



**119** kW (Tier 3a) **129** kW (Tier 4)



**50** t



**30.4** m



**MAXCAB**

# 653E

Telescopic crawler crane

Tier 4f emission  
standards

# 653E Taken further. The E-Series.



1984: telescopic crane S212

## What makes up the E-Series

- More than 20 years of experience in designing and constructing highly specialized telescopic 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 Power at the highest level**  
Robust boom system – work on an incline of up to 4°  
2 equal crane winches – high cable speed

- 3 Maximum usability**  
maXcab – work in comfort  
SENCON – work program selection made easy



- 4 Flexibility in service**  
Moving under load – minimal space requirements  
Strong undercarriage traction – excellent 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**  
SENNEBOGEN control system – easy error diagnostics  
Simple maintenance – clear labelling

- 7 Consultation and support near you**  
3 production sites – 2 subsidiaries  
120 sales partners – more than 300 service points

## Emission standards

### Tier 4f

- Powerful, modern engine
- Saves tons of fuel
- Clean emissions

# 653E Powerful. Effective.

## Strong telescopic boom for demanding tasks

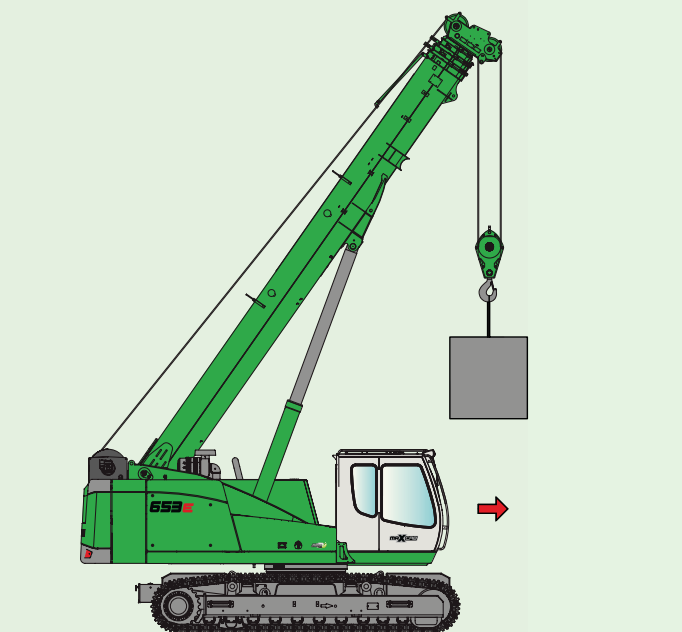
- Full power boom
- Work on inclines of up to 4° possible\*
- Telescoping under load

## Large operating range

- 30.4-meter boom length
- With fly boom extendable to 36.9 m or 43.4 m

## Easy and flexible work – saves time

- Precision hydraulics allow telescoping to any boom length quickly
- Intuitive joystick control
- Ready to go in no time, even with varying work heights
- Always the ideal boom length in no time at all



## Unique flexibility on the construction site

- Moveable even under full loads
- Excellent maneuverability thanks to strong undercarriage traction
- Easy, inexpensive transport and short setup time thanks to self-assembly system

## Telescopic undercarriage

- Maximum stability thanks to extremely long, telescopic crawler chassis with large outrigger area
- Low ground pressure thanks to wide crawler shoes, reliable stability even during dynamic tasks
- Robust tractor chassis and oversized travel drive for maximum all-terrain movement



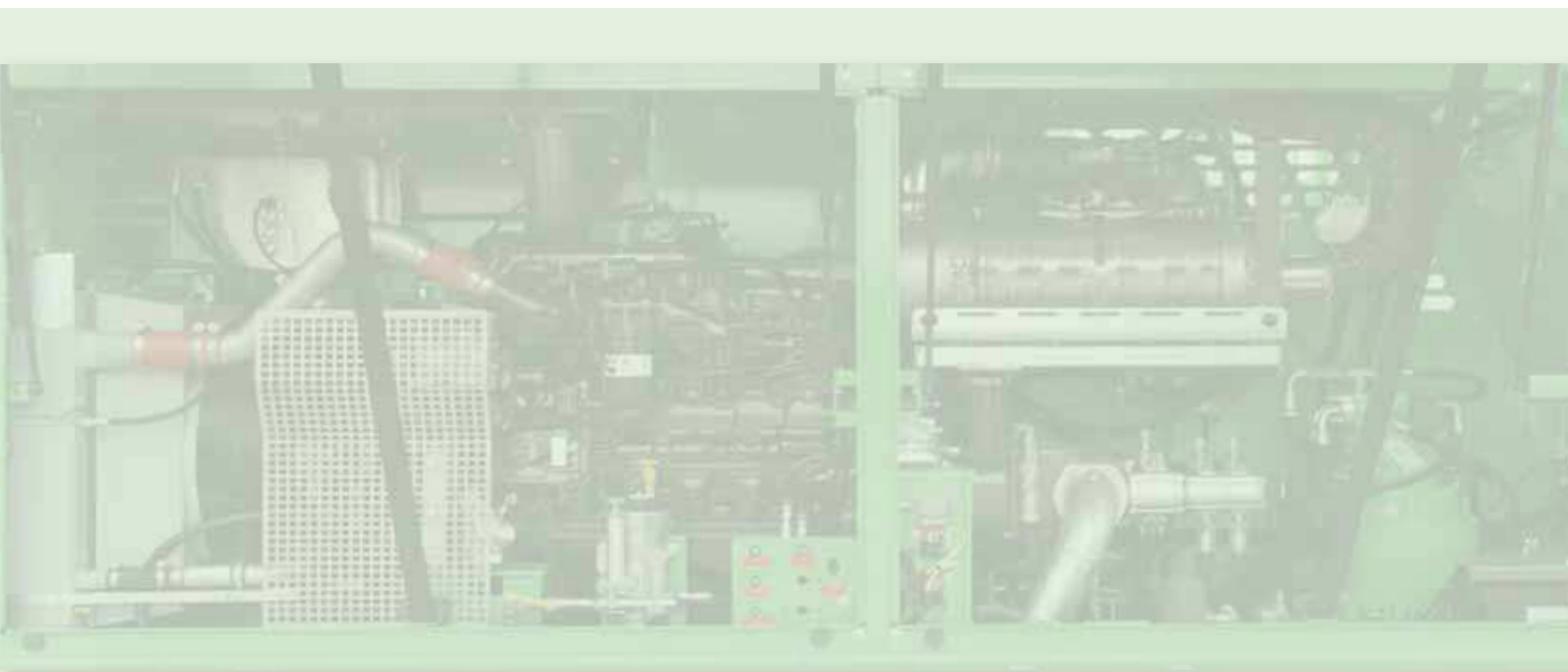
## Hoisting winches

- Two hoisting winches working side by side
- Compact machine with small rear radius

