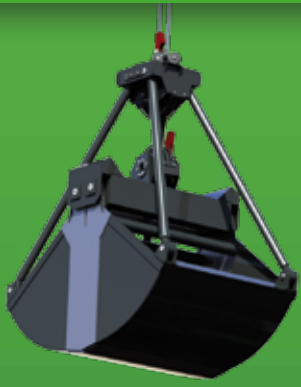


SENEBOGEN



PRELIMINARY

NEW!



 **186 kW**

 **30 t**

 **35.5 m**

 **MAX CAB**

630E

Heavy Duty Cycle Crawler / Crane

Tier 4 emission standards

630E Advanced. The E-Series.



1962: rope-driven S833
with elevated operator cab

What makes up the E-Series

- 60 years of experience in the design and construction of duty cycle crawler cranes
- Uncompromisingly high performance in all areas
- Technology that can be mastered: high-quality components without over-engineering
- Long product service life and high value retention

Your top benefits:

- 1 **Green Efficiency**
Save fuel – reduce operating costs
Work quietly – protect operator and environment



- 2 **Performance at the highest level**
Durable mechanical systems – stressed parts optimized
High speeds – high load capacities

- 3 **Maximum ease of use**
Maxcab comfort cab – work in comfort
SENCON – SENNEBOGEN Control System

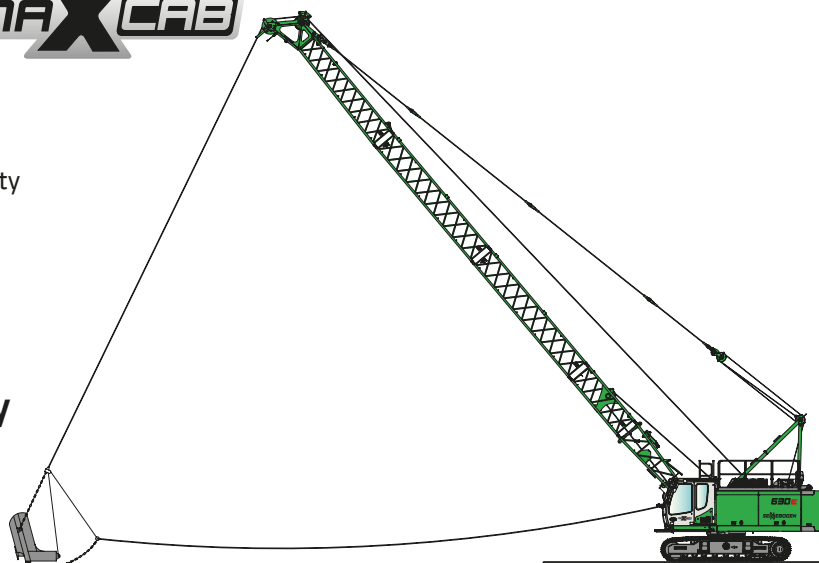


- 4 **Flexible implementation**
Moving under load – minimal space requirements
Strong undercarriage traction – good all-terrain mobility

- 5 **Easy transport**
Telescopic undercarriage – ready to go in no time
Ballast unloading system – short setup time

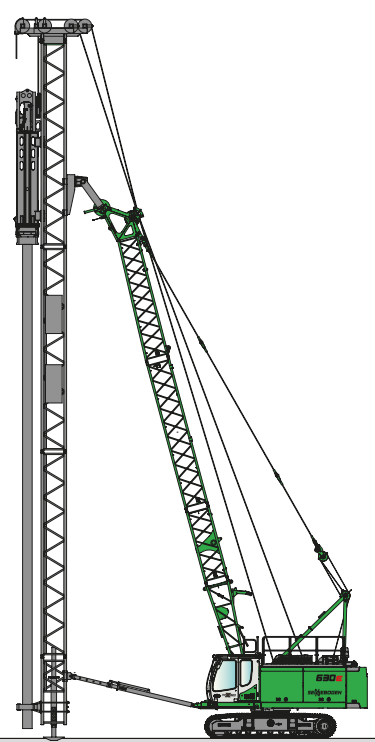
- 6 **Maintenance and service made easy**
Easy error diagnostics – central measuring points
Simple maintenance – clear labelling

- 7 **Consultation and support**
3 production locations – 2 subsidiaries
120 sales partners – more than 300 service stations

