

SENJEBOGEN















On site and ready to use fast

Easy to transport, including ballast. To the construction site, unload – off you go.

Ultimate ease of use

With the 15° tiltable comfort Maxcab, the backfriendly comfort seat, the adjustable armrests and the optimally arranged resonant control elements.

More flexibility

As the Full-Power Boom telescopes comfortably under load at any length and safely via the joystick. The telescopic crawler undercarriage can easily cope with even the most difficult terrain.

More variety

Always work optimally with loading hook, auxiliary jib, 6.5 m fly jib or fly jib extension to 13 m. With the fly jib, boom lengths of up to 43.3 m are possible.





LONG SERVICE LIFE, HIGH VALUE RETENTION

- Reliable and powerful thanks to its robust construction and high-quality components.
- High resale value, even after many years of use

SOPHISTICATED, STATE-OF-THE-ART TECHNOLOGY

In the 5th Generation – decades of experience in designing and constructing telescopic cranes



SIMPLE TO MAINTAIN AND SERVICE

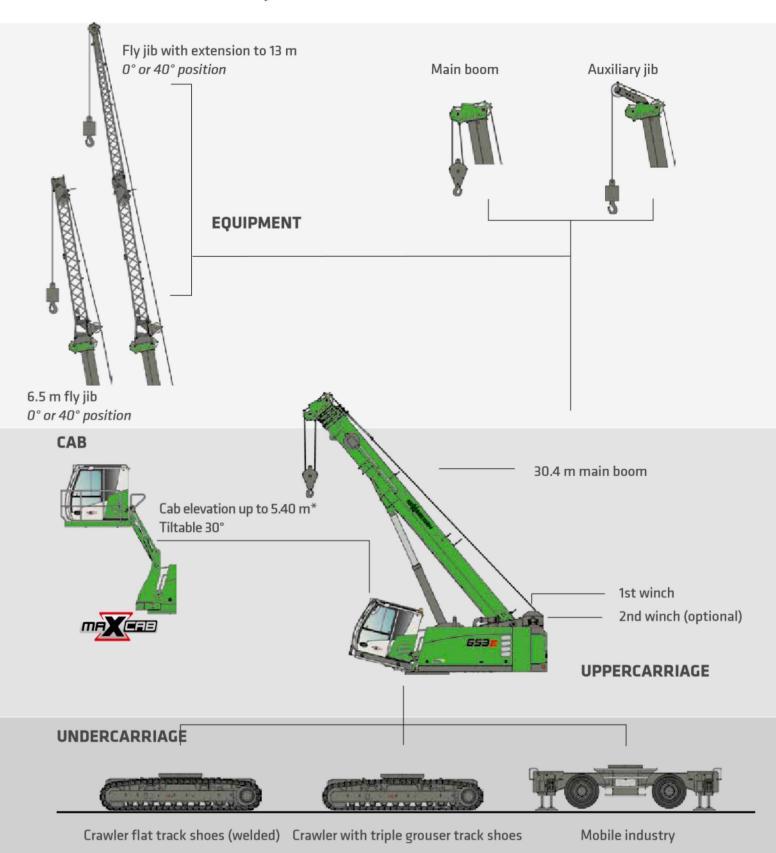
Technology that can be mastered and no over-engineering, easy access to all components

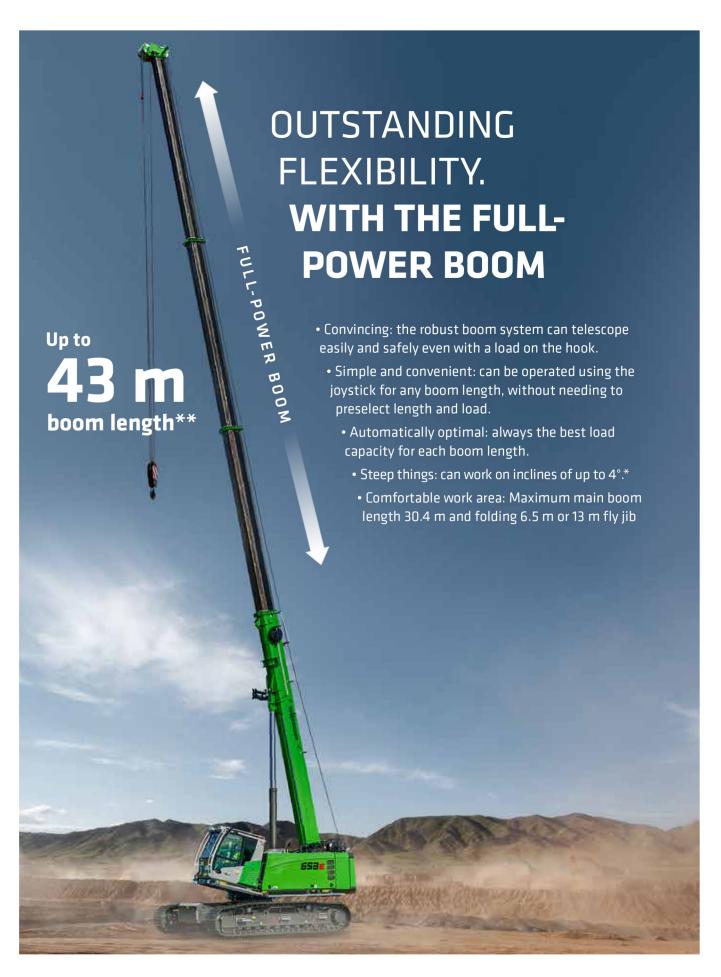
ENVIRONMENTALLY-FRIENDLY DRIVE TECHNOLOGY

- State-of-the-art engine, drive and emission systems in line with the latest technology standards (stage V)
- Large-scale pipes and valves for maximum efficiency



A MODULAR DESIGN. OPTIMUM EQUIPMENT OPTIONS.





