



SANY

Quality Changes the World



SANY TRUCK CRANE STC 500

ULTRA- LONG BOOM.
STRONG LIFTING CAPACITY



P1

Product features
Chassis

P2

Product features
Superstructure

P3

Technical parameters



SPECIFICATION/CHASSIS

Frame Integrated welding structure fabricated high-strength steel.	Electrical system 24V, CAV bus
Outrigger H-form arrangement and fullyhydraulic control with horizontal and vertical extension, independent working movement.	Driver’s Cab rubber mounted steel cab, corrosion-resistant power coating and two coating painting, 2.68wide, ergonomic cab, 2 comfortable seats, with pneumatically sprung driver’ s seat inc. head rest. Three-point seat belts and convenient dashboard, vertically adjustable steering wheel, Front baffle triplex glass, wide visibility, windscreen defroster fans, side electric toughened glass, engine-dependant hot water heater, roller blinds,radio.
Engine Dongfeng Cummins ISLe 340 30 engine, rated power 250kw at 2100rpm, fuel tank capacity 300L.	Axle Axle 1, 2 steering, axle 3, 4 driving.
Transmission system 9-speed synchronizer gearbox, transmission shaft with end gear structure.	Suspension Steel leaf spring imbalanced suspension on axles 1 and 2, steel leaf spring two-axes balanced suspension on axles 3 and 4.
Tyre 12 wheels ,12.00R20 20PR tyres.	Brake adopted air brake. Dual-circuit driving brake and emergency brake controlled by hand brake handle. Exhaust brake.
Steering Single circuit hydraulicassist steering system with mechanical slewing-limit.	Hydraulic system constant displacement gearbox oil pump controls horizontal leveling and outriggers telescoping.

SPECIFICATION
SUPERSTRUCTURE

Cab

fabricated from corrosion-resistant steel, equipped full-covered flexible decorations, front window door could be open, adjustable seat provide comfort for the driver.

Main boom

five sections partially synchronized section; telescopic mechanism assisted by two cylinders and sheaves, balanced valve mounted on the cylinder.

Counterweight

3.5t, mounted on the frame through connecting bolts.

Hydraulic system

Load adaptor and constant power control variable displacement axial piston pump, speed-proportion and power-adjust regulation, automatically regulate oil pump through load condition to utilize power. Speed-control does not depend on flow distribution to reduce power.

Safety devices

Colorful LCD, integrated hook load, rated load, boom length, angle, lifting height. Integrated parameter set-up. Safety-limit.

Winch

constant displacement piston pump, hydraulic braking system, mounted balanced valve. Max. speed(single rope) 130m/min, rope length 220m.

Auxiliary winch

constant displacement piston system, mounted balanced valve; max. speed(single rope)130m/min, rope length 130m.

Elevation

deadweightdependent and electric-proportion balanced valve controlled elevation.

