835 E 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.



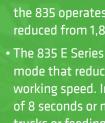


Longitudinally mounted engines provide a natural, flow-through air tunnel for efficient cooling and additional fuel economy, while adding structural strength to the upper carriage from boom pin point to counterweight.



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





specified time.



Along with saving fuel costs, electric-drive models reduce operating costs. With no engine servicing required and no downtime to refuel, machine availability is increased and environmental exhaust is completely eliminated.

3 WAYS TO SAVE ON DIESEL

• With the new ECO mode switch turned on, the 835 operates normally but engine speed is reduced from 1,800 rpm down to 1,400 rpm.

• The 835 E Series includes an automatic idling mode that reduces engine speed to 40% of working speed. In operations where a wait time of 8 seconds or more is involved, such as loading trucks or feeding shears and shredders, the RPMs will drop to a fuel efficient 800!

• The automatic stop function switches the engine off completely if no power is required in a



Attention To Details Makes Us Stronger

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

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Reliability and durability are engineered into the details of your 835, 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 835 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.







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



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



The reversible cooling fan quickly cycles to reversing mode to clear out dust and debris, even in the most challenging work environments.

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

Proven Uptime

83

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

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.





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.



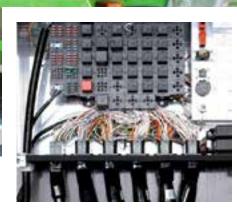
Automatic central lubrication, standard on all SENNEBOGEN machines, saves servicing time every day while improving component lifecycles.



SENCON

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

E 102 ···



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 the 835 requires 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 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.







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

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.



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

Service Level 2

5 Day Course

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.

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

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.



Purpose-Built Facilities

With nearly 1,000,000 sq. ft. (93,000 m²) 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

EΞ

- 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.











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.

The Right Tools For Every Job Ensures Maximum Uptime



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. yd.



Keep your 835 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.



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)



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Hilling and the second

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

835 M "E"_____

Technical Specifications
Dimensions / Transport Dimensions
Lifting Capacities - K16-124
Lifting Capacities - K18-1 25
Lifting Capacities - B18-126
Lifting Capacities -K16-1 ULM

835 R-HD "E"_____

Technical Specifications
Dimensions / Transport Dimensions
Lifting Capacities - K16-1
Lifting Capacities - K18-1 31
Lifting Capacities - B18-1 32
Lifting Capacities -K16-1 ULM

Standard / Optional Equipment 34-35



Technical Specifications - 835 M "E"

ENGINE model	Cummins QSL9-C300
type	in-line, 6 cylinder,
	cooled exhaust gas recirculation,
	water cooled
emission	EPA Tier 4 Final
net power	305 HP (224 kW) @ 2,200 rpm
injection	high pressure common-rail
displacement	543.1 cu.in. (8.9 L)
bore	4.49 in (114 mm)
stroke	5.69 in (145 mm)
aspiration	turbo charged, charge air cooled
fuel tank	165 gal (625L)
air filtration	direct flow filtration system
	dual stage filter with pre-filter
control	integrated ECM
	automatic idle - stop
	eco mode
HYDRAULIC SYST	
system type	LUDV load sensing pilot pressure
	controlled open center
pump type	variable-displacement
CI	axial-piston pump
max. pump flow	196 gpm (740 l/m)
max. pressure	5,076 psi (350 bar)
hydraulic tank	132 gal (500 L)
hydraulic system	180 gal (680 L)
filtration	dual filtration system
	3 micron (HydroClean)
COOLING	
cooling type	cool-on-demand, suction-type
hand and the state of the	fan system, side by side
hydraulic / water	hydraulic fan drive axial piston pump, reversible fan
	thermostatically controlled, closed loop system

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	2 x axial piston motor
	driving planetary gearbox,
	integrated brake valves
swing brake	multidisc brake, spring loaded
swing bearing	internal teeth, sealed ball bearing
UPPER CARRIAG	
design	torsion-free upper frame with
	continuous bearing-plates for optimal power introduction,
	precision pivot; excellent design;
	very low noise emission
TRAVEL / UNDER	,
type	rubber tired MP41E
drive system	all-wheel drive variable
anve system	displacement motor with dual
	stage power shift transmission
travel speeds	1 st 0-3.4 mph (0-5.4 km/h)
	2 nd 0-12 mph (0-20 km/h)
tires	8 x 12.00-24 (solid rubber)
steering	joystick steering
front axle	oscillating with hydraulic lock,
	integrated safety check valves
rear axle	fixed
service brake	disc brake
parking brake	wet, multidisc brake spring
	loaded
safety	travel alarm
,	