## Elevating work platform\*

- Unfolds to an internal size of 4 x 1.25 m
- Payloads up to 500 kg possible
- 360° continuous rotation

## 500 kg elevating work platform\*



## Quiet operation

- Consistently quiet operation thanks to decoupled engine mounts and soundproofing
- Sound pressure level in accordance with 2000/14/EC as much as 2 dB lower than required

## Clearly arranged engine compartment

- Service-friendly design
- Engine variant meeting Tier 3a emission standards
- Engine variant meeting Tier 4 emission standards incl. AdBlue supply

\* Check for availability



# 653E Comfort redefined



## Automatic climate control

- Consistently pleasant cab climate thanks to 10 evenly distributed air vents
- Central controls make operation easy

## Comfortable maXcab operator cab

- Air-suspension comfort seat with heater
- Convenient joystick control
- Hinged front window
- Sliding door, platform in front of cab
- Color monitor for up to 4 cameras
- Cab can be tilted 15°

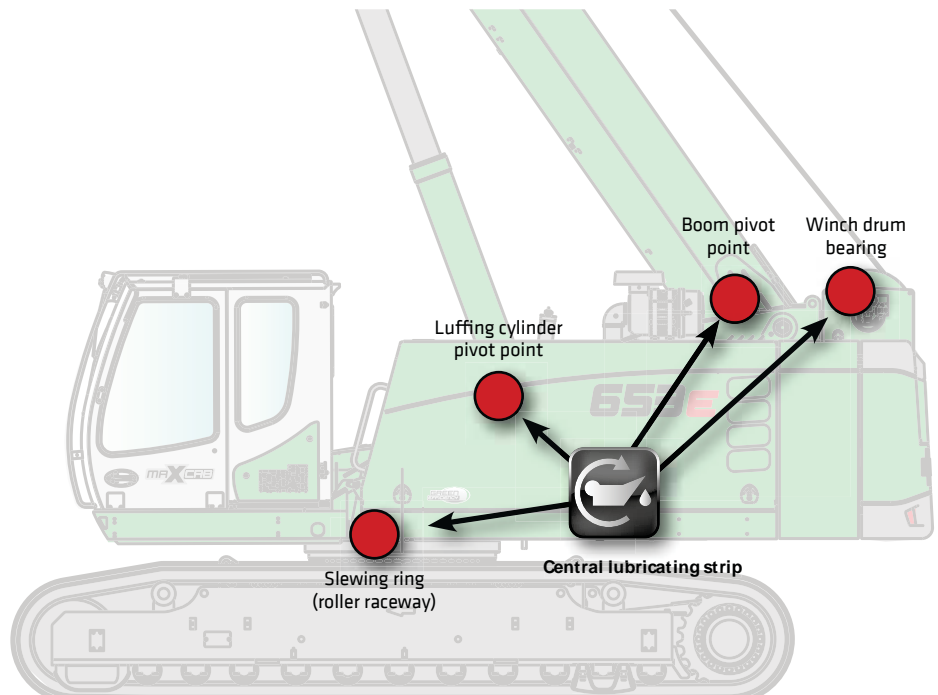
## SENCON control system

- Clear menu control
- Individual fine-tuning, optimal machine performance
- Integrated load moment limiting with capacity utilization indicator
- Fast troubleshooting thanks to detailed information

# 653E Maintenance and service made easy

## Simplest service

- Central, easily accessible lubricating strip
- Optional: central lubrication system for automatic lubrication



## HydroClean\*

- 3-µm microfilter for optimal protection of hydraulic components
- Cleaner hydraulic oil, extended oil service life
- With water separator



## Walkways on both sides

- Platform in front of and next to cab for more safety while entering and exiting
- Platforms along left and right sides of uppercarriage for safe maintenance



## Optimized for maintenance

- Fast and easy troubleshooting thanks to straightforward and clearly labeled electrical distributor
- Easy access to all service points on the machine

\* Option

# 653E Technical data - equipment

## MACHINE TYPE

Model (type) **653**

## ENGINE

Model	Cummins QSB 4.5 diesel motor, <b>119 kW/ 162 hp at 2,200 rpm</b> Tier 3a emission standards  Cummins QSB 4.5 diesel motor, <b>129 kW/ 175 hp at 2,500 rpm</b> Tier 4f emission standards  Direct injection, turbo-charged, charge air cooling, reduced emissions
Cooling	Water-cooled
Diesel filter	With water separator and heating system
Air filter	Dry filter with integrated pre-separator, automatic dust discharge, main element and safety element, contamination indicator
Fuel tank	<b>360 l</b>
AdBlue tank	<b>38 l</b>
Electrical system Anlage	<b>24 V</b>
Batteries	<b>2 x 155 AH</b> battery disconnect switch
Options	<ul style="list-style-type: none"> <li>Low-temperature package with engine pre-heating and heated diesel filter for temperatures below -20 °C</li> <li>Electric fuel pump</li> </ul>

## UPPERCARRIAGE

Design	Torsion-resistant box design, precision crafted, steel bushings for boom bearings. Extremely service-friendly design, longitudinal engine
Electrical system	Central electrical distributor, battery disconnect switch
Cooling system	3-circuit cooling system with high cooling capacity, electronically regulated fan drive for water, charge air and oil cooler
Safety	Rearview and right sideview cameras, LED lighting package
Options	<ul style="list-style-type: none"> <li>Additional LED headlights</li> <li>Up to 2 additional cameras</li> <li>Anti-corrosive maritime climate varnish</li> <li>Low-temperature package for use at temperatures below -20 °C</li> </ul>

## Options

- Automatic central lubrication for boom pivot point, luffing cylinder, slewing ring track and winch drum bearing
- Pinion tooth lubrication for slewing ring
- Uppercarriage railing