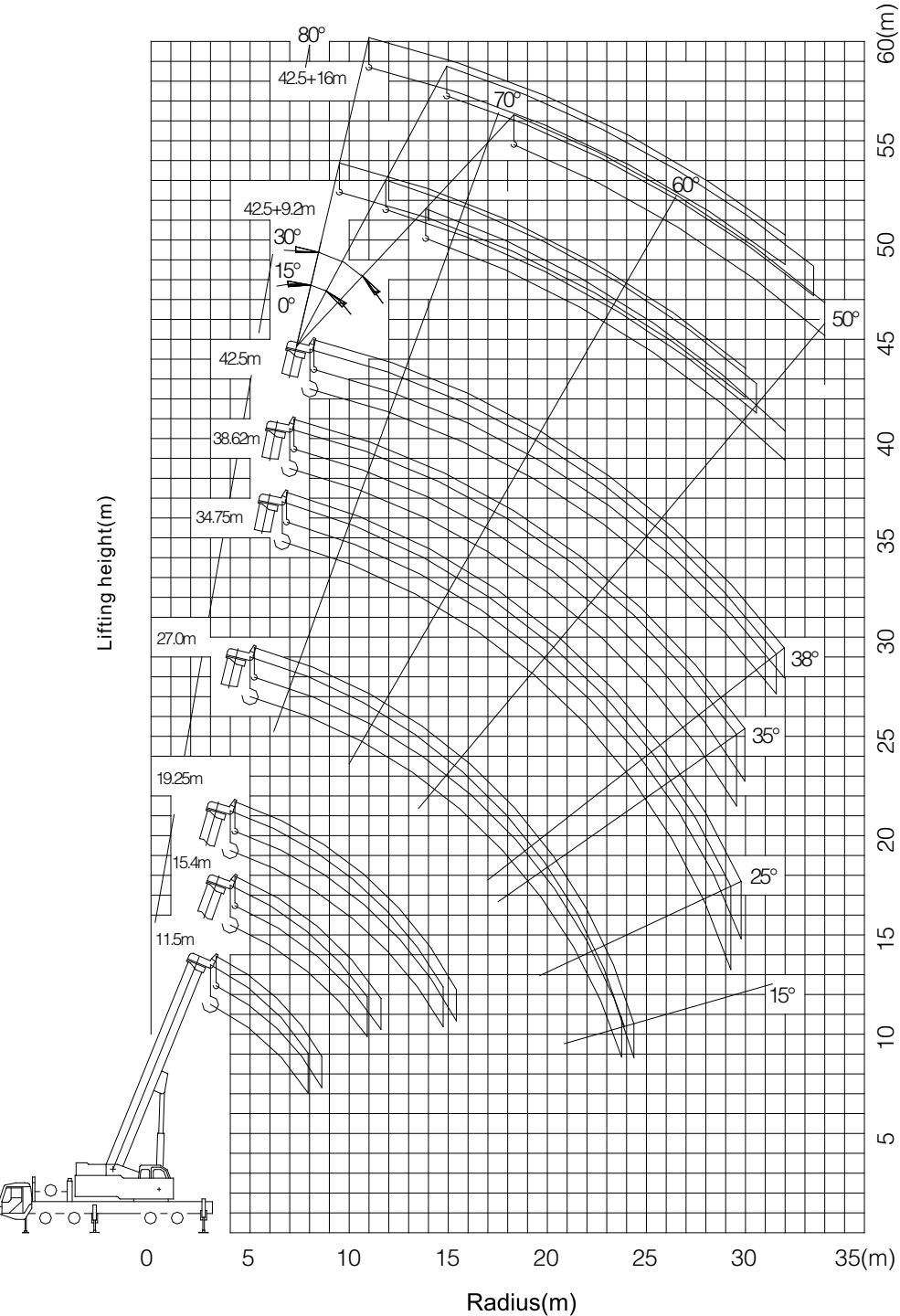
Slewing mechanism

Constant displacement piston pump, slewing with retarder. Max slewing speed 2r/min.

TECHNICAL PARAMETER

Type	Item		Unit	Value
Technical parameters	Axle load	Front axle	kg	16000
		Middle and rear axle	kg	26000
Working speed	Max. single rope speed of main winch		m/min	130
	Max. single rope load of main winch		kN	57.25
	Wire rope diameter*length			18mm × 220m
	Max. single rope speed of auxiliary winch		m/min	130
	Max. single rope load of auxiliary winch		kN	57.25
	Auxiliary winch rope diameter*length			18mm × 130m
Elevation angle and slewing diameter	Min. slewing speed		r/min	2
	Elevation angle		°	-2° ~ 80°
Chassis performance	Slewing diameter		m	4
	Max. travelling speed		km/h	85
	Max. grade ability		%	40

STC500 WORKING RANGES



LOAD CHART FOR MAIN BOOM

Unit: kg

Fully extended outriggers, over side and rear (3T fixed counterweight t)											
Radius (m)	Length of boom(m)										
	11.5m	15.4m	19.25m	27m	34.75m	38.62m	42.5m				
3.0	50000	40000	32000	21500							
3.5	50000	40000	32000	21500							
4.0	44600	40000	32000	21500							
4.5	40000	36000	31000	21500	21000	15000					
5.0	36200	33200	29000	20000	21000	15000					
5.5	32000	30000	27500	19000	21000	14500					
6.0	28000	27500	25700	18100	21000	13700	14000	9000			
6.5	25800	25500	23900	17500	19500	12800	14000	9000			
7.0	23500	23200	21500	17000	18000	12100	14000	9000	11500	9000	
7.5	21400	21200	18600	16200	16800	11500	13500	8500	11500	9000	9000
8.0	19500	19300	17000	15600	15800	11000	12700	8500	11000	9000	8500
9.0	15300	15000	13700	13800	14000	10000	11700	7800	10500	8500	8100
10.0		11700	10900	12000	12000	9000	10700	7100	10000	8000	7800
11.0		9600	9000	10600	9900	8200	9400	6400	9000	7500	7000
12.0		8000	8000	8700	9000	7500	8500	5800	8000	7000	6000
14.0			5300	6400	6300	6100	6600	5000	6300	5900	5200
16.0			3500	4600	4700	5000	5000	4400	5000	5000	4200
18.0					3500	4100	4000	3800	4000	4000	3300
20.0					2500	3000	3100	3200	3200	3500	2600
22.0					1900	2300	2200	2700	2400	2800	2000
24.0					1300	1800	1700	2400	1800	2100	1500
26.0							1200	1900	1300	1650	1150
28.0							800	1500	900	1300	900
30.0							500	1000	600	900	600
32.0								800		600	
34.0										400	
Telescoping condition											
Telescoping mode	I, II	I	I	II	I	II	I	II	I	II	I, II
2nd boom	0	50	100	0	100	0	100	0	100	50	100
3rd boom	0	0	0	33	33	66	66	100	83.3	100	100
4th boom	0	0	0	33	33	66	66	100	83.3	100	100
5th boom	0	0	0	33	33	66	66	100	83.3	100	100
Number of of line	12	10	8	8	6	6	4	4	4	4	3

Notes



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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.