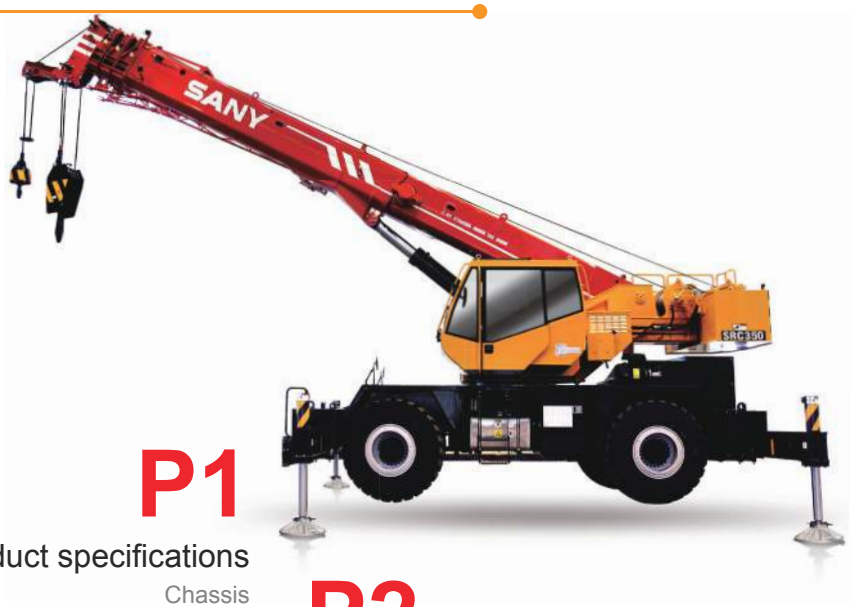
SANY

Quality Changes the World

SANY ROUGH-TERRAIN CRANE
SRC 350

ULTRA-LONG BOOM.
STRONG LIFTING CAPACITY



SPECIFICATIONS/CHASSIS

Frame

Overall welded dual–girder structure, made of high strength steel plate.

Electrical system

24V system voltage, CAN bus.

Outrigger

H–shaped arrangement, full–hydraulic control, and all outriggers are capable of separate action; quickly removable outrigger plate.

Axle

Steering driving axle.

Engine

American Cummins engine QSB6.7 Tier 3: rated power of 119kW at the speed of 2500rpm.
Fuel tank: 300L .

Suspension

Rigid connection of front axle, rear axle locked by pilot suspension oil cylinder.

Transmission system

The electric control hydro–mechanical transmission box is used.

Brake

Dual loop all–hydraulic travelling brake, and parking brake through input flange of front axle.

Wheel and tire

4 wheels with 4 tires in the specification of 20.5R25VLT.

Hydraulic system

Fixed gear pump is used to control the extension of level outrigger and vertical outrigger.

Steering

Adopting the all–hydraulic power steering system which is capable of steering.

SPECIFICATIONS
SUPERSTRUCTURE

Operator's cab

It is arranged on one side of the turntable, and the overall structure is made of corrosion resistant steel plate, the sliding door design and large area inlaid type safety glass are adopted, providing a wide field of vision; using the ergonomic design, it is equipped with full–covered soft inner decoration, with adjustable seat, which enables the operator to work in a comfortable and easy way.

Main boom

Synchronous telescoping lifting boom in hexagonal section; the telescoping mechanism consists of a single cylinder and rope guide, and the balance valve is installed on the cylinder.

Counterweight

4T, suspended installation, fixed on the turntable with bolt.

Hydraulic system

The axial piston variable pump under constant power control of loaded sensory control plus constant power control is used, capable of adjusting rate scale and power adaptation, and it may automatically adjust the oil pump reasonably according to the load conditions, thus utilizing power in a reasonable way. Not only does the rate control not depend on throttling, but also energy waste is reduced.

Main winch

Fixed piston motor and hydraulic brake system are equipped with balance valves; the max. single–rope rate is 140m/min and the steel rope is 165m long.

Aux. winch

Fixed piston motor and hydraulic brake system are equipped with balance valves; the max. single–rope rate is 140m/min and the steel rope is 135m long.