REFILL CAPACITIES	
fuel tank	165 gal (625 L)
engine cooling system	15.85 gal (60.0 L)
engine oil w / filter	7.53 gal (28.5 L)
hydraulic tank	132 gal (500 L)
hydraulic system	180 gal (680 L)
swing gear (each)	1.06 gal (4.0 L)
axle hub (front axle)	0.31 gal (1.2 L)
axle hub (rear axle)	0.39 gal (1.5 L)
axle differential (front axle)	6.9 gal (26.0 L)
axle differential (rear axle)	5.1 gal (19.5 L)
axle transmission	0.8 gal (3.0 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	
rating	25 kW
voltage (magnetized)	230 V
current (cold condition)	109 Amps
controller	Hubbell
generator	Baldor
drive	hydraulic
WEIGHT	
operating weight	100,000 lb (45,360 kg)

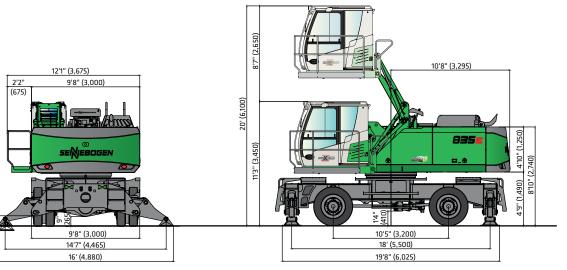


K16-1
K18-1
B18-1
K16-1 ULM

transport dimensions valid for boom position 1 only • boom bosition 2 may increase transport height & transport length • handrails, catwalks & other accessories are disassembled for transportation • *optional cab E300/260 will increase machine transport height by 2" (50 mm)

Subject to technical modification.

Dimensions - 835 M "E"



Boom Length	Stick Length	Transport Length (L)	Transport Height (H)	Transport Width
29'10" (9,100 mm)	22'8" (6,900 mm)	44'4" (13,500 mm)	11'4" (3,450 mm)	9'10" (3,000 mm)
33'2" (10,100 mm)	25'11" (7,900 mm)	47'7" (14,500 mm)	11'4" (3,450 mm)	9'10" (3,000 mm)
35'5" (10,800 mm)	25'11" (7,900 mm)	49'6" (15,100 mm)	11'4" (3,450 mm)	9'10" (3,000 mm)
29'10" (9,100 mm)	21'8" (6,600 mm)	44'4" (13,500 mm)	11'4" (3,450 mm)	9'10" (3,000 mm)



Lift Capacities - 835 M "E"

Working Equipment K16-1

Reach	51'6" (15.69 m)
Boom	29'10" (9.1 m)
Stick	22'8" (6.9 m)
Boom pos.	1

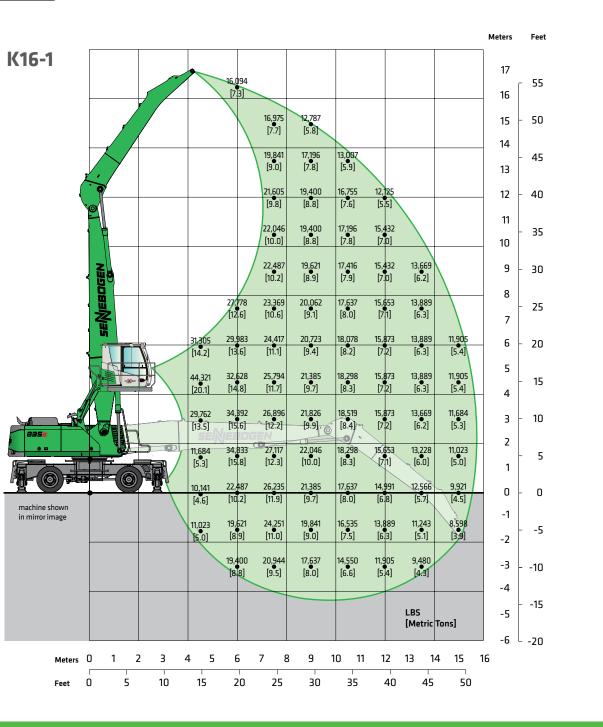
Operator's Cab

Model	E270 Maxcab hydraulic elevating up 8'8" (2.65 m) elevation
Eye level	approx 19' (5.8 m)

Undercarriage

Model	MP41E 4-point outriggers
Tires	8 x 12.00-24 solid rubber

Lift capacities are stated in pounds. Values in [] are stated in metric tons. Indicated figures are based on ISO 10567 and do not exceed 75% or 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 Capaci

Working Equip

Reach Boom Stick

Boom pos.