## HYDRAULIC SYSTEM

Load sensing/LUDV hydraulic system, electrohydraulic pilot-controlled work functions, load limit sensing control	
Pump type	Swashplate-type variable-displacement piston pump, load pressure-independent flow distribution for simultaneous, independent control of work functions
Pump control	Zero-stroke control, on-demand flow control – the pumps only pump as much oil as will actually be used, pressure purging, load limit sensing control
Operating pressure	<b>max. 330 bar</b>
Filtration	High-performance filtration with long change interval
Hydraulic tank	<b>500 l</b>
Control system	Proportional, precision electrohydraulic actuation of work movements, 2 electric servo joysticks for work functions, including winch motion display via vibration transducer, additional functions via switches and pedals
Safety	Hydraulic circuits secured with safety valves Pipe fracture safety valve for luffing and telescoping cylinders
Options	<ul style="list-style-type: none"> <li>Bio-oil – environmentally friendly</li> <li>SENNEBOGEN HydroClean 3-µm hydraulic microfilter</li> <li>Electric heater for hydraulic tank for temperatures below -20 °C</li> </ul>

## SLEWING DRIVE

Gearbox	Compact planetary gear with slant-axis hydraulic motor, integrated brake valves
Slewing gear brake	Spring-loaded disk brake, pedal for individual braking
Slewing ring	Externally geared slewing ring, sealed
Slewing speed	<b>0 – 2 rpm, variable</b>



# 653E Technical data- equipment

## CAB **MAXCAB**

Cab type	maXcab full-size cab, 15° tiltable
Cab equipment	Sliding door, excellent ergonomics, automatic climate control, heated seat, air-suspension comfort seat, fresh air filter/circulating air filter, 12/24 V connections, SENCON, roller shade for sunroof
Options	<ul style="list-style-type: none"> <li>Hydraulically elevating cab E270, can be elevated 2.70 m and tilted 30°</li> <li>Auxiliary heating system with timer</li> <li>Activated-carbon filter for cab</li> <li>Sliding window in operator door</li> <li>Armored-glass windshield</li> <li>Armored-glass sunroof</li> <li>Protective roof grating</li> <li>FOPS protective roof grating</li> <li>Radio with CD player</li> </ul>

## ATTACHMENTS

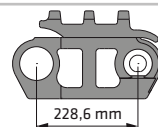
Design	Decades of experience, state-of-the-art computer simulation, maximum stability, longest service life, oversized, low-maintenance bearing points, sealed special bearing bushes, precision-crafted
Telescopic boom	4-piece with pulley head, continuous hydraulic telescoping from 9.4 – 30.4 m
Hoisting winch	Slant-axis hydraulic motor drive with compact planetary gear, 50 kN pulling power (4th layer), 0 – 115 m/min. cable speed, 16 mm cable diameter, 170 m cable length. Winch motion display via vibration transducers in the joysticks
Safety brake	Spring-loaded disk brake
Crane safety	Next-generation load moment monitoring, straightforward panel displaying all important data through SENCON display, lifting limit switch, cable exit protection, pressure relief valves and pipe fracture safety device with event recorder
Cylinders	Hydraulic cylinders with high-quality sealing and guide elements
Options	<ul style="list-style-type: none"> <li>6.5-m fly boom, tiltable (0°, 40°), extremely fast and easy setup without auxiliary devices, locked on basic boom when not in use</li> <li>Fly boom extension to 13 m, tiltable (0°, 40°)</li> </ul>

## Options

- Auxiliary jib, 5-t load capacity, 1-strand
- 2nd crane winch with 50 kN pulling power (4th layer), 0 – 115 m/min. cable speed, 16 mm cable diameter and 170 m cable length
- Additional load charts accepted for 2°/4° incline position
- Suitable for use as elevating work platform with up to 4 m width and 500 kg payload
- 3-kW electrohydraulic emergency unit
- Remote radio control

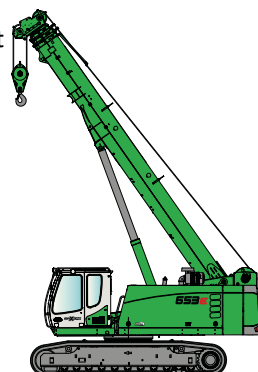
## UNDERCARRIAGE

Design	<b>T41/ 380</b> crawler undercarriage with hydraulically extendable track width. Stable welded construction.
Drive	Hydraulic travel drive for each running gear side, 2-stage hydraulic traction motors
Parking brake	Spring-loaded, hydraulically ventilated disk brake
Traveling gear	700-mm 3-grouser crawler shoes, maintenance-free tractor chassis
Speed	<b>0 – 2.9 kph</b>
Options	Available crawler shoe types: <ul style="list-style-type: none"> <li>800-mm 3-grouser crawler shoes</li> <li>700-mm flat crawler shoes</li> </ul>



