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شركة محمد عبدالله العريض المحدودة
Mohammad Abdullah Al Areeedh Ltd. Co.



SANY ROUGH-TERRAIN CRANE SRC 550H

ULTRA- LONG BOOM. STRONG LIFTING CAPACITY



P1

Product features
Chassis

P2

Product features
Superstructure

P3

Technical parameters

SPECIFICATION/CHASSIS

Frame

High-strength steel torsion-resistant box structure.

Electrical system

24V system voltage, CAN bus.

Outrigger

Four all-hydraulic H-shaped outriggers. Fully extended span 7.2m, semi-extended span 5m, and non-extended span 3.1m.

Suspension

The rear axle with cylinder locking device in swung suspension, and the front axle with rigid support

Engine

Six-cylinder line water-cooled Cummins diesel engine, with a displacement of 6.7L. The rated power is 186kw (250 horsepower) when the rotating speed is 2500rpm; and the torque is 987N.m when the rotating speed is 1500rpm. The volume of oil tank is 305L.

Wheel and tire

4 wheels, tire specification 29.5R25.

Transmission system

Power shift automatic transmission, and separated hydraulic torque converter; 6 forward gears, 6 reverse gears; with high-low speed switching mode, the low speed mode is four-wheel drive, and the high speed is two-wheel drive

Steering

All-hydraulic power steering system with four modes: front wheel steering, rear wheel steering, four-wheel steering, and crab motion.

Axle

The front and rear steering driving axles with planet gear mechanisms.

Brake

four-wheel all-hydraulic and caliper disk traveling brake; disk parking brake.

SPECIFICATION SUPERSTRUCTURE

Operator's room

Frame-type steel structure body, sliding door design, large area inlaid type safety glass, super-large inner space, extra wide manipulation field of vision. 10.4-inch large screen TFT display. Adjustable steering wheel. Adjustable high-back seat, left and right armrests, integrated operating handle, heating and cooling air conditioner. Front top window equipped with windscreen wiper.

Hydraulic system

Tandem constant delivery pump, tandem piston variable displacement pump, system flow rate 443lpm. Load feedback, constant power control. Standard full-flow high-pressure hydraulic oil filter. Volume of hydraulic oil tank 680L, external oil level gauge, and standard hydraulic oil cooler

Hoist

Mutually independent main and auxiliary lifting mechanisms, planet gear deceleration mode of two-point variable displacement piston hydraulic motor drive. High- and low-speed self adaptive control of winch. The reel had the dual-polyline cast rope groove. Spring brake, multi-disk brake of hydraulic release. Anti-rotation high strength wire rope, with the diameter of 19mm

Slewing device

hydraulic motor drive planet gear reducer. Multi-disk slewing brake, pedal brake in control chamber

Luffing device

double-acting hydraulic luffing cylinder. Luffing range: -2° - $+78^{\circ}$

Boom

five booms, high strength steel plates, hexagon section. Stretching range: 11.5m-42.5m, maximum lifting height: 43.8m

Safety device

boom extension balance valve, lifting balance valve, luffing cylinder balance valve, vertical cylinder bidirectional hydraulic lock; slewing mechanism cushion valve, turntable device; lifting height limiter; 3-circle protection device; independently developed load moment limiter, touch screen graphic display. Real-time display of operating radius, boom elevation angle, boom length, rated load, actual load, and moment percentage. Function of automatic alarm

