

SRC400T Rough - Terrain Crane CALL 1800CRANES

Main boom length: 10~31.5 m Max lifting torque: 1175 KN.m Max gradability: 105%(at stall)

(08) 9459 6212 / 1800CRANES

SANY

11. × 11

33 Valencia Way, MADDINGTON WA 6109

Excellent lifting performance

- The full extension length of the main boom is 31.5 m, and the height from the ground is 33.9 m, showing a leading position in the industry;
- The maximum load moment of basic boom is 1175 kN.m, and that of the full extension boom is 755 kN.m, showing strong loading capacity;
- With four U-type main booms, and single cylinder and rope extension mechanism, it is stable and efficient;
- With the installation angle for jibs as 0°, 15° and 30°, it is convenient for condition switching and provides high operation efficiency.

Mobile and flexible carrier

- With four-wheel drive, the maximum traveling speed is 37 km/h, and the maximum gradient is 105% (at stall), showing excellent dynamic performance.
- With 4 steering modes such as front wheel steering, rear wheel steering, four wheel steering and crab steering, it is good in maneuvering characteristics.

Efficient and energy-saving system

- Load feedback, constant-power control piston pump and electric proportional control multi-valve system ensure the control precision and energy efficiency.
- The dual-pump converging/dividing technology achieves the composite brake cylinder, ensuring the smooth operation and efficient inching.

Safe control system

- signals are stable.
- operation is protected omnidirectionally.
- safe and reliable operation is realized.

Comfortable manipulation experience

- parameters at ease.

SANY

With independently researched and developed SYMC controller and CAN busbar technology,

With intelligent protection toque limiter with the accuracy within 0-10%, suspending and loading

With comprehensive logic and interlock control and cutting off dangerous action automatically,

With integrated intelligent control busbar instrument, drivers can grasp running and driving

With spacious ladder stand and barrier-free table, etc., maintenance and use are easy.

With electric control handle, panoramic glass sunroof, adjustable seats and other humanization design, it is relaxing and comfortable for operation.





Overall Dimensions

Technical Parameters



2092 2625

Classification	Item		Unit	Parameter
	Overall length	Overall length		12200
Dimension Parameter	Overall width		mm	2625
	Overall height		mm	3575
	Overall weight		kg	30900
Weight parameters	Lood	Front axle load	kg	15300
	LOAU	Rear axle load	kg	15600
	Engine model	·	DF Cummins QSB6.7 119	9kw Tier 3
Power parameters	Rated power of engine		Kw/r/min	119/2500
parameters	Rated torque of engine		N.m/r/min	730/1500
	Maximum traveling speed (n	io load)	Km/h	37
	Minimum turning radius (4 v	wheels)	m	12.2/6.2
Traveling	Approach angle		0	≥23.3
parameters	Departure angle		0	≥23.1
	Max.grade ability (at stall)		%	105
	Fuel consumption per hundr	ed kilometers	1	≤52
	Max.single rope lifting speed	d of main winch (no load)	m/min	130
Marking	Max.single rope lifting speed	d of auxiliary winch (no load)	m/min	130
speed	Full extension/retraction time	e of boom	S	36/43
parameters	Full lifting/descending time of	of boom	S	50/60
	Slewing speed		r/min	0-2.8
	Max. rated lifting capacity		t	40
	Tail slewing radius of swingt	able	m	3.74
Main performance parameters	Marco 1 (friendermanne	Base boom	kN.m	1175
	Max. Litting torque	Full-extended boom	kN.m	755
	Outrigger span (transverse ×	longitudinal)	m	6.15 × 6.15
		Basic boom	М	10
	Crane boom length	Maximum main crane boom	m	31.5
		Maximum main crane boom + jib		45.2

Technical Parameters

Axle Load

Shaft	Front axle	Rear axle	Total weight	
Axial load/t	15.3	15.6	30.9	
Note	main and auxiliary hooks are not provided.			