## OPERATING WEIGHT

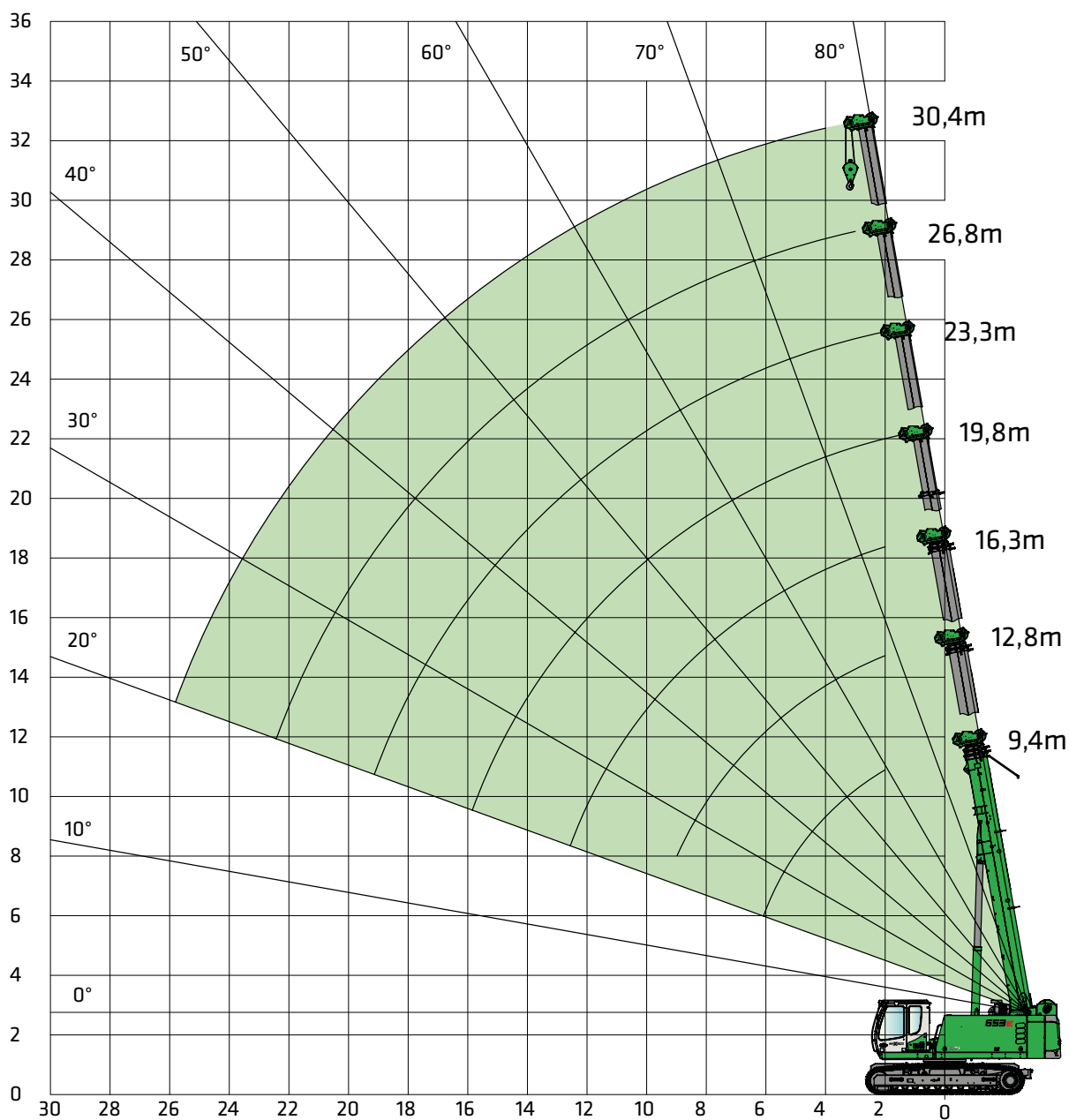
Mass	<b>Approx. 49,900 kg</b> With 30.4-m telescopic boom, 13-m fly boom, 35-t hook, 700-mm 3-grouser crawler shoes, 2 hoisting winches, hydraulically telescoping undercarriage, 8.9-t ballast, 5.5-t undercarriage ballast
Note	The operating weight varies according to model type.



# 653E Crane equipment



30.4-m main boom (HA)



Hook

Capacity	Weight	Cable reeving and max. load capacity									
		10	9	8	7	6	5	4	3	2	1
5 t	80 kg										5,000 kg
15 t 1-pulley	190 kg								15,000 kg	10,000 kg	5,000 kg
35 t 3-pulley	260 kg				35,000 kg	30,000 kg	25,000 kg	20,000 kg	15,000 kg	10,000 kg	5,000 kg
60 t 6-pulley	540 kg	50,000 kg	45,000 kg	40,000 kg	35,000 kg	30,000 kg	25,000 kg	20,000 kg	15,000 kg	10,000 kg	5,000 kg

# 653E Load ratings

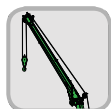


30.4-m main boom (HA)

