

TRUCK CRANE



80t





65m



XCMG's Hoisting machinery division is the leader in China's lifting industry focusing on the research, development and the production of mobile cranes. At XCMG's core is a commitment to technological innovation while utilizing the latest digital technologies to push the boundaries of product development and production while following our principles of social responsibility, building a sustainable and better future, and to create value for our customers. XCMG's Hoisting machinery division boasts a product range that includes, 5–220 mt truck cranes, 40–4000 mt all–terrain cranes, 25–150 mt rough terrain cranes, 30–160 mt telescopic crawler cranes and 45–4000 mt lattice boom crawler cranes. Our cranes are sold and serviced in more than 190 countries and regions worldwide.







Superb lifting performance
Superb driving performance
New appearance and humanized design
Smart and safe control



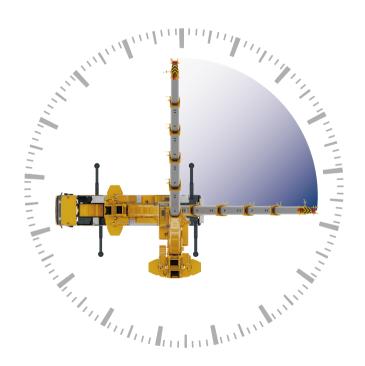
SUPERB LIFTING PERFORMANCE

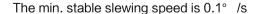
Innovative single-plate boom head and compact boom tail structure, best overlapping ratio in its class and stronger boom load-bearing capacity.

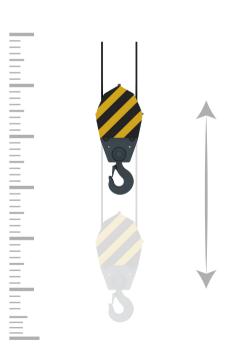


Efficient and reliable hydraulic system

- Adopted variable pump load sensing hydraulic control technology, low-speed large torque slewing system, fixed-displacement motor winch system, its displacement can be adjusted automatically with the change of main valve opening, which can reduce the energy consumption, and promote smoothness and inching control. Multi function operations to be used at all times, including duel, hook, luffing and slewing.
- Dual-pump independent and confluent control technology for efficient operation.
 Centralized lubrication system with regular automatic filling of lubricating oil.







The min. stable hoisting speed is 0.8–1m/min, 3 speed for hoisting operations, super slow, slow and fast

Low-placed H-shaped outriggers, higher safety

The front outrigger beams adopt low-placed H-shaped outriggers, and optimized box structure, which have greater load-bearing capacity.

Strong power, excellent travel performance

- Rated power 257 kW, maximum output torque 1700 N. M
- Mechanical transmission made by Shaanxi Fast Gear Co., Ltd., operated through a flexible shaft, with a synchronizer fitted.
- Off-road chassis, with approach angle of 22 °, ramp angle of 25 $\,^{\circ}$, and departure angle of 13 $\,^{\circ}$, meets the N3G off-road chassis standard, reaching industry-leading pass-ability under complex road conditions.
- Max. travel speed is 48 km/h and max. grade ability is 45%.





Braking and suspension system

- Foot pedal operated dual-circuit air pressure brake. Parking brake: spring-loaded brake, acting on the wheels of axles 2, 3 and 4.
- Auxiliary brake: engine exhaust brake and engine incylinder retarder brake.
- Leaf springs are adopted for front suspensions.
- Rubber suspension with V-type control arm for rear suspensions.

Full counterweight during jobsite transfer, economical and efficient

- ▶ 20 t full counterweight can be carried during shortdistance job site transfer. It is a model of "One-man operation of the machine", more economical to use.
- ▶ 385 large tires on the front axle, combined with highlevel reinforced tires for the entire vehicle, bring a 10% increase in load-bearing capacity, making driving safer.
- Optimized matching of the crane multi-state mass center allows the uniform distribution of front and rear axle loads in the travel configuration, more reliable in jobsite transfer.
- ➤ The anti-torsion box chassis structure, combined with axles of stronger bearing capacity, makes fullcounterweight jobsite transfer easy and efficient.

