

SENJEBOGEN





164 kW (Stage IIIa) 186 kW (Stage V)





40 m







Mobile telescopic crane

5113 E Advanced. The E-Series.



Telescopic crane TX10-1982

What makes up the E-Series

- Over 30 years of experience in designing and constructing telescopic cranes
- Uncompromisingly high performance in all areas
- Technology that can be mastered: Highquality components without over-engineering
- Long service life and high value stability

Your top benefits

- Green Efficiency

 Save fuel reduce operating costs

 Work quietly protect operator and environment
- Top-level performance

 Robust boom system
 2 equivalent crane winches high cable speed
- Maximum usability

 Maxcab comfort cab work in comfort

 SENCON work program selection made easy
- Flexible operation
 Operate under load small space requirements
 Telescoping under load with the full-power boom
- Easy to transport

 Mobile undercarriage quickly deployable
- Maintenance and service made easy
 SENNEBOGEN control system easy error diagnosis
 Simple maintenance clear labeling
- Consultation and support in your area
 3 production sites 2 subsidiaries
 150 sales partners over 350 service stations







MACHINE TYPE

Model (type) 6113

ENGINI					
Model	Cummins diesel engine B 6.7 186 kW / 253 hp at 2000 min ⁻¹ Stage V emissions				
	Cummins diesel engine QSB 6.7 164 kW / 223 hp at 2000 min ⁻¹ Stage Illa emissions				
	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 tank	450 l				
DEF tank	45				
Electr. system	24 V				
Batteries	2 x 155 Ah battery disconnect switch				
Option	Electric fuel pump				

UPPER	CARRIAGE				
Design	Torsion-resistant box design, precision crafted, steel bushings for boom bearings. Very service-friendly design, engine installed in the longitudinal direction				
Electrical sys- tem	central electrical distributor, battery disconnect switch				
Cooling system	3-circuit cooling system with high cooling output, thermostatically regulated fan drive for oil cooler, electronically regulated water and charge air cooler				
Safety	 Camera monitoring of the rear area and right side LED lighting packages Uppercarriage railing 				
Options	 Additiona LED headlamps Up to 2 additional cameras Anti-corrosive maritime climate varnish Low-temperature package for use at temperatures below -20 °C 				

Subject to technical changes. Additional options available upon request.

Options	 Automatic central lubrication for boom attachment point, luffing cylinder, slewing
	ring track and winch drum bearings
	Pinion tooth lubrication for slewing ring

	AULIC SYSTEM					
	UDV hydraulic system, electro-hydraulic work imit sensing control					
Pump type	Swash plate-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	up to 330 bar					
Filtration	High-performance filtration with long change interval					
Hydraulic tank	1125 I					
Control system	Proportional, precision electro-hydraulic actuation of work movements, 2 hydraulic servo joysticks for the work functions incl. winch motion detector via vibration transmitter, additional functions via switches and foot pedals					
Safety	Hydraulic circuits secured with safety valves Pipe-fracture safety valves for luffing cylinder and telescopic cylinder					
Options	 Bio-oil - environmentally friendly 3 µm hydraulic micro-filter SENNEBOGEN HydroClean Electric hydraulic tank preheating for temperatures below -20 °C 					

Gearbox	2 compact planetary gears with bent-axis hydraulic engine, integrated brake valves
Swing bearing brake	Spring-loaded multi-disk brake, foot pedal for individual brakes
Slewing ring	Externally geared slewing ring, sealed
Slewing speed	0-2 min⁻¹ , variable



E Technical data, equipment

CAB	ma X aaa
Cab type	Spacious Maxcab, tiltable 20°
Cab equipment	Sliding door, sliding window in operator door, excellent ergonomics, automatic air conditioning, seat heater, air-suspension comfort seat, fresh air /circulating air filter, 12 V/24 V connections, SENCON, sunblind for skylight
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 Bullet proof windshield Bullet proof skylight FOPS protective roof grating Radio with USB and SD connections, MP3 and Bluetooth functions Work area limitation

Design	Decade-long experience, most advanced computer simulation, the greatest degree of stability and longest service life, large-scale mounting points and precision-crafted sealed low-maintenance special bushings				
Telescopic boom	4 part with pulley head, hydraulic telescopic extension from 12.6 - 40.2 m				
Hub winch	Bent-axis hydraulic engine drive with compact planetary gear, 125 kN tensile force, cable speed 0 - 115 m/min., cable diameter 26 mm, cable length 175 m. Winch motion detector via vibration transmitter in the joysticks				
Safety brake	Spring-loaded multi-disk brake				
Crane safety	Latest generation of load moment monitoring, clear operations panel showing all all important data via the SENCON display, lifting limit switch, cable exit protection, pressure relief values and burst pipe protection with event recorder				
Cylinders	Hydraulic cylinders with high-quality sealing and guide elements				
Options	 Electro-hydraulic emergency unit 7.5 kW Auxiliary boom: 36 t load capacity 2. Crane winch: 125 kN tensile force, cable speed 0-115 m/min., cable diameter 26 mm, cable length 175 m Radio remote control 				