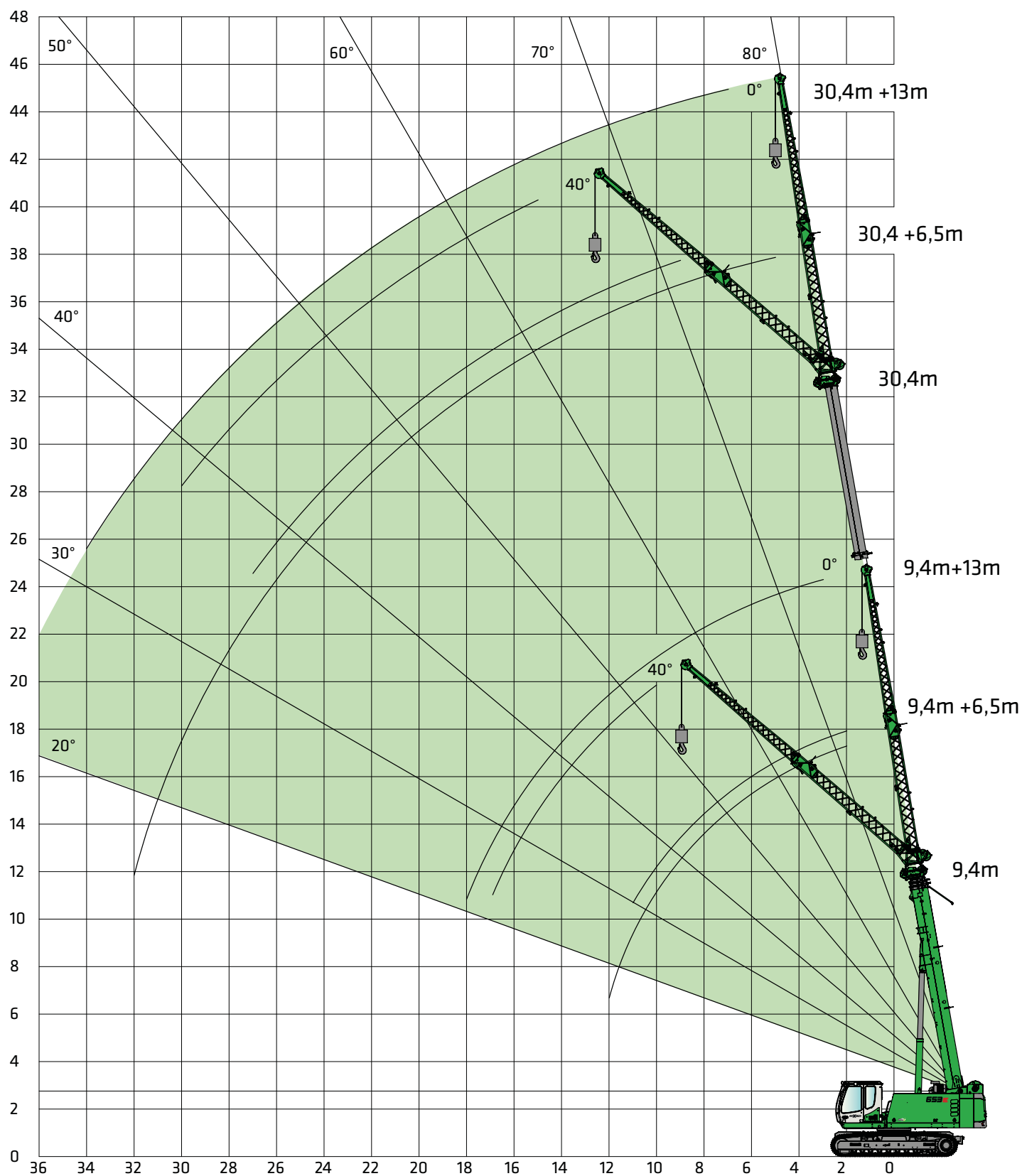
	Boom length [m]																				
	9.4			12.8			16.3			19.8			23.3			26.8			30.4		
Counterweight [t]	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
Undercarriage ballast [t]	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Undercarriage track width [m]	3.8	3.0	2.3	3.8	3.0	2.3	3.8	3.0	2.3	3.8	3.0	2.3	3.8	3.0	2.3	3.8	3.0	2.3	3.8	3.0	2.3
Outreach [m]																					
2.0	50.0	40.0	35.0	31.0	31.0	30.0	26.0	26.0	20.0	15.6	15.6	15.6	14.5	14.5	14.5						
3.0	45.0	40.0	35.0	31.0	31.0	30.0	24.4	24.4	20.0	15.6	15.6	15.6	14.5	14.5	14.5	12.7	12.7	12.7			
4.0	38.0	30.0	24.0	31.0	30.0	22.7	21.7	21.7	20.0	15.6	15.6	15.6	14.5	14.5	14.5	12.6	12.6	12.6	9.2	9.2	9.2
5.0	30.0	22.5	17.0	28.0	22.6	17.3	19.3	19.3	16.0	15.6	15.6	15.5	14.2	14.2	14.2	12.4	12.4	12.4	9.2	9.2	9.2
6.0	22.0	17.0	13.0	22.3	17.0	13.2	16.9	16.6	12.8	14.9	14.9	12.6	13.6	13.6	12.3	11.9	11.9	11.9	9.2	9.2	9.2
7.0				17.3	13.4	10.4	15.0	13.3	10.3	13.6	13.4	10.4	12.5	12.5	10.2	11.1	11.1	10.0	9.1	9.1	9.1
8.0				14.2	10.9	8.4	13.3	10.8	8.3	12.2	11.2	8.7	11.2	11.2	8.7	10.3	10.3	8.6	8.7	8.7	8.4
9.0				11.5	9.0	7.0	11.5	8.9	6.9	11.1	9.3	7.3	10.2	9.6	7.5	9.4	9.4	7.4	8.2	8.2	7.3
10.0							9.7	7.5	5.8	9.9	7.9	6.1	9.3	8.2	6.4	8.6	8.3	6.4	7.8	7.8	6.4
11.0							8.3	6.4	4.9	8.7	6.8	5.2	8.5	7.0	5.5	8.0	7.2	5.6	7.3	7.3	5.6
12.0							7.2	5.5	4.1	7.5	5.9	4.5	7.7	6.1	4.7	7.3	6.3	4.9	6.8	6.4	5.0
13.0							6.2	4.7	3.5	6.6	5.1	3.9	6.9	5.4	4.1	6.8	5.5	4.3	6.4	5.7	4.4
14.0										5.8	4.5	3.4	6.0	4.7	3.6	6.1	4.9	3.8	5.9	5.0	3.9
15.0										5.2	3.9	2.9	5.4	4.2	3.2	5.6	4.4	3.3	5.6	4.5	3.5
16.0										4.6	3.5	2.5	4.8	3.7	2.8	5.0	3.9	2.9	5.0	4.0	3.1
17.0													4.3	3.3	2.4	4.5	3.5	2.6	4.7	3.6	2.7
18.0													3.9	2.9	2.1	4.1	3.1	2.3	4.2	3.2	2.4
19.0													3.5	2.6	1.8	3.7	2.8	2.0	3.9	2.9	2.1
20.0													3.1	2.3	1.5	3.4	2.5	1.7	3.5	2.6	1.9
21.0																3.1	2.2	1.5	3.2	2.4	1.6
22.0																2.8	2.0	1.3	2.9	2.1	1.4
23.0																2.5	1.8	1.1	2.7	1.9	1.2
24.0																			2.4	1.7	1.1
25.0	Table no.: 653R-75/1977/8.9+5.5/10.14 HA 0,3°																		2.2	1.5	0.9
26.0	Table no.: 653R-75/1577/8.9+5.5/10.14 HA 0,3°																		2.0	1.3	0.7
Number of strands	4	10	10	3	8	8	3	6	6	2	4	4	2	4	4	2	4	4	1	4	4
I	0%			50%			100%			100%			100%			100%			100%		
II	0%			0%			0%			25%			50%			75%			100%		
III	0%			0%			0%			25%			50%			75%			0%		
Load capacity reduction [kg]	580			420			330			270			230			200			180		
180	-																				

Subject to change. See page 17 for notes on load lift charts.

# 653E Crane equipment

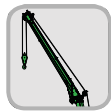


6.5-m or 13-m fly boom (SA)



12 Subject to change. See page 17 for notes on load lift charts.

# 653E Load ratings



6.5-m fly boom (SA)

8.9 t 5.5 t	Telescopic boom length [m]							
	9.4		16.3		23.8		30.3	
3.8 m	0°	40°	0°	40°	0°	40°	0°	40°
Outreach [m]								
2.0	10.0							
3.0	9.9		10.0		9.9			
4.0	8.6		9.9		9.4			
5.0	7.7	4.6	9.4		9.0		4.9	
6.0	6.9	4.4	8.7	4.6	8.5		4.8	
7.0	6.3	4.2	8.0	4.5	8.0	4.4	4.8	
8.0	5.7	4.0	7.4	4.3	7.6	4.3	4.7	
9.0	5.2	3.9	6.9	4.2	7.2	4.2	4.7	4.0
10.0	4.8	3.8	6.4	4.1	6.8	4.1	4.7	4.0
11.0	4.5	3.7	6.0	4.0	6.5	4.0	4.7	3.9
12.0	4.1		5.7	3.9	6.2	3.9	4.7	3.8
13.0			5.3	3.8	5.9	3.9	4.6	3.8
14.0			5.0	3.8	5.7	3.8	4.4	3.7
15.0			4.8	3.7	5.4	3.7	4.2	3.7
16.0			4.6	3.7	5.0	3.7	4.0	3.6
17.0			4.2		4.6	3.6	3.8	3.5
18.0			4.0		4.2	3.6	3.7	3.4
19.0					3.7	3.6	3.5	3.3
20.0					3.5	3.5	3.4	3.2
21.0					3.2	3.3	3.2	3.1
22.0					2.9		3.0	3.0
23.0					2.6		2.7	2.8
24.0					2.4		2.4	2.6
25.0							2.2	2.4
26.0							2.0	2.2
27.0							1.8	2.0
28.0							1.7	
29.0							1.5	
30.0							1.4	
31.0							1.2	
32.0							1.1	
33.0	Table no.: 653R-75/2327/8.9+0.0/10.14 SA6.5 0.3°							
34.0								
Number of strands	2	1	2	1	2	1	2	1
I	0%		100%		100%		100%	
II	0%		0%		50%		100%	
III	0%		0%		50%		100%	

Subject to change. See page 17 for notes on load lift charts.