NEW APPEARANCE

New styling, extra-large space, large field of view, generous storage space, rich configuration, diverse configurations, providing delicate craft and comfortable driving.



DRIVER'S CAB

- Dust-proof, noise-canceling, highly-sealed cabs with soft instrument panel, flame-retardant, skid-proof, easy-to-clean mat, and thermallypressed, edge-sealed, non-woven fabric ceiling.
- ► Heater and air conditioner are standard.
- ► Electric window lifter.
- Mechanical shock-absorbing seat for main driver.

OPERATOR'S CAB

- Ergonomic design of workspace makes operation more comfortable and safer.
- ► T3 air conditioning, electric fan.
- Classic large arc-shaped operator's cab enables no obstruction above the viewing angle, providing a wider field of vision and undistorted viewing.



XCMG human-machine interaction system

- ► The human-machine interaction system enables friendly dialog between operator and the crane. Information about lifting operations can be known easily, leading to easier and more convenient use.
- ▶ LMI is equipped in the vehicle. LCD color screen can show the operation parameters of the crane with words and pictures in a clear and direct way, which makes the operation modes clear at a glance.

Luffing system

- Single luffing cylinder, with high reliability.
- ▶ Luffing counterbalance valve with load compensation function.

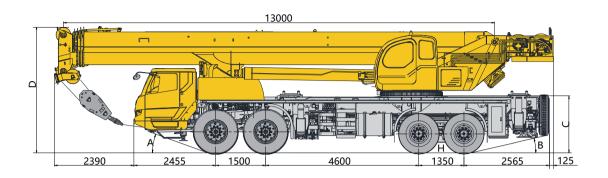
Winch system

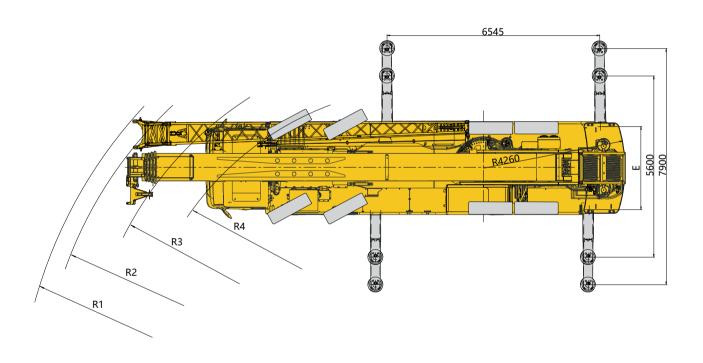
- Constant-displacement pump open-type hydraulic system with variable-displacement motor.
- Planetary gear reducer, constant closed brake.
- Max. single line pull: 49 kN.
- Max. lifting speed: 130 m/min.

User-friendly design makes operation and maintenance more convenient

- Widened winch rearview mirror for safer operation of winch.
- Over 20 inspection ports ensure the convenience of maintenance.
- Aluminum alloy fuel tank and stainless steel expansion tank.