^{*} with reduced load charts (optional)





COMPACT AND STRONG.

WITH MAXIMUM OFF-ROAD MOBILITY.

- Pick & Carry: With up to 100 % load
- High stability and optimum maneuverability even on narrow construction sites thanks to telescopic crawler undercarriage
- Optimal overview when lifting loads thanks to cab with 15° tilt as standard
- Coverage of a large work area and flexibility due to a wide range of equipment options
- Operation by radio remote control available





50 t MOBILE CRANE. THE INDUSTRIAL VERSION 653 MI.

- Real mobile alternative: Design focused on optimizing stability and load capacity when moving load with mobile undercarriage
- Ideal for particularly heavy pick & carry tasks in storage space management, industrial relocations and industrial assembly
- The 653 MI is an optional special version. Detailed load capacity tables are available on request in the event of a project









EASY TO TRANSPORT. **READY FOR USE QUICKLY.**

It is not just with procurement and operating costs that companies can make costeffective decisions and savings. Astute contractors know that simple and economical transportation between construction sites is an important factor, too.





Economical

With a transport width of just 3.0 m, the 653 E fits easily on any standard low-loader.



Complete

Thanks to its weight of approximately 50 t, the machine can be transported fully assembled.



Quick

Once it reaches the construction site, the machine is ready to use as soon as it has been unloaded.



MAINTENANCE AND SERVICE. MAKE IT EASY ON YOURSELF.







The SENCON control system supports you with diagnostics and makes troubleshooting easier. So your machine is back in action more quickly.

All maintenance and service points are clearly arranged and easily accessible. The clear labeling of components makes finding your way around easy.

KEEP IT SIMPLE. WITH TECHNOLOGY THAT CAN BE MASTERED.



Reliable and practical technology makes life easier. Where electronics add no value, we rely on hydraulics and electrical systems.



We make you happy, not reliant. With cost-effective components and fewer process steps, you can take care of the machine on your own.



At the central electrical distribution board, clearly arranged standard components simplify control and troubleshooting.



MACHINE TYPE

MODEL (TYPE) 653 Crawler

	000 01011101
ENGINE	•
TYPE	Stage V: Cummins B4.5 FR95721 Rated power: 129 kW/2200 rpm Operating point standard: 129 kW/2200 rpm Operating point ECO: 129 kW/2050 rpm
	Stage Illa: Cummins QSB4.5 FR96169 Rated power: 119 kW/2200 rpm Operating point standard: 119 kW/2200 rpm Operating point ECO: 119 kW/2050 rpm
	both: direct injection, turbocharged, charge air cooling, reduced emissions
COOLING	Water-cooled
DIESEL FILTER	With water separator and heater
AIR FILTER	Dry filter with integrated pre-separator, automatic dust discharge, main element and safety element, contamination indicator
FUEL	300 l
ADBLUE	38 I
ELECTRICAL SYSTEM	24 V
BATTERIES	2 x 155 Ah

Optional: Customized paint finish	APP.		-
		653	
		THE RESERVE	
	40	335333	

Electric fuel pump

Low-temperature package with engine preheating and reinforced batteries

UPPERCAR	RIAGE 🚐
DESIGN	Torsion-resistant box design, precision crafted, steel bushings for boom mountings. Service-friendly design, engine installed in the longitudinal direction
ELECTRIC	Central electrical distributor, battery disconnect switch
LIGHTING	LED headlights for optimal lighting of the work area
COOLING SYSTEM	3-circuit cooling system with high cooling output, electrically regulated fan drive for cooling water, charged air and oil
SAFETY	Camera monitoring of the area to the rear and the right side
OPTIONS	Additional LED headlamps
	2 warning beacons at the rear
	Additional cameras
	Sea climate resistant coating as corrosion protection
	Customized paint finish
	Low temperature package
	Automatic central lubrication for boom attachment point, luffing cylinder and live ring track
	Pinion tooth lubrication



OPTIONS



HYDRAULIC SYSTEM / HYDRAULICS

Pump unit attached directly to diesel engine. Load-sensing/LUDV hydraulic system, electro-hydraulic work functions, load limit control, axial piston variable displacement pump. Multiple work functions can be controlled precisely simultaneously and independently from each other thanks to the independent, proportional allocation of the pump flows.

flows.	
DELIVERY RATE	Up to 310 l / min
OPERATING PRESSURE	Up to 330 bar
FILTRATION	High-performance filtration with long change interval
HYDRAULIC TANK	500 l
CONTROL SYSTEM	Proportional, precision hydraulic control of the movements, 2 servo joysticks for work functions, additional functions via switches and foot pedals – arranged clearly and ergonomically
SAFETY	Hydraulic circuits with safety valves
	Pipe-fracture safety valves for luffing cylinder and telescopic cylinder
OPTIONS	Bio-oil filling
	SENNEBOGEN HydroClean micro-filter system (3 µm) with water separator
	Hydraulic tank preheating