# 653E Load ratings



13-m fly boom (SA)

	8.9 t	5.5 t	Telescopic boom length [m]							
			9.4		16.3		23.8		30.3	
			0°	40°	0°	40°	0°	40°	0°	40°
Outreach [m]										
2.0										
3.0			4.6							
4.0			4.4		4.6					
5.0			4.0		4.4		3.8			
6.0			3.7		4.1		3.7			
7.0			3.4		3.8		3.6		2.1	
8.0			3.1		3.6		3.4		2.1	
9.0			2.9		3.4		3.3		2.1	
10.0			2.7	1.8	3.2		3.1		2.1	
11.0			2.5	1.7	3.0		3.0		2.1	
12.0			2.3	1.7	2.8	1.7	2.9		2.1	
13.0			2.2	1.7	2.6	1.7	2.7	1.7	2.1	
14.0			2.0	1.6	2.5	1.7	2.6	1.6	2.1	
15.0			1.9	1.6	2.4	1.6	2.5	1.6	2.1	1.5
16.0			1.8	1.5	2.3	1.6	2.4	1.6	2.1	1.5
17.0			1.7	1.5	2.1	1.5	2.3	1.5	2.1	1.5
18.0			1.6		2.0	1.5	2.2	1.5	2.1	1.5
19.0					2.0	1.5	2.1	1.5	2.0	1.4
20.0					1.9	1.5	2.1	1.5	2.0	1.4
21.0					1.8		2.0	1.4	1.9	1.4
22.0					1.7		1.9	1.4	1.9	1.4
23.0					1.6		1.8	1.4	1.8	1.4
24.0					1.5		1.8	1.4	1.8	1.3
25.0							1.7	1.4	1.7	1.3
26.0							1.7	1.4	1.7	1.3
27.0							1.6		1.6	1.3
28.0							1.4		1.6	1.3
29.0							1.4		1.6	1.3
30.0									1.3	1.1
31.0									1.1	
32.0									0.9	
33.0			Table no.: 653R-75/1977/8.9+5.5/10.14 SA13 0.3°						0.7	
34.0									0.6	
Number of strands			2	1	2	1	2	1	2	1
I			0%		100%		100%		100%	
II			0%		0%		50%		100%	
III			0%		0%		50%		100%	

# 653E Load ratings



Auxiliary jib (HA-S)

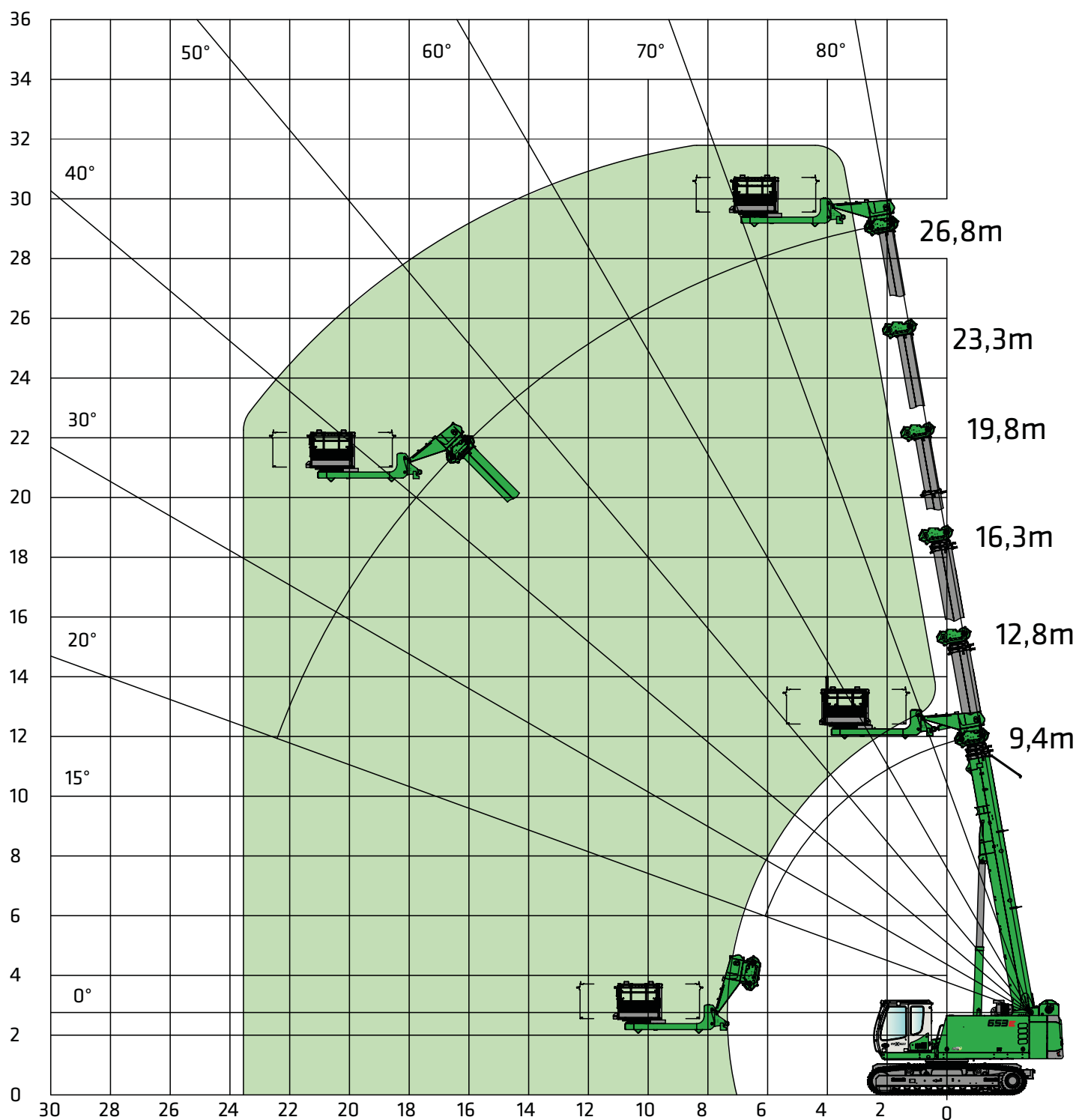
	Boom length [m]																				
	9.4			12.8			16.3			19.8			23.3			26.8			30.4		
Counterweight [t]	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
Undercarriage ballast [t]	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Undercarriage track width [m]	3.8	3.0	2.3	3.8	3.0	2.3	3.8	3.0	2.3	3.8	3.0	2.3	3.8	3.0	2.3	3.8	3.0	2.3	3.8	3.0	2.3
Outreach [m]																					
2.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
3.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
4.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
6.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
7.0		5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
8.0		5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
9.0				5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
10.0				5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
11.0				5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
12.0							5.0	5.0	4.3	5.0	5.0	4.6	5.0	5.0	4.8	5.0	5.0	5.0	5.0	5.0	5.0
13.0							5.0	4.9	3.7	5.0	5.0	4.0	5.0	5.0	4.2	5.0	5.0	4.4	5.0	5.0	4.4
14.0										5.0	4.6	3.5	5.0	4.8	3.7	5.0	5.0	3.8	5.0	5.0	4.0
15.0										5.0	4.0	3.0	5.0	4.3	3.2	5.0	4.4	3.4	5.0	4.5	3.5
16.0										4.5	3.6	2.6	4.7	3.8	2.8	4.9	4.0	3.0	4.9	4.1	3.1
17.0										4.0	3.1	2.2	4.2	3.4	2.5	4.4	3.5	2.6	4.6	3.7	2.8
18.0													3.8	3.0	2.1	4.0	3.2	2.3	4.1	3.3	2.5
19.0													3.4	2.7	1.8	3.6	2.9	2.0	3.8	3.0	2.2
20.0													3.0	2.4	1.6	3.3	2.6	1.8	3.4	2.7	1.9
21.0																3.0	2.3	1.5	3.1	2.4	1.7
22.0																2.7	2.0	1.3	2.8	2.2	1.5
23.0																2.4	1.8	1.1	2.6	1.9	1.3
24.0																	1.6	0.9	2.3	1.7	1.1
25.0	Table no.: 653R-75/1977/8.9+5.5/10.14 HA-S 0.3°																		2.1	1.5	0.9
26.0	Table no.: 653R-75/1577/8.9+5.5/10.14 HA-S 0.3°																		1.9	1.4	0.8
26.0	Table no.: 653R-75/1227/8.9+5.5/10.14 HA-S 0.3°																				
Number of strands	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
I	0%			50%			100%			100%			100%			100%			100%		
II	0%			0%			0%			25%			50%			75%			100%		
III	0%			0%			0%			25%			50%			75%			0%		
Load capacity reduction [kg]	580			420			330			270			230			200			180		