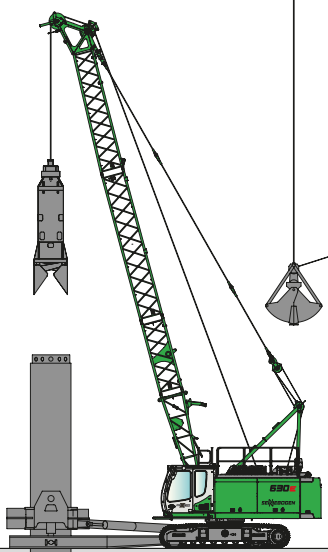


Dragline bucket
equipment

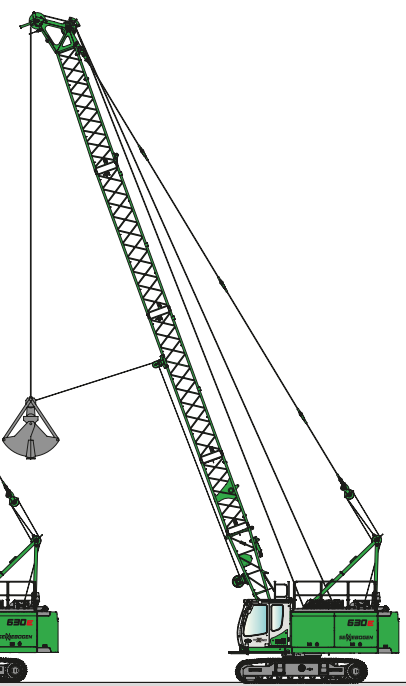
630E



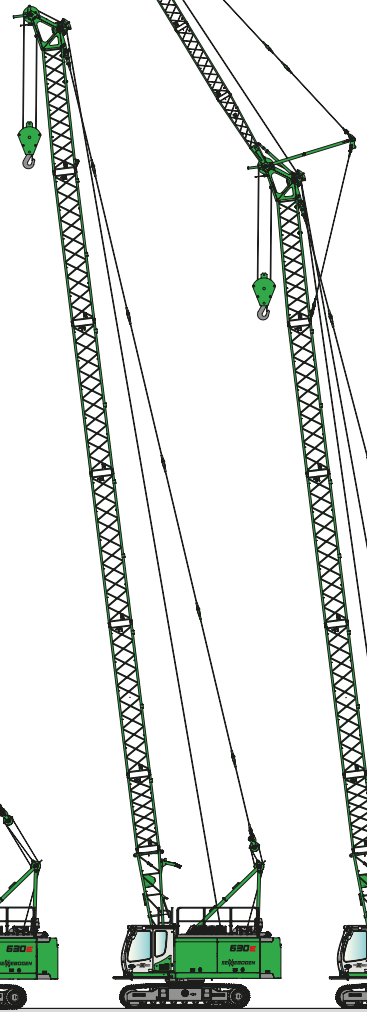
Leader



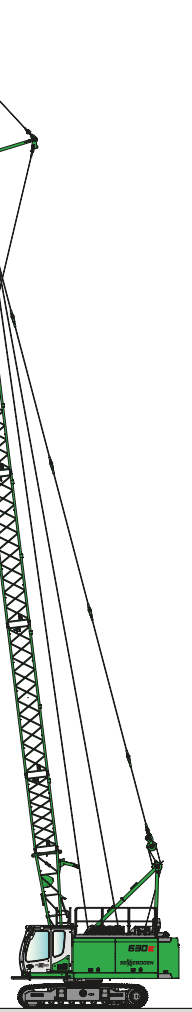
Casing oscillator



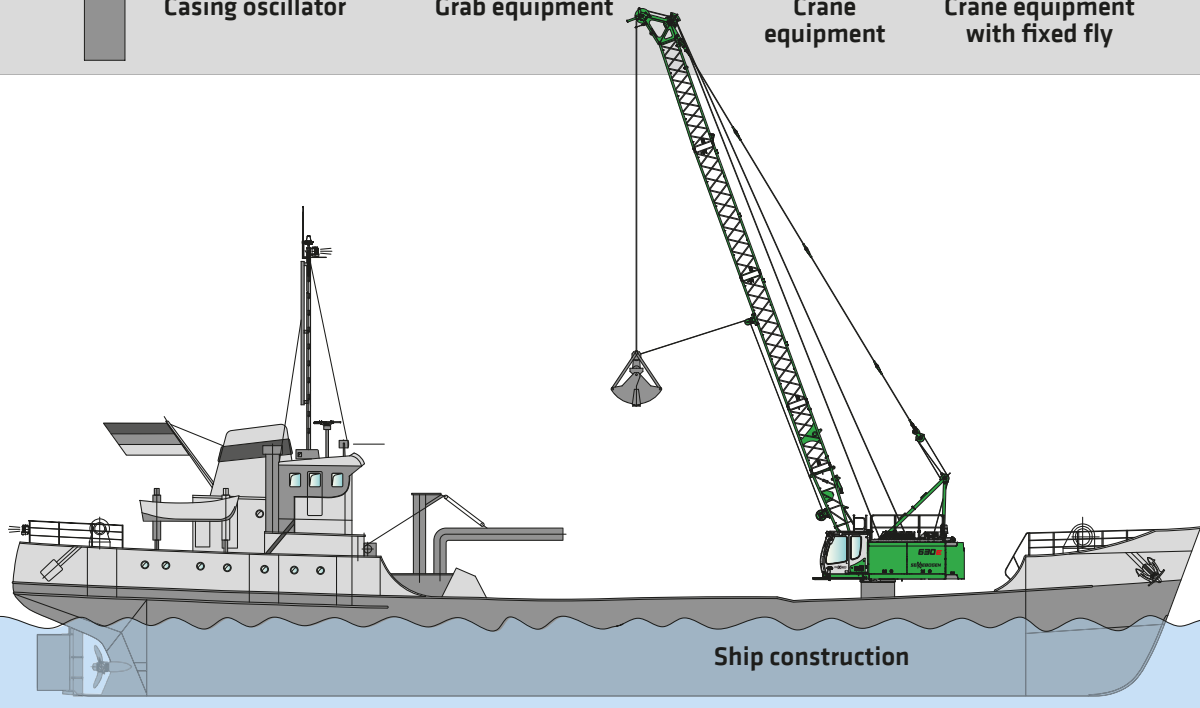
Grab equipment



Crane equipment



Crane equipment with fixed fly



Ship construction

630E Technical data, equipment

HD

MACHINE TYPE

Model (type) **630**

ENGINE

Power **186 kW/253 hp at 1850 rpm**

Model **CAT C7.1 Level IIIa or IV**
Direct injection, turbo-charged, charge air cooling, reduced emissions

Cooling Water-cooled

Air filter Dry filter with pre-separator, automatic dust discharge, main element and safety element, contamination indicator

Fuel tank **450 l**

Electr. system **24 V**

Batteries **2 x 150 Ah**, main switch

UPPERCARRIAGE

Design Torsion-resistant box design, precision crafted, bronze bushings for boom bearing arrangement

Clear, service-friendly concept, engine installed in the longitudinal direction

Lighting LED headlights for optimal illumination of the work area

Safety Camera monitoring of the rear area and right side

Options

- Maritime climate varnish as corrosion protection
- Low-temperature package for use at temperatures below -20 °C
- Ballast support fixture
- Pinion tooth lubrication for slewing ring, outer
- Automatic central lubrication system for equipment and slewing ring, inner
- Walkways left and right on the uppercarriage

HYDRAULIC SYSTEM

Multi-circuit hydraulic system for optimal function and capacity, all movements can be run simultaneously. The hydraulic pumps are variable displacement piston pumps with individual control and energy-saving flow-on-demand control. The pumps only request as much oil as is actually consumed. Pressure cut-off, load limit sensing control

Delivery rate **maximum 3 x 220 l/min**

Operating pressure **max. 330 bar**

Filtration High-performance filtration with long-term change interval, contamination level indicator

Hydraulic tank **550 l (450 l to the middle of the sight glass)**

Control system Proportional, precision hydraulic servo control of the movements, 2 hydraulic servo joysticks for work functions, supplemental functions via switches and foot pedals - arranged clearly and ergonomically

Options

- Bio-oil – environmentally friendly
- SENNEBOGEN HydroClean micro-filter system with water separator
- Potentiometer for casing machine and other attachments
- Grapple fill automation
- Supplemental hydraulic system with 1 x 220 l/min

SLEWING DRIVE

Gearbox Compact planetary gear with slant axis hydraulic motor, integrated brake valves - positioner slewing gear brake

Parking brake Spring-loaded multi-disk brake

Slewing ring Ball bearing rotary connection with exterior gearing

Slewing speed 0-4.1 rpm, 3 adjustable rotation speeds

CAB MAX CAB

Cab type Maxcab rigid

Cab equipment Sliding door, excellent ergonomics, climate automation, seat heater, air-suspension comfort seat, fresh air filter / circulating air filter, joystick steering, 12 V / 24 V connections, SENCON, roof window

Options

- Cab type E270, can be elevated 270 cm
- Cab can be tilted 15°
- Auxiliary heating system with timer
- Cab active-charcoal filter - inside air/outside air
- Sliding window in operator door
- Armored glass windshield, additional safety
- Armored glass roof window, additional safety
- Safety side window and rear window
- Sunblind for windshield
- Protective roof grating
- FOPS protective roof grating
- Protective front grating
- Radio with speakers

ATTACHMENTS

Design	Decades of experience and the latest computer simulations guarantee the greatest degree of stability and longest service life
Boom adjustment winch	Drive via slant axis hydraulic motor with compact planetary gear, pulling force 52 kN, rope diameter 14 mm, adjustment speed 30° to 80° in approx. 40 seconds.
Safety brake	Spring-loaded multi-disk brake
Boom	Boom length to 35.5 m
Options	<ul style="list-style-type: none"> ■ Auxiliary jib, for safe working loads to 8.5 t ■ Fixed fly to 18 m ■ Steel rope sheaves ■ Jib sheaves for grapple implementation ■ HD sheaves for working with optimal rope guide ■ Boom damping, hydraulic ■ Load moment limitation for hoisting implementation: latest generation of load moment monitoring, display shows all important data, lifting limit switch, pressure relief valves, rope run-out safeguard

UNDERCARRIAGE

Design	Extremely strong crawler undercarriage, type T27/355 with hydraulically extensible track width. Stable welded construction.
Drive	Strong travel drive with axial piston hydraulic motor and directly attached automatically functioning brake valve and compact planetary gear on each running gear side; protected drive transmission
Parking brake	Spring-loaded multi-disk brake
Traveling gear	Maintenance-free tractor running gear B60 with hydraulic chain tension, 700 mm 3-grouser base plates,
Speed	0 - 2.0 km/h
Options	<ul style="list-style-type: none"> ■ 700 mm flat base plates (transport width 3000 mm) ■ 800 mm flat base plates (transport width 3200 mm) ■ 800 mm 3-grouser base plates (transport width 3200 mm)

WINCH

The winches are driven via high-pressure-regulated adjustable hydraulic motors, thus there is always optimal pulling force speed control. Hydraulic lowering brake valves for sensitive, wear-free braking. Strong oil-bath planetary gear, low-maintenance.

