

PRODUCT

SRC900T Rough - Terrain Crane CALL 1800CRANES



MORE THAN HEAVY LIFTING

(08) 9459 6212 / 1800CRANES

www.ronco.com.au

💑 Max. Boom Length: 47m Max. Grade ability: 75%

Max. Lifting Capacity: 90t

33 Valencia Way, MADDINGTON WA 6109 Model SRC900T | SERIES

SRC900T ROUGH TERRAIN CRANE



PA FAA

Strong structure

The U-shape boom is of 10% stronger than the counterparts, with decreased weight and increased stability.

Simple and convenient jib mounting to increase the efficiency

Jib swingout process only needs ONE operator. Only need 15mins to unfold and retract the jib with an experienced operator, which saves a half time than before.

Optimized structure of new design assists the jib mounting and operation.



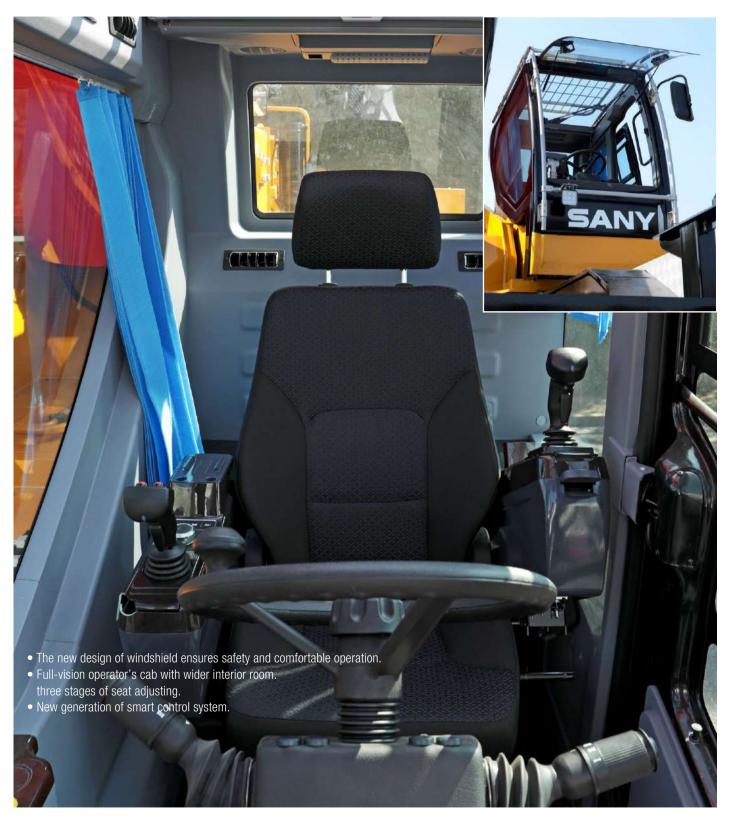
Intelligent control

Newly-developed T-box, specially designed for fleet management, is used for collecting data and controlling parameter download. With the GSP features and Irootech cloud communication.

note control of counterweight and jib



New Generation Operator's cab







The cab can be tilted from 0°to 20° during operation for more comfortable control.

Smart control and advanced display



Extra-wide aluminum alloy access deck and ladder Rotatable footstep.

The 10.1" touch screen inserted with optical sensor can automatically adjust the lightness of screen.

It has the function of screen mirroring with smart phone. (Requires Android 8.0 and later) and connect to camera to monitor the operation.



Technical Specificaiton

Category	Item		Unit	Value
Capacity	Max. lifting capacity		t	90
Weight	Gross weight		kg	54600
	Engine model		-	EU Stage 📗 A
Power	Max. engine power		kW/rpm	194/2400
	Max. engine torque		N·m/rpm	990/1500
	Overall length		mm	14680
Dimensions	Overall width		mm	3340
	Overall height		mm	3810
	Max.travel speed		km/h	35
	Steering radius	Min.steering radius	m	7.2
	Steering radius	Min.steering radius of boom tip	m	12.8
Fravel	Wheel formula			4×4, 4×2
Ilavei	Min.ground clearance		mm	530
	Approach angle		0	19
Departure angle			0	19
	Max.gradeability		%	75
Work	Working temperature range		°C	-5
	Min.rated lifting radius		m	2.5
	Tail slewing radius		m	4.45
	Boom sections (Qty.)		-	5
	Boom shape		-	U shape
		Basic boom	kN∙m	3000
	Max.lifting moment	Full-extension boom	kN⋅m	1360
Main		Max.combination of boom + jib	kN∙m	544
performance		Basic boom	m	12.2
	Boom length	Full-extension boom	m	47
		Max.combination of boom + jib	m	65
٨		Basic boom	m	15.4
	Max.lifting height	Full-extension boom	m	48.7
		Max.combination of boom + jib	m	65.6
	Outrigger span (Longitudinal	×Transverse)	m	7.52×7.4
	Jib offset		0	0, 20, 40
Airconditioner	In operator's cab		-	Heating & cooling
Anconuluoner	In driver's cab		-	Heating & cooling

