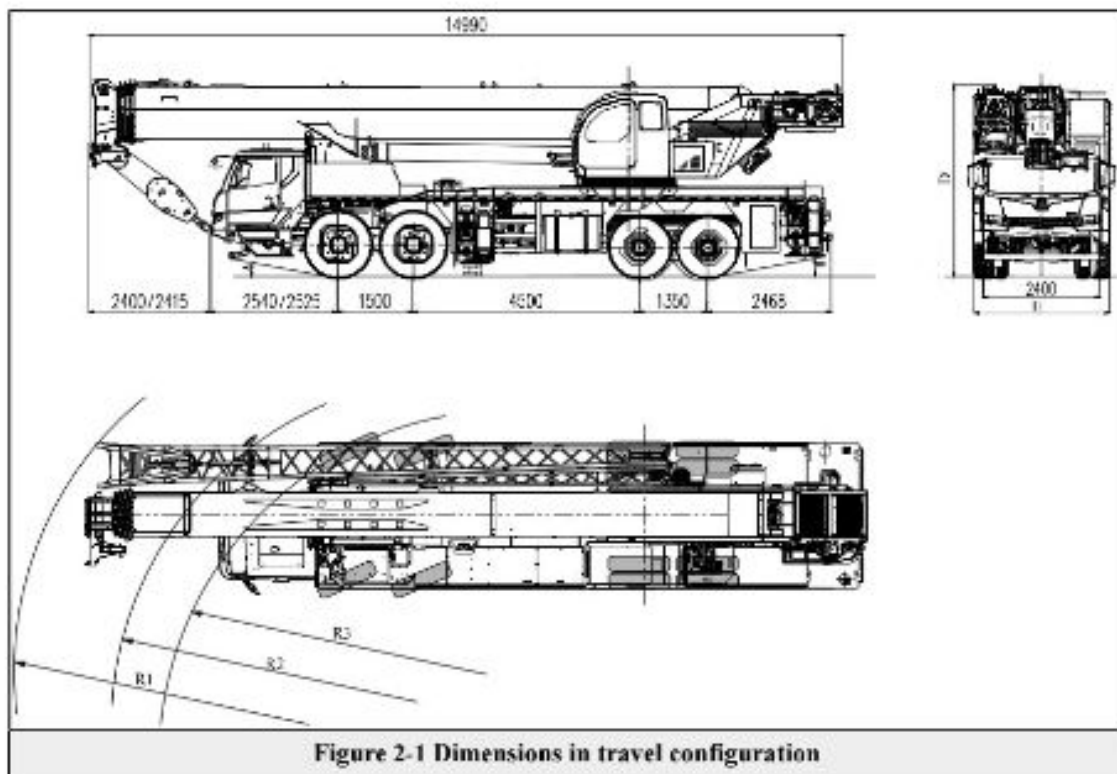




Chapter 2 Technical specifications

2.1 Dimensions



When equipped with Qixing driver's cab, the front extension is 2400 mm, and the front overhang is 2540 mm.

When equipped with XCMG Automobile driver's cab, the front extension is 2415 mm, and the front overhang is 2525 mm.

Tires	A	B	D	E	R1	R1	R2	R3
385/ 95R25 12 00R2 4/325/ 95R24	11° 18° (front protec tive device re moved)	11°	3940	2800	15200	13300	12000	260



2.2 Main technical parameters

Table 2-1 Main technical data in travel configuration

Category	Item		Unit	Parameter
Dimensions*	Dimensions (L×W×H)		mm	14990×2800×3940
	Axle spacing		mm	1500+4500+1350
	Track		mm	2400/2400/2063/2063
	Front overhang/rear overhang		mm	2540 (Qixing), 2525 (XCMG Automobile)/2470
	Front extension/rear extension		mm	2400 (Qixing), 2415 (XCMG Automobile)/230
Weight	Max. permissible total weight*		kg	49600
	Curb weight		kg	49405
	Axle load	Axle 1	kg	11900
		Axle 2	kg	11900
		Axle 3	kg	12900
		Axle 4	kg	12900
Power	Engine	Model	—	WP10H1375E50
		Rated power/rotation speed	kW/(r/min)	276/1900
		Max. torque/rotation speed	N m/(r/min)	1800/1000~1400
		Max. net power/RPM	kW/(r/min)	271/1900
		Total displacement	L	9500

*Dimensions: rear-view mirrors and side marker lamps are not included in measurements for overall length, width and height.