Operator's Cab

Model

Eye level

Undercarriage

Model

Tires

Lift capacities are stated in pound 10567 and do not exceed 75% or supporting surface. Loads are valid for 360°

cities -	835 M "E"	K18-1				15,873					
pment K1	8-1			7		[72]	16,094 [7 .3]	13,669 [6.2]			
	57'8" (17.58 m)						[7.3]		14 550		
	33'2" (10.1 m)		\bigwedge					16,094 [7.3]	14,550 [6.6]	12,12! [5.5]	,
	25'11" (7.9 m)	Ĕ						17,637 [8.0]	15,873 [7.2]	13,228 [6.0]	8 11,684 [5.3]
	1		<u>e</u>					18,078	16,094 [7.3]	14.33	0 12.566
Ь			Ħ							[6.5]	
U								18,078 [8.2]	16,094 [7.3]	14,331 [6.5]	0 13,007 [5.9]
	E270 Maxcab hydraulic elevating up 8'8" (2.65 m) elevation	•	DGEN				21,605 [9.8]	18,519 [8.4]	16,314 [7.4]	14,55([6.6]	[5.9]
	approx 19' (5.8 m)		seNeeogen			20.001	22,487 [10.2]	19,180 [8.7]	16,535 [7.5]	14,551 [6.6]	
2		4				29,101 [13.2]	23,589 [10.7]	19,621 [8.9]	16,975 [7.7]	14,77 [6.7]	
	MP41E	· ·			42,990 [19.5]	31,305 [14.2]	24,692 [11.2]	20,282 [9.2]	17,196 [7.8]	14,99 [6.8]	1 13,007 [5.9]
	4-point outriggers 8 x 12.00-24				20,944 [9.5]	32,849 [14.9]	25,573 [11.6]	20,723 [9.4]	17,416 [7.9]*	14,99	1 13,007 [5.9]
	solid rubber				8,598 [3.9]	25,794 [11.7]	25,573 [11.6]	20,723 [9.4]	17,416 [7.9]	14,77 [6.7]	1 12,787 [5.8]
					7,496	16,314 [7.4]	24,912 [11.3]	20,282	16,975 [7.7]	14,331 [6,5]	0 12,125
		machine shown in mirror image			[3.4] 8,377 [3.8]	14, <u>3</u> 30 [6.5]	23,148 [10.5]	18,960 [8.6]	15,873 [7.2]	13,44	8 11,464
					[3.8]	[6.5] 14,330 [6.5]	20,282 [9.2]	17,196 [7.8]	[7.2] 14,550 [6.6]	12,125	5 10,141
or tipping and 87% of	tated in metric tons. Indicated figures are based on ISO hydraulic capacity and machine standing on firm, level ine support outriggers. Lifting capacities do not include						16,755 [7.6]	14,550 [6.6]	12,346 [5.6]	10,36 [4.7]	2 8,377 [3,8]

Feet 0

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.

Motor

19

18

17

16

15

14

13

11

10

9 | 30

10,803 [4.9]

11,684 [5.3]

11,684 [5.3]

11,464 [5.2]

11,464 [5.2]

11,243 [5.1]

10,803 [4.9]

10,362

9,480 [4.3]

8,157 [3,7]

LBS

Meters 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

30

40

45

35

25

20

10

5

15

[Metric Tons]

50 55

[4.7]

9,921 [4,5]

10,141

9,921 [4.5]

9,700 [4.4]

9,259 [4.2]

8,598

[3.9]

7,496 [3.4]

55

50

45

40 12 -

35

25

10

-3 L -10

-5

18

-15



Lift Capacities - 835 M "E"

Working Equipment B18-1

Reach	58'6" (17.83 m)
Boom	35'5" (10.8 m)
Stick	25'11" (7.9 m)
Boom pos.	1

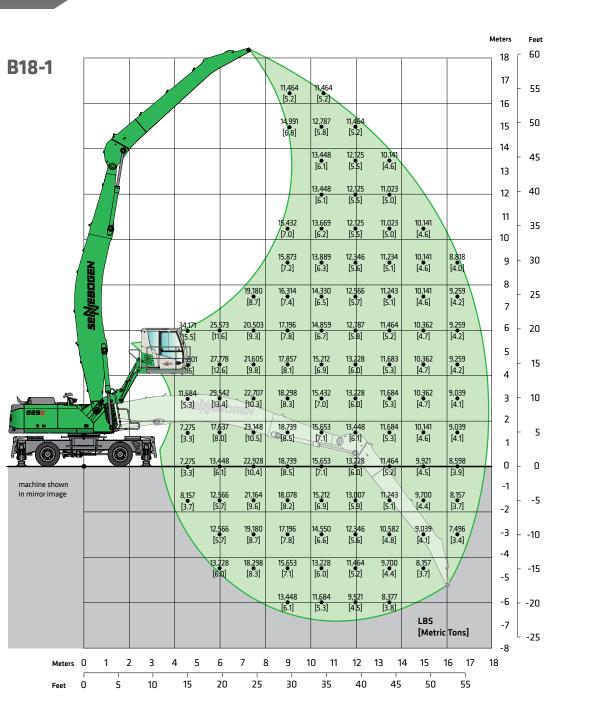
Operator's Cab

Model	E300/260 Maxcab hydraulic elevating up & out (optional item)
Eye level	approx. 20'4" (6.2 m)