CAB	
CAB TYPE	Maxcab, tiltable 15°
CAB FEATURES	Comfortable operator cab with sliding door incl. sliding window, vibration damper, tinted safety glass, opening windshield, skylight, front and rear windshield wipers, 12 V/ 24 V connections, 2 floodlights integrated into the front of the roof. Air-sprung comfort operator's seat with seat heating and headrest. Sunblind for skylight. Parking brake via foot pedal.
OPTIONS	Hydraulically elevating cab type E270, can elevate up to 2.70 m and tilt by 30°
	Auxiliary heating system with timer
	Activated-carbon filter for cab
	FOPS protective front grating
	Protective roof grating
	FOPS protective roof grating
	Glazing in bulletproof glass
	Radio with USB and SD connections, MP3 and Bluetooth® functions

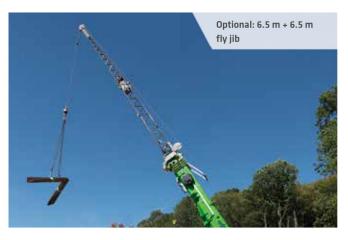
SLEWING DRIVE GEARBOX Compact planetary gear with bent-axis hydraulic engine, integrated brake valves SLEW BRAKE Spring-loaded multi-disk brake SLEWING RING Large-scale, externally geared 1-row slewing ring SLEWING SPEED O-2 rpm, variable













BOOM 4-section with pulley head, hydraulically telescopic end-to-end from 9.4 to 30.4 m, swivel from 0° to 80° in approx. 50 seconds; complete telescopic extension in 100 sec. Telescope in 115 seconds. CRANE SAFETY Latest generation of load moment monitoring with event recorder, clear operations panel showing all important data via the SENCON display, lifting limit switch, cable exit protection, pressure relief valves and pipe fracture protection SENtrack telemetry system **CYLINDERS** Hydraulic cylinders with high-quality sealing and guide elements **OPTIONS** 6.5 m fly jib, tiltable (0°, 40°), can be set up without auxiliary equipment, can be bolted to the basic boom when not in use Fly jib extension to 13 m, 6.5 m extension, load capacity 6.6 t, tiltable (0°, 40°), can be bolted to basic boom when not in use Auxiliary jib 5 t load capacity, 1-strand Customized paint finish Electro-hydraulic emergency unit Radio remote control Programmable working limit Additional load charts accepted for 2°/4° incline position Ballast support

EQUIPMENT





UNDERCAR	RIAGE }= €
DESIGN	Crawler undercarriage T41/380, hydraulically telescopic and with integrated, protected drive gears
DRIVE	Strong travel drive with 2-stage variable-displacement hydraulic engine with directly attached automatically functioning brake valve and compact planetary gear on each running gear side
PARKING BRAKE	Spring-loaded multi-disk brake
CRAWLER TRACKS	Maintenance-free tractor running gear with hydraulic chain tension, 700 mm 3-grouser base plates
SPEED	0 - 2.9 km/h
OPTIONS	Floor plates in the following equipment: 800 mm triple grouser shoes 900 mm triple grouser shoes 700 mm flat track shoes

WINCH



The winches are driven via high-pressure-regulated adjustable hydraulic engines, so there is always optimal pulling force speed control. Hydraulic lowering brake valves for sensitive, wear-free braking. Strong oil bath planetary gears, low-maintenance. Holding brakes spring-loaded, maintenance-free, low-wear, designed as multiple disc brakes running in oil bath, oil-cooled

50 kN tensile force (4th position), cable speed 0 - 115 m/min., cable diameter 16 mm, max. cable length 170 m

ODTIONS	and winch, EO kN toncile force (4							
SAFETY BRAKE	Spring-loaded multi-disk brake							

OPTIONS

2nd winch: 50 kN tensile force (4th position), cable speed 0 - 115 m/min., cable diameter 16 mm, max. cable length 170 m



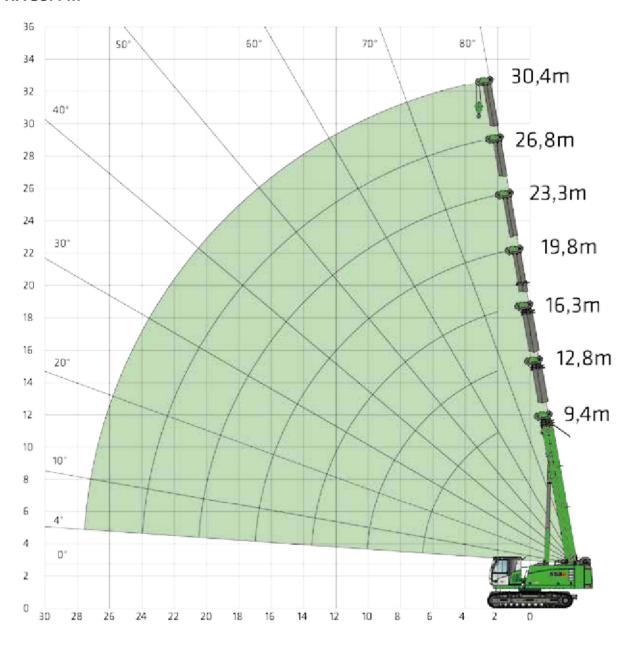
OPERATING	WEIGHT
MASS	Approx. 50,200 kg With 30.4 m telescopic boom, 13 m fly jib, 35 t hook, 3 triple grouser shoes 700 mm, 2 hoisting winches, with hydraulic telescopic undercarriage, ballast 8.9 t, undercarriage ballast 5.5 t
NOTE	Operating weight varies by model and equipment. Subject to technical changes.