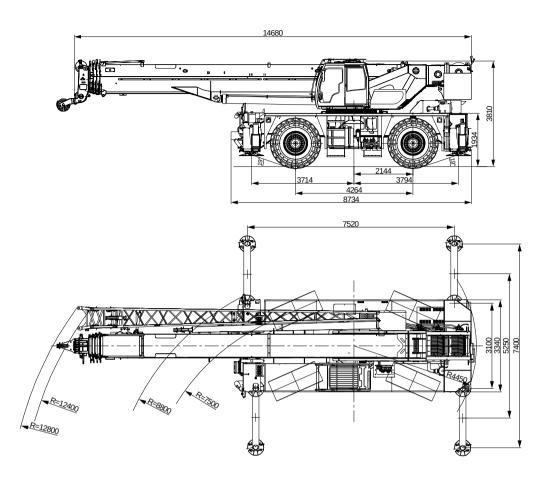
	2	Gross weight
27200	27400	54600
	1 27200	1 2 27200 27400

💡 Hook			
Load/t	Number of sheaves	Rope rate	Hook weight /kg
75	6	12	780
8	-	1	160

Operations

	-								
Iten		Max.single rope lifting speed (empty load)							
Main w	inch	150 m/min	9.1t						
Auxiliary	winch	150 m/min	20mm/145m	9.1t					
Slewing	speed		1.8r/min						
Full luffir down time		90s/95s							
Full exter retraction tim		120s/125s							
Outrigger jack	Retraction		40s						
Outingger Jack	Extension	35s							
Outrigger beam	Retraction		30s						
	Extension		25s						

Overall Dimensions



Optional equipment

Conditions	Option A	Option B	Option C
Desert	Desert air filter	Air inlet shutoff	Inflator
Oil field	Anti sparkling device	Chassis water heater	-
Extreme cold		Arctic package	
Other	Reversing camera	Winch monitor	Hook monitor



Transport Dimensions

lt	ems	Weight (kg)	Load on front axle (kg)	Load on rear axle (kg)
Main	machine	43210	30350	12860
Count	erweight	9200	-3489	+12689
Fix	ed jib	1150	+2070	-920
Boo	om tip	100	+265	-165
	90t	800	+1475	-675
Main hook	70t	690	+1270	-562
Wall Hook	60t		+1110	-490
	30t		+645	-285
Auxiliary hook	8t	160	+205	-45

Crane Introduction

Carrier

Operator's cab

- 0-20° tiltable, the self-developed new operator's cab of ergonomic design realizes safety and comfort.
- The operator can open the windshield in the cab and it is equipped with sliding door with better seal, electrical pedal, adjustable steering wheel integrating driving and controlling, large rear-view mirror, soft seat with headrest, HVAC, stereo radio, and all other instruments and meters.

谓: Carrier frame

 Designed and manufactured by Sany, the inverted trapezoidal type structure is expanded in height and length, with its rigidity increased by 15%, featuring enhanced bearing capacity.

Engine

- Model: Cummins inline six-cylinder diesel with watercooler and inter cooler
- Emission standard: EU Stage III A.
- Fuel reservoir capacity: 350L.

1 Transmission

 Manual/Automatic/AMT. 6 forward gears, 6 reversing gears, large speed ratio range, adaptable to slope climbing and high-speed traveling.

Transmission shaft

- Optimized layout, higher torque output via 8.5C flange connecting transmission shaft.