Undercarriage

Model	MP41E 4-point outriggers
Tires	8 x 12.00-24 solid rubber

Lift capacities are stated in pounds. Values in [] are stated in metric tons. Indicated figures are based on ISO 10567 and do not exceed 75% or 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 Capacit

Working Equipm

Reach Boom

Stick Boom pos.

Operator's Cab

Model

Eye level

Undercarriage

Model

Tires

Lift capacities are stated in pounds. A 10567 and do not exceed 75% or tipp supporting surface. Loads are valid fo working equipment such as orange pee attachment pivot mounting pin on the charts. Please contact SENNEBOCEN o the machine should be fully acquainted apply only to the machine as originally

								Meters	
ties - 835 M "E"	K16-1 ULM		0					17	ſ
	OLIVI							- 16	-
ment K16-1 ULM		<u>o</u>	er T	,400 16,314 3(8) [7.4]				15	_
50'11" (15.54 m)			U	19,180	16.314	13.669		14	
29'10" (9.1 m)				[8.7]	16,314 [7.4]	13,669 [6.2]		13	
21'8" (6.6 m) ULM				20,503 [9.3]	17,637	15,432 12,5 [7.0] [5.	46	12	
1								11	
				20,503 [9.3]	17,637 [8.0]	15,432 13,6 [7.0] [6.	2]	10	
5270.14				20,944 [9.5]	17,857 [8.1]	15,432 13,6 [7.0] [6.	69 11,905 2] [5.4]	9	F
E270 Maxcab hydraulic elevating up			26	5,676 21,826 [2,1] [9.9]	18,298 [8.3]	15,653 13,6 [7.1] [6.	69 11,905 2] [5.4]	8	
approx. 20'4" (6.2 m)		Zas			[8.3]			7	
			31,746 28 [14.4] [1	,880 22,928 3.0] [10.4]	18,960 [8.6]	16,094 13,6 [7.3] [6.	69 11,905 9,921 2] [5.4] [4.5]	- 6	-
			42,990 30	1,864 23,810 4.0] [10.8]	19,400 [8.8]	16,314 13,6 [7.4] [6.	69 11,684 9,700 2] [5.3] [4.4]	5	
MP41E			Ν					- 4	
4-point outriggers			16,535 32 [7.5] [1	2,187 24,692 4.6] [11.2]	19,621 [8.9]	16,314 13,6 [7.4] [6.	6911,4649,2592][5.2][4.2]	3	-
8 x 12.00-24 solid rubber			7,275 28	3,219 24,471 2.8] [11.1]	19,621 [8.9]	16,094 13,2 [7.3] [6.	28 10,803 8,598 0] [4.9] [3.9]	2	
				2.8] [11.1] ; 2 98 23, <u>3</u> 69	[8.9] 18,739	[7.3] [6. 15,212 12,5) I	1	
	machine shown		[3.2] [3	8[3] [10.6]	[8.5]	[6.9] [5.		0	-
	in mirror image		8,598 16 [3.9] [,755 20,944 7.6] [9.5]	16,975 [7.7]	13,889 11,2 [6.3] [5	43 8,598 1] [3.9]	-1	_
				17,637				-2	
				[8.0]	14,550 [6.6]	11,684 9,2 [5.3] [4.	2]	-3	ŀ
Values in [] are stated in metric tons. Indicated figures are based on ISO pping and 87% of hydraulic capacity and machine standing on firm, level							LBS		F
for 360° with machine support outriggers. Lifting capacities do not include eel grapples, magnets, clamshells, etc. The load point is the center line of the e stick. Their weights must be deducted from the numbers indicated in the lift							[Metric Tons]	-6	
or your local dealer for optimum attachment selection. The operator / user of ed with the operator's & safety manual provided be SENNEBOGEN. Capacities	Meter	s 0 1 2 3	4 5	6 7 8	3 9 [.]	10 11 1	2 13 14 15	6 16	-
y manufactured and equipped by SENNEBOGEN.	Feet	0 5 10	15	20 25	30	35 4	40 45 50		

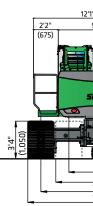
27

Technical Specifications - 835 R-HD "E"