Subject to change. See page 17 for notes on load lift charts.

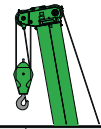
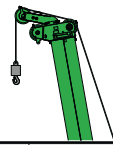
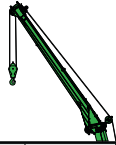












































# 653E Crane equipment



Elevating work platform type 4000/500



# 653E Load capacity programs

		Main boom (HA)			Auxiliary jib (HA-S)			6.5-m fly boom (SA)			15-m fly boom (SA)		
Counterweight [t]	Undercarriage bal-last [t]												
		 3.8 m	 3.0 m	 2.3 m	 3.8 m	 3.0 m	 2.3 m	 3.8 m	 3.0 m	 2.3 m	 4.1 m	 3.0 m	 3.2 m
 8.9 t	 5.5 t	 360°	 360°	 360°	 360°	 360°	 360°	 360°	—	—	 360°	—	—
Undercarriage track width		 4.1 m	 3.3 m	 2.6 m	 4.1 m	 3.3 m	 2.6 m	 4.1 m	 3.3 m	 2.6 m	 4.1 m	 3.3 m	 2.6 m
 8.9 t	 0 t	 360°	 360°	 360°	 360°	 360°	 360°	—	—	—	 360°	—	—

## Note:

Optional load capacities available for 2° and 4° incline positions.

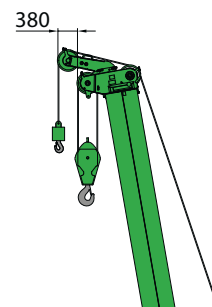
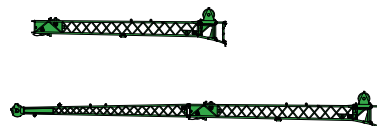
- Specified load ratings only apply when machine is level ( $\pm 0.3^\circ$ ) and stable.
- Load ratings are in tons (t) and apply for 360 degrees.
- Load ratings are in accordance with EN 13000.
- The weight of the load handling devices (e.g., hook, cable) must be subtracted from the load ratings.
- 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 load, operator inexperience, driving with load.
- Permissible cable pull per strand in crane mode for cable diameter 16 mm – 5,000 kg.
- Specified load ratings are for reference only. See the tables in the operating manual for the applicable load rating.

## 653E Fly boom



### Fly boom variants

- 6.5-m fly boom\*  
Max. 2-strand,  
possible offset  
angle  $0^\circ/40^\circ$
- 13-m fly boom\* with 6.5-m extension, 1-strand,  
offset angle  $0^\circ/40^\circ$
- Auxiliary jib, 5-t load capacity, 1-strand