🛏 Axle

Kessler. Both the front and rear axles are drive axles and can steer. Two-stage reducer gear
and more compact axle bags contribute to better travel flexibility.

🛱 Suspension system

 Hydro-pneumatic suspension with hydraulic lock. Ride comfort and vehicle lateral stability are ensured regardless of any rough terrains.

3 Steering

- 4 steering modes: front-wheels steer, rear-wheels steer, 4x4 and crab steer
- All axles are steered hydraulically.

Tires

- Four tires sized 29.5-25, strong bearing capacity and durability.

J-J Wheel formula

= 4 x 4

O Brake

- All wheels are hydraulic braking with double circuit split system.
- Service brake is double circuit braking system, the hydraulic disc brakes function on all wheels, which is of better braking ability and agility.
- Parking brake works on front axle disc hydraulically

🗲 Electrical system

24V DC power supply. The power of chassis can be cut off manually. Vehicle illumination available. Its own strong logic realizes self-diagnosis, integrated display and self-protection.

Superstructure

🔊 Boom & telescoping system

 Bending resistant structure welded by high tensile steel plate. The main boom is of U-shape cross section from 12.2m to 47m. Telescoping is realized by double cylinders with rope arranger to realize different length combinations.

, 🐎 Hoist

- Hoist smoothness is guaranteed by piston pump and motor speed adjustment.
- Normally closed hoist brake with the hoist balance valve to prevent the stall of falling hook.

A Luffing system

Passive luffing down, reducing energy cost yet raising stability. Luffing angle: -2°~80.5°.

Hydraulics

- Utilize high quality oil pump, motor and valves to ensure the stability and reliability of hydraulic system.
- The luffing, telecoping and hoist winch systems adopt open systems.

Ilewing

- Hydraulic axial piston motor driven through planetary slewing speed reducer. Continuous 360° full circle slewing on ball bearing.
- Electric proportional speed control ensures the stable motion and reliable system.

Control system

- The international top controls, displays and sensors all meet the industrial safety standard of Europe and USA to ensure afe, stable and effective operation.
- Data display system: The full set of sensors ensures prompt information feedback and realtime monitor of the crane working condition.
- HMI: The human-machine interface is well-designed to provide abundant and clear information. The operator can set the crane accroding to their operating routine and the working conditions.

- Outrigger

 H-type layout, four point support, easy to operate, outrigger beam hydraulically telescoping, jack telescoping protected by two-way pilot controlled valve.

Counterweight

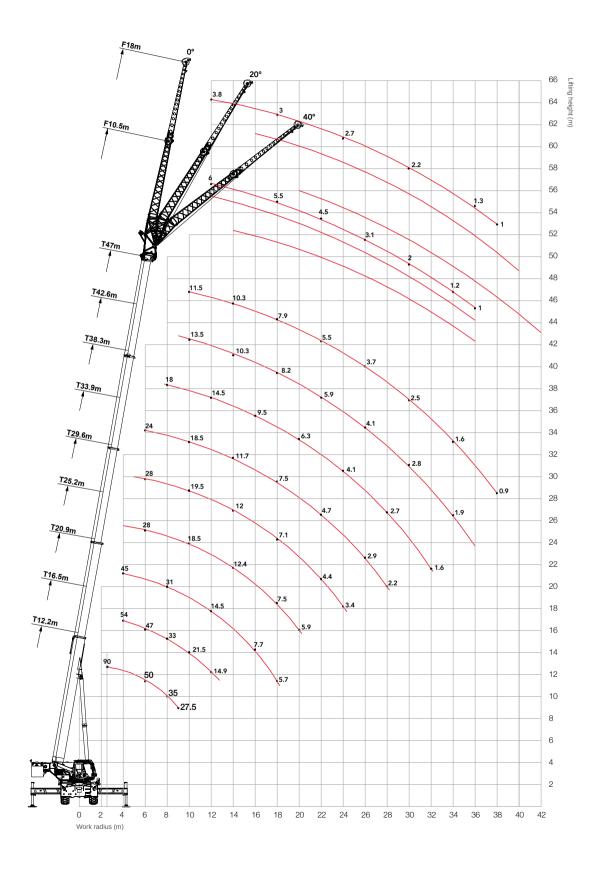
 9.5t self-disassembly fixed counterweight with lifting device. CW assembly and disassembly controlled remotely.