ENGINE model	Cummins QSL9-C300
type	in-line, 6 cylinder,
cype	cooled exhaust gas recirculation,
	water cooled
emission	EPA Tier 4 Final
net power	305 HP (224 kW) @ 2,200 rpm
injection	high pressure common-rail
displacement	543.1 cu.in. (8.9 L)
bore	4.49 in (114 mm)
stroke	5.69 in (145 mm)
aspiration	turbo charged, charge air cooled
fuel tank	165 gal (625L)
air filtration	direct flow filtration system
	dual stage filter with pre-filter
control	integrated ECM
	automatic idle - stop
	eco mode
HYDRAULIC SYST	
system type	LUDV load sensing pilot pressure
	controlled open center
pump type	variable-displacement axial-piston pump
max. pump flow	196 gpm (740 l/m)
max. pressure	5,076 psi (350 bar)
hydraulic tank	135 gal (510 L)
	180 gal (680 L)
hydraulic system filtration	dual filtration system
IIIIIalioII	3 micron (HydroClean)
COOLING	
cooling type	cool-on-demand, suction-type
cooming type	fan system, side by side
hydraulic / water	hydraulic fan drive axial
ingeneering / worder	piston pump, reversible fan
	thermostatically controlled,
	closed loop system

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	2 x axial piston motor
	driving planetary gearbox,
	integrated brake valves
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	RRIAGE
type	crawler T41/380
system	mechanical adjustable wide
	gauge
drive	independent driven by an axial
	piston motor through a compact
turnual anneada	planetary
travel speeds	1 st 0-1.0 mph (0-1.6 km/h) 2 nd 0-1.84 mph (0-3.0 km/h)
shoes	27.6"(700 mm) (triple grouser)
crawler	B6 maintenance free
steering	foot pedals / levers
5	toot pedals / levers
safety	travei alarm

REFILL CAPACITIES	
fuel tank	165 gal (625 L)
engine cooling system	15.85 gal (60.0 L)
engine oil w / filter	7.53 gal (28.5 L)
hydraulic tank	135 gal (510 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	
rating	25 kW
voltage (magnetized)	230 V
current (cold condition)	109 Amps
controller	Hubbell
generator	Baldor
drive	hydraulic
WEIGHT	
operating weight	120,151 lb (54,500 kg)

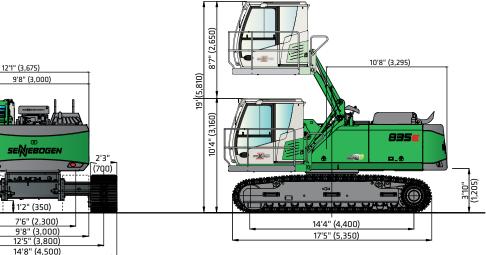


K16-1
K18-1
B18-1
K16-1 ULM

transport dimensions valid for boom position 1 only • boom bosition 2 may increase transport height & transport length • handrails, catwalks & other accessories are disassembled for transportation • *optional cab E300/260 will increase machine transport height by 2" (50 mm) • **only valid with 8" (200 mm) rise of machine and/or clearance for boom/stick lowering

Subject to technical modification.

Dimensions - 835 R-HD "E"



Boom Length	Stick Length	Transport Length (L)	Transport Height (H1*)	Transport Height (H1/2**)	Transport Width
29'10" (9,100 mm)	22'8" (6,900 mm)	44'4" (13,500 mm)	11'4" (3,450 mm)	11'6" (3,500 mm)	9'10" (3,000 mm)
33'2" (10,100 mm)	25'11" (7,900 mm)	47'7" (14,500 mm)	11'4" (3,450 mm)	11'6" (3,500 mm)	9'10" (3,000 mm)
35'5" (10,800 mm)	25'11" (7,900 mm)	49'6" (15,100 mm)	11'4" (3,450 mm)	11'6" (3,500 mm)	9'10" (3,000 mm)
29'10" (9,100 mm)	21'8" (6,600 mm)	44'4" (13,500 mm)	11'4" (3,450 mm)	11'6" (3,500 mm)	9'10" (3,000 mm)

Lift Capacities - 835 R-HD "E"

