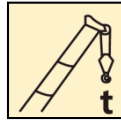
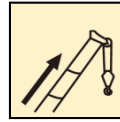


XCT25L4_Y1 Truck Crane

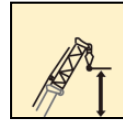
Technical specifications



25 t



34 m



43.2 m



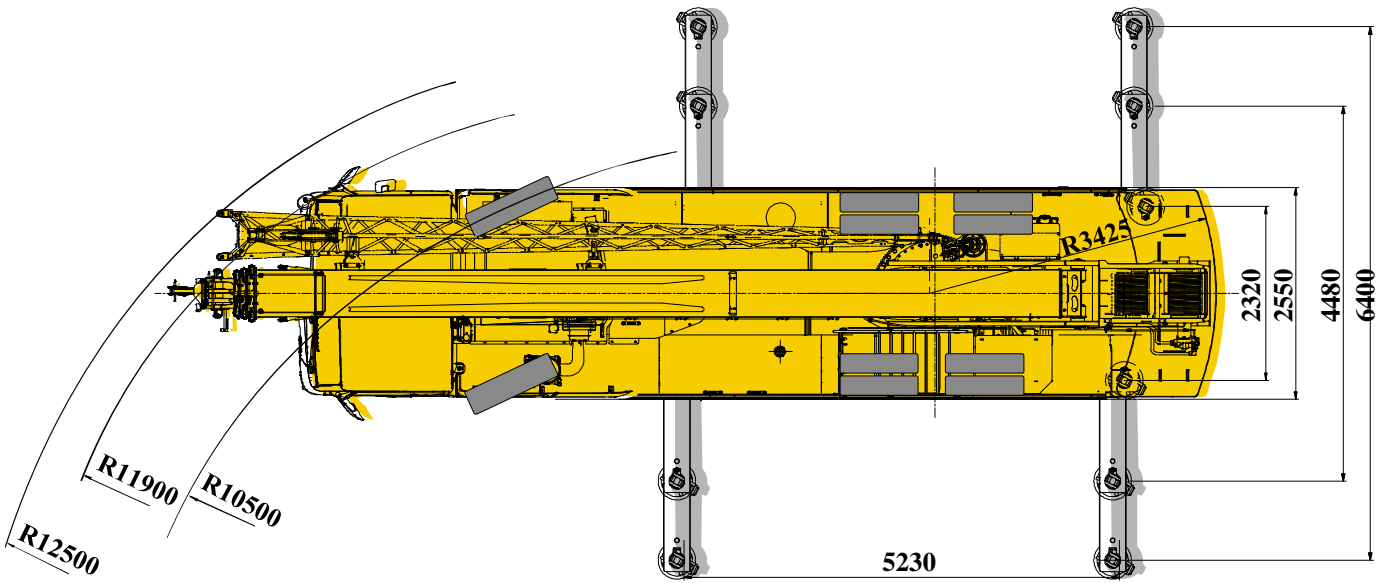
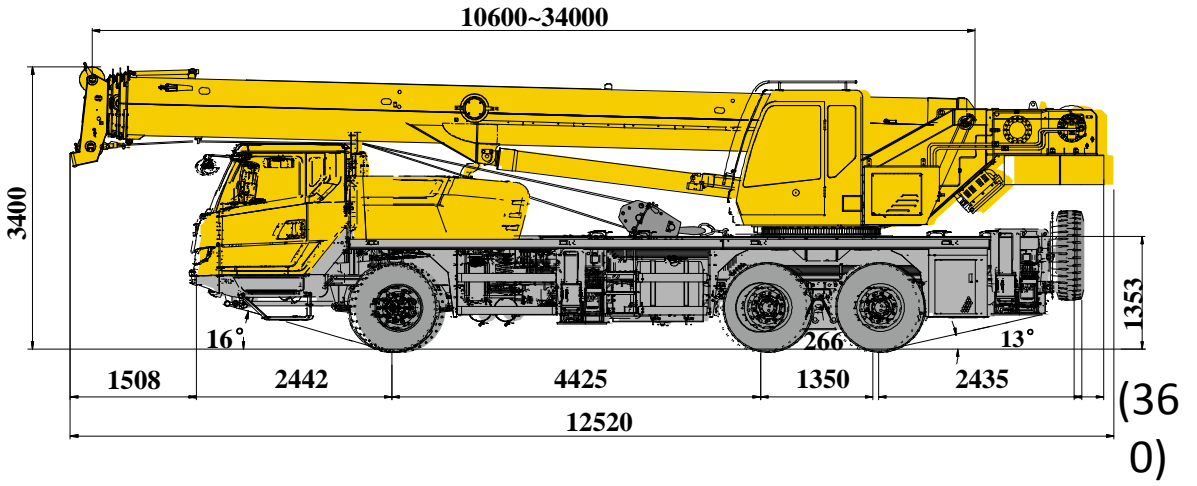
BSV