	А	В	С	D	E	R1	R2	R3	R4	Н
385/95 R25 325/95R24	22°	13°	1715	3790	2800	15300	14800	13500	12000	373

	Chassis
Frame	The frame, designed and manufactured by XCMG, is made of high-strength steel with fully-covered walking surface and anti-torsion box-typed structure.
Outrigger	Four outriggers arranged in H-shape are hydraulically controlled by control levers. Double-stage outrigger beams are adopted. There are outrigger control levers located at each side of the chassis, and there is a level gauge, LED illuminator and speed buttons in each control panel. There is a check valve fitted in each outrigger cylinder, and a double-way hydraulic lock fitted in each jack cylinder. Float dimension: 435 mm × 435 mm Reaction force of outrigger at max. lifting load: 784 kN.
Engine	WP10HG350E670, in-line, 6-cylinder, water cooled, electrical diesel engine manufactured by Weichai, with rated power of 257 kW/1900 rpm and max. torque of 1700 Nm/1000~1400 rpm. Max. engine reference torque can reach 1852N.m. Compliant with India BS V emission standard. AdBlue tank capacity: 34.3 L Fuel tank capacity: approx. 430 L.
Transmission	Manual transmission, made by Shaanxi Fast Gear Co., Ltd., 10-forward speed and 2-reverse speed.
Axles	High strength axles, made by famous manufacturers. Axles 1 and 2 are for steering, while axles 3 and 4 are for driving.
Suspension system	Leaf spring suspension is used as front suspension, and rubber suspension is used as rear suspension.
Tires	12 tires and 1 spare tire, 1st and 2nd axles are equipped with single tire, 3rd and 4th axles are equipped with double-tire. Tire specifications: 385/95R25 (front axles) 325/95R24 (rear axles)
Brake	Service brake: dual-circuit air pressure brake acting on all wheels. Parking brake: spring-loaded brake, acting on the wheels of axles 2, 3 and 4. Auxiliary brake: engine in-cylinder retarder brake.
	ABS Assembly
Steering system	Axles 1 and 2 are mechanically steered + hydraulic power assistance.
Driver's cab	Windshield with wide visual field, electric wiper and electric window lifters are available; heater and air conditioner can let the air blow face or feet or realize defrosting; radio player is also equipped. Mechanical shock-absorbing seat for the driver, while dual sleeper for the codriver's seat. Fire extinguisher of 3 kg.
	Backup camera
Electrical system	24 V DC, two sets of 12 V battery in series. Generator: 28 V-80 A.
Symbol explana	st is as mentioned above. Please refer to the product quotation for specific parts. ation d configurations; O —— Optional configurations.

4	Superstructure
Structure	Designed and manufactured by XCMG, made of high strength steel.
Hydraulic system	Variable pump driven by chassis engine, used for hoisting, luffing and telescoping operations. Load sensing proportional multi-way change valve with impact resistance valve and cavitation- proof valve integrated; air-cooled hydraulic oil cooler. Tank capacity: 1206 L
Operating method	Pilot hydraulic control is used for controlling the superstructure. All crane movements are controlled by the hydraulic pump and proportional valve through two control levers on the left and right sides.
Hoisting gears	Hydraulic control is used for speed regulation. The system is driven by a hydraulic motor through a planetary gear reducer, with a normally closed brake, a balance valve and a grooved drum equipped.
Slewing system	Four-point contact-ball slewing ring is driven by the planetary gear reducer of slewing mechanism, which is driven by a hydraulic motor, and may continuously slew 360 °. Power control and free slewing function as well as stepless speed regulation are available. There is a horn switch fitted on the slewing control lever.
Luffing system	A front support dual-acting hydraulic cylinder is equipped for luffing operation, with a counterbalance valve fitted.
	Heater and air conditioner
Operator's cab	New steel cab is equipped with a front window. Safety glass and sun shield are used for windows. Standard controls and indicators are ergonomically arranged in the cab. The cab features a new ergonomic seat design with backrest adjustment and armrests with joysticks fitted. Wipers are fitted for the windshield and roof window.
Safety devices	Hydraulic balance valve, hydraulic relief valve, double-way hydraulic valve, LMI, lowering limiter for preventing wire rope from over-releasing, anti-two block at boom head for preventing wire rope from over-winding and tri colored light bar.
	8t
Combined	5t
CWT	5t
	2t
Hook block	55t hook block
I TOOK DIOCK	5.5t hook block

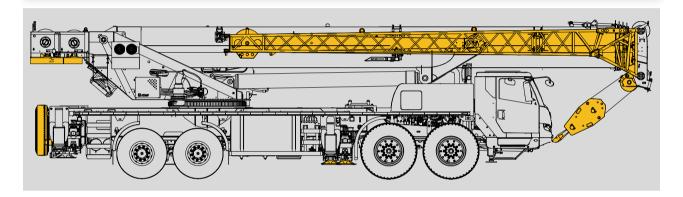
NEW S	Boom and jib system
Boom	5-section boom with U cross-section, welding structure. Double-cylinder plus ropes telescoping system Boom length: 13m ~ 50.5m.
Auxiliary sheave	Installed at the boom top, used for single line operation. Its lifting performance is the same with that of boom, but the max. lifting load can not exceed 5.5t.
	Lattice structure for 1st section and box–type structure for 2nd section. Three offset angles of 0° , $_\bullet$ 15° and 30° .
Fixed jib	Fixed jib length: 9.5 m.
	Fixed jib length: 16m.
-	arts list is as mentioned above. Please refer to the product quotation for specific parts. ⟨planation ● —— Standard configurations; ○ —— Optional configurations.



