

Crawler Crane

SC-80



soilmec 
Drilling and Foundation Equipment

SC-80 Crawler Crane
MAIN BOOM EQUIPMENT



SC-80 TECHNICAL DATA SHEET

Operating weight (approx.)	74000 kg	163142 kg
Diesel engine	CAT C7 with ACERT™ Technology	CAT C7 with ACERT™ Technology
- Max Rated Power	205 kW @ 1800 rpm	275 kW @ 1800 rpm
- Engine conforms to exhaust emissions standard	EU Stage IIIA - EPA Tier III / EU Stage IIIB- EPA Tier 4i	EU Stage IIIA - EPA Tier III / EU Stage IIIB- EPA Tier 4i
- Displacement	7,2 l	1,9 US gal
- Aspiration	Turbocharged	Turbocharged
- Cooling	Water-cooled	Water-cooled
Hydraulic system		
- Max working pressure	32 MPa	4641 psi
- Main pums max oil flow	2x 252 l/min	2x 66 US gal
- Cooling	Oil-to-air heat exchanger	Oil-to-air heat exchanger
Service refill capacity		
- Fuel Tank	400 l	106 US gal
- Hydraulic Oil Tank	495 l	131 US gal
Main winches	Lebus	Lebus
- Type	Free fall	Free fall
- 1st layer line pull (nominal/effective line pull)	178/150 kN	40015 lbf
- Rope diameter	26 mm	1,02 in
- Rope speed	122 m/min	400 ft/min
Boom		
- Length min-max	12 - 51 m	39,4-167.3 ft
- Tubolar (horizontal x vertical)	1200 x 1100 mm	47,2 x 19,7
- Boom extension length	3 - 6 m	9,8 - 19,7 ft
Upperframe		
- Tail swing radius	4690 mm	184,65 in
- Slewing speed	3 rpm	3 rpm
- Slew bearing type	Double-row ball bearing	Double-row ball bearing
- Counterweight	19500 kg	42990 lb
- Additional counterweight	3010 kg	6636 lb
Undercarriage	variable gauge	variable gauge
- Overall width (retracted side frames)	3400 mm	133,86 in
- Overall width (extended side frames)	5050 mm	198,82 in
- Overall length of crawler	6331 mm	249,25 in
- Track shoe width - Triple grouser or flat	800 mm	31,50 in
- Travel speed	1,72 Km/h	1,07 mph

STANDARD EQUIPMENT

BASE MACHINE	CAB/CONTROL	
• 2 x 225 Ah capacity batteries for low temperature • Two front working lights • Rear view mirror • Steps for crawlers • Counterweight self-removal • Tracks with chain tensioning device • Swivel for main rope • Grease lubricated tracks • Hydro-clean micro filtration with water separation • Electric refuelling pumps for diesel and hydraulic oil with automatic stop system.	• Air conditioner, heater and defroster with automatic climate control • Retracted seat belt • Beverage/Cup holder • Stationary skylight • Radio and CD player • Sunshade for windshield • High brightness led internal to the cab • Travel control pedals with removable hand levers • Courtesy lights in the cab • Parallelogram wiper including a washer nozzle mounted below the cab windshield • Signal/warning horn • Warning in cab of hydraulic oil contamination	• Floor mat • Tempered safety glass panel • Lockable glove compartment • Armrests
		SAFETY DEVICE
		• Load Moment Indicator (with boom lowering slow stop function) • Fire extinguisher • State-of-the-art safety load indicator with graphic display • Cab top guard • Rope and Load limit switch. • Catwalk (on side and in front of operator's cab) • Hoist limit switch on both main winches