Luffing

Deadweight dropping amplitude control.

Slew

The slewing system consisting of fixed piston motor and decelerator features a max. rotating speed of 2.7r/min.

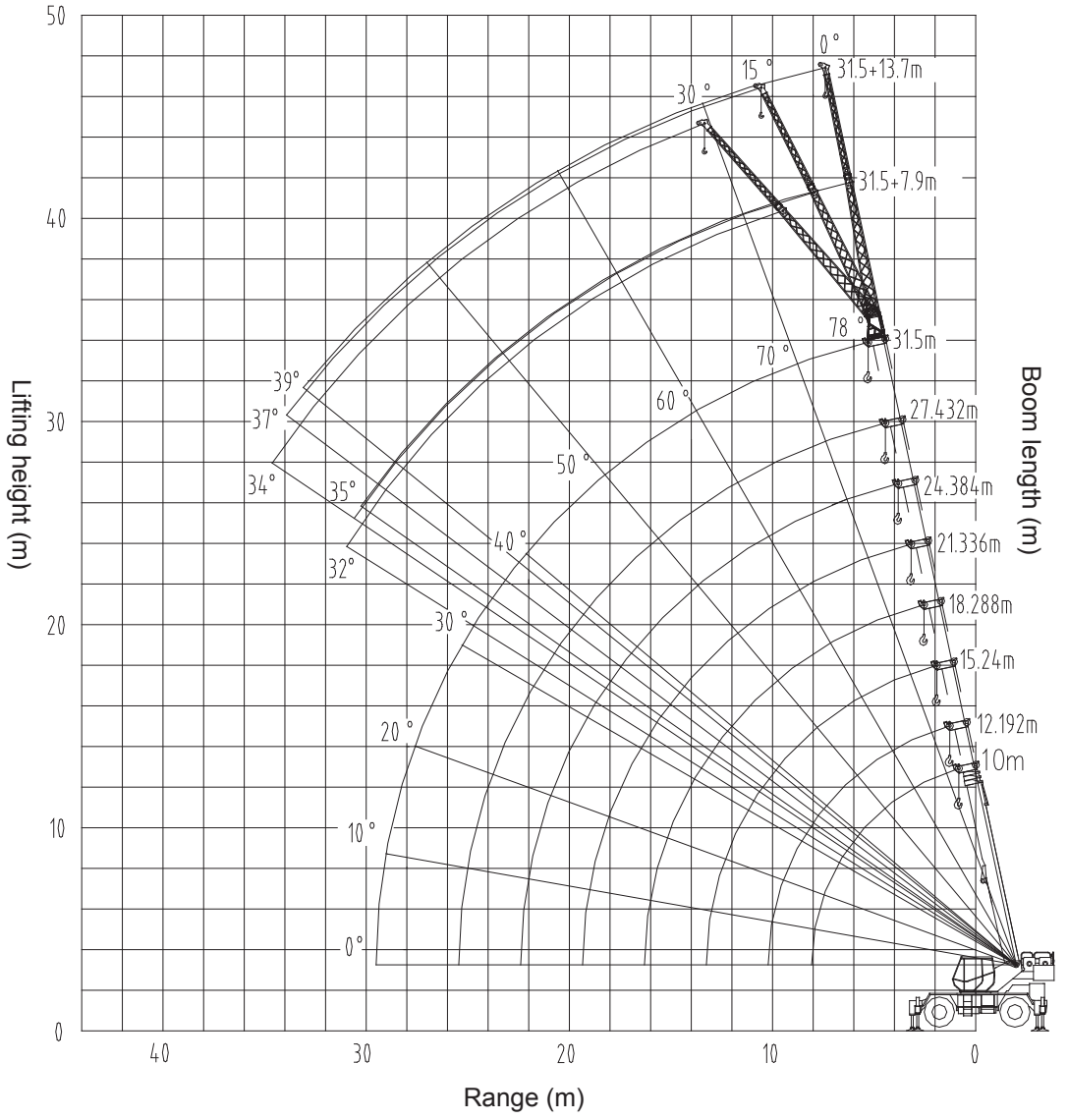
Safety devices

Color LCD displays the parameters, including torque percentage, load of lift hook, rated load, arm length, angle, and lifting height, etc., in a centralized way; the setup of built–in load list and operation parameters of the system is under safety restriction and protection.