Crane brake and free-fall brake are spring-loaded, maintenance-free, low-wear disc brakes running in the oil bath, oil-cooled. The individual, variably adjustable free-fall brake actively supports the operator, prevents slack cable and protects the machine

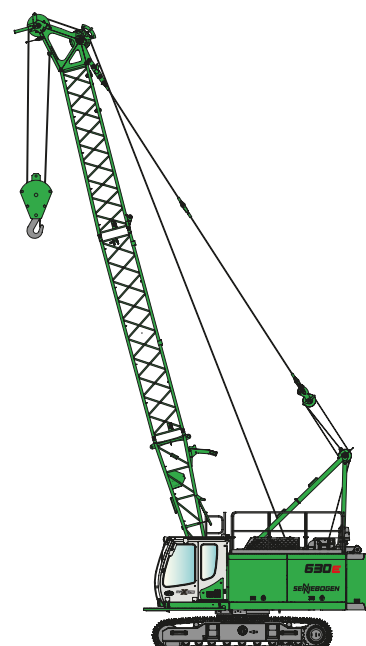
	Series production	Option
Winches	12 t	9 t
Rope winch (rated load) 1st layer	120 kN	90 kN
Rope diameter	22 mm	18 mm
Rope speed	0-125 m/min	0-120 m/min
Options	<ul style="list-style-type: none"> ■ Grapple steadying winch 9 kN ■ Grapple steadying winch 18 kN ■ Rope tensioning pulley ■ Fairlead (dragline bucket deflection) 	

OPERATING WEIGHT

Mass **approx. 35,000 kg**

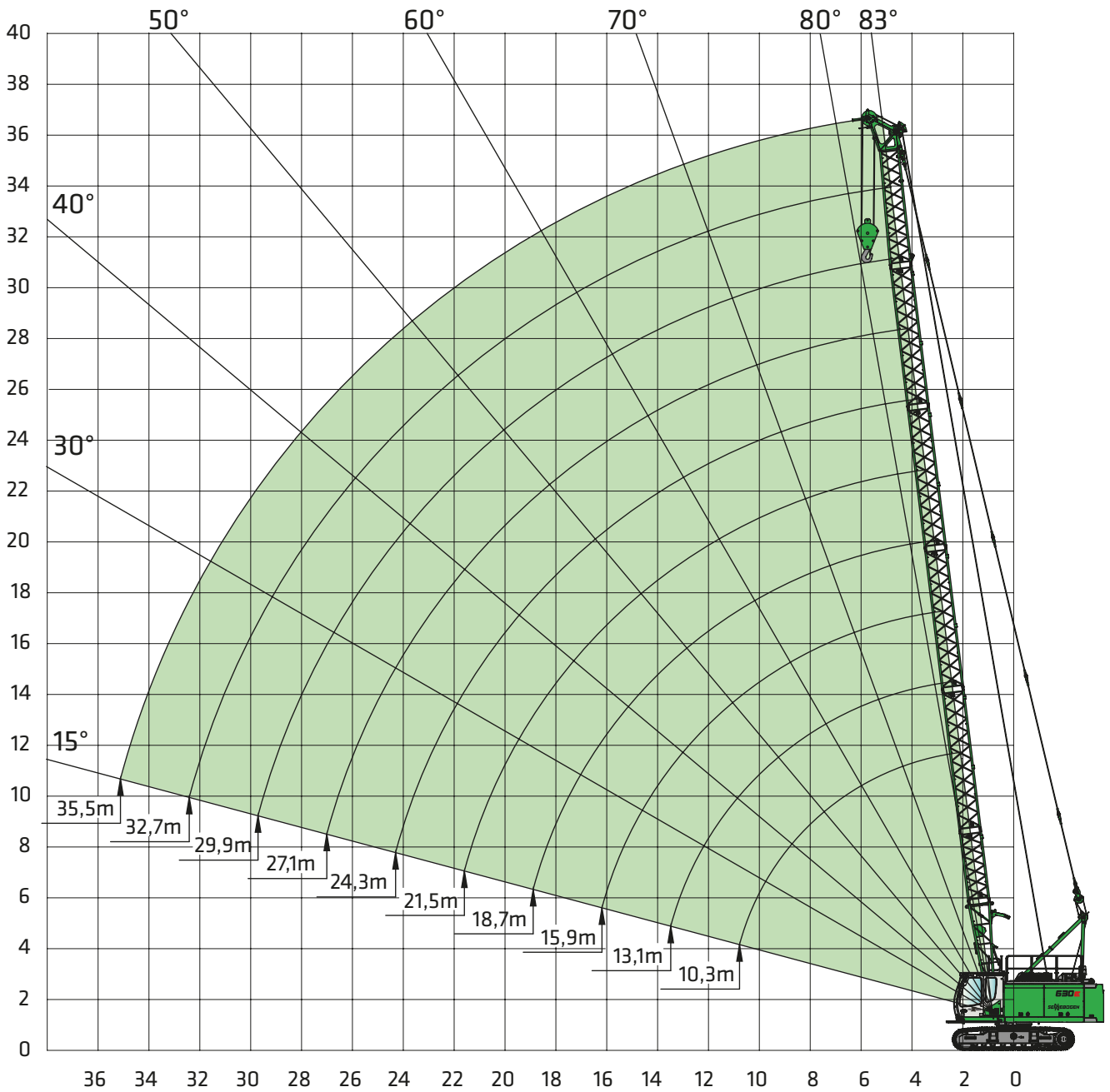
630 HD with 2 x 12 t free-fall winches, basic boom 10.3 m, counterweight 6.5 t, 25 t bottom hook block, 700 mm 3-grouser base plates, 125 m hoisting rope

Notice The operating weight varies depending on the version and equipment.



630E Main boom

HD



Boom configuration

	Boom length	10.3	13.1	15.9	18.7	21.5	24.3	27.1	29.9	32.7	35.5
Lower boom section type 870.52	4.4 m	1	1	1	1	1	1	1	1	1	1
Boom section type 870.52 (DL) *	2.8 m	0	0 (1)	0 (1)	0 (1)	0 (1)	0 (1)	0	0	0	0
Boom section type 870.52	2.8 m	0	1 (0)	2 (1)	1 (0)	2 (1)	1 (0)	2	1	2	1
Boom section type 870.52	5.6 m	0	0	0	1	1	2	2	3	3	4
Head piece type 870.52	5.9 m	1	1	1	1	1	1	1	1	1	1
Auxiliary jib S12.5 (option)	8.5 t	x	x	x	x	x	x	x	x	x	x

* The 2.8 m boom section type 870.52 (DL) is only required for dragline bucket implementation; values in () apply for dragline bucket operation

630E Overall loads - with main boom SH

HD



Outreach [m]	Boom length [m]									
	10.3	13.1	15.9	18.7	21.5	24.3	27.1	29.9	32.7	35.5
2.6	30.0									
3.0	30.0	28.1	24.6/3.3	21.2/3.6						
4.0	28.2	26.3	24.1	21.0	18.1	15.3/4.3	14.2/4.7			
5.0	20.6	19.9	18.9	17.9	17.1	15.0	14.0	12.2	10.4/5.4	8.8/5.7
6.0	15.4	15.3	15.2	14.5	13.9	13.3	12.8	11.7	10.1	8.7
7.0	12.3	12.2	12.1	12.1	11.7	11.2	10.8	10.4	9.7	8.3
8.0	10.1	10.0	10.0	9.9	9.8	9.6	9.3	8.9	8.6	8.0
9.0	8.6	8.5	8.4	8.4	8.3	8.3	8.1	7.8	7.5	7.3
10.0	7.4	7.3	7.3	7.2	7.1	7.1	7.0	6.9	6.7	6.4
11.0	6.6/10.9	6.4	6.4	6.3	6.2	6.2	6.1	6.0	5.9	5.7
12.0		5.7	5.6	5.6	5.5	5.4	5.3	5.3	5.2	5.1
13.0		5.1	5.0	5.0	4.9	4.8	4.7	4.7	4.6	4.5
14.0		4.8/13.6	4.5	4.5	4.4	4.3	4.2	4.2	4.1	4.0
15.0			4.1	4.1	3.9	3.9	3.8	3.7	3.6	3.6
16.0			3.8	3.7	3.6	3.5	3.4	3.4	3.3	3.2
17.0			3.6/16.3	3.4	3.3	3.2	3.1	3.1	3.0	2.9
18.0				3.1	3.0	2.9	2.9	2.8	2.7	2.6
19.0				2.9	2.8	2.7	2.6	2.5	2.4	2.4
20.0					2.5	2.5	2.4	2.3	2.2	2.1
22.0					2.2/21.7	2.1	2.0	1.9	1.8	1.8
24.0						1.8	1.7	1.6	1.5	1.5
26.0						1.8/24.4	1.5	1.4	1.3	1.2
28.0							1.4/27.1	1.2	1.1	1.0
30.0								1.0/29.8	0.9	0.8
32.0									0.8	0.7
34.0									0.7/32.5	0.5
36.0										0.5/35.2
38.0	Table no. 630R-80/1840/6.5/08.14 SH									
Number of strands	Ø 22 mm	4	4	3	3	3	2	2	2	2
	Ø 18 mm	5	5	5	4	4	3	3	3	2

Comments:

1. The specified safe working load values apply for a level and stable stance of the machine.
2. The safe working load values are specified in tons (t) and apply for 360 degrees.
3. The safe working loads take the standards ISO 4305 Tab. 1+2 and the tilt angle method (tilt angle 4°) into account
4. Deduct the weight of the load handling devices (hook, suspension gear) from the safe working loads.
5. The safe working loads apply for the maximum undercarriage track width of 3800 mm.
6. Load ratings must be limited or reduced when conditions are unfavorable, such as soft or uneven ground, slopes, wind, lateral loads, swinging loads, jerking or sudden stopping of the load, operator inexperience, driving with load.
7. Permissible rope tension per strand in crane operation for rope diameter with 22 mm - 8500 kg with rope diameter 12 mm - 6000 kg
8. Safe working loads apply for the SH boom (boom assembly in accordance with the operating manual)
9. Safe working loads apply for optimum boom assembly and a pulley head with plastic pulleys.
10. The specified safe working load values are only for orientation. See the operating manual for the respectively valid safe working loads.