UNDER	CARRIAGE				
Design	Mobile undercarriage MS80 with integrated 4-point suspension, steering axle as hydraulically locking pendulum axle. Pendulum axle cylinder with pipe fracture safety valves.				
Drive	All-wheel drive powered by a variable-displace- ment hydraulic engine with direct-mounted, automatically operated brake valve and planetary axles with integrated steering cylinder, 2-circuit multi-disk service brake				
Parking brake	Spring-loaded multi-disk brake				
Tires	23.5-25, 4x				
Speed	0 - 10 km/h				

■ OPE	OPERATING WEIGHT				
Mass	approx. 85,500 kg with 40.2 m telescopic boom, 80 t hook, 2 hoisting winches, ballast 19.2 t				
Note	Operating weight varies with equipment.				



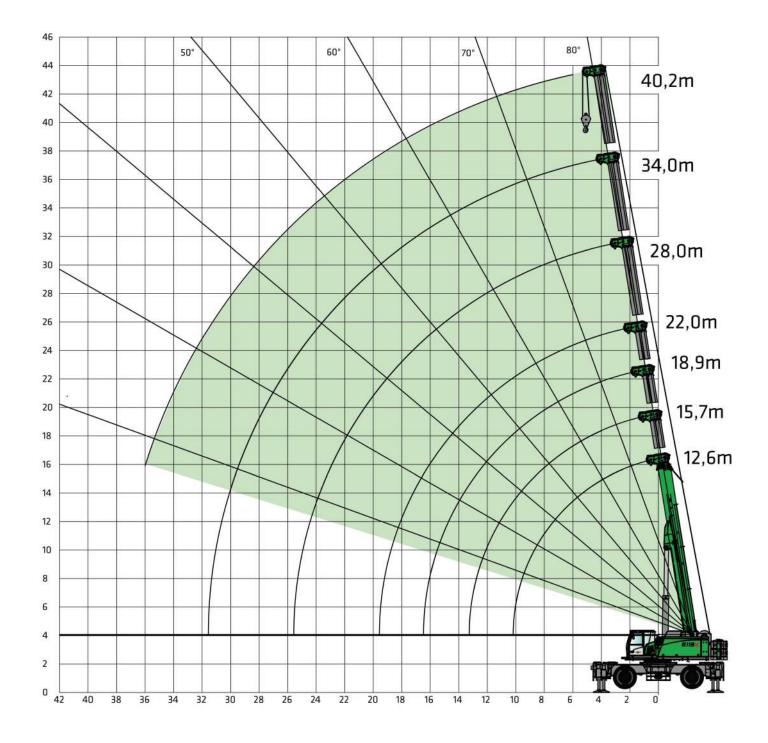
5113 E Crane equipment







Main boom HA 40.2 m















Main boom HA 40.2 m outrigger-supported 100 %

	Boom length [m]						
	12.6	15.7	18.9	22.0	28.0	34.0	40.2
Reach [m]							
2.5	120.0						
3.0	100.0						
4.0	84.0	69.0	66.0	52.0			
5.0	75.0	69.0	61.4	52.0	37.0	30.0	
6.0	66.4	66.1	54.0	48.4	37.0	29.8	21.0
7.0	56.2	55.9	48.3	43.3	36.2	28.5	21.0
8.0	48.5	48.1	43.4	38.8	33.7	27.0	20.0
9.0	42.4	42.1	39.3	35.2	31.0	25.2	19.4
10.0	37.7	37.3	36.0	32.1	28.2	23.4	18.6
12.0		30.0	29.5	27.1	24.4	20.4	16.6
14.0			22.4	22.1	21.1	17.9	14.8
16.0			17.7	17.4	18.3	15.9	13.3
18.0	G.			14.0	14.9	14.3	12.0
20.0					12.3	12.8	10.8
22.0					10.2	10.8	9.8
24.0					8.6	9.1	9.0
26.0						7.8	8.2
28.0						6.7	7.0
30.0	4					5.7	6.1
32.0							5.3
34.0							4.6
36.0							4.0
38.0							
40.0							
Number of falls	10	8	8	7	5	4	3
i i	0 %	33 %	66 %	100 %	100 %	100 %	100 %
11	0 %	0 %	0 %	0 %	33 %	66 %	100 %
Ш	0 %	0 %	0 %	0 %	33 %	66 %	100 %
		The load ratings r	nust be reduced if using	g a direct-mounted fly b	ooom on main body.		
Load capacity reduction [kg]	600	485	405	350	275	225	195

