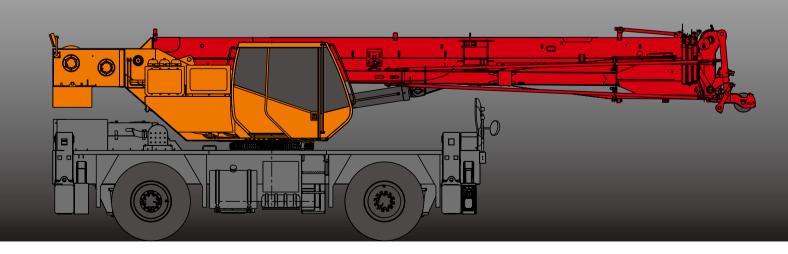
SRC250C ROUGH-TERRAIN CRANE 25 TONS LIFTING CAPACITY

Quality Changes the World







SANY ROUGH-TERRAIN CRANE

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Carrier frame



Suspension system

Telescopic boom



Hydraulic system

Control system











Lattice jibs

Superlift devices

Luffing lattice iib

winch mechanism:





Transmission system





Drive/Steer







Counterweight

Luffing system

Slewing



Safety system





Hoist system



Brakes system

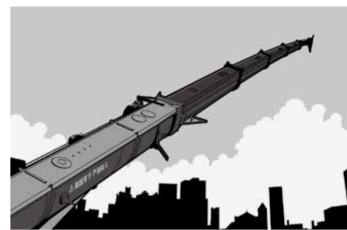


Electrical system



Excellent traveling capacity and highperformance chassis system

Four-wheel drive is applied with full hydraulic power steering system, and with four steering modes to provide good mobility. Trafficability and comfortableness of the complex road condition is improved thanks to its Min. turning radius of less than 5.5m.



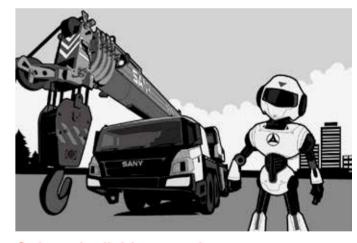
Ultra long and super strong boom system

Four-section boom with high strength steel structure and optimized U-shaped section, reducing weight and improving safety significantly. Jib mounting angles are 0°, 15°, and 30° which ensure fast and convenient change-over between different operating conditions so as to improve working efficiency of the machine.



Highly effective and original hydraulic system

Hydraulic system load feedback and constant power control is applied to provide strong lifting capacity and good micromobility. Unique steering buffer design guarantees smooth braking operation.



Safe and reliable control system

Self-developed controller SYMC specially for engineering machinery is configured. The application of CAN-bus fully digital network control technology ensures stable control signal, simple harness and high reliability. It can feedback the data information and monitor the working condition of whole crane in real-time. Load moment limiter configuring with comprehensive intelligent protection system is adopted with precision within 0-10%. The adoption of comprehensive logic and interlock control system ensures more safe and reliable operation.





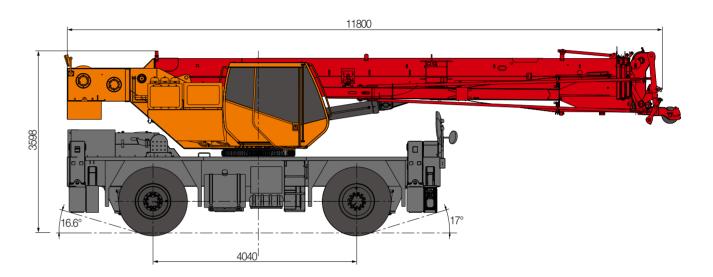
Introduction @ Cab ■ The self-made cab adopts ergonomic design with sliding door, safety glass, anti-corrosion steel, soft interior decoration, large interior space, panoramic sunroof and adjustable seats, air conditioner and electric window wiper etc. to provide easier and more comfortable operation. Meticulously designed industrial style and novel appearance are applied for cab. Load moment limiter display is configured to achieve the combination of main console and operating display system, making all operating condition data of lighting operation clear at a glance. **♦** Hydraulic system ■ High-quality key hydraulic components such as main oil pump, rotary pump, main valve, winch motor, and balancing parts etc. are adopted to achieve stable and reliable operation of the hydraulic system. Superior operation performance is guaranteed by accurate parameter matching. ■ Through the adoption of load sensitive variable displacement piston pump, pump displacement can be adjusted in real-time, achieving high-precision flow control, with no energy loss during operation; ■ Main valve has flow compensation and load feedback control function. It significantly enhances control stability for single action and combined action under different operation ■ Winch adopts electronically controlled variable motor, to ensure high operation efficiency. Max. single line speeds of main and auxiliary winches is up to 125m/min; ■ Slewing system is equipped with the integrated slewing buffer valve, with free slipping function, to ensure more stable starting and control of the slewing operation and excellent micro-mobility. ■ Hydraulic oil tank capacity: 570L. Control system ■ CAN-bus instrument: CAN-bus instrument with a combined intelligent control electrical system is used for easy reading of the traveling parameters at any time. Engine fault warning function enables convenient and fast maintenance. ■ With full security protection system, main and auxiliary winches are equipped with overroll out limiter and height limiters to prevent over-rolling out and over-hoisting of steel rope, including tip-over and limit angle protection. ■ Load moment limiter: The adoption of highly intelligent load moment limiter system can comprehensively protect lifting operation, ensuring accurate, stable and comfort operation. ■ The fault diagnosis system can detect superstructure electricity, hydraulic action, chassis (for major safety failure), engine and gearbox for fault to ensure reliable operation of the crane. Telescopic system ■ Four-section boom is applied with basic boom length of 9.9m, full-extended boom length of 31.5m, jib length of 12.5m and lifting height of fully extended boom length of 32.5m respectively. Max. lifting height is 45m including jib. It is made of fine grain high-strength steel, with U-shaped cross section and with telescopic operation controlled independent by double cylinder rope. Luffing system ■ Dead-weight luffing provides more stable luffing operation at low energy loss. Dual-action single piston hydraulic pressure cylinder with safety valve is adopted. ■ Luffing angle range is -3° ~ 80°.