MAIN BOOM HA 30.4 m





CAPACITY	WEIGHT	CABLE REEVING AND MAX. LOAD CAPACITY														
[t]	[kg]	10	9	8	7	6	5	4	3	2	1					
5 t	80 kg										5,000 kg					
15 t (1-roll)	190 kg								15,000 kg	10,000 kg	5,000 kg					
35 t (3-roll)	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-roll)	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					







MAIN BOOM HA 30.4 m



UNDERCARRIAGE BALLAST 5.5 T



BALLAST 8.9 t







MAX. INCLINATION 0.3°

									воо	M L	ENG	TH	[m]								
RADIUS [m]		9.4			12.8			16.3			19.8			23.3			26.8			30.4	
Undercarriage	ij.	≓	==	≓	≓	==	≓	≓	=	i - i	=	==	i - i	 -	=	≓	∺	==	≓	-	
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
2.0		40.0		31.0	31.0		28.0			15.6	15.6		14.5	14.5							
3.0		40.0		31.0	31.0		25.0			15.6	15.6		14.5	14.5		12.7	12.7				
4.0		30.0	24.0			22.7	22.0	21.7		15.6	15.6	15.6	14.5	14.5		12.6	12.6	12.6	9.2	9.2	9.
5.0	30.0		17.0	28.0		17.3	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	22.5	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.
7.0	18.9/ 6.7m	14.5/ 6.7m	11.2/ 6.7m	17.5	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.
8.0				14.2	10.9	8.4	13.5	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				11.7	9.0	7.0	11.7	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				9.9	7.5	5.8	9.9	7.5	5.8	10.1	7.9	6.1	9.3	8.2	6.4	8.6	8.3	6.4	7.8	7.8	6.4
11.0							8.5	6.4	4.9	8.9	6.8	5.2	8.5	7.0	5.5	8.0	7.2	5.6	7.3	7.3	5.6
12.0							7.4	5.5	4.1	7.7	5.9	4.5	7.9	6.1	4.7	7.3	6.3	4.9	6.8	6.4	5.0
13.0							6.4	4.7	3.5	6.8	5.1	3.9	7.1	5.4	4.1	6.8	5.5	4.3	6.4	5.7	4.4
14.0							6.2 /	4.6 /	3.4 /	6.0	4.5	3.4	6.2	4.7	3.6	6.3	4.9	3.8	5.9	5.0	3.
15.0							13.5 m	13.5 m	13.5 m	5.4	3.9	2.9	5.6	4.2	3.2	5.8	4.4	3.3	5.6	4.5	3.
16.0										4.8	3.5	2.5	5.0	3.7	2.8	5.2	3.9	2.9	5.2	4.0	3.
17.0										4.5	3.3	2.4	4.5	3.3	2.4	4.7	3.5	2.6	4.9	3.6	2.
18.0													4.1	2.9	2.1	4.3	3.1	2.3	4.4	3.2	2.
19.0													3.7	2.6	1.8	3.9	2.8	2.0	4.1	2.9	2.
20.0													3.3	2.3	1.5	3.6	2.5	1.7	3.7	2.6	1.9
21.0													20.5m			3.3	2.2	1.5	3.4	2.4	1.6
22.0																3.0	2.0	1.3	3.1	2.1	1.4
23.0																2.7	1.8	1.1	2.9	1.9	1.2
24.0																2.6	1.7	1.1	2.6	1.7	1.1
25.0																			2.4	1.5	0.9
26.0																			2.2	1.3	0.7
27.0																			0.3 / 27.5m	0.3 / 27.5m	0.3 27.5
Number of falls	10	8	8	7	7	6	6	6	5	4	4	4	3	3	3	3	3	3	2	2	2
-		0%			50%			100 %			100%			100%			100 %			100%	
ii ii		0%			0%	0% 25% 50%						75 %		100%							
III		0%			0%									100 %							
				The loa		gs must	be redu		nere's a	13 m fly		ed to th	e side o		ain boon	n.	, , , ,				
Load capacity reduction [kg]		580			420			330			270			230			200			180	