TECHNICAL PARAMETER

Type	Item	Unit	Parameter	Type	Item	Unit	Parameter	
Dimensional parameters	Overall length	mm	14000	Quality parameter	Overall weight	kg	44420	
	Overall width	mm	3300		Load of front axle	kg	24580	
	Overall height	mm	3760		Load of rear axle	kg	19840	
	Axle distance	mm	4000		Model of engine	Cummins	QSB6.7	
	Wheel distance	mm	2502		Rated engine power	kw/rpm	186/2500	
Traveling parameters	Max. traveling speed	km/h	40		Rated engine torque	N.m/rpm	987/1500	
	Min. turning radius (2 wheels/4 wheels)	m	12.3/6.7		Reference standard of emission	Tier 3		
	Min. ground clearance	mm	350		Max. rated lifting capacity	t	55	
	Approach angle	°	23		Min. rated amplitude	m	3	
	Departure angle	°	20		Max. lifting moment	Base arm	kN.m	1789
	Braking distance (20km/h)	m	6.5			Fully extended boom	kN.m	841
	Max. gradeability	%	75		Span of outrigger (transverse X longitudinal)	m	7.2 × 7.2	
Oil consumption/ 100km	L	60	Base boom		m	13.3		
Operating speed parameters	Max. lifting speed of single rope of main winch (no load)	m/min	150		Lifting height	Fully extended boom	m	43.8
	Max. lifting speed of single rope of auxiliary winch (no load)	m/min	150	Fully extended boom + jib		m	60.1	
	Full extension/retraction time of boom	s	120/100	Basic boom	m	11.5		
	Raising/dropping time of boom	s	75/55	Length of boom	Fully extended boom	m	42.5	
	Max. slewing speed	r/min	2.6		Fully extended boom + jib	m	58.5	
	Full extension/retraction time of horizontal outrigger	s	35/30	Jib offset	°	0/15/30		
Full extension/retraction time of supporting cylinder	s	40/35						

LOAD CHART FOR MAIN BOOM

(Unit : Kg)

Radius (m)	On fully extended outriggers 7.2m , 360°						
	11.5	15.4	19.25	27	34.75	38.62	42.5
3	55000	40000	32000				
3.5	50000	40000	32000				
4	42800	40000	32000				
4.5	40000	36000	31000	21000			
5	36500	33200	29000	21000			
5.5	32000	30000	27500	21000			
6	27700	27500	25700	21000	14000		
6.5	25000	25500	23900	19500	14000		
7	22500	23200	21500	18000	14000	11500	
7.5	21400	21200	18600	16800	13500	11500	
8	19000	19500	16800	15800	12700	11000	9000
9	15300	15000	13500	14000	11700	10500	8500
10		11700	10300	12000	10700	10000	8500
11		9500	8700	9900	8900	9000	7800
12		7700	7200	8300	8300	8000	7000
14			4900	5900	6200	6300	6000
16			3400	4300	4700	4900	5200
18				3100	3600	3800	4200
20				2200	2800	2900	3100
22				1600	1900	2200	2500
24				1100	1500	1700	1800
26					1000	1200	1350
28					910	1000	1085
30					720	810	885
32							720
Min. elevation	/	/	/	/	20°	35°	38°
Number of lines	10	10	8	6	4	4	3

① The values of lifting capacities in the table are the maximum lifting capacities that can be ensured by the crane on a even and solid ground; the values above the thick line in the table are dependent on the strength of crane, and the values below the thick line is dependent on the stability of crane.

② The lifting capacities in the table include the weight of lifting hooks and lifting appliances.

③ The operating range in the table is the actual value including the distortion of lifting arm.

LOAD CHART FOR JIB

(Unit : Kg)

Angle	42.5m+9.2m Jib offset			42.5m+16m Jib offset		
	0°	15°	30°	0°	15°	30°
78°	3500	2400	2000	2400	1450	1000
77°	3200	2300	1900	2400	1400	1000
75°	3000	2200	1800	2300	1300	950
73°	2700	2000	1700	2000	1200	850
71°	2500	1800	1600	1800	1100	850
68°	2200	1700	1400	1500	1000	800
66°	2000	1500	1300	1300	950	760
63°	1800	1400	1100	1100	850	720
61°	1500	1200	950	950	750	650
58°	1100	950	750	650	600	550
56°	700	650	550	500		
Min. elevation	55°					

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For our consistent improvement in technology, specifications may change without notice.
The machines illustrated may show optional equipment which can be supplied at additional cost.

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