Working Equipment K16-1

Reach	51'6" (15.69 m)
Boom	29'10" (9.1 m)
Stick	22'8" (6.9 m)
Boom pos.	1

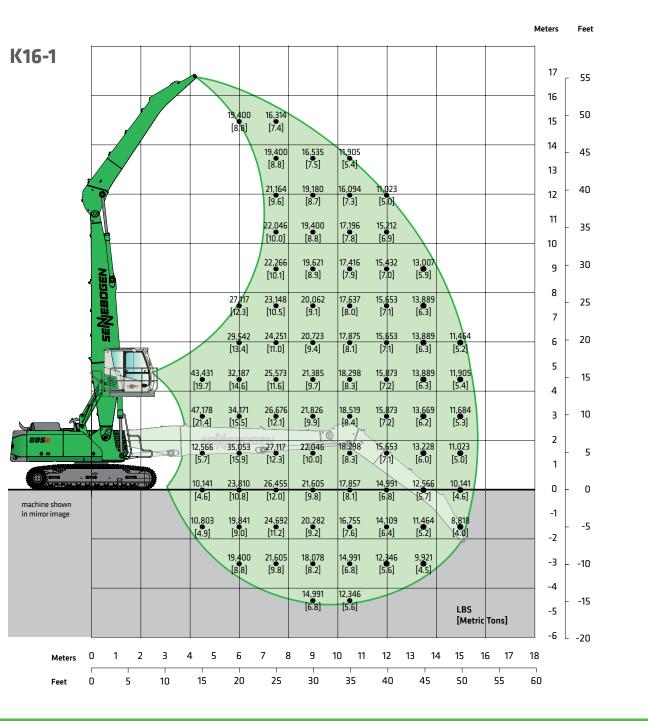
Operator's Cab

Model	E270 Maxcab hydraulic elevating up 8'8" (2.65 m) elevation
Eye level	approx. 19' (5.8 m)

Undercarriage

Model	T41/380
Tracks	B6 triple grouser shoes 27.6" (700 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% or 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.



Reach Boom

Stick

Boom pos.

Operator's Cab

Model

Eye level

Undercarriage

Model

Tracks

Lift Capacities - 835 R-HD "E"

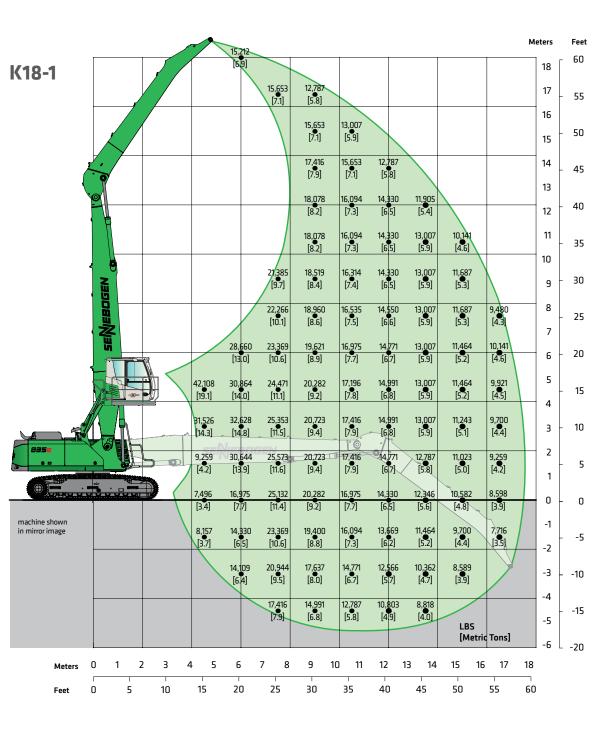
Working Equipment K18-1

57'8" (17.58 m)
33'2" (10.1 m)
25'11" (7.9 m)
1

E270 Maxcab hydraulic elevating up 8'8" (2.65 m) elevation
approx. 19' (5.8 m)

T41/380 B6 triple grouser shoes 27.6" (700 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% or 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 - 835 R-HD "E"

Working Equipment B18-1

Reach	58'6" (17.83 m)
Boom	35'5" (10.8 m)
Stick	25'11" (7.9 m)
Boom pos.	1

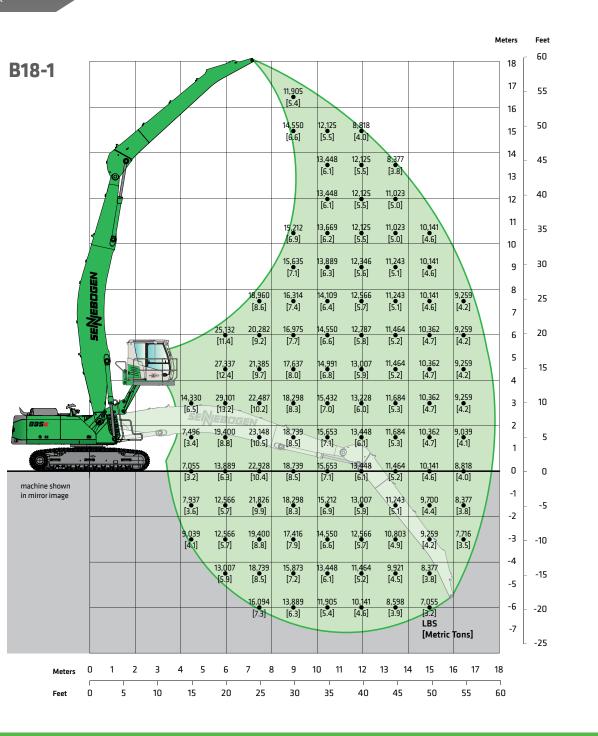
Operator's Cab

Model	E300/260 Maxcab hydraulic elevating up & out (optional item)
Eye level	approx. 20'4" (6.2 m)

Undercarriage

Model	T41/380
Tracks	B6 triple grouser shoes 27.6" (700 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% or 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.