TECHNICAL PARAMETERS

Type	Item		Unit	Data
Dimensional parameters	Overall length		mm	12150
	Overall width		mm	2625
	Overall height		mm	3410
	Axle distance		mm	3720
Weight parameters	Overall weight		kg	32300
	Load	Load of front axle	kg	16640
		Load of rear axle	kg	15660
Power parameters	Model of engine			American Cummins QSB6.7 Tier 3
	Rated engine power		Kw/rpm	119/2500
	Max. engine torque		N.m/rpm	732/1500
Traveling parameters	Max. traveling speed		Km/h	40
	Turning radius	Min. turning radius (2/4)	m	12.2/6.2
	Min. ground clearance		mm	350
	Approach angle		°	23.9
	Departure angle		°	23.3
	Max. gradeability		%	75%
Main Performance Data	Max. rated lifting capacity		t	35
	Min. rated amplitude		m	3.05
	Max. lifting torque	Base boom	kN.m	1139
		Fully extended boom	kN.m	743
		Fully extended boom + jib	kN.m	330
	Span of outrigger (transverse × longitudinal)		m	6.15×6.15
	Max. lifting height	Base boom	m	12.9
		Fully extended boom	m	33.9
		Fully extended boom + jib	m	47.4
	Length of boom	Base boom	m	10
		Fully extended boom	m	31.5
		Fully extended boom + jib	m	45.2
	Jib offset		°	0、15、30
Operating speed parameters	Max. single rope lifting speed of main winch (no load)		m/min	140
	Max. single rope lifting speed of auxiliary winch (no load)		m/min	140
	Full extension/retraction time of boom		s	55/39
	Full lifting/dropping time of boom		s	43/57
	Slewing speed		r/min	2.7
	Full extension/retraction time of horizontal outrigger		s	31/31
	Full extension/retraction time of vertical outrigger		s	25/25

SRC350 WORKING RANGES



LOAD CHART FOR MAIN BOOM

(Unit:kg)

Fully extended outrigger 6.15m									
Ranges(m)		Length of boom (m)							
Feet	Meter	10	12.19	15.24	18.29	21.34	24.38	27.43	31.5
10	3.05	35000	22997	22100					
12	3.66	31610	22997	22100	21050				
15	4.575	25400	21954	20000	19000	18432			
20	6.1	18200	16670	16000	15800	14764	14145	10400	
25	7.625	13630	12764	12156	13050	12288	11716	9400	8600
30	9.15		10121	9131	10407	10383	9906	8250	7900
35	10.675			7109	8525	8597	8478	7100	7050
40	12.2			5661	6882	6977	7049	6300	6200
45	13.725				5549	5620	5668	5590	5520
50	15.25				4480	4610	4653	4660	4660
55	16.775					3777	3848	3860	3870
60	18.3					3097	3201	3220	3240
65	19.825						2644	2700	2720
70	21.35						2180	2260	2280
75	22.875							1860	1920
80	24.4							1530	1600
85	25.925								1300
90	27.45								1050
95	28.975								820

LOAD CHART FOR MAIN BOOM

(Unit:kg)

Semi-extended outrigger 4.27m									
Ranges(m)		Length of boom (m)							
Feet	Meter	10	12.19	15.24	18.29	21.34	24.38	27.43	31.5
10	3.05	35000	22997	22100					
12	3.66	30050	22997	22100	21050				
15	4.575	22000	19000	18200	17500	18432			
20	6.1	13600	13650	13700	13900	14100	14145	10400	
25	7.625	8799	9215	9597	9853	10038	10179	8900	8600
30	9.15		6460	6807	7040	7207	7335	7300	7100
35	10.675			5014	5232	5388	5506	5597	5693
40	12.2			3766	3972	4120	4232	4319	4408
45	13.725				3044	3186	3293	3376	3462
50	15.25				2332	2469	2573	2653	2736
55	16.775					1902	2003	2081	2161
60	18.3					1440	1541	1616	1694
65	19.825						1158	1232	1308
70	21.35						837	909	984
75	22.875							634	707
Min. elevation							0°	22°	35°