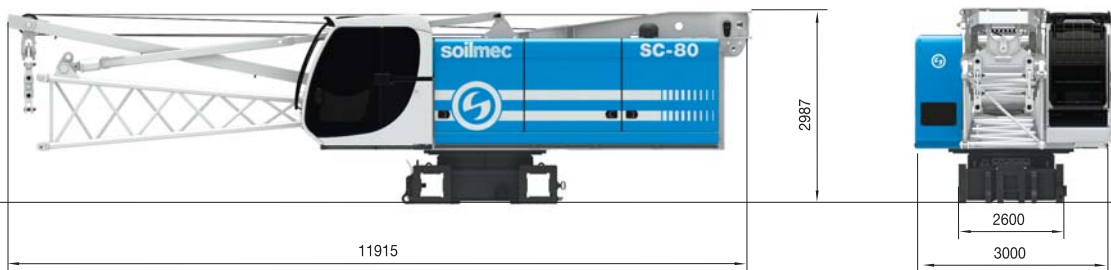
OPTIONAL EQUIPMENT

• Track triple grouser: 900 mm • Electric hand throttle • Flat track shoes • Auxiliary winch • Windshield guards • Reversible cooling fan including protective screen • Automatic lubrication system • Bio lubrication engine oil	• Winch synchronisation (both winches work with the same speed) • "CAT BIO HYD ADVANCED" hydraulic bio-oil (compliant with European directive 2005/360/EC). • Potentiometer to tune the load between main winches during 2-rope grab operation • GSM modem • 3-color percentage indicator	• Hydraulic arrangement for Casing oscillator attachment • Swing and travel alarm • Positive or negative free fall controls • Lights for overall dimensions • Satellite system for remote transmission of operating data • LCD cameras monitor multi-display • Removable sides
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SC-80 Crawler Crane TECHNICAL LOAD CHART

Capacity (t)														
Boom Length (m)														
Radius (m)	12	15	18	21	24	27	30	33	36	39	42	45	48	51
3,5	80,0													
4,0	67,4	67,0												
5,0	56,2	52,6	49,5	46,8										
6,0	44,3	42,3	39,8	38,2	36,4	34,6								
7,0	36,5	34,8	33,3	31,9	30,5	29,2	25,3	25,3	25,3					
8,0	30,8	29,4	28,4	27,2	26,0	24,8	23,9	23,1	22,3	21,4	20,6			
9,0	26,7	25,6	24,6	23,7	22,7	21,9	21,1	20,4	19,5	18,9	18,2	17,3	15,1	15,5
10,0	23,3	22,3	21,5	20,7	20,0	19,3	18,6	18,0	17,2	16,6	16,0	15,6	14,2	13,6
11,0	20,6	19,9	19,1	18,8	18,1	17,5	16,9	16,3	15,7	15,2	14,7	14,1	12,9	12,4
12,0	18,2	18,2	17,5	17,0	16,5	15,9	15,4	14,8	14,3	13,8	13,3	12,8	111,6	11,2
14,0		14,8	14,7	14,2	13,6	13,2	12,6	12,2	11,8	11,3	10,9	10,5	9,6	9,2
15,0		13,4	13,4	12,9	12,8	12,4	11,9	11,5	11,1	10,7	10,4	9,9	8,7	8,3
16,0			12,1	12,3	11,6	11,2	10,8	10,4	10,1	9,7	9,4	9,0	8,2	7,9
18,0			10,4	10,5	10,4	10,0	9,7	9,3	9,0	8,7	8,4	7,8	7,0	6,7
19,0				9,5	9,4	9,4	9,1	8,5	8,2	7,9	7,6	7,4	7,0	6,1
21,0				8,2	8,4	8,3	8,0	7,7	7,4	7,0	6,7	6,5	6,3	5,2
22,0					7,6	7,5	7,6	7,3	7,0	6,6	6,2	6,1	5,5	4,8
23,0					7,1	7,0	7,1	6,8	6,5	6,2	5,9	5,7	5,2	4,5
24,0					6,7	6,6	6,7	6,4	6,1	5,8	5,5	5,4	4,7	4,2
25,0						6,2	6,2	6,0	5,8	5,4	5,1	5,0	4,4	3,8
26,0						5,8	5,9	5,6	5,4	5,1	4,8	4,7	4,1	3,6
27,0						5,4	5,5	5,3	5,1	4,8	4,8	4,4	3,9	3,2
28,0							5,1	4,9	4,7	4,8	4,5	4,2	3,6	3,2
29,0							4,8	4,6	4,7	4,5	4,2	3,9	3,2	2,8
30,0							4,5	4,3	4,4	4,2	4,0	3,9	2,8	2,4
31,0								4,1	4,2	3,9	3,7	3,6	2,4	2,4
32,0								4,1	3,9	3,7	3,7	3,2	2,4	2,1
33,0								3,8	3,7	3,2	3,3	3,2	2,1	2,1
34,0									3,2	3,2	3,3	2,8	2,1	1,9
35,0									3,2	3,2	2,9	2,8	1,9	1,9
36,0									2,8	2,8	2,9	2,8	1,9	1,4
37,0										2,8	2,5	2,4	1,4	1,4
38,0											2,5	2,4	1,4	1,4
39,0											2,5	2,1	1,4	1,0
40,0												2,1	1,1	1,0
41,0												1,9	1,1	1,0
42,0												1,9	1,1	0,8
44,0													1,4	0,8
Part Line	6	6	6	4	4	4	2	2	2	2	2	2	2	2

SC-80 Crawler Crane TRANSPORT DIMENSIONS AND WEIGHTS

Main machine		
		
Weight c/w crawlers	49000 kg	108026 lb
Weight w/o crawlers	30000 kg	66139 lb

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