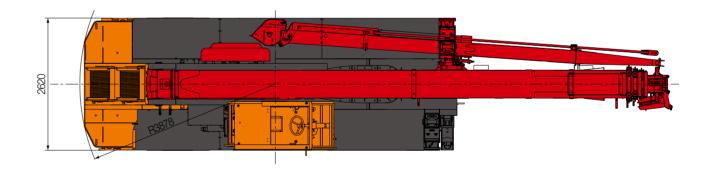
	Introduction
Slewing system	■ 360° rotation can be achieved, with Max. slewing speed of 2.5r/min. Hydraulic controlled proportional speed adjustment is applied, providing stable and reliable operation of the system. Unique slewing buffer design ensures more stable braking operation.
Counterweight	■ The total weight of fixed counterweight is 1000kg, no flexible counterweight.
Safety system	 Load moment limiter: Load moment limiter calculation system based on lifting load mechanical model is established using an analytical mechanics method, with rated lifting accuracy up to 0-10% through on-line non-load calibration, providing full protection to lifting operation. In case of overload operation, system will automatically issue an alarm to provide safety protection for manipulation. Balance valve, overflow valve, and two-way hydraulic lock etc. components are configured for hydraulic system, thus achieving stable and reliable operation of the hydraulic system. Main and auxiliary winches are equipped with over roll-out limiter, to prevent over rolling-out of wire rope. Boom and jib ends are equipped with height limiters respectively to prevent over-hoisting of wire rope. Boom head is equipped with anemometer, press sensor, to indicate the working condition of whole crane in real-time, giving an alarm and cut off the dangerous action automatically.
Hoist system	 The adoption of pump and motor double variable speed control ensures high efficiency and excellent energy saving functionality. With perfect combination of winch balance valve and unique anti-slip technology, heavy load can lift and lower smoothly. Closed winch brake and winch balance valve effectively prevent imbalance of the hook. High strength, anti-swirl steel wire is equipped for high-precision hoisting positioning. Equipped with one 320kg main hook and one 85kg auxiliary hook, and Main and auxiliary hook steel rope diameters are 16mm, the rope length is 175m and 105m respectively.
Carrier frame	Carrier frame is of box-type structure that is welded with high-strength steel plate, featuring high lifting capacity.