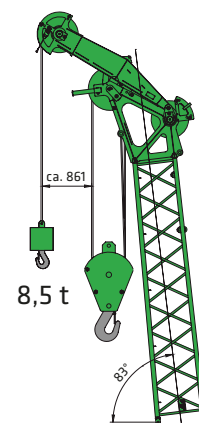
Auxiliary jib S12.5

Max. load capacity 8.5 t

(rope diameter 22 mm)

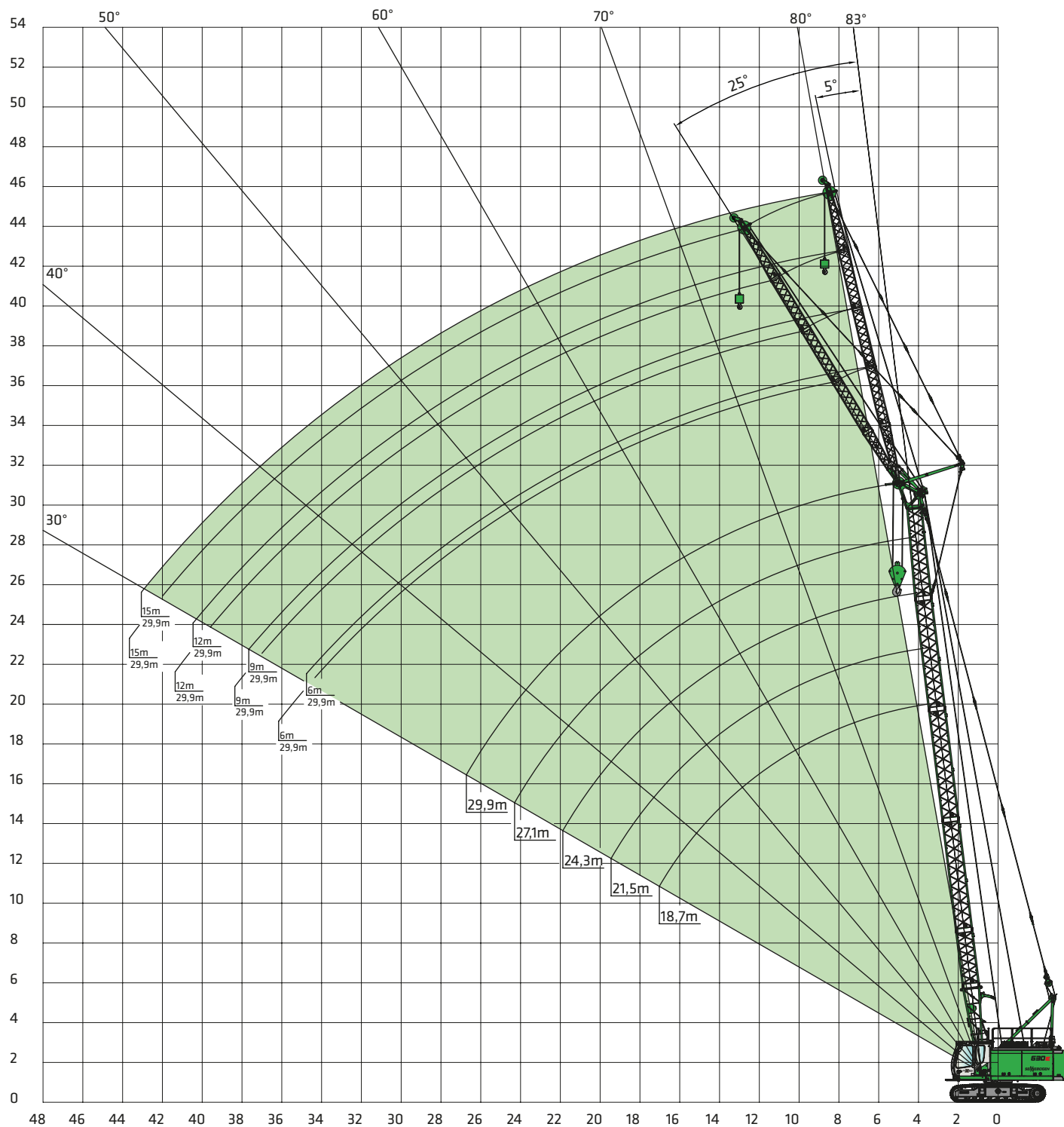
or max. load capacity 6.0 t

(rope diameter 18 mm)