MAIN BOOM HA 30.4 m



UNDERCARRIAGE BALLAST 5.5 T



BALLAST 8.9 t







MAX. INCLINATION 2°



TRACK WIDTH 3.8 m

	BOOM LENGTH [m]													
RADIUS [m]	9.4	12.8	16.3	19.8	23.3	26.8	30.4							
2.0	40.0	24.8	22.4	12.5	11.6									
3.0	36.0	24.8	20.0	12.5	11.6	10.2								
4.0	30.4	24.8	17.6	12.5	11.6	10.1	6.0							
5.0	24.0	22.4	15.4	12.5	11.4	9.9	6.0							
6.0	17.6	18.0	13.5	11.9	10.9	9.5	6.0							
7.0		14.0	12.0	10.9	10.0	8.9	6.0							
8.0		11.4	10.8	9.8	9.0	8.2	6.0							
9.0		9.4	9.4	8.9	8.2	7.5	6.0							
10.0			7.9	8.1	7.4	6.9	5.9							
11.0			6.8	7.1	6.8	6.4	5.7							
12.0			5.9	6.2	6.3	5.8	5.4							
13.0			5.1	5.4	5.7	5.4	5.1							
14.0				4.8	5.0	5.0	4.7							
15.0				4.3	4.5	4.6	4.5							
16.0				3.8	4.0	4.2	4.2							
17.0					3.6	3.8	3.8							
18.0					3.3	3.4	3.2							
19.0					3.0	3.0	2.6							
20.0					2.6	2.6	2.1							
21.0						2.1	1.7							
22.0						1.7	1.3							
23.0						1.3	0.9							
24.0							0.6							
Number of falls	10	8	6	4	4	4	4							
1	0%	50%	100%	100%	100%	100%	100%							
II .	0%	0%	0%	25%	50%	75 %	100%							
101	0%	0%	0%	25%	50%	75 %	100%							
	The I	oad ratings must be re	educed if there's a 13 r	n fly jib folded to the	side of the main boom									
Load capacity reduction [kg]	580	420	330	270	230	200	180							

Tab. no.: 653R-75/1977/8.9+5.5/02.15 HA 2°







MAIN BOOM HA 30.4 m



UNDERCARRIAGE BALLAST 5.5 T



BALLAST 8.9 t







MAX. INCLINATION 4°



TRACK WIDTH 3.8 m

			В00	M LENGTH	[m]									
RADIUS [m]	9.4	12.8	16.3	19.8	23.3	26.8	30.4							
2.0	32.0	19.8	17.9	10.0	9.3									
3.0	28.8	19.8	16.0	10.0	9.3	7.0								
4.0	24.3	19.8	14.1	10.0	9.3	7.0	4.4							
5.0	19.2	17.9	12.4	10.0	9.1	7.0	4.4							
6.0	14.1	14.4	10.8	9.5	8.7	7.0	4.4							
7.0		11.2	9.6	8.7	8.0	7.0	4.4							
8.0		9.1	8.6	7.8	7.2	6.6	4.4							
9.0		7.5	7.5	7.1	6.5	6.0	4.4							
10.0			6.3	6.5	6.0	5.5	4.4							
11.0			5.4	5.7	5.4	5.1	4.4							
12.0			4.7	4.9	5.1	4.7	4.4							
13.0			4.1	4.4	4.5	4.4	4.1							
14.0				3.8	4.0	4.0	3.8							
15.0				3.5	3.6	3.7	3.5							
16.0				3.1	3.2	3.1	3.0							
17.0					2.7	2.7	2.5							
18.0					2.3	2.2	2.0							
19.0					1.9	1.8	1.6							
20.0					1.6	1.5	1.3							
21.0						1.2	1.0							
22.0						0.9	0.7							
23.0						0.6								
Number of falls	10	8	6	4	4	4	4							
1	0%	50 %	100%	100%	100%	100 %	100 %							
II	0%	0%	0%	25 %	50 %	75 %	100%							
III	0%	0%	0%	25 %	50%	75 %	100%							
	The l	oad ratings must be re	educed if there's a 13 r	n fly jib folded to the	side of the main boom	1.								
Load capacity reduction [kg]	580	420	330	270	230	200	180							

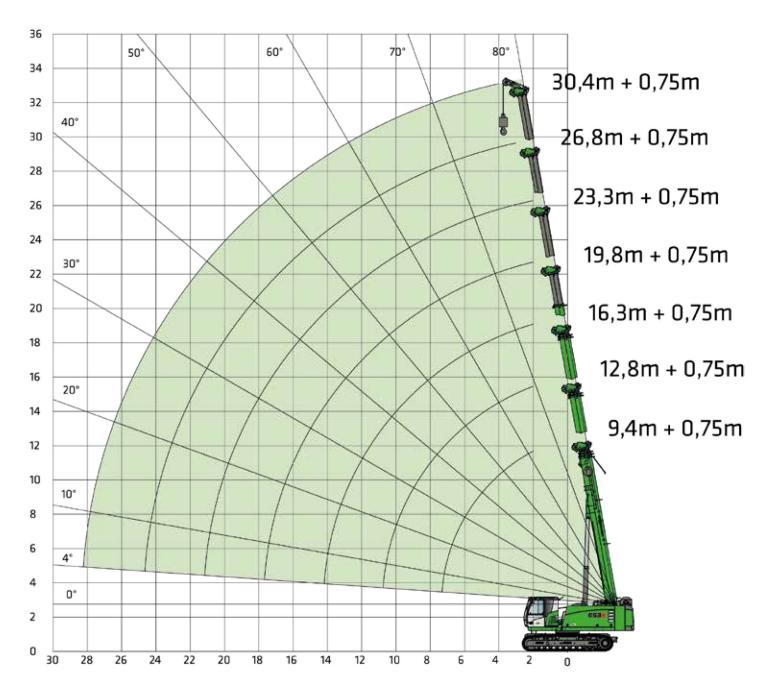
Tab. no.: 653R-75/1977/8.9+5.5/02.15 HA 4°







