STC500C TRUCK CRANE

TECHNICAL PARAMETER

Type	Item		Parameter
Capacity	Max. lifting capacity		50 t
Dimension	Overall length		13700 mm
	Overall width		2500 mm
	Overall height		3800 mm
	Axle distance	Axle-1,2	1450 mm
		Axle-2,3	4200 mm
		Axle-3,4	1350 mm
Weight	Overall weight		39300 kg
	Axle load	Axle load-1,2	15000 kg
		Axle load-3,4	24300 kg
Engine	Rated power		220 kW/ 2300 rpm
	Rated torque		1200 N.m/ 1000-1500 rpm
Traveling parameter	Max.traveling speed		48 km/h
	Turning radius	Min.turning radius	12 m
	Wheel formula		8 × 4
	Min.ground clearance		220 mm
	Approach angle		18.5 °
	Departure angle		12 °
	Max.gradeability		38%
	Fuel consumption per 100km		-
Main Performance Data	Temperature range		– 20 ° ~ + 40 °
	Tail slewing radius of swingtable		3.9 m
	Boom section		5
	Boom shape		U-shaped
	Max.lifting moment	Base boom	1660 kN·m
		Full-extend boom	815 kN.m
	Boom length	Base boom	11.3 m
		Full-extend boom	43.5 m
	Outrigger span (Longitudinal×Transversal)		6 × 7.2 m
Working speed	Max.single rope lifting speed of main winch (no load)		120 m/min
	Full extension/retraction time of boom		140 / 125 s
	Full lifting/descending time of boom		70 / 78 s
	Slewing speed		0~2.0 r/min
Air condition	Chassis		Heating/Cooling