Notes:

- 1. The load ratings given apply when the machine is on a firm and level surface (\pm 0.3°)
- 2. The load ratings are given in tonnes and apply 360 degrees.
- 3. The load capacities correspond to EN13000.
- 4. The weight of the load handling equipment (hooks, suspension gear) should be deducted from the load capacities.
- 5. The load ratings apply for the maximum stabilizer width (7.4 m).
 - 6.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.
- 7. Permissible cable pull per strand in crane mode for cable diameter 26 mm 12,500 kg.
- 8. The load ratings given are for reference only. Please refer to the tables in the operating instructions for the relevant applicable load ratings.











Main boom HA 40.2 m freestanding on wheels Pick & Carry < 3 km/h

	Boom length [m]						
17	12.6	15.7	18.9	22.0	28.0	34.0	40.2
Reach [m]							
2.0							
2.5							
3.0	45.0						
4.0	36.6	36.0	35.4	35.1			
5.0	30.5	29.8	29.1	28.9	29.6		
6.0	25.7	25.1	24.5	24.2	25.0		
7.0	22.0	21.4	20.9	20.6	21.4		
8.0	19.1	18.5	18.0	17.7	18.4		
9.0	16.8	16.1	15.7	15.3	16.1		
10.0	14.8	14.2	13.7	13.4	14.1		
11.0		12.5	12.0	11.7	12.5		
12.0		11.1	10.7	10.3	11.1		
13.0		9.8	9.4	9.1	9.9		
14.0			8.3	8.1	8.8		
16.0			6.5	6.2	7.0		
18.0				4.8	5.6		4
20.0					4.4		
22.0					3.4		
24.0					2.5		
26.0							
28.0							
30.0							
32.0							
34.0							
Number of falls	10	8	8	7	5	4	3
	0 %	33 %	66 %	100 %	100 %	100 %	100 %
11	0 %	0 %	0 %	0 %	33 %	66 %	100 %
III	0 %	0 %	0 %	0 %	33 %	66 %	100 %
		The load ratings r	nust be reduced if using	g a direct-mounted fly	boom on main body.		
Load capacity reduction [kg]		-	-	-		50	-

Notes:

- 1. The load ratings given apply for procedures where the load is on a firm and level surface (± 0.3°).
- 2. The load ratings are given in tonnes and apply to the uppercarriage in direction of travel ($\pm\,10^\circ$).
- 3. The load capacities correspond to EN13000.
- 4. The weight of the load handling equipment (hooks, suspension gear) should be deducted from the load capacities.
 - 5.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.
- 6. Permissible cable pull per strand in crane mode for cable diameter 26 mm 12,500 kg.
- 7. The load ratings given are for reference only. Please refer to the tables in the operating instructions for the relevant applicable load ratings.
- 8. Values marked with * only apply with special equipment.

Technical features and dimensions subject to change.