AUXILIARY JIB







AUXILIARY JIB HA-S



UNDERCARRIAGE BALLAST 5.5 t



BALLAST 8.9 t







MAX. INCLINATION 0.3°

١						_		_														
		BOOM LENGTH [[m]	[m]												
	RADIUS [m]	9.4 12.8					16.3			19.8			23.3			26.8	30.4					
	Undercarriage track width	=	=	ä	=	=	ä	=	i=i	ä	=	=	ä	=	=	ä	i - i	=	ä	=	=	ä
	[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
	2.0	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					
	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
	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 / 7.3m	5.0 / 7.3m	5.0 / 7.3m	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
	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 / 10.7m	5.0 / 10.7m	5.0 / 10.7m	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				10./m	IU./M	IU./M	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 /	4.7/	3.6 /	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							14.1m	14.1m	14.1m	5.0	4.0	3.0	5.0	4.3	3.2	5.0	4.4	3.4	4.4	4.5	3.5
	16.0										4.2	3.6	2.6	4.4	3.8	2.8	4.9	4.0	3.0	4.1	4.1	3.1
	17.0										4.2 /	3.1/	2.2 /	3.9	3.4	2.5	4.1	3.5	2.6	3.9	3.7	2.8
	18.0										17.6m	17.6m	17.6m	3.6	3.0	2.1	3.7	3.2	2.3	3.8	3.3	2.5
	19.0													3.2	2.7	1.8	3.4	2.9	2.0	3.5	3.0	2.2
	20.0													2.8	2.4	1.6	3.0	2.6	1.8	3.2	2.7	1.9
	21.0													3.1 /	2.3 /	1.5 /	2.8	2.3	1.5	2.8	2.4	1.7
	22.0													21.1m	21.1m	21.1m	2.5	2.0	1.3	2.7	2.2	1.5
	23.0																2.3	1.8	1.1	2.4	1.9	1.3
	24.0																2.3 /	1.6 /	0.9 /	2.2	1.7	1.1
																	24.6m	24.6m	24.6m			
	25.0 26.0																			2.0 1.8	1.5	0.9
	27.0																			0.3 /	0.3 /	0.3 /
0.3°																				28.1m	28.1m	28.1m
HA-S	Number of falls	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
710.14	I		0%			50%			100%			100%			100%			100%			100%	
9+5.5	II		0%			0%			0%			25%			50%			75 %			100%	
1227/8	III		0%			0%			0%			25%			50%			75 %			100%	
R-75/					The lo	ad rating	gs must	be redu	ced if th	ere's a	13 m fly	jib folde	d to the	e side of	the ma	in boon	n.					
Tab. no.: 653R-75/1227/8.9+5.5/10:14 HA-S 0.3°	Load capacity reduction [kg]		580			420			330			270			230			200			180	

5 5 5





AUXILIARY JIB HA-S



UNDERCARRIAGE BALLAST 5.5 T



BALLAST 8.9 t







MAX. INCLINATION 2°



TRACK WIDTH 3.8 m

	BOOM LENGTH [m]												
RADIUS [m]	9.4	12.8	16.3	19.8	23.3	26.8	30.4						
2.0	5.0	5.0	5.0	5.0									
3.0	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	4.5						
6.0	5.0	5.0	5.0	5.0	5.0	5.0	4.5						
7.0	5.0	5.0	5.0	5.0	5.0	5.0	4.5						
8.0	5.0	5.0	5.0	5.0	5.0	5.0	4.5						
9.0		5.0	5.0	5.0	5.0	5.0	4.5						
10.0		5.0	5.0	5.0	5.0	5.0	4.5						
11.0		4.5	4.5	5.0	5.0	5.0	4.5						
12.0			4.0	5.0	5.0	5.0	4.5						
13.0			3.8	5.0	5.0	5.0	4.5						
14.0				4.5	4.5	4.5	4.5						
15.0				4.0	4.0	4.0	3.9						
16.0				3.8	3.9	3.9	3.7						
17.0				3.4	3.5	3.7	3.5						
18.0					3.2	3.4	3.4						
19.0					2.9	3.0	3.1						
20.0					2.6	2.7	2.1						
21.0						2.1	1.7						
22.0						1.7	1.3						
23.0						1.3	0.9						
24.0							0.6						
Number of falls	1	1	1	1	1	1	1						
1	0%	50%	100%	100%	100%	100%	100%						
II .	0%	0%	0%	25%	50%	75 %	100%						
III	0%	0%	0 %	25%	50%	75%	100%						
	The I	oad ratings must be re	educed if there's a 13 r	n fly jib folded to the s	side of the main boom								
Number of falls II III Load capacity reduction [kg]	580	420	330	270	230	200	180						