📺 Safety equipment

- The load moment indicator accuracy is kept within ±3%
- Three-circle protector at main winch and auxiliary winch, preventing wire rope from over-hoist down.
- Height limit switch at head of boom and fixed jib, preventing wire rope from over-hoist up.
- Anemometer at boom and jib head to ensure work at permissible wind speed.
- Motion of risks are cut off automatically with buzzer warning.

🗘 Optional equipment at extra fees

- Winch camera
- Boom tip camera
- reverse camera
 90t hook
- = 60t hook
- Anti-sparkling device
- Outrigger pad
- Other equipment available upon request



Load Chart–Telescopic Boom



Boom length(m) Radius(m)	12.2	16.5	20.9	20.9	25.2	25.2	29.6	29.6	29.6	33.9	33.9	38.3	38.3	42.6	47.0	Boom length(m) Radius(m)
2.5	90.0															2.5
3.0	83.0	55.0														3.0
3.5	75.0	55.0		28.0												3.5
4.0	68.0	54.0	45.0	28.0												4.0
4.5	63.0	53.0	45.0	28.0		25.0										4.5
5.0	58.0	52.0	43.0	27.0	28.0	25.0	28.0									5.0
5.5	53.0	50.0	41.0	26.0	28.0	24.0	28.0	24.0	19.0							5.5
6.0	50.0	47.0	39.0	25.0	28.0	23.0	28.0	24.0	19.0	24.0						6.0
6.5	46.0	43.0	37.0	24.0	27.0	22.0	27.0	23.0	19.0	23.0	18.0					6.5
7.0	42.0	39.5	35.0	23.0	25.0	21.0	25.5	22.0	18.0	22.0	18.0	18.0	15.0			7.0
8.0	35.0	33.0	31.0	22.0	23.0	19.0	23.0	21.0	17.0	21.0	18.0	18.0	15.0			8.0
9.0	27.5	27.0	26.0	21.0	20.5	18.0	21.0	19.5	17.0	20.0	17.0	17.0	14.0	14.0		9.0
10.0		21.5	22.0	20.0	18.5	17.0	19.5	18.0	16.0	18.5	17.0	17.0	13.0	13.5	11.5	10.0
11.0		17.7	17.3	19.0	17.5	16.3	17.5	17.0	15.5	17.0	16.0	15.5	12.0	12.5	11.5	11.0
12.0		14.9	14.5	17.3	15.5	15.5	15.3	15.0	14.5	15.0	15.0	14.5	11.0	11.5	11.5	12.0
14.0		10.8	10.5	13.1	12.4	13.0	12.0	12.0	12.7	11.7	11.5	11.5	9.5	10.3	10.3	14.0
16.0			7.7	10.2	9.6	10.6	9.2	9.9	10.8	9.5	9.7	9.5	8.5	9.3	9.1	16.0
18.0			5.7	8.1	7.5	8.5	7.1	7.8	8.8	7.5	8.2	7.8	7.7	8.2	7.9	18.0
20.0					5.9	6.9	5.6	6.3	7.2	5.9	6.6	6.3	7.0	7.1	6.7	20.0
22.0					4.7	5.7	4.4	5.1	6.0	4.7	5.4	5.1	6.3	5.9	5.5	22.0
24.0							3.4	4.1	5.0	3.7	4.4	4.1	5.3	4.9	4.5	24.0
26.0							2.6	3.3	4.2	2.9	3.6	3.3	4.5	4.1	3.7	26.0
28.0										2.2	2.9	2.7	3.8	3.4	3.1	28.0
30.0										1.7	2.3	2.1	3.2	2.8	2.5	30.0
32.0												1.6	2.7	2.3	2.0	32.0
34.0												1.2	2.3	1.9	1.6	34.0
36.0														1.5	1.2	36.0
38.0														1.2	0.9	38.0
							Teles	coping statu	ıs (%)							
2nd boom	0	50	100	0	50	0	100	50	0	100	50	100	0	50	100	2nd boom
3rd boom	0	0	0	33	33	50	33	50	67	50	67	67	100	100	100	3rd boom
4th boom	0	0	0	33	33	50	33	50	67	50	67	67	100	100	100	4th boom
5th boom	0	0	0	33	33	50	33	50	67	50	67	67	100	100	100	5th boom
Rope rate	12	10	8	6	6	6	6	5	5	5	4	4	3	3	3	Rope rate