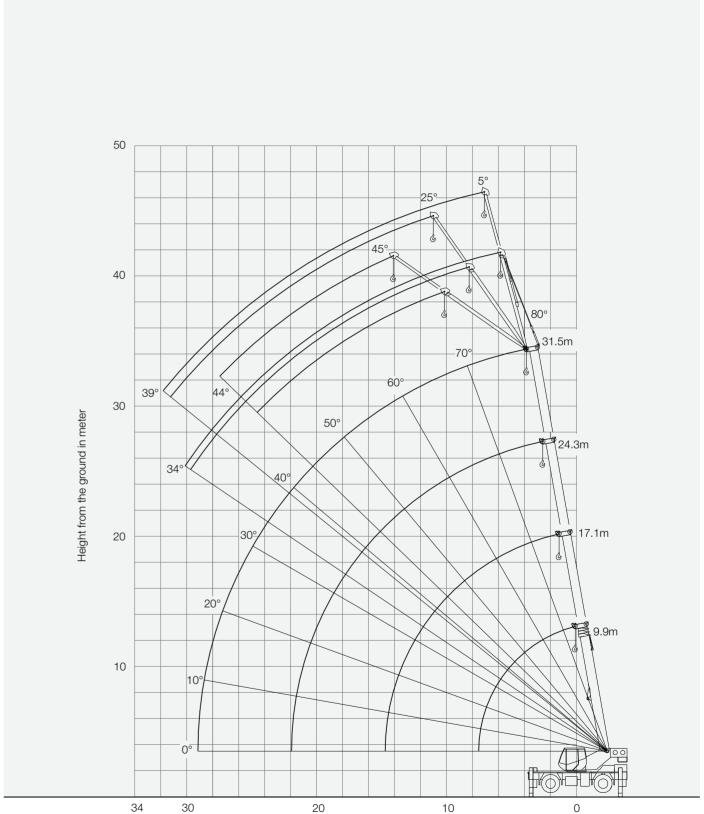
	Introduction
• Outriggers	■ H-type outrigger structure and 4-point support is adopted, with Max. span up to 6.7m×6.5m. Featuring easy operation and high stability. Fine grain high strength steel material is adopted and dual-direction hydraulic lock is used for the protection of vertical span cylinder.
Engine	 Type: Inline six-cylinder, water cooled, supercharged and inter-cooling diesel engine Rated power:154kw/2200r/min Environment-protection: Emission complies with StateIII standard Capacity of fuel tank: 300L
Transmission system	 Transmission case: Manual/Automatic transmission case. There are six gears in gearbox. The speed ratio range is large which meets the requirements of low gradeability speed and high traveling speed. Transmission shaft: With optimized arrangement of the transmission shaft, the transmission is stable and reliable.
1-1 Drive/Steer	4x4 drive way is adopted, full hydraulic power steering is applied, having front wheel steering, rear wheel steering, four-wheel steering and crab traveling modes.
Axles	■ Front and rear axles are all slewing drive axles.
Tyres	■ 4*—14.00R25
O Brakes system	 Double-circuit braking system is adopted, if one circuit fails, the other circuit can ensure normal operation, thus improving the safety and reliability of brake system. Traveling brake: all wheels use the unique slewing brakes and dual-circuit brake system and are equipped with drum brakes. Parking brake is drum brakes equipped on the front axle export flange.
Electrical system	■ With 2*12V maintenance-free battery and mechanical power main switch, power of the whole machine can be cut off manually.





Туре	Item		Parameter	
Capacity	Max. lifting capacity		25 t	
	Overall length		12155 mm	
D	Overall width		2620 mm	
Dimensions	Overall height		3600 mm	
	Axle distance		4040 mm	
	Overall weight		27945 kg	
Weight		Front axle load	14000 kg	
	Axle load	Rear axle load	13945 kg	
	Rated power	1	154 kW/ 2200 rpm	
Engine	Rated torque		800 N.m/ 1400 rpm	
	Max.traveling speed		40 km/h	
	Turning radius	Min.turning radius	8.5 /5.5 m	
	Wheel formula	3 22 2	4×4	
Traveling	Min.ground clearance		350 mm	
0	Approach angle		17 °	
	Departure angle			
	Max.gradeability		55%	
	Temperature range		-20 ° ~ +46 °	
	Min.rated range		3 m	
	Tail slewing radius of swingtable		3.841 m	
	Boom section		4	
	Boom shape		U-shaped	
Main Performance		Base boom	968kN·m	
Data	Max.lifting moment	Full-extend boom	605kN·m	
		Full-extend boom+jib	243 kN·m	
		Base boom	9.9 m	
	Boom length	Full-extend boom	31.5 m	
		Full-extend boom+jib	44 m	
	Outrigger span (Longitudinal×Tra	insversal)	6.7 × 6.5 m	
	Jib offset			
	Max.single rope lifting speed of r	nain winch (no load)	125 m/min	
	Max.single rope lifting speed of a	125 m/min		
Working speed	Full extension/retraction time of b	ooom	65 / 40 s	
	Full lifting/descending time of bo	Full lifting/descending time of boom		
	Slewing speed	2.5 r/min		
Air condition	Superstructure	Cooling		

SRC250C Working Ranges



Operating radius in feet from axis of rotation(meter)