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Lifting hook and multiplying power

Rated load/t	Quantity of pulley	Multiplying power	Weight of lifting hook/kg
40	4	8	320
5.9	-	1	160

Standard Equipment

Number	Name	Number	Name
1	Engine	14	Telescope balance vlave
2	Gear box	15	Swing buffer valve
3	Front axle assembly	16	Telescope cylinder
4	Rear axle assembly	17	Luffing cylinder
5	Torque converter radiator	18	Cab
6	Tire	19	Air condition system
7	Piston pump	20	Swing bearing
8	Gear pump	21	Swing reducer
9	Main valve	22	Hoisting reducer
10	Hositing motor	23	Main hook
11	Swing motor	24	Auxiliary hook
12	Luffing balance vlave	25	Motion controller
13	Hoisting balance vlave		

Crane Introduction

Operato Cab	 With independently researched and developed er design, safety glass and corrosion resistant stee glass sunroof, adjustable seats and other humaniz relaxing for operation; moment limiter display scr operation and display system and provides open-a
Hydrauli system	 Reliable pumps, main valves, motors, balance whydraulic system, and the system has high reliabil accurate parameter matching. With load sensitive variable plunger pump, it can control with high accuracy to realize accurate acti With electric proportion control main valve used and accurate control of single action and combine Electric control variable motor is used for winch, of auxiliary winch reaches 130 m/min. With integrated rotary buffer valve used, it has outstanding micro-moving performance. The capacity of hydraulic oil tank is 530 L.
Control system	 Import electric control operation handle and bus good operation and control, high reliability and eas Busbar instrument: with the busbar instrument running and driving parameters at ease at any time maintenance and troubleshooting. All-around safety protection system, and wire reauxiliary winch to avoid overfall and overwind of a Moment limiter: high intelligent moment limiter i ensure accurate, steady and comfortable operatio Fault diagnosis system is used to test faults of lift transmission and other faults to further ensure reliability.
Telescop boom	 There are 4 booms, the basic boom is 10 m, the from the ground of main boom is 33.9 m, and th strength welding structure steel, with U section and
Luffing system	 Double-acting single piston pole hydraulic cylin balance valve has flow compensation function, v falling speed. Luffing angle: -2°-78°.
Slewing	 With 360° rotating, the maximum rotation speed showing stable action and reliable system. Wit outstanding operation and control performance.
Counter	eight • The fixed counterweight is 4,000 kg.
Safety device	 Moment limiter: a moment limiter calculation sy mechanics, and the rated loading accuracy is 0-1 operation in all dimensions; during overload oper guarantee for control and operation. Hydraulic balance valve, overflow valve, two-warealize stable and reliable hydraulic system. Wire rope safety device is equipped for main and

Quality Changes the World

Technical Specifications

ergonomics design of Sany, frame type steel structure body and sliding door el plate, full-covered soften interior, superlarge internal space, panoramic ization design, air conditioner and electric wiper, it is more comfortable and creen is equipped, which realizes organic combination between console and -and-shut data of all conditions during hoisting.

valves and other key hydraulic elements of high quality are used for the ility; moreover, it has excellent operation and control performance based on

n adjust displacement of oil pumps based on self-adaption and realize flow tion control and reduce the energy loss greatly;

d and flow compensation and load feedback functions, it can realize stable ned actions easily in all conditions;

, so high operation efficiency is ensured; the maximum speed of single rope

s free trackslip function to realize steady rotary start and control, showing

sbar connection are used for electric control operation system, so it shows easy maintenance and diagnosis.

t of integrated intelligent control electrical system, drivers can grasp the ne; moreover, it has engine fault prompt function, bringing in easy and rapid

rope safety device and height limiting stopper are equipped for main and wire rope; rollover protection and limit angle protection are provided;

is used to protect suspending and loading operation in all dimensions and on;

ifting electrical, hydraulic action, chassis (for major safety accident), engine, eliable operation of the crane.

e full extension boom is 31.5 m, the jib is 13.7 m, the full extension height the maximum height from the ground with jib is 47.4 m. It is made of high and is in single cylinder rope extension mode.

nder, with safety balance valve is used. With dynamic falling system, the which solves greatly problems of slow falling with large angle and uneven

d is 2.8 r/min. Speed is governed through electric proportion control mode, th unique rotary buffer design, it can realize steady start and stop, with

system based on Gravity model is established with the method of analysis 10% through online no-load calibration to protect suspending and loading peration, the system will alarm and prompt automatically to provide safety

ay hydraulic lock and other elements are provided for hydraulic system to

Wire rope safety device is equipped for main and auxiliary winch to avoid overfall of wire rope
 Height limiting stopper is equipped for main and auxiliary winch to avoid overwind of wire rope.