Reach Boom Stick

Boom pos.

Operator's Cab

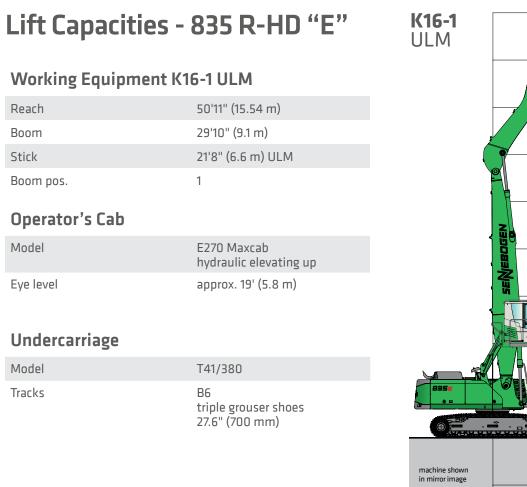
Model

Eye level

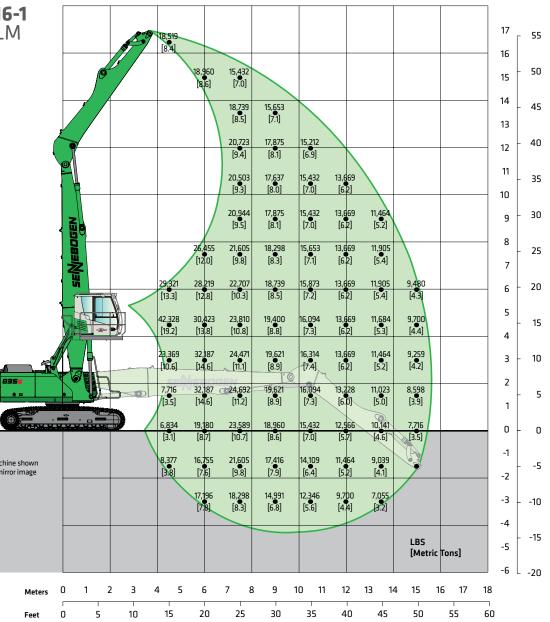
Undercarriage

Model

Tracks



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% or 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.





Standard / Optional Equipment

ENGINE	835 M	835 R-HD
Water separator in fuel line		٠
Automatic idle / engine stop control	۲	٠
Eco mode		•
Visual fuel tank check	•	•
Engine block & water separator pre-heater	0	0
ELECTRIC		
Battery disconnect switch	٠	٠
Centralized fuse box	٠	•
Battery jump start connection from ground level	•	٠
HYDRAULIC		
Pilot pressure controlled variable displacement pump	٠	٠
Thermostatically controlled cooling system	۲	۲
Centralized hydraulic test ports	•	•
Protection covers for pilot pressure control valves	٠	٠
3 micron dual filtration system	•	•
Load sensing, flow on demand hydraulic system	•	•
Optimized hydraulic pump regulation (GLR)	•	•
Visual hydraulic tank check from ground level	•	•
Attachments open, close & rotation hydraulics		•
Hydraulic tank shut off valve	•	•
Electrical hydraulic tank pre-heater	0	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
Attachment return filtration filters (60 μm)	0	0
SWING SYSTEM		
360° protection cover, removable		
Manual driven swing gear pinion lubrication pump	•	٠
MAGNET SYSTEM		
Hydraulic driven generator	٠	٠
Magnet controller	٠	•
Magnet suspension link	0	0

JPPER CARRIAGE	835 M	835 R-HD
Rearview & right side view camera system	•	٠
Automatic lubrication system	•	٠
Anti-slip mats on walking area	•	•
_ockable side doors	•	•
Handrails on top of upper carriage	•	٠
Mirror left side	•	٠
Removable panels	•	٠
Furning signal lights in upper carriage frame	•	N/A
Additional light package	0	0
Eustom colors	0	0
Seawater paint coating	0	0
DPERATOR'S CAB (Maxcab Industry)		
Hydraulic elevating up and out cab E260	•	٠
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	•	•
_arge cup holder	•	•
Fire extinguisher	•	•
Finted 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	•	•
2 V / 24 V power outlet	•	•
Nindshield wiper and washers	•	•
Emergency exit hammer	•	•
Safety lever		