- Prerequisites:
 1 Boom operating conditions:9.9m-31.5m
 2 The span of outriggers is 6.7m×6.5m
 3 360°rotation is applied
 4 Counterweight is 1T

Working range (m)		Main E	Working range (m)		
working range (m)	9.9	17.1	24.3	31.5	- working range (m)
3	25.00				3
3.5	25.00	19.00			3.5
4	23.00	19.00			4
4.5	21.20	18.00			4.5
5	19.40	16.70	12.50		5
5.5	17.80	15.60	11.75		5.5
6	16.30	14.60	11.10		6
6.5	15.20	13.80	10.50	7.00	6.5
7	13.70	13.00	10.00	7.00	7
8		11.00	9.00	7.00	8
9		8.90	8.20	6.30	9
10		7.40	7.60	5.80	10
11		6.10	6.70	5.30	11
12		5.20	5.70	5.15	12
13		4.40	5.00	4.70	13
14		3.70	4.30	4.30	14
15			3.70	4.00	15
16			3.30	3.60	16
17			2.90	3.20	17
18			2.50	2.80	18
19			2.20	2.50	19
20			2.00	2.30	20
21			1.80	2.00	21
22				1.80	22
24				1.45	24
26				1.20	26
28				1.00	28
Min angle (°)	0.00	0.00	0.00	0.00	Min angle (°)
Parts of line	8	6	4	3	Parts of line

- Prerequisites:

 ① Boom operating conditions:9.9m-31.5m
 ② The span of outriggers is 6.7m×5m
 ③ 360°rotation is applied
 ④ Counterweight is 1T

Working range (m)	9.9 25.00 25.00	17.1	oom(m) 24.3	31.5	Working range (m)
3	25.00		24.3	31.5	vvorking range (iii)
					Working range (iii)
	25.00				3
3.5		19.00			3.5
4	23.00	19.00			4
4.5	21.20	18.00			4.5
5	18.60	16.70	12.50		5
5.5	15.50	15.20	11.75		5.5
6	12.90	12.70	11.10		6
6.5	10.80	10.90	10.50	7.00	6.5
7	9.30	9.50	10.00	7.00	7
8		7.40	8.20	7.00	8
9		5.90	6.60	6.30	9
10		4.80	5.50	5.60	10
11		4.00	4.60	4.80	11
12		3.30	3.90	4.10	12
13		2.70	3.30	3.50	13
14			2.85	3.00	14
15			2.40	2.60	15
16			2.00	2.20	16
17			1.70	1.90	17
18			1.50	1.60	18
19			1.30	1.40	19
20				1.20	20
Min angle (°)	0.00	0.00	25.00	43.00	Min angle (°)



- Prerequisites:
 1 Boom operating conditions:9.9m-31.5m
 2 The span of outriggers is 6.7m×3.6m
 3 360°rotation is applied
 4 Counterweight is 1T

Morling range (m)		Modine were (m)			
Working range (m)	9.9	17.1	24.3	31.5	Working range (m)
3	25.00				3
3.5	20.00	19.00			3.5
4	14.70	15.70			4
4.5	11.40	12.60			4.5
5	9.10	10.20	10.70		5
5.5	7.50	8.50	8.90		5.5
6	6.20	7.20	7.60		6
6.5	5.20	6.20	6.50	6.70	6.5
7	4.40	5.30	5.70	5.80	7
8		4.10	4.40	4.60	8
9		3.20	3.50	3.60	9
10		2.50	2.80	2.90	10
11		1.90	2.20	2.40	11
12		1.50	1.80	1.90	12
13		1.10	1.40	1.50	13
14			1.10	1.20	14
15				1.00	15
Min angle (°)	0	20	42	55	Min angle (°)

- Prerequisites:

 ① Boom operating conditions(fully extended boom length+jib length), max.length is 31.5m+7.7/12.5m
 ② The span of outriggers is 6.7m×6.5m
 ③ 360°rotation is applied
 ④ Counterweight is 1T

Working angle (°)		7.7			12.5			Working angle (°)	
	Working angle ()	5	25	45	5	25	45	working angle ()	
	80	3000	2100	1600	2000	1200	800	80	
	76	3000	2100	1600	2000	1200	800	76	
	72	3000	2100	1600	1750	1100	800	72	
	70	2800	2100	1600	1650	1050	800	70	
	65	2350	1800	1500	1400	950	780	65	
	60	2000	1550	1350	1200	900	750	60	
	55	1450	1350	1200	1050	850	740	55	
	50	1050	1000	950	850	750	700	50	
	45	750	700	650	600	550	500	45	
	40	550	500		400	400		40	
	35	350	320					35	
	Min. angle(°)	34.00	34.00	44.00	39.00	39.00	44.00	Min. angle(°)	