2nd edition, June 2024



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Dimensions



Technical specifications

 Chassis			 Superstructure	
Frame	Designed and manufactured by XCMG, the frame is made of high strength steel with fully covered walking surface and anti-torsion box-typed structure.	●	Structure	Designed and manufactured by XCMG, made of high strength steel. ●
Outrigger	Four outriggers arranged in H-shape are hydraulically controlled by control levers. There is an outrigger control station located at each side of the chassis, and there is a level gauge on each control station. The outrigger movements can be simultaneously or separately controlled at any side of the chassis. There is a check valve fitted in each outrigger cylinder, and a double-way hydraulic valve fitted in each jack cylinder. Outrigger float diameter: $\phi 400$ mm Reaction force of outrigger at max. lifting load: 32.4 t The 5th jack	●	Hydraulic system	Fixed displacement pump+load sensing multi-way valve system; double-pump confluence can be realized for lifting, luffing and telescoping; working speed of main and auxiliary winches is up to 135m/min; double-pump independent oil supply for simultaneous movements of main winch/auxiliary winch and telescoping/luffing can be realized. ●
Engine	SC7H200G5E, in-line, 6-cylinder, supercharged, intercooled diesel engine, made by SDEC, rated power of 149kW/2200rpm, max. torque 860Nm /1400rpm, max. reference torque: 1200N.m, compliant with BSV (CEV V) emission standard. Fuel tank capacity: 260 L; AdBlue/DEF tank capacity: 35 L.	●	Operating method	Mechanical control. ●
Transmission	Mechanical transmission , made by Shaanxi Fast Gear Co., Ltd., 8-forward speed and 2-reverse speed.	●	Winch system	Equipped with Lebus grooved drum, driven by a hydraulic motor, with build-in planetary gear reducer, constant closed brake and balance valve. Wire rope has a rope head, which is directly installed in pouch socket. Time for replacing wire rope is shortened, the replacement is easy and fast. The main winch and auxiliary winch can be independently operated. Main winch ● Auxiliary winch ○
Axles	3-axle chassis, axle 1 is for steering, axles 2 and 3 are driving.	●	Slewing gears	A single-row, four-point contact-ball external toothed slewing bearing is driven by hydraulic motor, with built-in planetary gear reducer and constant-closed brake equipped, and may continuously slew 360°. Power control and free slewing function as well as stepless speed regulation are available. ●
Suspension system	Front suspension: leaf springs with tapered cross-section, light dead weight, low noise and great comfort; Rubber suspensions with V-type push rod for rear suspensions, featuring light dead weight, better positioning effect, free of maintenance.	●	Luffing system	Single cylinder with self-compensation balanced valve. ●
Tires	10 tires and 1 spare tire. The front axle is equipped with single tire, the middle and rear axles are equipped with double-tire. Tire specifications: 12R22.5.	●	Operator's cab	Operator's cab is designed according to ergonomics with outward-open door and adjustable seat. ●
Brakes	Service brake: dual-circuit air pressure brake acting on all wheels. Parking brake: spring applied brake, acting on the wheels of axles 2-3. Auxiliary brake: engine exhaust brake.	●		It is equipped with safety glass and roof protective grilles. Windshield is equipped with sun visor. Fan is standard. Air conditioner. ○
Steering system	Mechanically steering system with a hydraulic booster	●	Electrical system	24 V DC, two batteries in series. ●
Driver's cab	Deluxe driver's cab. Equipped with adjustable seats, safety glass, electrically operated door window lifter, electric-adjustable mirrors, steering wheel adjustable in height and angle, etc. A fire extinguisher of 6 kg is available. Heater and air conditioner are standard.	●	Safety devices	Hydraulic counterbalance valve; hydraulic relief valve; LMI; spring centering system for control levers; lowering limiter for preventing wire rope from over releasing; free slewing; slewing locking. ● Anti-two block at boom head for preventing wire rope from over-winding; ○
Electrical system	24 V DC, two sets of 12 V battery in series. Generator: 28 V-70 A	●	Hook block	20 t hook block ● 3 t hook block ○
Safety devices	Double-way hydraulic lock Backup camera	● ○	Counterweight	3.2 t fixed counterweight. ●