Travel configuration: the weight of passenger(s), oil, fuel, water and fluid are included; 7 t hook block, extension assembly, removable counterweight are excluded. Chassis: counterweight bracket, spare tire and its bracket are excluded.



Category	Item		Unit	Parameter
Driving performance	Travel speed	Max. travel speed	km/h	≥ 80
		Min. stable travel speed	km/h	2.5~3
	Turning diameter	Minimum turning diameter	m	≤ 24
		Minimum turning diameter at boom tip	m	≤ 30.4
	Min. ground clearance		mm	260
	Approach angle		°	11 (18 front protective device removed)
	Departure angle		°	11
	Braking distance (at 30 km/h)		m	≤ 10
	Max. grade ability		%	45
	Exterior noise level during acceleration travel		dB(A)	≤ 84
	Noise level at seated position		dB(A)	≤ 90
Chassis parameters	Wheel alignment	Camber angle of front wheel	°	1
		Caster angle	°	0
		Kingpin inclination	°	5
		Toe-in of front wheel	mm	4-8
	Driving and steering type		---	8×4×4
	Suspension type	Front	---	Leaf spring suspension
		Rear	---	Rubber suspension
	Number of leaf spring		---	8/8/—
	Tire specifications		---	1st and 2nd axles: 385/95R25 3rd and 4th axles: 12.00R24/325/95R24
	Spare tire specification		---	12.00R24
	Number of tires (spare tire)		---	12 (1)
	Crew		Person	2



Table 2-2 Technical parameters for lifting operation

Category	Item		Unit	Parameter
Main performance	Maximum rated lifting capacity		t	100
	Minimum rated working radius		m	2.5
	Turning radius at turntable tail	At counterweight	mm	4400
		At auxiliary winch	mm	4310
	Max. rated load moment	Base boom	kN.m	3450
		Fully-extended boom	kN.m	2183
		Fully-extended boom + jib	kN.m	1604
	Outrigger span (fully/half-extended)	Longitudinal	m	6.55
		Lateral	m	7.9 (5.9)
	Lifting height	Basic boom	m	13.3
		Fully-extended boom	m	50.5
		Fully-extended boom + jib	m	74
Working speed	Boom length	Base boom	m	13
		Fully-extended boom	m	50.5
		Fully-extended boom + jib	m	75
	Jib offset angle		°	0, 15, 30
	Time for luffing boom	Boom up	s	≤55
	Time for fully extending the boom	Fully extended	s	≤135
	Max. slewing speed		r/min	2.0
	Time for extending / retracting the outriggers	Outrigger beams in	s	≤30
		Outrigger beams out	s	≤40
		Outrigger jacks up	s	≤40
		Outrigger jacks down	s	≤55
	Hoisting speed (single line/no load (4th layer))	Main winch	m/min	≥145
		Auxiliary winch	m/min	≥90
Noise	Exterior noise level		dB(A)	≤124
	Noise level at seated position		dB(A)	≤90



Chapter 4 Rated load charts

4.1 Working areas

Explanation:

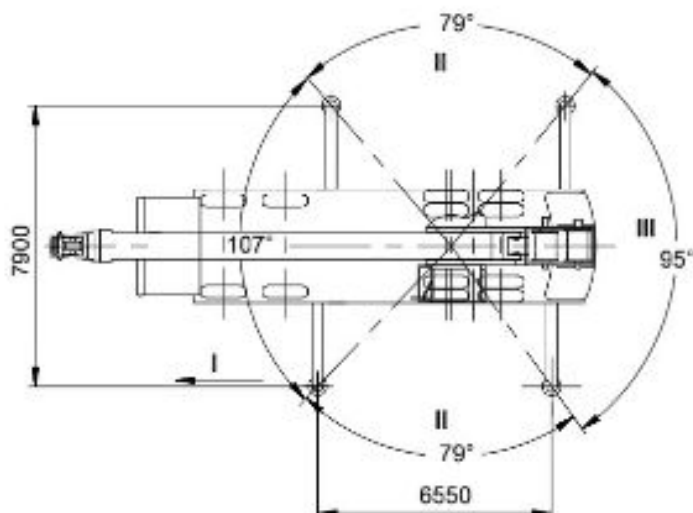


Figure 4-1 Working areas (on fully-extended outriggers)