Crane Introduction

Boom Operating Range

noisting	 With pump and motor double variable speed governing, the speed has wide governing range, which is efficient and energy-saving. Winch balance valve is perfectly integrated with the unique anti-slip technology, thus weight can be lifted and dropped steadily. Anti-rotation wire rope of high strength is equipped, bringing in accurate lofting location. Normally-closed winch brake and winch balance valve are provided to avoid weight loss during hook-falling. 1 main hook: 320 kg; 1 auxiliary hook: 160 kg. Wire rope of main winch: diameter and length of wire rope: 16 mm and 165 m; Wire rope of auxiliary winch: diameter and length of wire rope: 16 mm and 135 m;
E Frame	The frame is welded with steel plate materials of high strength, with strong bearing capacity.
Outrigger	 It is of H-shaped outrigger and 4-point support, with the longitudinal and transverse span of 6.15 m × 6.15 m. Fine grain steel plate material of high strength is used, and biliateral hydraulic locks are used for cylinders with vertical outrigger for safety protection.
Engine	 Type: straight-six cylinders, water cooling, inter-cooling, diesel engine Rated power: 119 w/2,500 r/min Environmental protection: the emission conforms to EU Stage IIIA standard. Effective volume of fuel tank: 300 L.
Transmission	 Torque converter/transmission: automatic transmission, 6-gear, large gear range, can meet the requirements for climbing on low speed site and also high speed running. Transmission axis: with optimized layout of transmission axis, the transmission of transmission axis is steady and reliable.
Drive/steering	 It is designed with 4 × 4 drive, full-hydraulic power steering, and four modes such as front wheel steering, rear wheel steering, four-wheel steering and crab.
Axle	- With the design of two axles, front and rear axle, it shows good dynamic performance.
Tyre	 Off-the-highway tires of big diameter are used, with large ground clearance, and the off-road performance is strong. Model of tires: 20.5R25.
O Brake system	 Duel circuit brake systems are used. When a circuit is in fault, the other one can work normally, which improves the safety and reliability of the brake system. Dual circuit brake systems are used for running brake, and independent circuit is used for brake for front and rear axles. All wheels are equipped with disk brake. Disk brake on front axle flange is used for parking brake.
Electric system	 2*12V maintenance-free battery with mechanical battery main switch is equipped, thus power of the whole crane can be cut off manually.





Unit: t

Load Chart - Telescopic Boom



	ON OUTRIGGERS FULLY EXTENDED 6.15m SPREAD 360° ROTATION								
Radius (m)	10	12.19	15.24	18.29	21.34	24.38	27.43	31.5	Radius (m)
2.5	40								2.5
3	35	23	22						3
3.5	31.5	23	22	21.5					3.5
4	29.2	23	22	20.6					4
4.5	26.2	22	22	20.2	18.5				4.5
5	23.8	20.5	20.3	19	17.5				5
5.5	21.8	19.5	18.5	17.6	16.2				5.5
6	19	17.5	17	16.2	15	14.2	13.2		6
6.5	17.3	16	15.6	15.2	14.2	13.5	12.3		6.5
7	15.8	14.7	14.4	14.2	13.5	12.7	11.5	9	7
7.5	14.3	13.5	13.4	13.3	12.7	12	10.8	8.6	7.5
8		12.6	12.5	12.4	12	11.4	10.2	8.4	8
9		11	10.8	10.7	10.6	10.2	9.2	8	9
10			8.8	9.35	9.45	9.25	8.3	7.5	10
12			6.7	7.15	7.3	7.25	6.6	6.4	12
14				5.3	5.5	5.55	5.6	5.5	14
16				4.05	4.25	4.3	4.4	4.5	16
18					3.3	3.35	3.4	3.45	18
20						2.6	2.65	2.7	20
22							2.15	2.2	22
24							1.65	1.7	24
26								1.35	26
28								1.05	28
The minimum angle (°) at no loading				(0				The minimum angle (°) at no loading
The lifting capacity at 0°(the angle of boom)	11.3	8.2	5.1	3.4	2.3	1.6	1	0.5	The lifting capacity at 0°(the angle of boom)
Number of parts of line	8	6	6	4	4	4	4	3	Number of parts of line