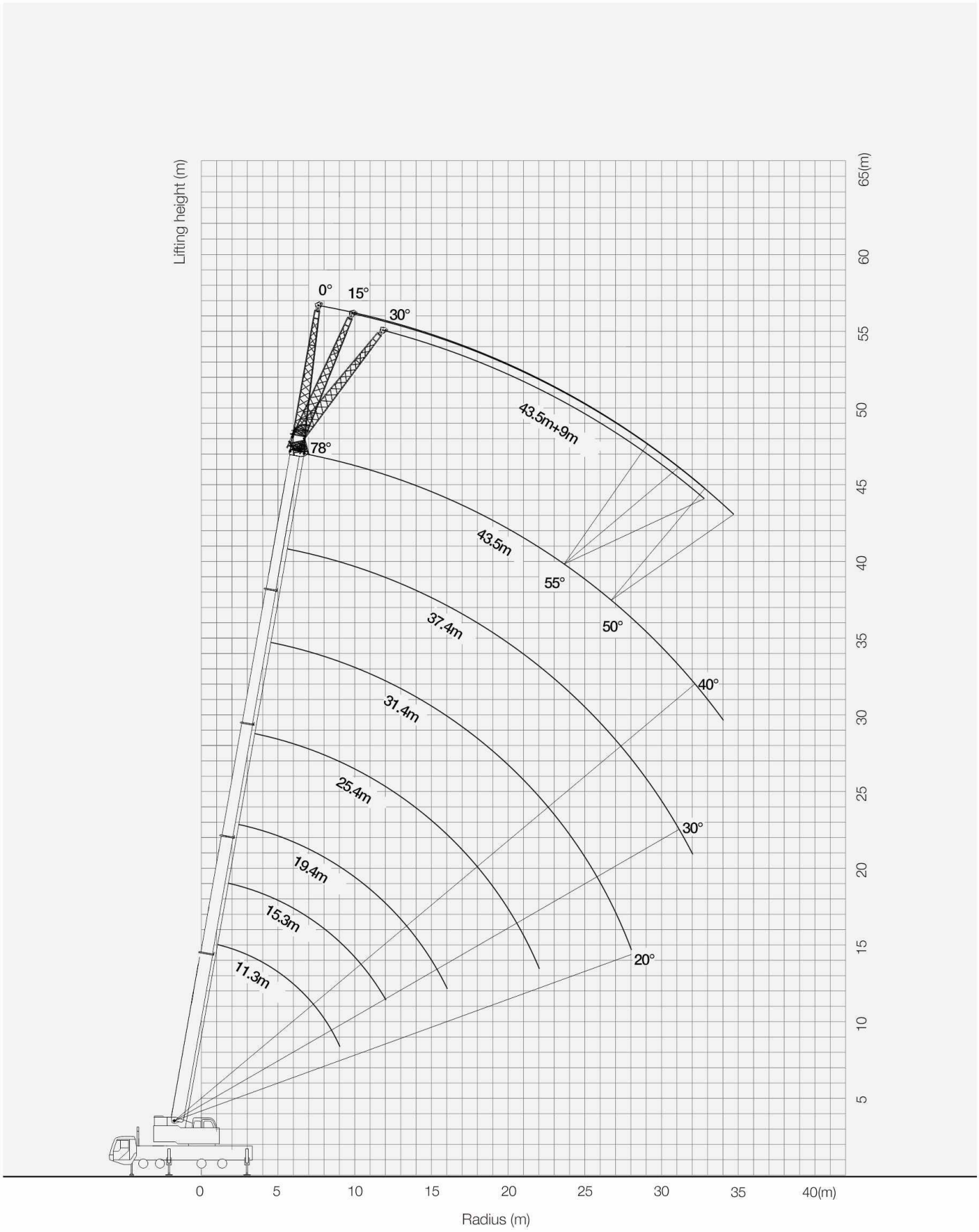
STC500C TRUCK CRANE
LOAD CHART

Unit:Kg

Prerequisites
① Boom operating conditions(fully extended boom length),min. length is 11m and max.length is 43m
② The span of outriggers is 6m×7.2m
③ 360° rotation is applied
④ Counterweight is 4500kg
⑤ The rated load indicated in the table is the value computed by taking 75% of the tip over load when the wind speed is below 9.8m/s.

Working Radius(m)	Fully-extended outriggers, over side and rear											Working Radius(m)
	11.3	15.3	17.3	19.4	23.4	25.4	29.4	31.4	35.4	37.4	43.5	
3	50000	36000	20000			□	□	□	□	□	□	3
3.5	45000	36000	20000	28600	15500	□	□	□	□	□	□	3.5
4	40000	36000	19900	27500	15000			□	□	□	□	4
4.5	37000	33000	19800	27500	14500	22000	12300			□	□	4.5
5	34000	31000	19700	26000	14300	20000	12300			□	□	5
6	28000	26000	18800	23000	14000	18000	11000	15000	9500		□	6
7	23000	22500	17500	19800	13200	16500	10500	14500	8500	11500		7
8	19000	18000	15200	16000	12500	15000	9500	13000	7800	10500		8
9	16000	14500	14000	13600	11800	14000	9200	12300	7400	10000	7600	9
10		11800	12000	11600	11000	11600	8600	11200	7300	9000	7500	10
12		8000	8700	8000	9200	8200	7200	9600	6500	8000	6800	12
14			6200	5400	7700	5900	6500	7300	6000	6800	5800	14
16	□			3800	5500	4500	5400	5500	5500	5600	5200	16
18	□	□	□	□	4300	3400	4700	4300	4500	4300	4500	18
20	□	□	□	□	3300	2500	3900	3200	3700	3400	3500	20
22	□	□	□	□	□	1400	3000	2300	3000	2600	2800	22
24	□	□	□	□	□	□	2500	1700	2500	2000	2100	24
26	□	□	□	□	□	□		1000	2100	1500	1700	26
28	□	□	□	□	□	□	□	□	1700	1000	1200	28
30	□	□	□	□	□	□	□	□	1200	600	800	30
32											500	32
Cylinder 1	10	8	4	7	4	5	3	4	3	3	3	Cylinder 1
Cylinder 2	0%	50%	0%	100%	0%	100%	0%	100%	0%	100%	100%	Cylinder 2
Number of lines	0%	0%	25%	0%	50%	25%	75%	50%	100%	75%	100%	Number of lines

STC500C Working Ranges



Unit:Kg

Load chart for jib
The rated load indicated in the table is the value computed by taking 75% of the tip over load when the wind speed is below 9.8m/s.

Boom angle (°)	Fully-extended outriggers, over side and rear			Boom angle (°)
	43.5m+9m			
	Compensation angle0°	Compensation angle 15°	Compensation angle 30°	
78	2800	2400	1800	78
75	2500	2200	1750	75
72	2150	1800	1500	72
70	1900	1570	1350	70
65	1450	1240	1000	65
60	1080	1000	750	60
55	800	700	500	55
50	580	500		50
Min. boom angle		50°		Min. boom angle

1. Radius shown in the table are the actual radius when working.
2. Rated lifting capacities in the stability area comply with ISO 4305.
3. The total rated lifiting load in the table includeds the weight of hook block (main hook is 550kg) and slings.
4. When the 5th outrigger is in use, it is suitable for 360 operation.
5. When actual boom length and working radius are between two values, determine lifting capacity according to the bigger boom and radius.