Axle	1	2	3	4	Total weight
t	10.5	10.5	12.95	12.95	46.9 ¹)
t	11.35	11.35	21	21	64.7 ²)

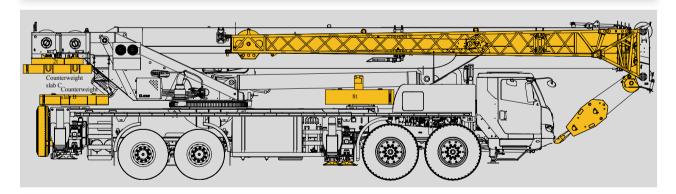
1) Traveling configuration: jib, 2t fixed counterweight at the tail of the turntable, 55t hook block, 5.5t hook block, auxiliary sheave, spare tire and spare tire bracket, counterweight bracket, front outrigger floats are carried; the counterweight slab B of 5t and 8t, and counterweight slab C of 5t are removed.

Steering mode: 8 × 4 × 4; tire specifications: 385/95R25 tires for axle 1 and 2 and 325/95R24 tires for axle 3 and 4.



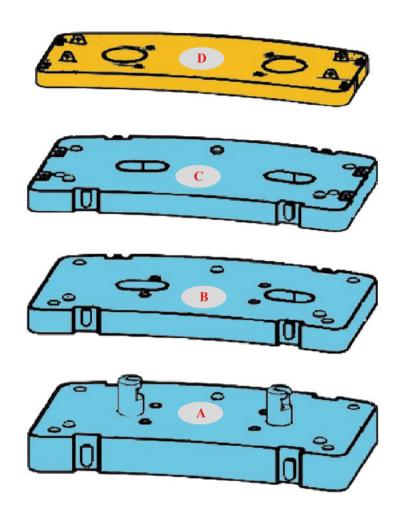
2) Short distance job site transfer: on the basis of the crane in traveling configuration, with maximum traveling speed of 10km/h: counterweight slab B of 5t and 8t at the vehicle tail, counterweight slab C of 5t at the turntable tail are carried.

Steering mode: $8 \times 4 \times 4$; tire specifications: 385/95R25 tires for axle 1 and 2 and 325/95R24 tires for axle 3 and 4.





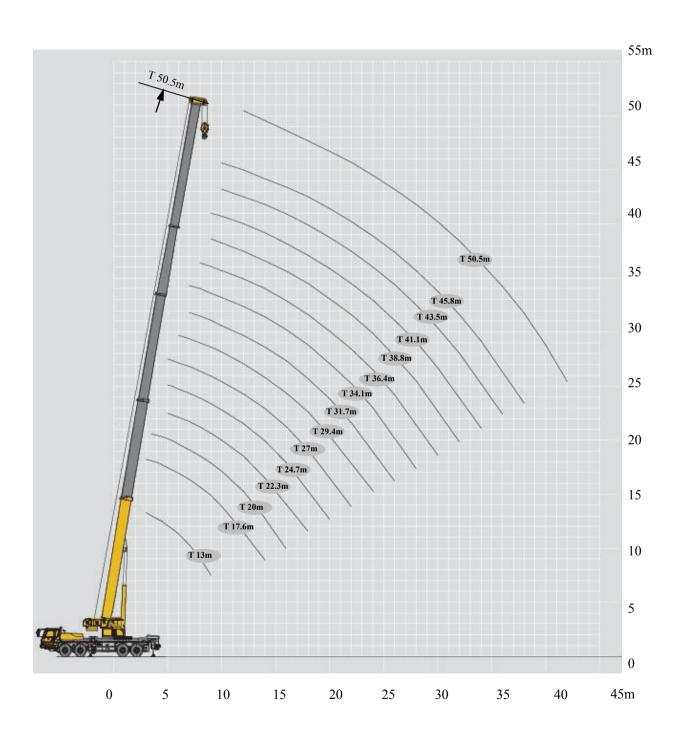
Hook block	Parts of line	Weight of hook block (kg)	Dimension (mm)	Remarks
55t	9	470	1586 × 520 × 452	Single hook block
5.5t	1	150	717 × 370 × 370	Single hook block