Load Chart - Telescopic Boom

Unit: t

	ON OUTRIGGERS HALF EXTENDED 4.275m SPREAD 360° ROTATION								
Radius (m)	10	12.19	15.24	18.29	21.34	24.38	27.43	31.5	Radius (m)
2.5	40								2.5
3	35	23	22						3
3.5	31.5	23	22	21					3.5
4	27	21.8	20.8	19.8					4
4.5	22	20.2	19.2	18.2	18				4.5
5	19.6	18	17.5	16.8	16.6				5
5.5	16.9	16	15.7	15.6	15.5				5.5
6	14.2	14.3	14.2	14.1	14	13.8	10.5		6
6.5	12.2	12.5	12.6	12.8	12.9	12.8	10		6.5
7	10.6	11	11.3	11.5	11.7	11.8	9.5	8.6	7
7.5	9.2	9.6	9.9	10.2	10.4	10.5	9	8.6	7.5
8		8.3	8.9	9.15	9.3	9.4	8.5	8.25	8
9		6.7	7.1	7.3	7.5	7.6	7.45	7.4	9
10			5.8	6.05	6.2	6.3	6.35	6.4	10
12			3.85	4.15	4.3	4.4	4.5	4.6	12
14				2.95	3.1	3.2	3.25	3.35	14
16				2.1	2.25	2.3	2.4	2.5	16
18					1.6	1.7	1.75	1.85	18
20						1.2	1.3	1.35	20
22						0.8	0.9	0.95	22
The minimum boom angle (°) at no loading			(0			27	38	The minimum boom angle (°) at no loading
The lifting capacity with boom angle 0°	7	4.5	2.7	1.6	0.9	0.5	0	0	The lifting capacity with boom angle 0°
Number of parts of line	8	6	6	4	4	4	4	3	Number of parts of line



Unit: t

Load Chart - Telescopic Boom



2.5 25 2.5 3 23 22.6 22 3 3.5 17.3 17.7 18 17 3.5 4 13.5 14 14.5 14.7 4 4.5 10.3 11 11.5 11.8 12 4.5 5 8.8 9.5 9.9 10.1 10.2 5 5.5 5.5 7.6 8.1 8.4 8.6 8.7 6 6.5 6.9 7 7.2 7.4 7.45 7.5 6 6.5 4.8 5.8 6.1 6.3 6.45 6.6 6.7 6.5 7 4.3 5.2 5.3 5.5 5.7 5.85 5.9 5.95 7 7.5 7.5 3.75 4.5 4.75 4.8 4.9 5.05 5.1 5.15 8 3.65 4 4.2 4.35 4.5 4.55 4.65 8 9 2.7 3.05 3.25 3.4 3.5 3.6 3.65 9 10 2.35 2.55 2.7 2.8 2.9 2.95 10 1.6 12 1.35 1.5 1.75 1.8 1.9 12 14 0.9 1.1 1.2 14 1 1.15 The minimum The minimum boom angle (°) at 0 28 40 47 52 57 boom angle (°) at no loading no loading The lifting capacity The lifting capacity 2.7 1.45 0.55 with boom angle 0° with boom angle 0° Number of parts Number of parts 6 6 6 4 4 4 4 3 of line of line

Load Chart - Telescopic Boom

Unit: t

	Travel with load(≤4km/h), over front only					
Radius (m)	10	12.19	15.24	18.29	Radius (m)	
3	12.4	12.3			3	
3.5	11.1	11			3.5	
4	9.9	9.85			4	
4.5	9	8.9	8.8		4.5	
5	8	8.1	8.2		5	
5.5	7.2	7.4	7.6		5.5	
6	6.4	6.6	6.75	6.8	6	
6.5	5.8	6.05	6.2	6.25	6.5	
7	5.25	5.55	5.7	5.75	7	
7.5	4.75	5.05	5.2	5.25	7.5	
8		4.6	4.8	4.85	8	
9		3.9	4.05	4.1	9	
10			3.45	3.55	10	
12			2.45	2.55	12	
14				1.85	14	
16				1.2	16	
The minimum boom angle (°) at no loading	0	0	0	0	The minimum boom angle (°) at no loading	
Number of parts of line	4	4	4	4	Number of parts of line	