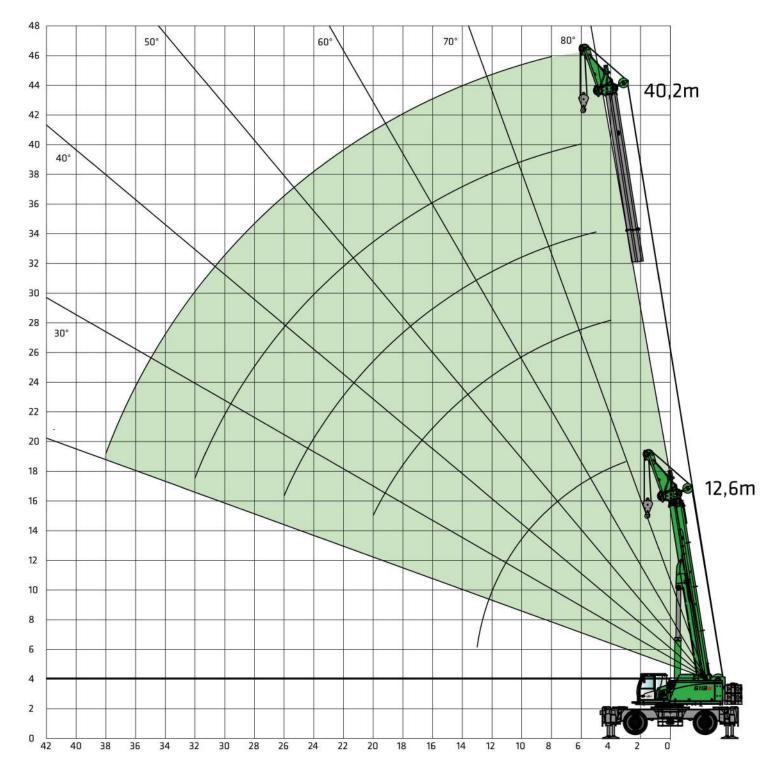
5113 E Crane equipment







Heavy-duty jib SLS



5113 E Load ratings









Heavy-duty jib SLS outrigger-supported 100 %

			Boom length [m]	ı	
Reach	12.6	22.0	28.0	34.0	40.2
[m] 2.0	- I firm t		I SANTEL I		
3.0	36.0				
4.0	35.8	36.0			
5.0	33.6	36.0	26.0		
6.0	31.8	35.1	26.0	26.0	
7.0	30.2	33.6	26.0	24.8	
8.0	28.9	32.4	26.0	23.5	19.2
9.0	27.9	31.3	25.5	22.2	18.2
10.0	27.0	29.6	24.9	20.9	17.1
11.0	26.4	27.6	23.5	19.6	16.0
12.0	26.1	25.6	22.0	18.3	15.1
13.0	25.6	23.7	20.6	17.2	14.4
14.0	2510	22.1	19.4	16.3	13.6
16.0		18.2	17.2	14.5	12.2
18.0		14.8	15.1	13.0	11.0
20.0		12.2	12.5	11.2	9.9
22.0		Total And	10.5	10.7	9.0
24.0			8.8	9.2	8.2
26.0			7.5	7.8	7.5
28.0				6.7	6.9
30.0				5.7	6.0
32.0				4.9	5.2
34.0					4.4
36.0					3.8
38.0					3.3
Number of falls	3	3	3	3	3
1	0 %	100 %	100 %	100 %	100 %
11	0 %	0 %	33 %	66 %	100 %
III	0 %	0 %	33 %	66 %	100 %

Notes:

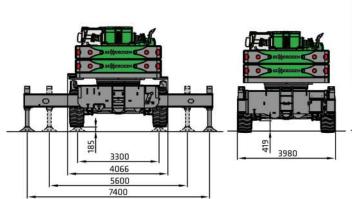
- 1. The load ratings given apply when the machine is on a firm and level surface (\pm 0.3°).
- 2. The load ratings are given in tonnes and apply 360 degrees.
- 3. The load capacities correspond to EN13000.
- 4. The weight of the load handling equipment (hooks, suspension gear) should be deducted from the load capacities.
- 5. The load ratings apply for the maximum stabilizer width (7.4 m).
- 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.
- 7. Permissible cable pull per strand in crane mode for cable diameter 26 mm 12,500 kg.
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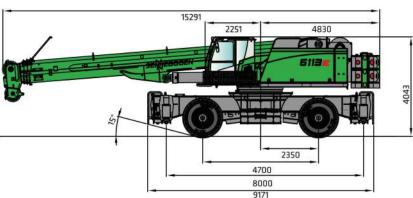




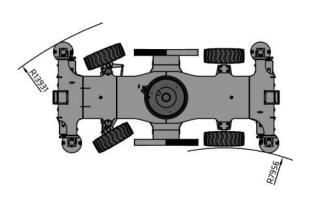
511= Transport dimensions and weights

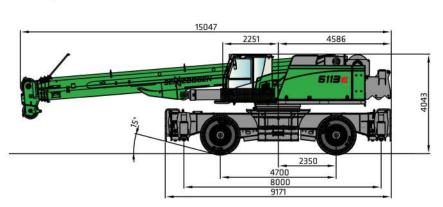
Weight: approx. 85.5 t (2 winches, 80 t hook, 19.2 t counter weight)
Transport dimensions: 15.3 m x 4.0 m x 4.05 m



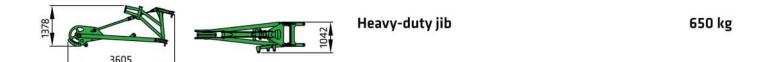


Weight: approx. 66.3 t (2 winches, 80 t hooks) Transport dimensions: 15.1 m x 4.0 m x 4.05 m





3490		Ballast base plate	1x	5400 kg
3490	620	Ballast plates	2 x	6980 kg



Subject to technical changes.

Dimensions in [mm] 11





This catalog describes machine models, scopes 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 in a tolerance range depending on the country to which the machines are delivered, especially in regard to standard and optional equipment

violate the rights of the owners.

Please contact your local SENNEBOGEN sales partner for information concerning the equipment variants offered. Requested performance characteristics are only binding if they are expressly stipulated upon conclusion of the contract. Delivery options and technical features are subject to change. Errors and omissions excepted. Equipment is subject to change, and rights of advancement are reserved.

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