Technical specifications

	Boom and jib system	
Boom	4-section boom with U cross-section, welding structure. Single-cylinder plus ropes telescoping system Boom length: 10.6 m~34 m.	●
Jib	One-section lattice jib, welded structure. Three offset angles of 0°, 15° and 30°. Fixed jib length: 8.3 m.	○
Auxiliary sheave	Installed at the boom top, used for single line operation. Its lifting performance is the same as that for boom, but the max. lifting load could not exceed 2800 kg.	○

Product parts list is as mentioned above. Please refer to the product quotation for specific parts.

Symbol explanation:

● — Standard configurations;

○ — Optional configurations.

Weight



Axle	1	2	3	Total weight
t	6.6	9.85	9.85	26.3 (full configuration)
	5.4	9.45	9.45	25.3 (standard)



Hook block	Parts of line	Weight of hook block	Hook dimension	Remark
20t	7	202	1249×430×268	Single hook (standard)
3t	1	60	518×236×236	Single hook (optional)

Working speed



12R22.5



2~50



32%



Operation mechanism	Working speed	Max. single line pull	Rope diameter/ length
	0-135 m/min, single line, 4th layer	3t	14 mm/170 m
	0-135 m/min, single line, 4th layer	3t	14 mm/110 m
	0-2.6 r/min		
	Approx. 35 s for boom luffing from 0° to 80°		
	Approx. 53 s for boom extending from 10.6 m to 34 m		