Load Chart - Telescopic Boom

Load Chart - Telescopic Boom

Unit: t

T		360°	
10-31.5m	2.4m	4t	

3 11 11 10.5 3 9.7 3.5 9.7 9.7 3.5 4 8.35 8.6 8.7 4 4.5 4.5 7.2 7.35 7.5 6.3 5 6.2 6.3 6.5 5.8 5 5.5 5.25 5.35 5.6 5.3 5.5 4.7 6 4.25 4.45 4.65 6 6.5 3.55 4.1 6.5 3.85 4.05 7 2.95 3.3 3.55 3.6 7 7.5 2.35 2.75 3.1 7.5 3.05 2.3 2.65 2.7 8 8 9 1.8 1.9 2.05 9 10 1.35 1.6 10 12 0.85 0.9 12 The minimum boom The minimum boom 0 24 40 40 angle (°) at no loading angle (°) at no loading Number of parts of line 4 4 4 4 Number of parts of line

Unit: t

Dedius (m)		On tire statio
Kaulus (III)	10	12.19
3	14	14.3
3.5	12.2	12.3
4	10.8	11
4.5	9.8	9.9
5	8.7	9
5.5	7.8	8.2
6	7	7.4
6.5	6.4	6.7
7	5.6	6.1
7.5	4.8	5.6
8		4.9
9		4
10		
12		
14		
16		
The minimum boom angle (°) at no loading	0	0
Number of parts of line	4	4



, over front only	Padius (m)		
15.24	18.29	Radius (m)	
14.5		3	
12.5		3.5	
11.2		4	
10	10.2	4.5	
9.1	9.2	5	
8.3	8.4	5.5	
7.7	7.8	6	
7.2	7.3	6.5	
6.5	6.6	7	
5.9	6	7.5	
5.2	5.4	8	
4.3	4.4	9	
3.5	3.6	10	
2.5	2.6	12	
	1.9	14	
	1.3	16	
0	0	The minimum boom angle (°) at no loading	
4	4	Number of parts of line	



Jib Operating Range

Load Chart - Fixed Jib



Unit: t

	ON OUTRIGGERS FULLY EXTENDED 6.15m SPREAD 360° ROTATION												
Boom angle	 Main boom 31.5 m + Jib 7.9 m						Main boom 31.5 m + Jib 13.7 m						
	0°		15°		30°		0°		15°		30°		Boom angle
	main boom operating elevation (°)	Lifting capacity	main boom operating elevation (°)	Lifting capacity	main boom operating elevation (°)	Lifting capacity	main boom operating elevation (°)	Lifting capacity	main boom operating elevation (°)	Lifting capacity	main boom operating elevation (°)	Lifting capacity	
78	3.8	7.6	2.9	9.3	2.2	10.8	2.1	8.7	1.6	12.1	1.2	14.8	78
76	3.7	9	2.75	10.7	2.15	12.1	2.05	10.3	1.55	13.7	1.15	16.4	76
74	3.6	10.4	2.65	12	2.05	13.4	2	11.9	1.5	15.2	1.1	17.8	74
72	3.4	11.8	2.55	13.3	2	14.7	1.95	13.5	1.45	16.7	1.1	19.2	72
70	3.2	13.2	2.45	14.6	1.95	16	1.9	15.1	1.4	18.2	1.1	20.6	70
68	3.05	14.5	2.35	15.9	1.9	17.2	1.8	16.6	1.35	19.7	1.05	22	68
66	2.9	15.8	2.25	17.2	1.8	18.4	1.7	18.1	1.3	21.1	1	23.3	66
64	2.7	17.1	2.15	18.4	1.75	19.6	1.6	19.6	1.25	22.5	1	24.6	64
62	2.55	18.3	2.05	19.5	1.7	20.8	1.5	21.1	1.2	23.9	0.95	25.9	62
60	2.4	19.4	1.95	20.6	1.65	21.9	1.45	22.5	1.15	25.2	0.95	27.1	60
58	2.25	20.5	1.8	21.7	1.6	23.1	1.4	23.9	1.1	26.4	0.95	28.3	58
56	2	21.6	1.7	22.8	1.5	24.1	1.3	25.1	1.05	27.6	0.95	29.5	56
54	1.8	22.7	1.6	23.8	1.4	25.1	1.2	26.3	1	28.8	0.9	30.6	54
52	1.6	23.7	1.45	24.8	1.3	26	1.1	27.5	0.95	29.9	0.9	31.5	52
50	1.45	24.7	1.3	25.8	1.2	26.9	1	28.7	0.9	31	0.85	32.5	50
Min.elevation angle(°)	32		34		35		34		37		39		Min.elevation angle(°)





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