Counterweight	А	В		С	D	
Dimensions (L × W × H) (mm)	2790 × 1652 × 690	2790 × 1652 × 260) 2790×	1652×240	2730 × 1242 × 226	
Weight (t)	8	5		5	2	
Operation modes	20t	15t	10t	7t	2 t	
Combinations	A+B+C+D	A+C+D	A+D	C+D	D	
Remark: the counterweight slab	os in blue are not inclu	ded in traveling confi	guration.			



T: 13~50.5 m T	: 50.5 m 9.5/16 m













T 13-50.5m

	13	17.6	20	22.3	24.7	27	29.4	31.7	34.1	36.4	38.8	41.1	43.5	45.8	50.5	
3	80	70														3
3.5	75	68	34													3.5
4	70	67	34													4
4.5	66	63	34													4.5
5	60	60	34	40	34	31.5										5
5.5	55	54	34	40	34	31.5										5.5
6	50	49	34	40	34	31.5	34									6
7	43	42	34	38	34	30	32	32	21.8							7
8	37	35	34	34	34	29.5	28.9	31	20.8	25.3						8
9	32	31	30.7	30.8	31	27.5	26.4	29	18.9	23.2	20.5	16.7				9
10		27	28.5	28.1	27.5	26	24.1	26	17.7	21.3	19.2	16	18.1	14.9		10
12		21	21.8	20.9	22.5	22	20.4	22.5	15.8	18.4	17.5	14.4	16.2	13.6	12.6	12
14			18	15.7	17.6	18.2	17	18.3	14.2	15.9	15.7	13.1	14.2	12.4	11.7	14
16			14.5	12	13.9	15.3	13.4	14.6	12.8	13.8	14.2	11.9	12.7	11.3	10.8	16
18				9.3	11.3	12.6	10.7	12	11.8	11.5	12.4	10.8	11.2	10.2	10	18
20					9	10.6	8.7	9.9	10.7	9.4	10.4	9.6	9.9	9.4	8.8	20
22						8.8	7	8.3	9.3	7.9	8.8	8.9	8.3	8.6	8.1	22
24				-			5.7	7	8	6.6	7.5	8.1	7	7.7	7.4	24
26								6	6.9	5.5	6.4	7.2	6	6.7	6.4	26
28				-					6	4.6	5.5	6.3	5.1	5.8	5.5	28
30										3.8	4.7	5.5	4.3	5	4.7	30
32											4	4.8	3.7	4.4	4	32
34												4.2	3.1	3.8	3.5	34
36													2.6	3.3	3	36
38														2.8	2.5	38
40															2.1	40
42															1.8	42
							-									