Prerequisites:

- ① Boom operating conditions:9.9-24.3m
- 2 With tyre static lifting load
- 3 Front and 360° rotation is applied
- 4 Counterweight is 1T

Darding (m)	9	.9	17.1		24.3	De dive (m)
Radius (m)	FRONT	360°	FRONT	360°	FRONT	Radius (m)
3.5	12.5	5.8				3.5
4	11	4.3	7.5	5.2		4
4.5	9.8	3.2	7.5	4.1	6	4.5
5	8.5	2.4	6.8	3.2	5.8	5
5.5	7	1.8	6	2.6	5.3	5.5
6	5.8	1.3	5.4	2.1	4.8	6
6.5	5		4.8	1.6	4.4	6.5
7			4.2	1.3	4	7
8			3.3		3.4	8
9			2.6		2.9	9
10			2.1		2.5	10
11			1.7		2.1	11
12			1.4		1.8	12
13					1.5	13
14					1.25	14

Prerequisites:

- ① Boom operating conditions:9.9-24.3m
- 2 Creep (traveling with load),1.6km/h
- 3 Front side only
- 4 Counterweight is 1T

Dadius (m)	9.9	17.1	24.3	Doding (m)
Radius (m)	FRONT	FRONT	FRONT	Radius (m)
3.5	8			3.5
4	7.2	6		4
4.5	6.6	6	4.4	4.5
5	6	5.6	4.4	5
5.5	5.4	4.9	4.1	5.5
6	4.6	4.4	3.8	6
6.5	4	3.9	3.5	6.5
7		3.5	3.3	7
8		2.7	2.8	8
9		2.1	2.3	9
10		1.7	1.9	10
11		1.3	1.6	11
12		1	1.3	12
13			1.1	13
14				14
15				15

TRUCK CRANE



STC200 Maximum Load Capacity 20t Telescopic Boom: 4 Sections, 10.6-33m



Maximum Load Capacity: 30t feloroopic Boons: 5 Sections; 10:5-39:5m



Maximum Lead Capacity: 80t Telescopic Boon: 5 Sections, 12 2-47m



STC1300C







Maximum Load Capacity, 100t Telescopic Boom: 5 Sections, 13:5-52m



STC1600



STC250H Missinum Lond Capacity, 256
Telescopic Boxin: 5 Sections, 10.5-39.5m



Maximum Load Capacity: 55t Telescopic Booth: 5 Sections, 11.5 43m



STC1000C Meximum Lord Capacity 100t Telescopic Boom: 6 Sections, 13:25-60m



STC1000S Mudmum Lord Capacity: 100t Telescopic Boom 5 Sections, 12:26-56m

STC600S



STC300TH Misimum Load Capacity 308
Telescopic Boom: 4 Sections, 10.6-33.5m



Maximum Load Capacity, 75t. Talapoopic Boom: 5 Sections, 11.8 45m.



STC1200S Minimum Load Capacity: 120t Telescopic Boont: 7 Sections, 12 6-63.5m



STC2200 Maximum Load Capacity: 220t Totalogaic Rooms 6 Sections, 14:35-58:si

ALL TERRAIN CRANE



SAC1800 Monthum Load Capacity, 180t Telescopic Boom, 6 Sections, 13.5-62m



SAC2200 Motimum Load Capacity: 270 Tolescopic Boom: 6 Sections, 13.5-62m



SAC2600 Maximum Load Capacity: 2501 Intercopic Boom 6 Sections, 15:65-73m



Mostman Load Capacity: 3001 Telescopic Boom 7 Sections, 15.4 80m



Maximum Land Capacity: 3501 Rescapic Boom 6 Sections, 15-2-70m



SAC8000 Maximum Load Capacity 6001 Telescopic Boom, 7 Sections, 17.1-90m

ROUGH-TERRAIN CRANE



Maximum Load Capacity, 254 Telescopic Boom: 4 Sections, 9.9-31.5m



Meximum Load Capacity, 35t Telescopic Boom: 4 Sections, 10-31.5m



Miximum Load Capacity 55¢ Telescopic Boons 4 Sections, 11:25-34.5m



Maximum Lond Capacity: 55t Telescopic Boom: 5 Sections, 11.5-43mi



Maximum Load Capacity, 75t Telescopic Boom: 5 Sections, 11.8-45m



Maximum Load Capacity 120f Telescope: Boore 5 Sections, 13-48m

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