LOAD CHART FOR MAIN BOOM

(Unit:kg)

No extended boom -2.39m									
Ranges(m)		Length of boom (m)							
Feet	Meter	10	12.19	15.24	18.29	21.34	24.38	27.43	31.5
10	3.05	23600	22700	22100					
12	3.66	15484	16025	16520	16853				
15	4.575	10286	10748	11170	11454	11659			
20	6.1	5933	6329	6690	6932	7106	7239	7341	
25	7.625	3648	4007	4336	4555	4713	4833	4925	5021
30	9.15		2576	2884	3090	3238	3350	3435	3524
35	10.675			1900	2097	2237	2344	2425	2509
40	12.2			1190	1379	1514	1617	1695	1776
45	13.725				836	967	1067	1143	1221
50	15.25					539	636	710	786
Min. elevation					23°	36°	44°	49°	55°

LOAD CHART FOR MAIN BOOM

(Unit:kg)

Traveling under load, over front					
Ranges(m)		Length of boom (m)			
Feet	Meter	10	12.19	15.24	18.29
10	3.05	12315	12202		
12	3.66	10591	10546		
15	4.58	8596	8664	8800	
20	6.10	6214	6441	6577	6600
25	7.63	4581	4876	5058	5080
30	9.15		3607	3910	3987
35	10.68			2689	2883
40	12.20			1824	2011
45	13.73				1362
50	15.25				860

LOAD CHART FOR MAIN BOOM

(Unit:kg)

Tire, 360° slewing					
Ranges(m)		Length of boom (m)			
Feet	Meter	10	12.19	15.24	18.29
10	3.05	10909	10932	10433	
12	3.66	8907	9092	8907	
15	4.58	6917	7053	7303	6305
20	6.10	3962	4255	4472	4472
25	7.63	2188	2525	2833	2953
30	9.15		1402	1693	1888
35	10.68			914	1101
40	12.20				530

LOAD CHART FOR JIB

(Unit:kg)

Ranges(m)	31.5+7.9 Jib offset αA			Ranges(m)	31.5+13.7 Jib offset αA			Ranges(m)
	0°	15°	30°		0°	15°	30°	
78°	3500	2150	1650	78°	2250	1250	900	78°
77°	3300	2100	1600	77°	2150	1200	900	77°
75°	3100	2000	1550	75°	1950	1150	850	75°
73°	2800	1900	1500	73°	1750	1100	800	73°
71°	2600	1800	1400	71°	1600	1050	750	71°
68°	2300	1650	1250	68°	1450	1000	700	68°
66°	2100	1550	1150	66°	1350	950	660	66°
63°	1800	1350	1000	63°	1150	850	600	63°
61°	1500	1200	850	61°	1050	750	550	61°
58°	1100	950	650	58°	650	600	500	58°
56°	700	650	500	56°	500			56°
Min. elevation	32°	34°	35°	Min. elevation	34°	37°	39°	

① The values given in the table are the rated lifting capacities of the crane on an even and solid ground when the crane is in the leveling state. The values above the thick real line in the table are dependent on the strength of crane, and the values below the thick real line are dependent on the stability of crane.

② The operating range in the table refers to the actual range after hoisting.

③ The values of rated loads depending on stability surely follow ISO 4305.

④ The rated lifting capacity in the table includes the weight of lifting hook (the main lifting hook weighs 360kg and auxiliary lifting hook 160kg) and hoisting tools.

⑤ If the actual boom length and range are between two values, the rated lifting capacity determined by the longer boom and the larger range shall be selected for the lifting operation.

Quality Changes the World

SANY GROUP CO., LTD.
Address: SANY Industrial Park, Economic and Technological Development Zone, Changsha, Hunan, China
Service Hotline: +0086-4006-098-318
E-mail: crd@sany.com.cn
For more information, please visit: www.sanygroup.com

B04S2ENAM1-SRC350