AUXILIARY JIB HA-S



UNDERCARRIAGE BALLAST 5.5 T



BALLAST 8.9 t







MAX. INCLINATION 4°



TRACK WIDTH 3.8 m

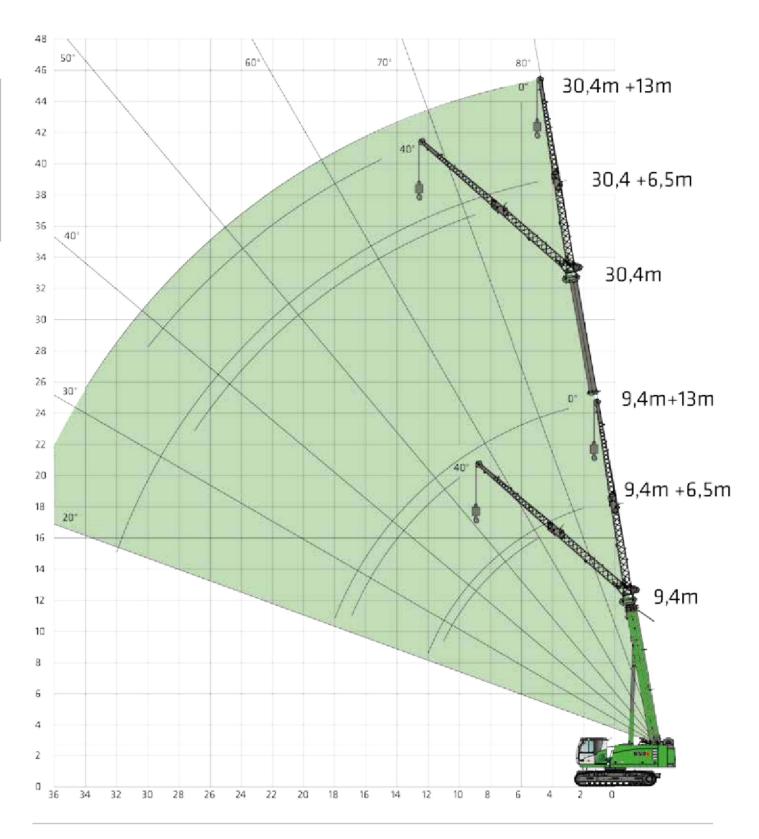
	_						
			воо	M LENGTH	[m]		
RADIUS [m]	9.4	12.8	16.3	19.8	23.3	26.8	30.4
2.0	5.0	5.0	5.0	5.0			
3.0	5.0	5.0	5.0	5.0	5.0		
4.0	5.0	5.0	5.0	5.0	5.0	4.3	
5.0	5.0	5.0	5.0	5.0	5.0	4.3	3.3
6.0	5.0	5.0	5.0	5.0	5.0	4.3	3.3
7.0	5.0	5.0	5.0	5.0	5.0	4.3	3.3
8.0	5.0	5.0	5.0	5.0	5.0	4.3	3.3
9.0		4.5	4.5	5.0	5.0	4.3	3.3
10.0		4.0	4.0	4.5	5.0	4.3	3.3
11.0		3.6	3.6	4.0	4.5	4.3	3.3
12.0			3.2	4.0	4.0	4.3	3.3
13.0			3.0	4.0	4.0	4.0	3.3
14.0				3.6	3.6	3.6	3.3
15.0				3.2	3.2	3.2	3.1
16.0				3.0	3.1	3.1	2.9
17.0				2.7	2.8	2.7	2.5
18.0					2.3	2.2	2.0
19.0					1.9	1.8	1.6
20.0						1.5	1.3
21.0						1.2	1.0
22.0						0.9	0.7
23.0						0.6	
Number of falls	1	1	1	1	1	1	1
T.	0%	50 %	100%	100%	100%	100 %	100 %
II.	0%	0%	0%	25 %	50 %	75 %	100%
III	0%	0%	0%	25 %	50%	75 %	100%
	The l	oad ratings must be re	educed if there's a 13	m fly jib folded to the	side of the main boom		
Load capacity reduction [kg]	580	420	330	270	230	200	180

SENJEBOGEN





FLY JIB SA 6.5 m / SA 13 m







FLY JIB SA 6.5 m



UNDERCARRIAGE BALLAST 5.5 T



BALLAST 8.9 t







MAX. INCLINATION 0.3 °



TRACK WIDTH 3.8 m

BOOM LENGTH [m]													
			10				20						
RADIUS	9.		16		23		30	.4					
[m]	0°	∠ 40°	0°	40°	0°	40°	0°	40°					
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					
e 28.0							1.7						
29.0							1.5						
30.0							1.4						
31.0							1.2						
32.0							1.1						
Number of falls	2	1	2	1	2	1	2	1					
28.0 29.0 30.0 31.0 32.0 Number of falls	0.0		100		100		100						
O: 653	0.0		0		50		100						
Jap. 111	0.0	%	0	%	50	%	100)%					





FLY JIB SA 13 m



UNDERCARRIAGE BALLAST 5.5 T



BALLAST 8.9 t







MAX. INCLINATION 0.3 °



TRACK WIDTH 3.8 m

	BOOM LENGTH [m]											
	9.	.4	16	.3	23	.3	30.4					
RADIUS [m]	0°	<u>√</u>	0°	∠	0°	∠	0°	<u>∠</u>				
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							0.7					
31.0 32.0 33.0 34.0 Number of falls II							0.6					
Number of falls	2	1	2	1	2	1	2	1				
J S3R-75		%		0%		0%	100					
II	0			%		%	100 %					
Tab. III	0	%	0	%	50	1%	100)%				