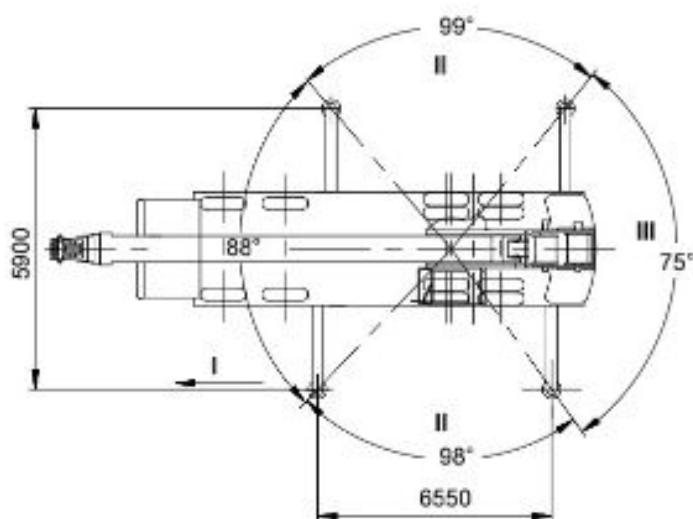
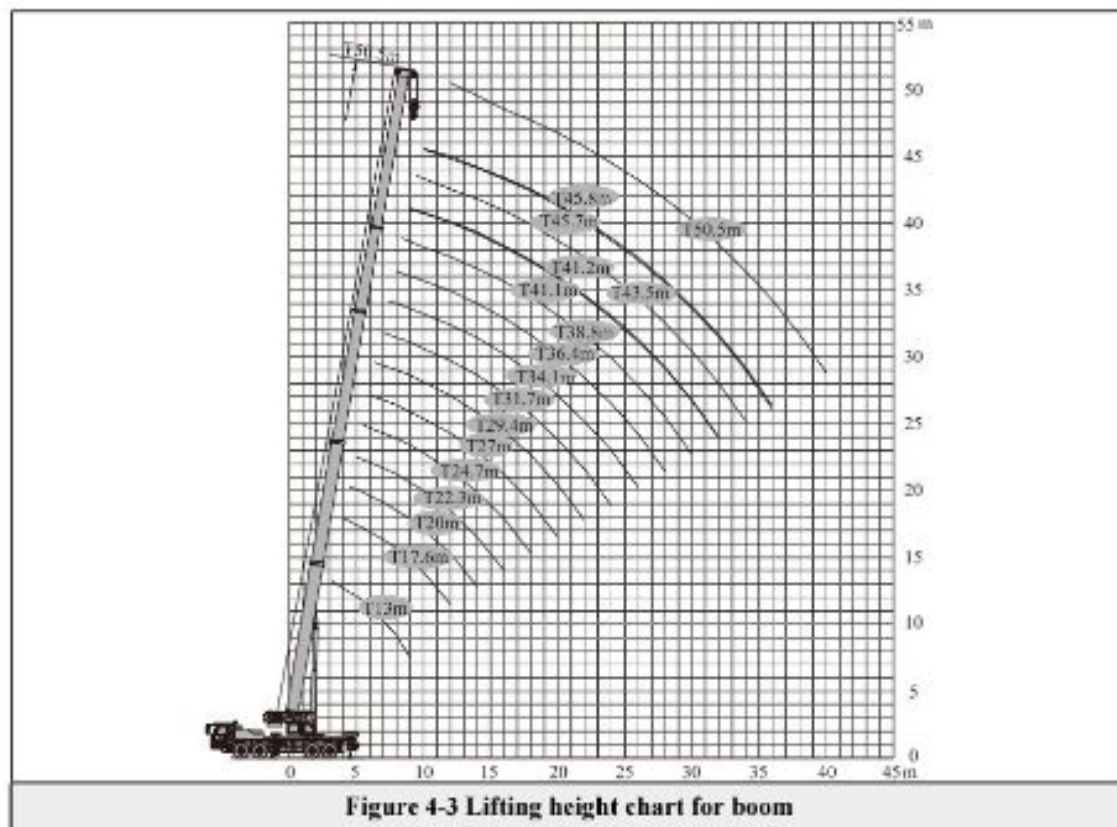