Boom / Jib combinations



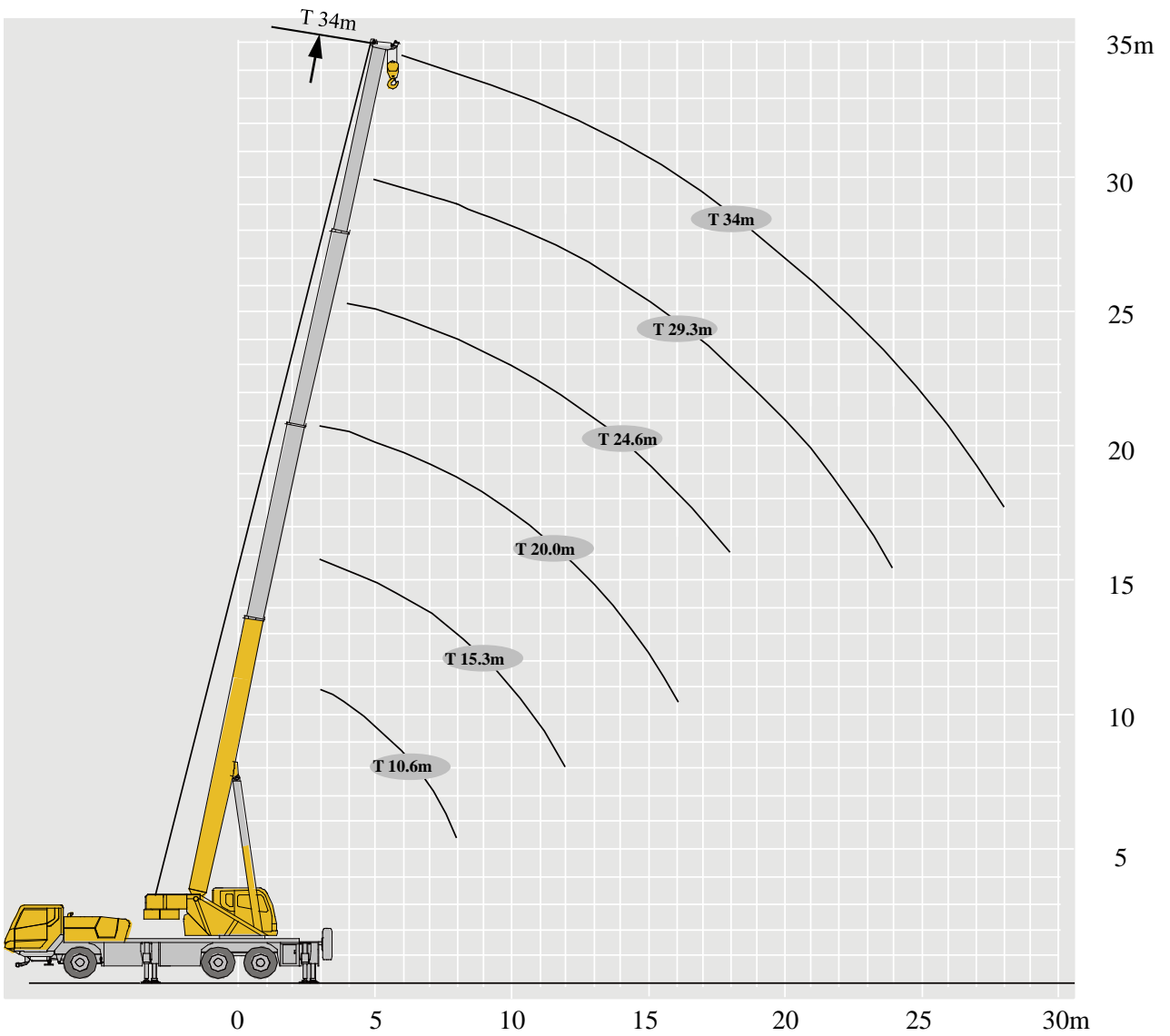
Boom


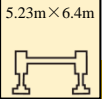


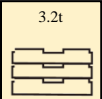

T: 10.6~34m

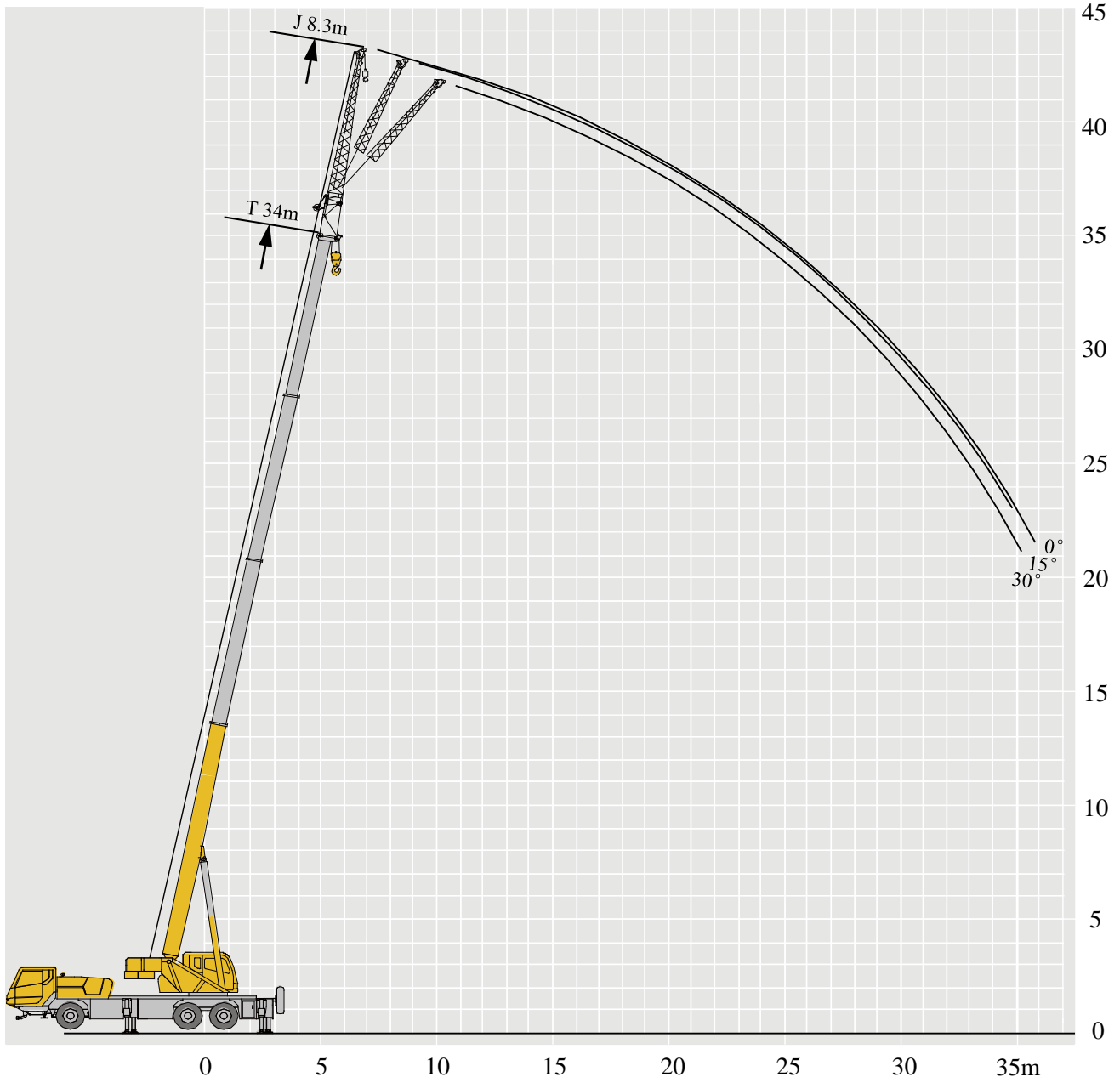
Jib


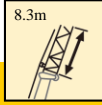
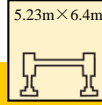


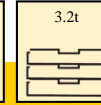
T: 10.6~34m

J: 8.3m



	 10.6	 15.3	 20.0	 24.6	 29.3	 34	
3	25.0	16.0					3
3.5	23.0	16.0	16.0				3.5
4	22.5	16.0	16.0	13.5			4
4.5	21.1	16.0	16.0	13.0			4.5
5	18.9	16.0	16.0	12.8	10.2		5
5.5	17.0	16.0	15.2	12.5	9.9		5.5
6	14.5	14.8	14.3	11.8	9.7	6.8	6
7	11.0	11.3	11.4	10.8	9.1	6.8	7