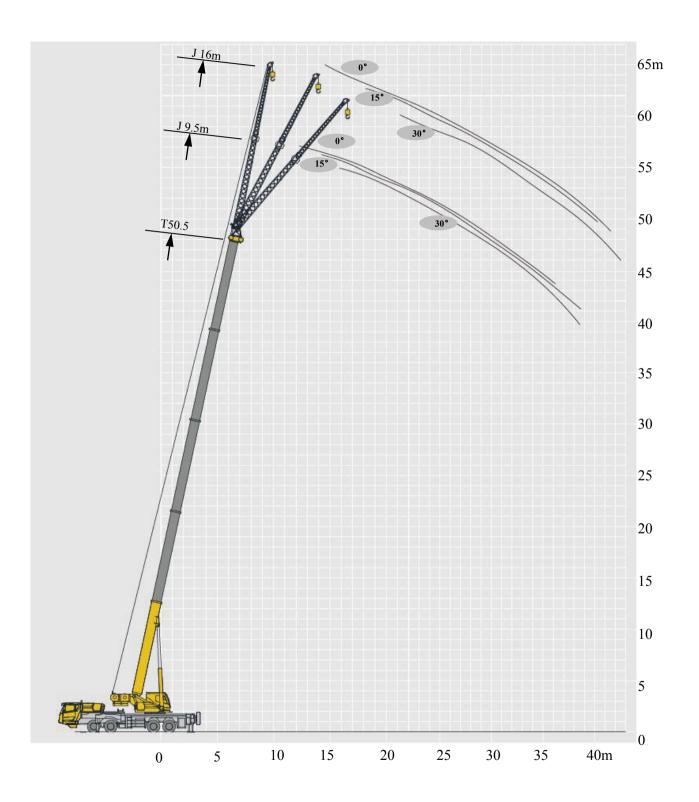






T 13-50.5m

	13	17.6	20	22.3	24.7	27	29.4	31.7	34.1	36.4	38.8	41.1	43.5	45.8	50.5	
3	80	70														3
3.5	75	68	34													3.5
4	70	67	34													4
4.5	66	63	34													4.5
5	60	60	34	40	34	31.5										5
5.5	53	53	34	40	34	31.5										5.5
6	48	48	34	40	34	31.5	34									6
7	40	40	34	38	34	30	32	32	21.8							7
8	34	34	34	33	34	29.5	28.9	31	20.8	25.3						8
9	30	30	30.5	29	30	27.5	26.4	29	18.9	23.2	20.5	16.7				9
10		25.5	26.5	25	26.5	26	24.1	26	17.7	21.3	19.2	16	18.1	14.9		10
12		18.2	20.7	17.8	19.8	21.4	19.2	20.6	15.8	18.4	17.5	14.4	16.2	13.6	12.6	12
14			15.8	13.2	15	16.5	14.5	15.8	14.2	15.2	15.7	13.1	14.2	12.4	11.7	14
16			12.5	10	11.8	13.2	11.3	12.5	12.8	12	13	11.9	12.5	11.3	10.8	16
18				7.7	9.4	10.8	8.9	10.1	11.2	9.6	10.6	10.8	10.1	10.2	10	18
20					7.6	9	7.1	8.3	9.3	7.8	8.8	9.6	8.3	9	8.6	20
22						7.5	5.7	6.9	7.9	6.4	7.3	8.1	6.9	7.6	7.2	22
24							4.6	5.7	6.8	5.3	6.2	7	5.7	6.5	6.1	24
26								4.8	5.8	4.4	5.2	6	4.8	5.5	5.1	26
28									4.9	3.5	4.4	5.2	4	4.7	4.3	28
30										2.9	3.7	4.5	3.3	4	3.6	30
32											3.1	3.9	2.7	3.4	3	32
34												3.4	2.2	2.9	2.5	34
36													1.8	2.5	2.1	36
38														2.1	1.7	38
40															1.3	40



J 10.5m/17.5m













		9.5 m					
	0°	15°	30°	0°	15°	30°	
80	5.5	5.5	2.7	4.0	2.9	1.4	80
78	5.5	5.3	2.5	4.0	2.8	1.3	78
75	5.5	4.9	2.3	4.0	2.5	1.2	75
72	5.5	4.5	2.1	4.0	2.1	1.2	72
70	5.5	4.3	2.0	3.7	2.0	1.2	70
65	4.8	3.8	1.8	3.2	1.8	1.0	65
60	3.6	3.2	1.7	2.6	1.6		60
55	2.9	2.6	1.7	2.1	1.5		55
50	2.2	2.1	1.6	1.5	1.3		50