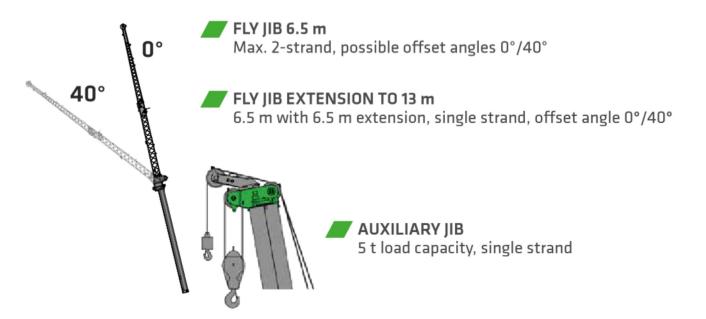
LOAD CAPACITY SCHEDULES

		MAIN BOOM HA			AUXILIARY JIB HA-S			FLY JIB SA 6.5 m			FLY JIB SA 13 m		
								The state of the s					
Undercarriage track width		3.8 m	ı = ı 3.0 m	i∺i 2.3 m	3.8 m	ı = ı 3.0 m	; ≍ i 2.3 m	3.8 m	i = i 3.0 m	i∺i 2.3 m	i = i 3.8 m	ı ≔ ı 3.0 m	≟: 2.3 m
Ballast [t]	Under- carriage ballast [t]												
8.9 t	≘ ≛∎ 5.5 t	360°	360°	360°	360°	360°	360°	360°	-	-	360°	-	-

Notes:

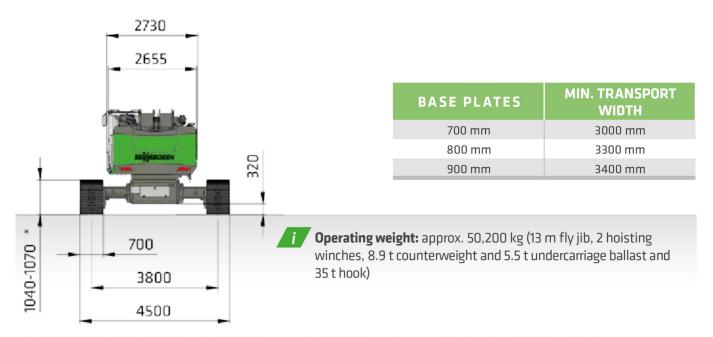
- 1. The load ratings are given in tons and apply for a 360° swing angle.
- 2. The load capacities correspond to EN 13000.
- 3. The weight of the load handling equipment (hooks, cable) should be deducted from the load ratings.
- 4. Load capacities must be limited or reduced in adverse conditions such as soft or uneven ground, slopes, wind, side loads, swinging loads, jolts or sudden stopping of loads, personnel and operators not experienced in handling loads.
- 5. Permissible cable pull per strand in crane mode for cable diameter 16 mm -5,000 kg.
- 6. The load ratings given are for reference only. Please refer to the tables in the operating instructions for the relevant applicable load ratings.
- 7. Other load capacities are available as an option.

OPTIONAL EQUIPMENT

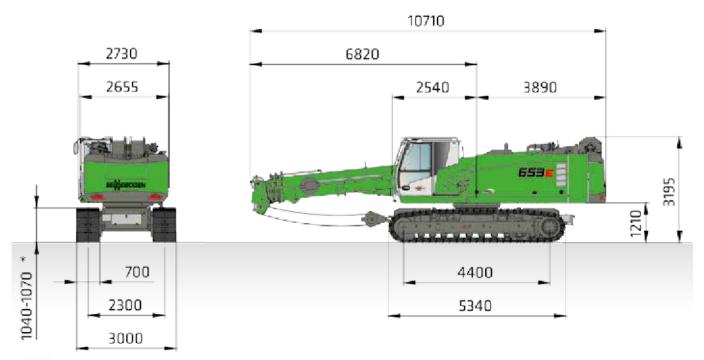




TRANSPORT DIMENSIONS



653 WITH T41/380 UNDERCARRIAGE T41/380 AND 700 mm TRIPLE GROUSER SHOES



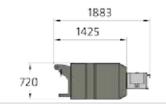
Transport weight: approx. 44,700 kg (13 m fly jib, 2 hoisting winches, without undercarriage ballast) approx. 50,200 kg (13 m fly jib, 2 hoisting winches, with undercarriage ballast)

Dimensions in [mm]

ATTACHMENTS

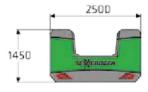
UNDERCARRIAGE BALLAST

Weight: 2x 2750 kg





COUNTER WEIGHT

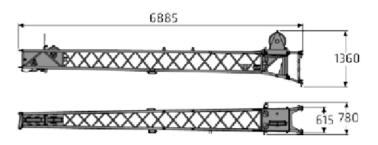




Weight: 8900 kg(with the ballast support option,1.9 t counterweight remains on the device)

Figure shows removable 7 t counterweight

FLY JIB 6.5 m



Weight: 600 kg

FLY JIB EXTENSION 6.5 m

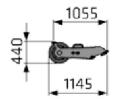


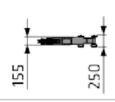


/i/

Weight: 250 kg

AUXILIARY JIB





Weight: 50 kg

Dimensions in [mm]













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over 180

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11

different telescopic cranes



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Balancer 130-300 t Material handler

Duty cycle crane 13.5-300 t

50-300 t

16-130 t

Port crane 300 t



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