Figure 4-2 Working areas (on half-extended outriggers)

No.	Note	No.	Note
I	Forward direction	II	Over side
III	Over rear		

4.2 Lifting height charts

Symbols: T: Telescopic boom, J: Jib



4.3.3 Boom on outriggers fully-extended with 15t counterweight

	13m~36.4m 15t 6.55m×7.9m										
	   										
	13m	17.6m	20m	22.3m	24.7m	27m	29.4m	31.7m	34.1m	36.4m	
3	80	70									3
3.5	80	68									3.5
4	76	67	38								4
4.5	73	65	38	47	37						4.5
5	64	62	38	47	37	38					5
5.5	57	58	38	47	37	38	36				5.5
6	52	52	38	46	37	38	36	38			6
7	43.5	43.5	38	43	37	38	36	38	23	31	7
8	37	37	38	37	37	38	35	38	22	30	8
9	31.3	30.6	33.5	30.2	32.6	34.5	32	33.7	22	28	9
10		24.8	27.5	24.5	26.7	28.5	26.1	27.7	22	26	10
12		17.5	19.9	17.1	19.2	20.8	18.6	20.1	20.9	19.5	12
14			15.1	12.3	14.4	15.9	13.9	15.2	16.5	14.7	14
16				9.2	11.1	12.6	10.5	11.9	13.1	11.4	16
18					8.7	10.2	8.2	9.5	10.6	9	18
20						8.4	6.5	7.7	8.7	7.2	20
22							5.1	6.3	7.4	5.8	22
24								5.2	6.2	4.8	24
26									5.3	3.8	26
28										3	28
30											30
32											32
34											34
36											36
38											38
40											40
42											42
2nd	0%	50%	0%	100%	50%	0%	100%	50%	0%	100%	2nd
3rd	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	3rd
4th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	4th
5th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	5th
n	13	11	7	8	7	6	6	6	5	5	n
	80t	80t	80t	80t	80t	80t	80t	80t	80t	80t	
	14.1m/s	14.1m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	

4-10 Rated load charts



	38.8m~50.5m 15t 6.55m×7.9m									
	   									
	38.8m	41.1m	41.2m	43.5m	45.7m	45.8m	50.5m			
3										3
3.5										3.5
4										4
4.5										4.5
5										5
5.5										5.5
6										6
7										7
8	23									8
9	22	18.5	23	21						9
10	22	18	23	21	20.9	18.1				10
12	20.6	16.8	19.9	20	19.1	16.8	14.7			12
14	15.8	15.2	15.1	15.3	15.5	15.5	14.2			14
16	12.4	13.3	11.8	12	12.1	12.8	12.3			16
18	10	10.9	9.5	9.5	9.7	10.4	10			18
20	8.2	9	7.6	7.7	7.9	8.5	8.1			20
22	6.8	7.7	6.2	6.4	6.5	7.1	6.7			22
24	5.7	6.5	5.1	5.2	5.4	6	5.6			24
26	4.8	5.5	4.1	4.3	4.4	5	4.7			26
28	4	4.8	3.4	3.5	3.7	4.3	3.9			28
30	3.3	4	2.8	2.9	3	3.6	3.2			30
32		3.5	2.1	2.3	2.4	3	2.7			32
34				1.9	2	2.6	2.1			34
36					1.5	2.2	1.8			36
38							1.3			38
40										40
42										42
2nd	50%	0%	100%	100%	100%	50%	100%			2nd
3rd	75%	100%	67%	75%	83%	100%	100%			3rd
4th	75%	100%	67%	75%	83%	100%	100%			4th
5th	75%	100%	67%	75%	83%	100%	100%			5th
n	4	4	4	4	4	3	3			n
	80t	80t	80t	80t	80t	80t	80t			
	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s			