OPERATOR'S CAE

Sun shades Interior lighting Rain cover front wind Outside mirror Optical and acoustic Positive filtered vent Safety check valves Foot rest Maxcab industry Windshield protectio Skylight protection Skylight FOPS guard Bulletproof windshie Bulletproof skylight Polycarbonate side w Additional light pack Fixed cab elevation Hydraulic elevating u Operator's cab with f Steering column inst Steering column in c Additional cameras

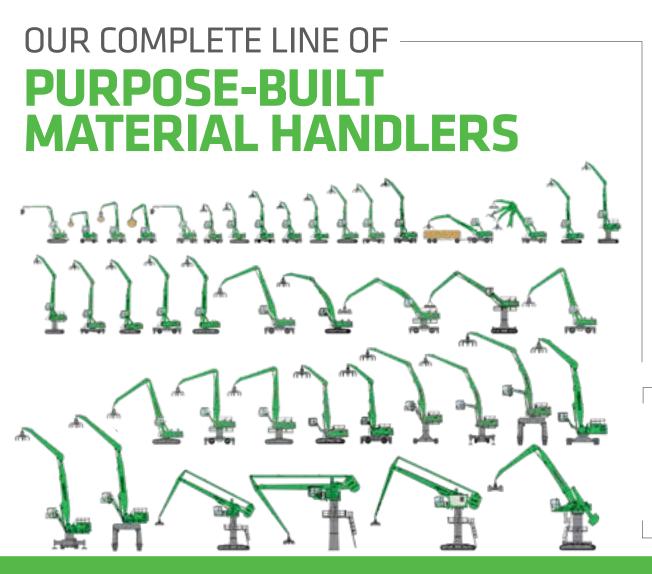
WORKING EQUIP

Purpose-built materi Purpose-built materi Attachment hydrauli Boom position 1 Safety check valves f Safety check valves f Cylinder end position Boom hoist limitatio Bronze bushings con Stick limitation LED light package bo LED light package sti Purpose-built mater Purpose-built mater Boom position 2

Standard / Optional Equipment

3 (Maxcab Industry) continued	835 M	835 R-HD
		•
	•	٠
dow		•
	•	•
warning system		•
tilation (pressurized cab)	•	•
for elevating cab cylinder	•	•
······································	•	•
	•	•
on guard	0	0
guard	0	0
	0	0
eld	•	•
vindows	0	0
kage	0	0
	0	0
up and out cab E300/260	0	0
floor window	0	0
tead of joystick steering	0	N/A
combination with joystick steering	0	N/A
	0	0
	0	U
MENT		
ial handling boom	•	•
ial handling stick	•	•
ic line connections with ball valves	•	•
	•	•
for stick cylinders	•	•
for boom cylinders	•	•
n dumping	•	•
on	•	•
nnected to automatic lubrication system	•	•
	٠	•
pom	0	0
ick	0	0
rial handling stick with reversing linkage	0	0
rial handling boom for scrap shears	0	0
	0	0

UNDERCARRIAGE	835 M	835 R-HI
Robust designed material handling under carriage	•	N/A
Heavy duty axles	•	N/A
Solid rubber tires 12.00-24 (8x) incl. intermediate ring	•	N/A
Front axle oscillating w/axle unlock (travel position)	•	N/A
Dual stage power shift transmission	•	N/A
Drive train protection guards	•	N/A
Centralized lubrication points	•	N/A
Servo brake system	•	•
4-point outriggers w/integrated safety check valves in outrigger cylinders	•	N/A
Tool and storage compartments, lockable	•	N/A
Travel alarm	•	٠
Heavy duty designed material handling under carriage	N/A	٠
Crawler under carriage with mechanical adjustable tracks	N/A	•
Heavy duty crawler track frame	N/A	٠
27.6" (700 mm) triple grouser track shoes, canted	N/A	٠
Maintenance free crawlers B6	N/A	٠
Hydraulic chain tension device	N/A	٠
Individual outrigger control	0	N/A
Increased size outrigger pads to decrease ground pressure	0	N/A
Pneumatic tires	0	N/A
Towing hitch package	0	N/A
31.5" (800 mm) triple grouser track shoes, canted	N/A	0
27.6" (700 mm) forged flat track shoes, canted	N/A	0
Crawler under carriage with hydraulic adjustable tracks	N/A	0
ATTACHMENTS		
Orange peel grapple	0	0
Mag grapple	0	0
Clamshell	0	0
Magnet	0	0
Log grapple	0	0
Scrap shear	0	0
Power attachment	0	0
Pipe handler	0	0
Live heel	0	0





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