Load Chart–Telescopic Boom



Boom length(m) Radius(m)	12.2	16.5	20.9	20.9	25.2	25.2	29.6	29.6	29.6	33.9	33.9	38.3	38.3	42.6	47.0	Boom length(m) Radius(m)
2.5	81.0															2.5
3.0	75.0	55.0														3.0
3.5	65.0	55.0		28.0												3.5
4.0	60.0	54.0	45.0	28.0												4.0
4.5	54.6	53.0	45.0	28.0		25.0										4.5
5.0	45.2	44.0	43.0	27.0	28.0	25.0	28.0									5.0
5.5	36.5	35.5	35.2	26.0	28.0	24.0	28.0	24.0	19.0							5.5
6.0	30.3	29.5	29.1	25.0	28.0	23.0	28.0	24.0	19.0	24.0						6.0
6.5	25.7	25.0	24.6	24.0	27.0	22.0	26.3	23.0	19.0	23.0	18.0					6.5
7.0	22.2	21.5	21.1	23.0	23.2	21.0	22.8	22.0	18.0	22.0	18.0	18.0	15.0			7.0
8.0	17.1	16.5	16.1	18.7	18.0	19.0	17.7	18.5	17.0	18.2	18.0	18.0	15.0			8.0
9.0	13.6	13.0	12.7	15.1	14.5	15.5	14.1	15.0	15.8	14.6	15.3	15.0	14.0	14.0		9.0
10.0		10.5	10.2	12.5	12.0	12.9	11.6	12.4	13.2	12.0	12.7	12.4	13.0	13.2	11.5	10.0
11.0		8.6	8.3	10.5	10.0	10.9	9.6	10.4	11.2	10.0	10.7	10.4	11.6	11.2	10.8	11.0
12.0		7.1	6.8	9.0	8.5	9.3	8.1	8.8	9.6	8.4	9.1	8.8	10.0	9.5	9.2	12.0
14.0		4.9	4.6	6.7	6.2	7.0	5.9	6.5	7.3	6.2	6.8	6.5	7.7	7.2	6.9	14.0
16.0			3.1	5.1	4.6	5.4	4.3	4.9	5.6	4.6	5.2	4.9	6.0	5.6	5.3	16.0
18.0			1.9	3.9	3.4	4.2	3.1	3.7	4.4	3.4	4.0	3.7	4.7	4.4	4.1	18.0
20.0					2.5	3.3	2.2	2.8	3.5	2.5	3.1	2.8	3.8	3.5	3.2	20.0
22.0					1.8	2.6	1.5	2.1	2.8	1.8	2.4	2.1	3.1	2.8	2.5	22.0
24.0								1.6	2.2	1.3	1.8	1.5	2.5	2.2	1.9	24.0
26.0									1.7		1.3		2.0	1.7	1.4	26.0
28.0													1.6	1.3		28.0
							Teles	coping statu	us (%)							
2nd boom	0	50	100	0	50	0	100	50	0	100	50	100	0	50	100	2nd boom
3rd boom	0	0	0	33	33	50	33	50	67	50	67	67	100	100	100	3rd boom
4th boom	0	0	0	33	33	50	33	50	67	50	67	67	100	100	100	4th boom
5th boom	0	0	0	33	33	50	33	50	67	50	67	67	100	100	100	5th boom
Rope rate	12	10	8	6	6	6	6	5	5	5	4	4	3	3	3	Rope rate