8	8.8	9.0	9.1	9.2	8.3	6.7	8
9		7.4	7.6	7.6	7.7	6.3	9
10		6.2	6.4	6.4	6.5	5.8	10
12		4.6	4.7	4.8	4.8	4.8	12
14			3.7	3.7	3.7	3.7	14
16			2.8	2.9	3.0	3.0	16
18				2.3	2.4	2.4	18
20				1.9	1.9	2.0	20
22				1.5	1.5	1.6	22
24					1.3	1.3	24
26					1.0	1.0	26



	     			
	0°	15°	30°	
79	2.8	2	1.6	79
78	2.8	2	1.6	78
76	2.8	1.85	1.5	76
74	2.7	1.8	1.45	74
72	2.6	1.75	1.4	72
70	2.45	1.6	1.35	70
68	2.35	1.55	1.3	68
66	2.2	1.45	1.25	66
64	2.05	1.35	1.2	64
62	1.9	1.25	1.15	62
60	1.75	1.15	1.1	60
58	1.6	1.05	1.05	58
56	1.4	1	1	56
54	1.2	0.95	0.95	54
52	1.1	0.9	0.9	52
50	0.9	0.8	0.75	50
45	0.7	0.55	0.55	45
40	0.5	0.4	0.4	40
35	0.3	0.3	0.3	35
30	0.2			30