		9.5 m					
	0°	15°	30°	0°	15°	30°	
80	5.5	5.5	2.7	4.0	2.9	1.4	80
78	5.5	5.3	2.5	4.0	2.8	1.3	78
75	5.5	4.9	2.3	4.0	2.5	1.2	75
72	5.5	4.5	2.1	4.0	2.1	1.2	72
70	5.5	4.3	2.0	3.7	2.0	1.2	70
65	4.5	3.8	1.8	3.2	1.8	1.0	65
60	3.1	2.9	1.7	2.6	1.6		60
55	2.2	2.1	1.7	1.8	1.5		55
50	1.6	1.5	1.4	1.2	1.1		50













	9.5 m			16 m			
	0°	15°	30°	0°	15°	30°	
80	5.5	5.5	2.7	4.0	2.9	1.4	80
78	5.5	5.3	2.5	4.0	2.8	1.3	78
75	5.5	4.9	2.3	4.0	2.5	1.2	75
72	4.4	3.8	2.1	3.6	2.1	1.2	72
70	3.5	3.1	2.0	2.8	2.0	1.2	70
65	1.9	1.8	1.7	1.6	1.4	1.0	65

Category		Item	Unit	Parameters	
Dimensions	Dimensions (L×W×H)		mm	14985 × 2800 × 3790	
	Axle spacing		mm	1500+4600+1350	
	Track (front/rear)		mm	2400/2063	
	Front overhang/rear overhang		mm	2455/2565	
	Front extension/rear extension		mm	2390/125	
Weight	Maximum permissible weight		kg	46900	
		Axle 1	kg	10500	
		Axle 2	kg	10500	
	Axle load	Axle 3	kg	12950	
		Axle 4	kg	12950	
Power	Engine model			WP10HG350E670	
	Rated power/rotation speed		kW/(r/min)	257/1900	
	Max. net power/rotation speed		kW/(r/min)	252/1900	
	Max. output torque/rotation speed		N.m/(r/min)	1700/1000 ~ 1400	
	Max. travel speed		km/h	48	
	Min. stable travel speed		km/h	1.7~3	
	Min. turning diameter		m	≤ 24	
	Min. turning diameter at boom head		m	≤ 30.5	
Tuestal	Min. ground clearance		mm	373	
Travel	Approach angle		0	km/h 48 km/h 1.7~3 m ≤ 24 m ≤ 30.5 mm 373	
	Departure angle		0	13	
	Braking distance (initial speed at 38.4 km/h)		m	≤ 15.2	
	Max. grade ability (%)		%	45	
	Fuel consumption per 100 km		L	43	
Neiss	Exterior noise level when accelerating		dB(A)	≤ 84	
Noise	Noise level at seated	position	dB(A)	≤ 90	

Category		Item		Unit	Parameters
	Maximum rated lifting capacity	t	80		
	Minimum rated working radius	m	3.0		
	Tuming we dive at the match to tall	At counterweight		mm	4460
	Turning radius at turntable tail	At auxiliary winch		mm	4293
		Base boom		kN.m	2965
	Maximum load moment	Fully-extended be	oom	kN.m	1764
		Fully-extended be	Fully-extended boom + jib		1237
Main	Longitudinal			m	6.545
performance	Outrigger span	Lateral		m	7.9 (5.6)
		Basic boom		m	13.3
	Lifting height	Fully-extended be	Fully-extended boom		50.5
		Fully-extended boom + jib		m	65
		Base boom		m	13
	Boom length	Fully-extended boom		m	50.5
		Fully-extended boom + jib		m	66.5
	Jib offset angle	0	0, 15, 30		
	Time for raising boom	s	≤ 55		
	Time for fully extending the boor	s	≤ 125		
	Max. slewing speed			om + jib m 66	≥ 1.8
	Time for extending / retracting the outriggers	Outrigger beam	Retract	s	30
Working speed			Down	s	40
-,		Outrigger jack	Up	s	30
			Down	s	40
	Hoisting speed	Main winch system		m/min	135
	(single line, 4th layer, unloaded)	Auxiliary winch		m/min	90
NI - i -	Exterior noise level			dB (A)	109
Noise	Noise level at seated position			dB(A)	85

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Materials and specifications are subject to change without notice.

Featured machines in photos may include additional equipment.

See your XCMG dealer for available options.

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