Load Chart–Telescopic Boom

Boom length(m)																Boom length(m)
Radius(m)	12.2	16.5	20.9	20.9	25.2	25.2	29.6	29.6	29.6	33.9	33.9	38.3	38.3	42.6	47.0	Radius(m)
2.5	65.0															2.5
3.0	51.0	50.5														3.0
3.5	37.0	36.2		28.0												3.5
4.0	28.7	28.0	27.7	28.0												4.0
4.5	23.0	22.4	22.1	24.6		25.0										4.5
5.0	19.0	18.4	18.1	20.5	19.8	21.0	19.7									5.0
5.5	16.0	15.4	15.1	17.4	16.8	18.0	16.6	17.5	18.3							5.5
6.0	13.7	13.1	12.8	15.0	14.5	15.5	14.2	15.0	15.8	14.7						6.0
6.5	11.8	11.3	11.0	13.1	12.6	13.6	12.3	13.0	13.9	12.8	13.5					6.5
7.0	10.3	9.8	9.5	11.5	11.1	12.0	10.7	11.5	12.3	11.2	11.9	11.5	12.7			7.0
8.0	8.0	7.5	7.2	9.2	8.7	9.6	8.4	9.1	9.9	8.8	9.5	9.1	10.3			8.0
9.0	6.3	5.8	5.5	7.4	7.0	7.8	6.6	7.4	8.1	7.1	7.7	7.4	8.5	8.1		9.0
10.0		4.5	4.2	6.1	5.7	6.4	5.3	6.0	6.7	5.7	6.3	6.0	7.1	6.7	6.4	10.0
11.0		3.5	3.2	5.1	4.6	5.4	4.3	5.0	5.7	4.7	5.3	5.0	6.0	5.7	5.4	11.0
12.0		2.7	2.4	4.2	3.8	4.5	3.5	4.1	4.8	3.8	4.4	4.1	5.1	4.8	4.5	12.0
14.0		1.4	1.2	2.9	2.5	3.2	2.2	2.8	3.5	2.5	3.1	2.8	3.8	3.5	3.2	14.0
16.0				2.0	1.6	2.3	1.3	1.9	2.5	1.6	2.2	1.9	2.8	2.5	2.2	16.0
18.0				1.3		1.6		1.2	1.8		1.5	1.2	2.1	1.8	1.5	18.0
20.0									1.2				1.5	1.2		20.0
			1				Teles	coping statu	us (%)	1		1			1	
2nd boom	0	50	100	0	50	0	100	50	0	100	50	100	0	50	100	2nd boom
3rd boom	0	0	0	33	33	50	33	50	67	50	67	67	100	100	100	3rd boom
4th boom	0	0	0	33	33	50	33	50	67	50	67	67	100	100	100	4th boom
5th boom	0	0	0	33	33	50	33	50	67	50	67	67	100	100	100	5th boom
Rope rate	12	10	8	6	6	6	6	5	5	5	4	4	3	3	3	Rope rate



Load	Chart–Jib
LUUU	

Unit: metric ton



			47.0m+	10.5m					47.0m+	-18.0m			
Radius (m)	0	0	20	٥	40)°	0	0	20)°	4()°	Radius (m)
	Boom angle (°)												
12	76.6	6.0	80.1	5.0			78.2	3.8					12
14	74.5	6.0	78.0	4.8	80.9	4.4	76.3	3.5					14
16	72.4	5.8	75.9	4.6	78.8	4.3	74.5	3.2	79.8	2.6			16
18	70.3	5.5	73.8	4.3	76.6	4.2	72.7	3.0	78.0	2.6			18
20	68.2	5.0	71.6	4.1	74.3	4.1	70.8	2.9	76.1	2.5	80.6	2.1	20
22	66.0	4.5	69.4	3.8	72.1	3.9	68.9	2.8	74.2	2.4	78.6	2.1	22
24	63.8	3.7	67.2	3.6	69.8	3.7	67.0	2.7	72.2	2.3	76.6	2.1	24
26	61.5	3.1	64.9	3.2	67.4	3.3	65.1	2.6	70.3	2.2	74.5	2.0	26
28	59.2	2.5	62.5	2.8	65.0	2.9	63.1	2.4	68.3	2.1	72.4	1.9	28
30	56.8	2.0	60.1	2.3	62.5	2.5	61.1	2.2	66.2	2.0	70.3	1.8	30
32	54.4	1.6	57.6	1.8	59.9	2.1	59.0	1.9	64.1	1.9	68.1	1.7	32
34	51.9	1.2	55.1	1.4	57.2	1.6	56.9	1.6	62.0	1.7	65.9	1.6	34
36	49.2	1.0	52.4	1.1	54.5	1.2	54.8	1.3	59.8	1.6	63.6	1.5	36
38							52.6	1.0	57.6	1.4	61.2	1.4	38
40									55.3	1.1	58.7	1.3	40
42											56.1	1.1	42
Rope rate							1						Rope rate