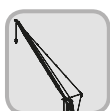
630E Fixed fly boom

HD



630E Working loads SHFS - fixed fly boom

HD



8.2 t	Main boom length [m]																									
	18.7					21.5					24.3					27.1					29.9					
5°	Fly boom length [m]																									
Outreach [m]	6.0	9.0	12.0	15.0	18.0	6.0	9.0	12.0	15.0	18.0	6.0	9.0	12.0	15.0	18.0	6.0	9.0	12.0	15.0	18.0	6.0	9.0	12.0	15.0		
5.0	8.5/5.2					8.5/5.5					8.5/5.8															
6.0	8.5	8.5/6.1	6.6/6.9			8.5	8.4/6.5				8.5	7.8/6.8				8.5/6.2							8.2/6.5			
7.0	8.5	8.5	6.6	5.5/7.4	4.8/7.6	8.5	8.2	6.2/7.2	5.2/7.7		8.5	7.8	5.9/7.5			8.5	7.2/7.2					8.1	6.6/7.5			
8.0	8.5	8.0	6.3	5.3	4.7	8.5	7.8	6.0	5.2	4.5	8.5	7.4	5.8	5.0	4.4/8.3	8.5	7.0	5.6	4.7/8.4	4.1/8.6	7.9	6.5	5.2/8.3	4.3/8.8		
9.0	8.3	7.6	5.9	5.1	4.5	8.1	7.4	5.8	4.9	4.4	7.9	7.1	5.6	4.8	4.3	7.6	6.7	5.4	4.6	4.1	7.3	6.3	5.1	4.3		
10.0	7.2	7.1	5.6	4.8	4.3	7.1	7.0	5.5	4.7	4.2	7.0	6.8	5.4	4.6	4.1	6.7	6.5	5.2	4.4	3.9	6.5	6.1	5.0	4.2		
11.0	6.2	6.3	5.3	4.6	4.1	6.1	6.3	5.2	4.5	4.0	6.1	6.2	5.2	4.4	4.0	6.0	5.9	5.0	4.2	3.8	5.8	5.7	4.8	4.0		
12.0	5.5	5.6	5.0	4.3	3.9	5.4	5.5	5.0	4.2	3.9	5.3	5.4	4.9	4.2	3.8	5.3	5.3	4.8	4.1	3.7	5.2	5.1	4.6	3.9		
13.0	4.9	5.0	4.7	4.1	3.7	4.8	4.9	4.7	4.0	3.7	4.7	4.8	4.7	4.0	3.6	4.6	4.7	4.6	3.9	3.5	4.6	4.6	4.5	3.8		
14.0	4.4	4.5	4.3	3.9	3.5	4.3	4.4	4.4	3.8	3.5	4.2	4.3	4.3	3.8	3.5	4.1	4.2	4.3	3.7	3.4	4.1	4.2	4.2	3.6		
15.0	4.0	4.0	4.0	3.7	3.3	3.9	3.9	4.0	3.7	3.3	3.8	3.9	3.9	3.6	3.3	3.7	3.8	3.8	3.5	3.3	3.6	3.7	3.8	3.5		
16.0	3.6	3.7	3.7	3.5	3.2	3.5	3.6	3.6	3.5	3.2	3.4	3.5	3.5	3.4	3.2	3.3	3.4	3.4	3.4	3.2	3.3	3.3	3.4	3.3		
17.0	3.3	3.3	3.4	3.3	3.0	3.2	3.2	3.3	3.3	3.0	3.1	3.2	3.2	3.2	3.0	3.0	3.1	3.1	3.1	3.0	2.9	3.0	3.0	3.0		
18.0	3.0	3.0	3.1	3.1	2.9	2.9	3.0	3.0	3.0	2.8	2.8	2.9	2.9	2.9	2.9	2.7	2.8	2.8	2.8	2.8	2.6	2.7	2.8	2.8		
19.0	2.7	2.8	2.8	2.8	2.7	2.6	2.7	2.7	2.7	2.6	2.6	2.6	2.7	2.7	2.6	2.5	2.5	2.6	2.6	2.5	2.4	2.5	2.5	2.5		
20.0	2.5	2.6	2.6	2.6	2.6	2.4	2.5	2.5	2.5	2.5	2.3	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.3	2.3		
22.0	2.1	2.2	2.2	2.2	2.2	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	2.0	1.9	1.8	1.9	1.9	1.9		
24.0	2.0/23.0	1.9	1.9	1.9	1.9	1.7	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.6	1.6		
26.0		1.6/25.8	1.6	1.6	1.6	1.5/25.4	1.5	1.5	1.5	1.5	1.4	1.4	1.5	1.5	1.4	1.3	1.4	1.4	1.4	1.4	1.2	1.3	1.3	1.3		
28.0			1.4	1.4	1.4		1.3	1.3	1.3	1.3	1.2/27.8	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.2	1.1	1.0	1.1	1.1	1.1		
30.0			1.8/28.6	1.2	1.2		1.3/28.3	1.1	1.1	1.1		1.0	1.1	1.1	1.0	0.9	0.9	1.0	1.0	0.9	0.8	0.9	0.9	0.9		
32.0				1.1/31.3	1.1			1.0/31.0	1.0	1.0		1.0/30.7	0.9	0.9	0.9	0.9/30.2	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7		
34.0					0.9/33.8				0.8/33.7	0.8			0.8/33.5	0.7	0.7		0.7/33.1	0.6	0.6	0.6	0.6	0.6/32.6	0.6	0.6		
36.0										0.7				0.6	0.6				0.5/35.9	0.5	0.5		0.5/35.5	0.4	0.4	
38.0									0.7/36.3				0.6/36.1	0.5						0.4	0.4			0.3	0.3	
40.0															0.4/38.7				0.4/38.5	0.3				0.3/38.3	0.2	
42.0																				0.2/41.1				0.2/41.0		
44.0																										
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Comments:

- The specified safe working load values apply for a level and stable stance of the machine.
- The safe working load values are specified in tons (t) and apply for 360 degrees.
- The safe working loads take the standards ISO 4305 Tab. 1+2 and the tilt angle method (tilt angle 4°) into account
- Deduct the weight of the load handling devices (hook, suspension gear) from the safe working loads.
- The safe working loads apply for the maximum undercarriage track width.
- Load ratings must be limited or reduced when conditions are unfavorable, such as soft or uneven ground, slopes, wind, lateral loads, swinging loads, jerking or sudden stopping of the load, operator inexperience, driving with load.
- Permissible rope tension per strand in crane operation is with rope diameter 22 mm - 8500 kg with rope diameter 18 mm - 6000 kg (max. safe working load 6000 kg)
- Safe working loads apply for the SHFS boom (boom assembly in accordance with the operating manual)
- Safe working loads apply for optimum boom assembly and a pulley head with plastic pulleys.
- The specified load ratings are only for orientation. See the operating manual for the respectively valid safe working loads.

630E Working loads SHFS - fixed fly boom

HD



8.2 t	Main boom length [m]																								
	18.7					21.5					24.3					27.1					29.9				
25°	Fly boom length [m]																								
Outreach [m]	6.0	9.0	12.0	15.0	18.0	6.0	9.0	12.0	15.0	18.0	6.0	9.0	12.0	15.0	18.0	6.0	9.0	12.0	15.0	18.0	6.0	9.0	12.0	15.0	
	5.0																								
6.0																									
7.0	7.4/7.1					7.1/7.4					6.7/7.8														
8.0	7.2	5.5/8.8				6.9					6.7					6.4/8.1						6.0/8.5			
9.0	6.9	5.5				6.7	5.2/9.2				6.5	5.0/9.5				6.2	4.7/9.9					6.0			
10.0	6.6	5.3	4.1/10.4			6.5	5.1	3.9/10.7			6.3	4.9				6.1	4.7					5.8	4.5/10.2		
11.0	6.4	5.1	4.0	3.4/11.7		6.3	4.9	3.9			6.1	4.8	3.7			5.9	4.6	3.5/11.4				5.7	4.4	3.4/11.7	
12.0	5.7	4.9	3.9	3.3	3.0/12.7	5.7	4.8	3.8	3.1		5.6	4.6	3.6	3.0/12.3		5.6	4.5	3.5	2.8/12.7		5.4	4.3	3.4		
13.0	5.1	4.7	3.8	3.2	2.9	5.0	4.6	3.7	3.1	2.8	5.0	4.5	3.5	2.9	2.7/13.4	4.9	4.4	3.4	2.8	2.5/13.8	4.9	4.2	3.3	2.7	
14.0	4.6	4.5	3.6	3.1	2.8	4.5	4.5	3.6	3.0	2.7	4.5	4.4	3.4	2.9	2.6	4.4	4.2	3.3	2.8	2.5	4.3	4.1	3.3	2.7	
15.0	4.1	4.3	3.5	3.0	2.7	4.1	4.2	3.4	2.9	2.6	4.0	4.2	3.4	2.8	2.6	3.9	4.1	3.3	2.7	2.5	3.9	4.0	3.2	2.6	
16.0	3.7	3.9	3.3	2.9	2.6	3.7	3.8	3.3	2.8	2.6	3.6	3.8	3.3	2.7	2.5	3.5	3.7	3.2	2.6	2.4	3.5	3.7	3.1	2.6	
17.0	3.4	3.5	3.2	2.8	2.6	3.3	3.5	3.2	2.7	2.5	3.3	3.4	3.2	2.6	2.4	3.2	3.4	3.1	2.6	2.4	3.1	3.3	3.0	2.5	
18.0	3.1	3.2	3.1	2.7	2.5	3.0	3.2	3.1	2.6	2.4	3.0	3.1	3.1	2.6	2.4	2.9	3.0	3.0	2.5	2.3	2.8	3.0	3.0	2.4	
19.0	2.8	3.0	2.9	2.6	2.4	2.8	2.9	3.0	2.5	2.3	2.7	2.8	3.0	2.5	2.3	2.6	2.8	2.9	2.4	2.2	2.6	2.7	2.8	2.4	
20.0	2.6	2.7	2.8	2.6	2.3	2.5	2.7	2.8	2.4	2.3	2.5	2.6	2.7	2.4	2.2	2.4	2.5	2.6	2.4	2.2	2.3	2.5	2.6	2.3	
22.0	2.2	2.3	2.4	2.4	2.2	2.1	2.2	2.3	2.2	2.1	2.1	2.2	2.3	2.3	2.1	2.0	2.1	2.2	2.2	2.1	1.9	2.1	2.2	2.2	
24.0	1.9/23.5	2.0	2.1	2.1	2.0	1.8	1.9	2.0	2.1	2.0	1.7	1.8	1.9	2.0	2.0	1.7	1.8	1.9	1.9	2.0	1.6	1.7	1.8	1.9	
26.0		1.7	1.8	1.8	1.9	1.5	1.6	1.7	1.8	1.8	1.5	1.6	1.6	1.7	1.8	1.4	1.5	1.6	1.6	1.7	1.3	1.4	1.5	1.6	
28.0		1.5/26.5	1.5	1.6	1.6		1.4	1.4	1.5	1.6	1.2	1.3	1.4	1.5	1.5	1.2	1.2	1.3	1.4	1.4	1.1	1.2	1.3	1.3	
30.0			1.3/29.5	1.4	1.4		1.3/29.0	1.2	1.3	1.3	1.2/28.4	1.1	1.2	1.2	1.3	1.0	1.0	1.1	1.2	1.2	0.9	1.0	1.0	1.1	
32.0				1.2	1.2			1.0/31.9	1.1	1.1		1.0/31.4	1.0	1.0	1.1	0.9/30.8	0.8	0.9	1.0	1.0	0.7	0.8	0.9	0.9	
34.0				1.1/32.5	1.0					0.9	1.0			0.8	0.9	0.9		0.7/33.8	0.7	0.8	0.8	0.6/33.2	0.6	0.7	0.7
36.0					0.9/35.4				0.8/34.9	0.8			0.8/34.4	0.7	0.8			0.6	0.6	0.7		0.5	0.5	0.6	
38.0										0.7/37.8				0.6/37.3	0.6			0.5/36.8	0.5	0.5		0.4/36.2	0.4	0.4	
40.0																0.5				0.4/39.7	0.4			0.3/39.2	0.3
42.0																0.5/40.2					0.3				0.2
44.0																					0.2/42.7				0.2/42.2
46.0	Table no. 630R-80/1840/06.5/0914 SHFS25																								
Number of strands	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