Description of symbols

General symbols



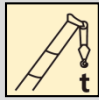

















	Superstructure		Chassis
	Lifting capacity		Axle
	Boom length		Travel speed
	Working radius		Grade ability
	Boom angle		Tires
	Boom lifting height		Outriggers
	Fixed jib length		Hook block
	Jib offset angle		Counterweight
	Jib lifting height		Winch
	Boom over side or over rear of the crane without 5th jack		With 5th jack down, 360° operation of the boom

Table of main technical parameters

Category	Item	Unit	Parameter	
Dimensions	Dimensions (L×W×H)	mm	12520×2550×3400	
	Wheel base	mm	4425+1350	
	Track (front/rear)	mm	2026/1843	
	Front overhang/rear overhang	mm	2442/2435	
	Front extension/rear extension	mm	1508/360	
Weight	Max. permissible total weight	kg	26300	
	Axle load	Axle 1	kg	6600
		Axle 2	kg	98500
		Axle 3	kg	98500
Power	Engine model	—	SC7H200G5E	
	Rated power/rotation speed	kW/(r/min)	149/2200	
	Max. net power/rotation speed	kW/(r/min)	147/2200	
	Max. output torque/rotation speed	N.m/(r/min)	860/1400	
Travel	Max. travel speed	km/h	≥50	
	Min. stable travel speed	km/h	2~3	
	Min. turning diameter	m	≤21	
	Min. turning diameter at boom head	m	25	
	Min. ground clearance	mm	266	
	Approach angle	°	16	
	Departure angle	°	13	
	Braking distance (initial speed at 30 km/h)	m	≤10	
	Max. grade ability	%	≥32	
	Fuel consumption per 100 km	L	30	

Table of main technical parameters

Category	Item		Unit	Parameter	
Main performance	Max. rated lifting capacity		t	25	
	Min. rated working radius		m	3	
	Turning radius at turntable tail	At counterweight	mm	3425	
		At auxiliary winch	mm	—	
	Max. load moment	Base boom	kN.m	930	
		Fully-extended boom	kN.m	572	
		Fully-extended boom + jib	kN.m	370	
	Outrigger span	Longitudinal	m	5.23	
		Lateral	m	6.4	
	Lifting height	Basic boom	m	10.9	
		Fully-extended boom	m	34.5	
		Fully-extended boom + jib	m	43.2	
	Boom length	Base boom	m	10.6	
		Fully-extended boom	m	34	
		Fully-extended boom + jib	m	42.3	
Jib offset angle		°	0, 15, 30		
Working speed	Time for raising boom		s	≤35	
	Time for fully extending the boom		s	≤53	
	Max. slewing speed		r/min	≤2.6	
	Time for extending / retracting the outriggers	Outrigger beam	Retracting	s	≤25
			Extending	s	≤35
		Outrigger jack	Retracting	s	≤20
			Extending	s	≤40
	Lifting speed (single line at 4th layer, no load)	Main winch	m/min	≥135	
Auxiliary winch		m/min	≥135		

Notes

1. This manual is for reference only, and all information is for illustration only. It should not be relied on to operate the crane. For correct crane operating instructions, please refer to the operation manual and rated lifting load manual.
2. The load capacity values in the tables are stated in t, which are the maximum total load capacity of the crane on a stable and even surface under the current boom length and radius, including the weight of hooks and riggings. The weight of the above devices must be subtracted during lifting operations.
3. The working radius is the horizontal gravity center distance of the load from the rotational axis of the crane superstructure measured at the ground.
4. Observe the boom angle limit. Never operate the crane with the boom angle beyond the recommended limit even if a load is not being carried.
5. A lifting operation is permissible only when the wind force is below grade 5 (instantaneous wind speed of 14.1 m/s, wind pressure of 125N/m²).



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