Load Chart–Telescopic Boom, Pick and Carry Unit: metric ton



Load Chart–Telescopic Boom, On Tires Stationary Unit: metric ton



	Load Over Front												
Radius(m)	12.2	16.5	20.9	25.2	29.6	Radius(m)							
4.0	20.1					4.0							
4.5	18.0					4.5							
5.0	16.1	16.1				5.0							
5.5	14.5	14.6				5.5							
6.0	13.1	13.3	14.0			6.0							
6.5	11.9	12.2	12.8			6.5							
7.0	10.8	11.2	11.7	11.0	10.0	7.0							
8.0	9.0	9.4	10.0	9.9	10.0	8.0							
9.0	7.5	8.0	8.5	8.6	8.7	9.0							
10.0		6.7	7.1	7.5	7.7	10.0							
11.0		5.6	6.0	6.5	6.8	11.0							
12.0		4.7	5.1	5.8	6.2	12.0							
14.0			3.7	4.5	4.8	14.0							
16.0			2.8	3.7	3.8	16.0							
18.0			2.1	2.7	2.8	18.0							
20.0				1.9	2.1	20.0							
22.0				1.2	1.4	22.0							
Min. boom angle at empty load	0°	0°	30°	36°	43°	Min. boom angle at empty load							
		Teles	scoping statu	s (%)									
2nd boom	0	0	0	0	0	2nd boom							
3rd boom	0	17	33	50	67	3rd boom							
4th boom	0	17	33	50	67	4th boom							
5th boom	0	17	33	50	67	5th boom							
Rope rate	4	4	4	3	3	Rope rate							

Load Over Front						
Radius(m)	12.2	16.5	20.9	25.2	29.6	Radius(m)
4.0	22.1					4.0
4.5	19.8					4.5
5.0	17.7	16.9				5.0
5.5	16.0	15.4				5.5
6.0	14.4	14.1	14.9			6.0
6.5	13.1	12.9	13.5			6.5
7.0	11.9	11.9	12.4	12.0	10.0	7.0
8.0	9.9	9.7	10.6	10.5	10.0	8.0
9.0	8.3	8.3	9.0	9.0	9.1	9.0
10.0		7.0	7.6	7.8	8.1	10.0
11.0		5.9	6.5	6.7	7.1	11.0
12.0		5.0	5.5	6.0	6.5	12.0
14.0			4.0	4.7	5.0	14.0
16.0			3.0	3.8	4.0	16.0
18.0			2.2	2.8	3.0	18.0
20.0				2.0	2.3	20.0
22.0				1.3	1.6	22.0
24.0					1.1	24.0
Min. boom angle at empty load	0°	0°	30°	36°	41°	Min. boom angle at empty load
Telescoping status (%)						
2nd boom	0	0	0	0	0	2nd boom
3rd boom	0	17	33	50	67	3rd boom
4th boom	0	17	33	50	67	4th boom
5th boom	0	17	33	50	67	5th boom
Rope rate	6	4	4	4	4	Rope rate

Load Chart–Telescopic Boom, On Tires Stationary Unit: metric ton



360° Slewing Radius(m) 12.2 16.5 \cap Radius(m) 4.0 15.5 4.0 4.5 12.9 4.5 5.0 10.4 10.7 5.0 5.5 8.9 9.1 5.5 6.0 7.6 7.9 8.2 6.0 6.3 6.9 7.3 6.5 7.1 6.5 7.0 5.5 6.0 6.3 6.4 6.5 7.0 8.0 4.1 4.6 4.9 5.1 5.2 8.0 9.0 3.0 3.6 3.9 4.1 4.2 9.0 10.0 2.8 3.1 3.3 3.4 10.0 2.1 2.7 11.0 11.0 2.4 2.6 12.0 1.5 1.8 2.0 2.1 12.0 14.0 1.2 1.3 14.0 Min. boom angle at empty load Min. boom angle at empty load 51° 0° 30° 46° 48° Telescoping status (%) 0 2nd boom 0 0 0 0 2nd boom 3rd boom 0 17 33 50 67 3rd boom 33 67 4th boom 0 17 50 4th boom 17 33 50 67 5th boom 0 5th boom Rope rate 6 4 4 4 4 Rope rate



SRC900T Rough - Terrain Crane CALL 1800CRANES

(08) 9459 6212 / 1800CRANES



33 Valencia Way, MADDINGTON WA 6109