Comments:

- The specified safe working load values apply for a level and stable stance of the machine.
- The safe working load values are specified in tons (t) and apply for 360 degrees.
- The safe working loads take the standards ISO 4305 Tab. 1+2 and the tilt angle method (tilt angle 4°) into account
- Deduct the weight of the load handling devices (hook, suspension gear) from the safe working loads.
- The safe working loads apply for the maximum undercarriage track width.
- Load ratings must be limited or reduced when conditions are unfavorable, such as soft or uneven ground, slopes, wind, lateral loads, swinging loads, jerking or sudden stopping of the load, operator inexperience, driving with load.
- Permissible rope tension per strand in crane operation is with rope diameter 22 mm - 8500 kg with rope diameter 18 mm - 6000 kg (max. safe working load 6000 kg)
- Safe working loads apply for the SHFS boom (boom assembly in accordance with the operating manual)
- Safe working loads apply for optimum boom assembly and a pulley head with plastic pulleys.
- The specified load ratings are only for orientation. See the operating manual for the respectively valid safe working loads.

630E**HD**

Main boom with fixed fly SHFS

	Boom length	Boom configuration									
		Main boom					Fixed fly jib				
		18.7	21.5	24.3	27.1	29.9	6.0	9.0	12.0	15.0	18.0
Lower boom section type 870.52	4.4 m	1	1	1	1	1					
Boom section type 870.52	2.8 m	1	2	1	2	1					
Boom section type 870.52	5.6 m	1	1	2	2	3					
Head piece type 870.52	5.9 m	1	1	1	1	1					
Fly boom - lower boom section type 598	3.0 m						1	1	1	1	1
Fly boom - boom section type 598	3.0 m						0	1	2	3	4
Fly boom head piece type 598	3.0 m						1	1	1	1	1

Combination possibilities SHFS

Length fixed fly	Boom configuration				
	Main boom				
	18.7	21.5	24.3	27.1	29.9
6.0 m	x	x	x	x	x
9.0 m	x	x	x	x	x
12.0 m	x	x	x	x	x
15.0 m	x	x	x	x	x
18.0 m	x	x	x	x	



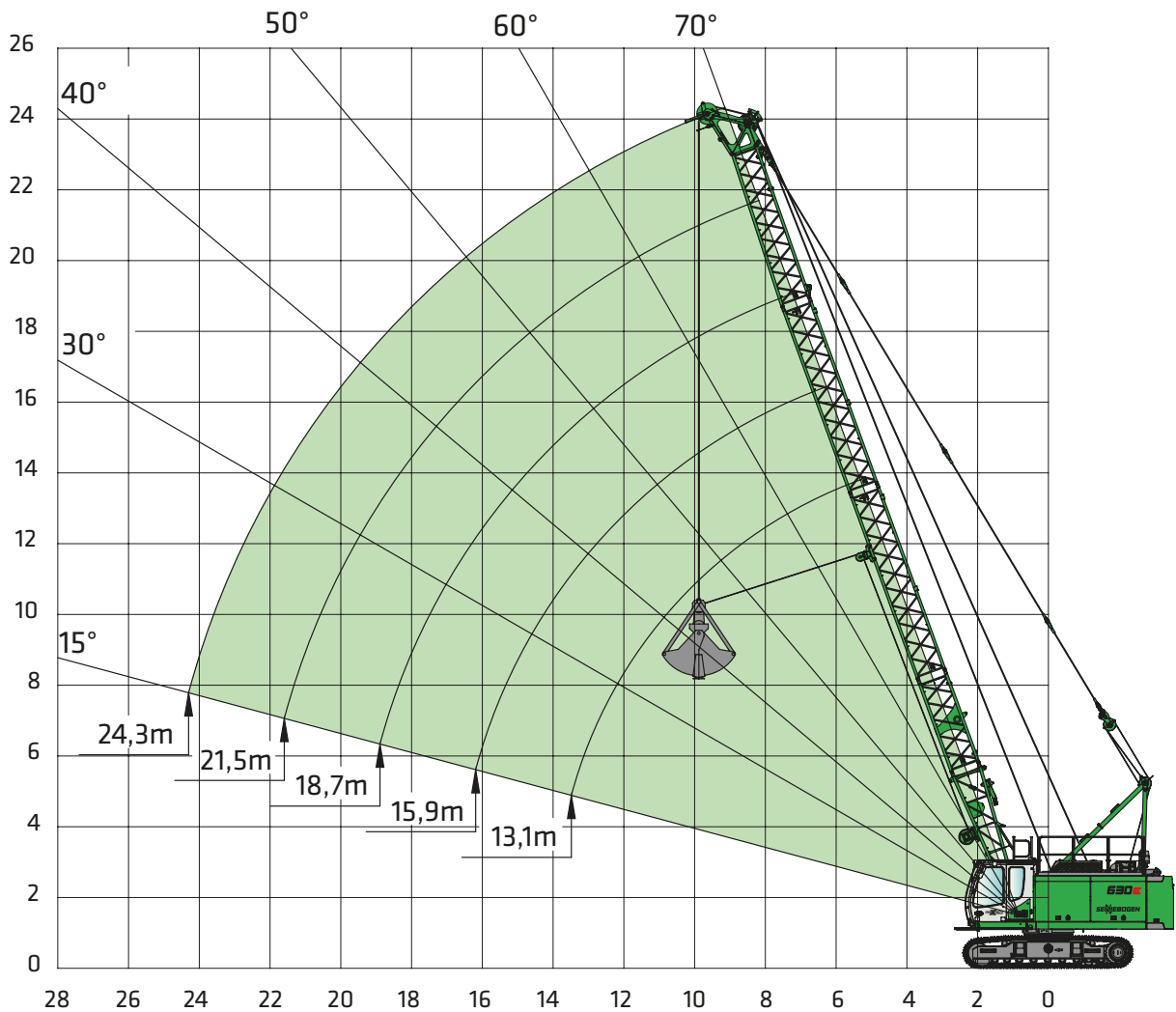
Hook

For 120 kN winches with 22 mm rope diameter

Capacity	Weight	Rope strands and maximum safe working load [kg]					
		6	5	4	3	2	1
10 t	200 kg						8500
25 t 1-pulley	300 kg				25,000	17,000	8500
40 t 2-pulley	350 kg			30,000	25,500	17,000	8500

For 90 kN winches with 18 mm rope diameter

Capacity	Weight	Rope strands and maximum safe working load [kg]					
		6	5	4	3	2	1
6 t	120 kg						6000
18 t 1-pulley	200 kg				18,000	12,000	6000
32 t 3-pulley	300 kg		30,000	24,000	18,000	12,000	6000



Comments:

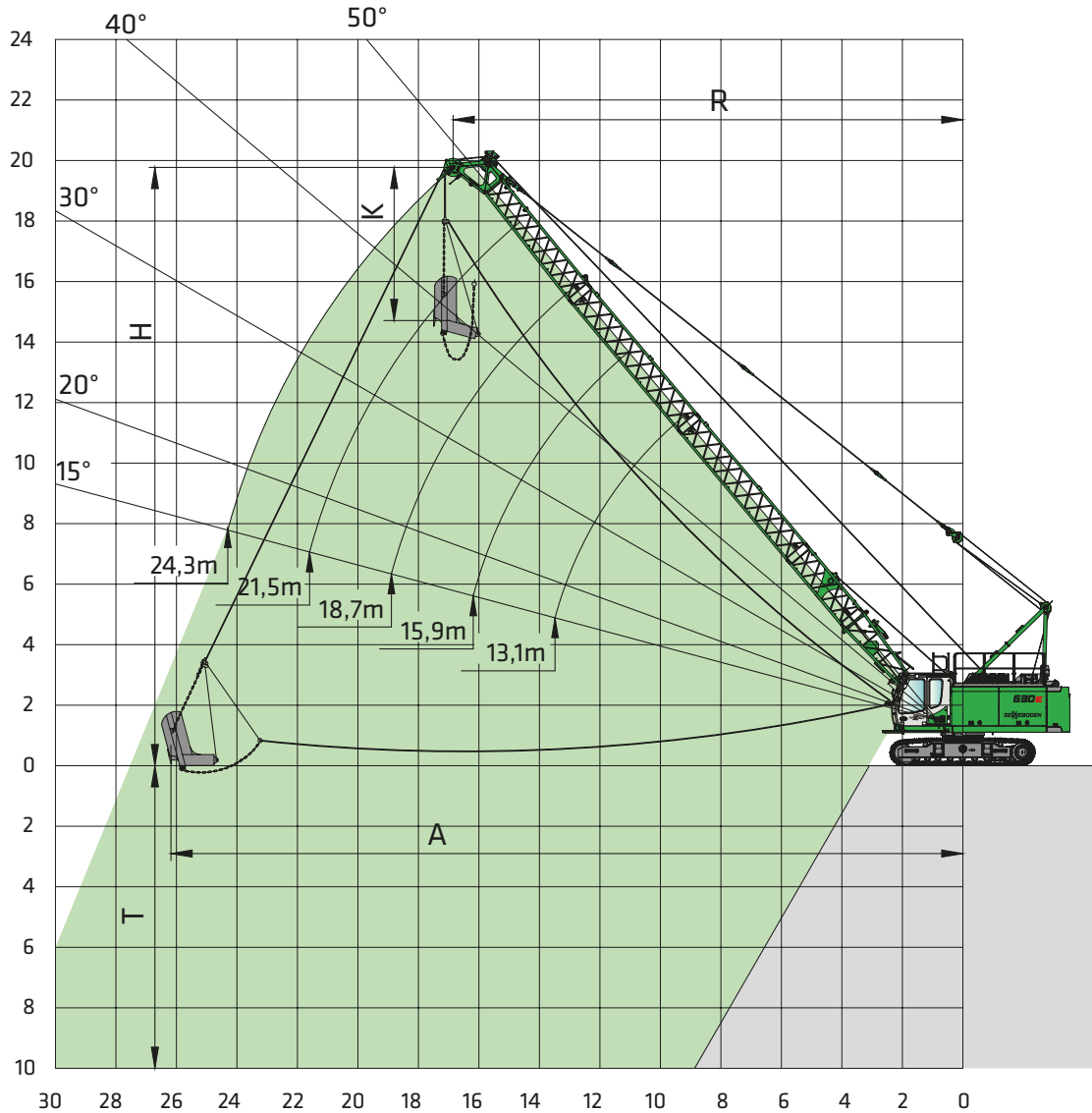
1. The specified safe working load values apply for a level and stable stance of the machine.
2. Load ratings are in tons (t) and apply for 360 degrees.
3. The safe working loads apply for the maximum outrigger width / undercarriage track width of 3550 mm
4. The specified safe working loads include the grapple weight and do not exceed 66.7% of the tipping load
5. For operation with a mechanical two-rope grapple and even load distribution on the closing and holding ropes, the safe working load is limited by the permissible rope tension or the maximum winch pulling force of a winch:

Winch pulling force [kN]	90	120
Rope diameter [mm]	18	22
Minimum tensile strength [kN]	320	426
Maximum safe working load in single-winch operation	9.0	12.0
Maximum safe working load in two-winch operation	13.6	18.2

 6.5 t	Boom length [m]														
	13.1			15.9			18.7			21.5			24.3		
	R	H	t	R	H	t	R	H	t	R	H	t	R	H	t
Boom angle alpha [°]	m	m	t	m	m	t	m	m	t	m	m	t	m	m	t
70	5.8	13.8	13.5	6.8	16.4	10.7	7.7	19.0	8.8	8.7	21.7	7.3	9.6	24.3	6.3
65	6.8	13.3	10.6	8.0	15.8	8.3	9.2	18.4	6.8	10.4	20.9	5.7	11.6	23.4	4.8
60	7.8	12.7	8.7	9.2	15.1	6.8	10.6	17.6	5.6	12.0	20.0	4.6	13.4	22.4	3.9
55	8.8	12.1	7.4	10.4	14.4	5.8	12.0	16.6	4.7	13.6	18.9	3.8	15.2	21.2	3.2
50	9.7	11.3	6.5	11.5	13.5	5.0	13.3	15.6	4.1	15.1	17.8	3.3	16.9	19.9	2.7
45	10.5	10.5	5.8	12.4	12.5	4.5	14.4	14.5	3.6	16.4	16.5	2.9	18.4	18.4	2.4
40	11.2	9.6	5.3	13.3	11.4	4.1	15.5	13.2	3.2	17.6	15.0	2.6	19.8	16.8	2.1
35	11.9	8.7	4.9	14.2	10.3	3.7	16.5	11.9	3.0	18.7	13.5	2.4	21.0	15.1	1.9
30	12.4	7.7	4.6	14.9	9.1	3.5	17.3	10.5	2.8	19.7	11.9	2.2	22.1	13.3	1.8
25	12.9	6.7	4.3	15.5	7.9	3.3	18.0	9.1	2.6	20.5	10.2	2.1	23.1	11.4	1.6
20	13.3	5.6	4.2	16.0	6.6	3.2	18.6	7.5	2.5	21.2	8.5	2.0	23.8	9.4	1.6
15	13.6	4.5	4.0	16.3	5.2	3.1	19.0	6.0	2.4	21.7	6.7	1.9	24.4	7.4	1.5

630E Dragline bucket equipment

HD




Comments:

1. The specified safe working load values apply for a level and stable stance of the machine.
2. The safe working load values are specified in tons (t) and apply for 360 degrees.
3. The safe working loads apply for the maximum outrigger width / undercarriage track width of 3550 mm.
4. The specified safe working loads include the grapple weight and do not exceed 75 % of the tipping load.
5. Motor and winch equipment as required (the specified values apply for maximum equipment and average conditions).
6. The dragline bucket size must be configured in accordance with the given conditions.

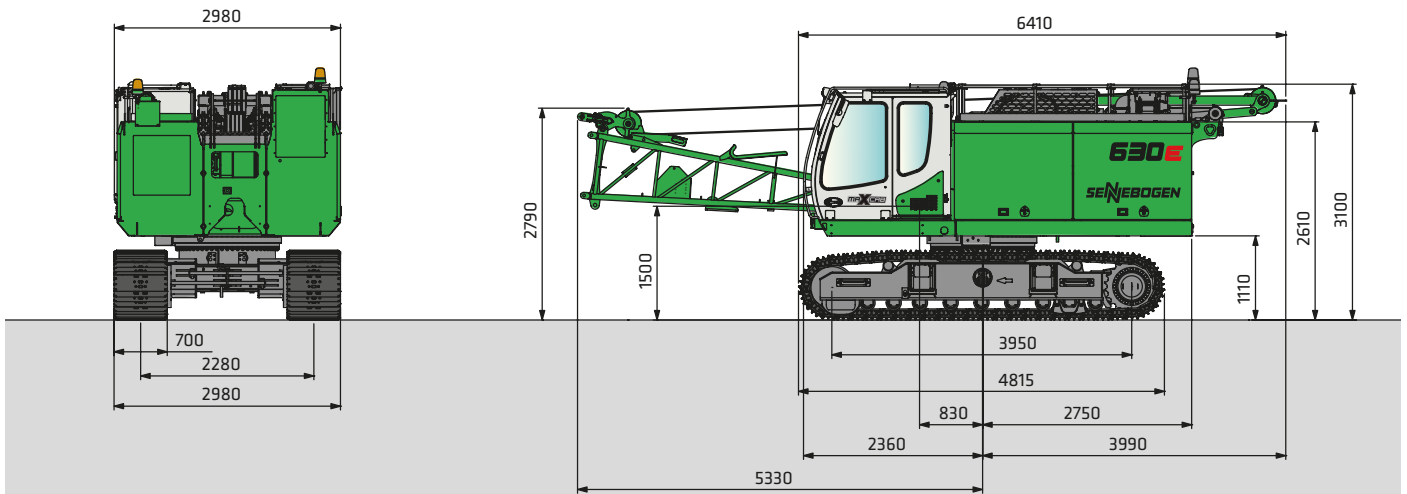
Dredging arc:

- R = Working radius
- A = Maximum dredging width = approx. $R + 1/3$ to $1/2 (H-K)$
- T = Dredging depth = approx. 40-50 % of R
- H = Height
- K = Length of the dragline bucket

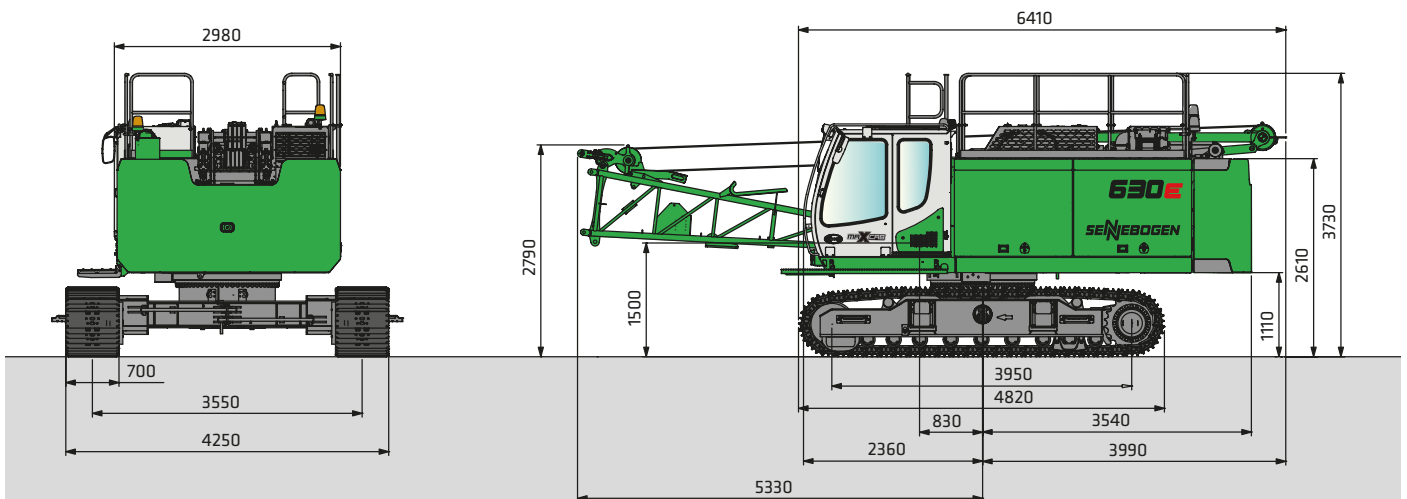
 6.5 t	Boom length [m]														
	13.1			15.9			18.7			21.5			24.3		
	R	H	t	R	H	t	R	H	t	R	H	t	R	H	t
Boom angle alpha [°]	m	m	t	m	m	t	m	m	t	m	m	t	m	m	t
50	9.7	11.3	7.3	11.5	13.5	5.7	13.3	15.6	4.6	15.1	17.8	3.7	16.9	19.9	3.1
45	10.5	10.5	6.5	12.4	12.5	5.0	14.4	14.5	4.1	16.4	16.5	3.3	18.4	18.4	2.7
40	11.2	9.6	5.9	13.3	11.4	4.6	15.5	13.2	3.7	17.6	15.0	2.9	19.8	16.8	2.4
35	11.9	8.7	5.5	14.2	10.3	4.2	16.5	11.9	3.4	18.7	13.5	2.7	21.0	15.1	2.2
30	12.4	7.7	5.1	14.9	9.1	3.9	17.3	10.5	3.1	19.7	11.9	2.5	22.1	13.3	2.0
25	12.9	6.7	4.9	15.5	7.9	3.7	18.0	9.1	2.9	20.5	10.2	2.3	23.1	11.4	1.9
20	13.3	5.6	4.7	16.0	6.6	3.6	18.6	7.5	2.8	21.2	8.5	2.2	23.8	9.4	1.8
15	13.6	4.5	4.5	16.3	5.2	3.4	19.0	6.0	2.7	21.7	6.7	2.1	24.4	7.4	1.7

630E Dimensions

HD



630 HD without counterweight, lower boom section 2 x 12 t free-fall winch, approx. 27,200 kg



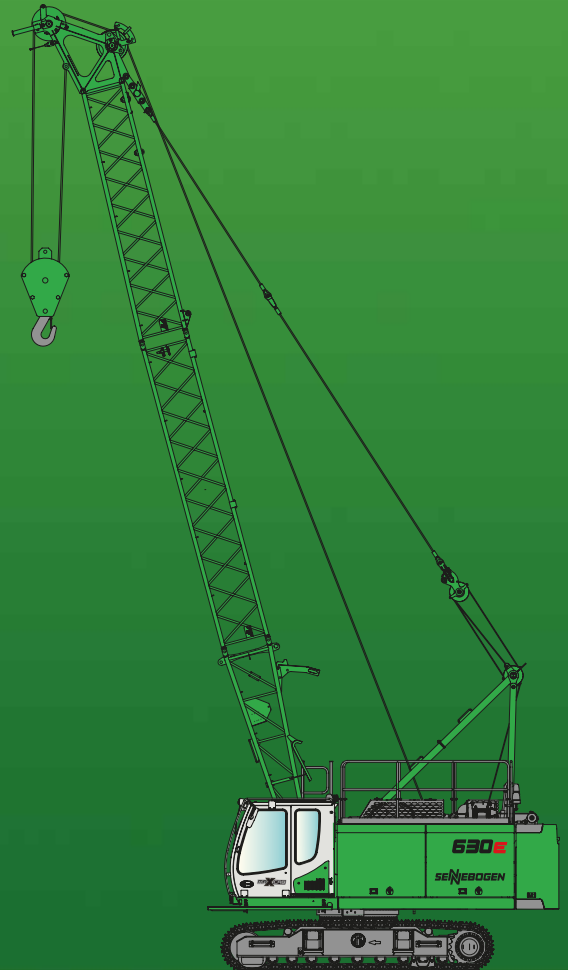
630 HD with counterweight 6.5 t, telescopic undercarriage T27/355.
Lower boom section 2 x 12 t free-fall winch approx. 33,700 kg

630E Transport dimensions

HD

	Lower boom section 4.4 m, type 870.52
	Weight: 680 kg
	Intermediate boom section 2.8 m, type 870.52 (DL) with deflection sheave for dragline bucket operation
	Weight: 520 kg (incl. holding ropes)
	Intermediate boom section 2.8 m, type 870.52
	Weight: 250 kg (incl. holding ropes)
	Intermediate boom section 5.6 m, type 870.52 with deflection sheave for dragline bucket operation
	Weight: 400 kg (incl. holding ropes)
	Boom headpiece 5.9 m, type 870.52
	Steel rollers: 1050 kg (incl. holding ropes) Plastic rollers 920 kg (incl. holding ropes)
	Auxiliary jib S12.5
	Weight: 280 kg
	Counterweight
	Weight: 6500 kg
	Lower boom section 3.0 m, type 598
	Weight: 330 kg
	Intermediate boom section 3.0 m, type 598
	Weight: 120 kg (incl. holding ropes)
	Boom headpiece 3 m, type 598
	Weight: 210 kg (incl. holding rope)

630E



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SENNEBOGEN

SENNEBOGEN
Maschinenfabrik GmbH
Sennebogenstrasse 10
94315 Straubing, Germany

Tel. +49 9421 540-144/146
Fax +49 942143 8-82
marketing@sennebogen.de

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