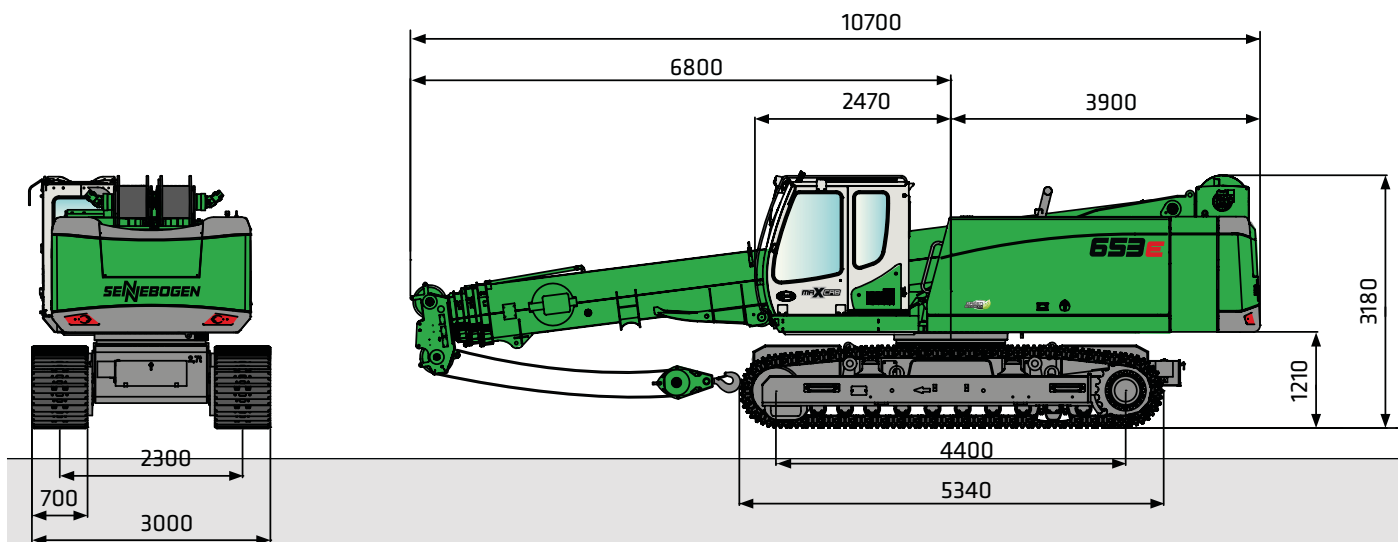
# 653E Transport dimensions and weights



653 R with T41/380 undercarriage and 700-mm 3-grouser crawler shoes

Operating weight: approx. 49,900 kg

(with 13-m fly boom, 2 hoisting winches, 8.9-t counterweight, 5.5-t undercarriage ballast and 35-t hook)

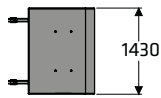
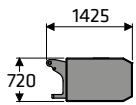


Transport weight: approx. 45,500 kg (8-m fly boom, 2 hoisting winches, without undercarriage ballast, without counterweight)

Transport weight: approx. 53,600 kg (8-m fly boom, 2 hoisting winches, with undercarriage ballast, without counterweight)

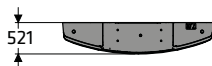
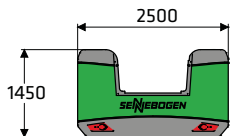


# 653E Transport dimensions and weights



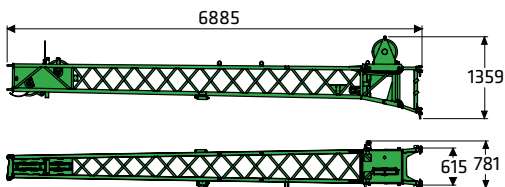
Undercarriage ballast

2x 2,750 kg



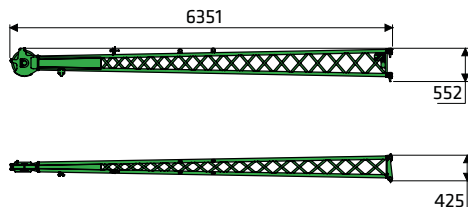
Counterweight

7,000 kg



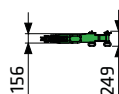
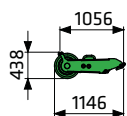
6.5-m fly boom

600 kg



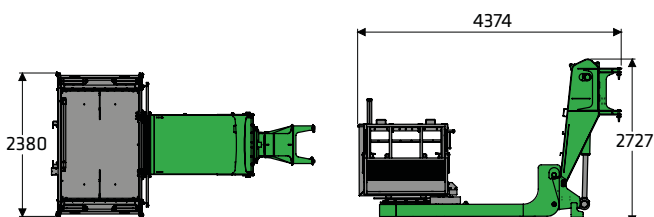
6.5-m fly boom extension

250 kg



5-t auxiliary jib

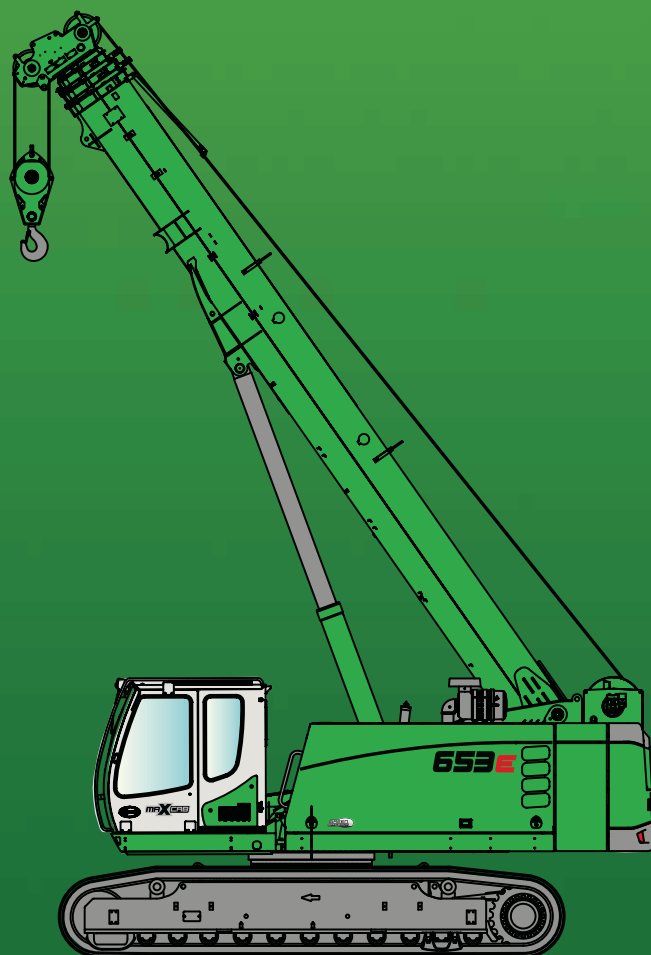
50 kg



Work platform incl. adapter, width: 2.4 m

2,300 kg

# 653E



This catalog describes machine models, scope of equipment of individual models, and configuration options (standard equipment and optional equipment) of the machines delivered by SENNEBOGEN Maschinenfabrik. Machine illustrations can contain optional equipment and supplemental equipment. Actual equipment may vary depending on the country to which the machines are delivered, especially in regard to standard and optional equipment.

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