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Jan 1, 2014
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XCMG For Your Success

Engine model	WP12.430E40/ISM11E4 440
Rated power(kW)	316/318
Rated torque(N.m)	2060/2080
Length*width*height(mm)	15295*3000*3820

XCT100

TRUCK CRANE



担大任行大道成大事



XCT100 TRUCK CRANE

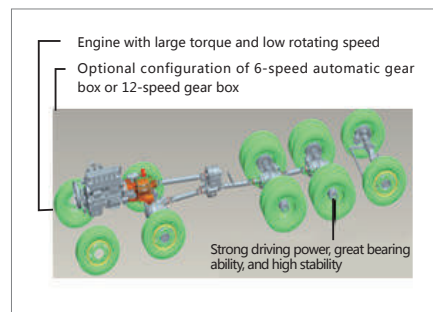


1 /Advanced Performance

- Six section of U shaped main boom (13.1-61m); upgraded dimension proportion of the U shape; fully extended boom longer than other brands with of same tonnage; lifting capacity improved by 30% over the old model; lifting capacity at short and medium boom length 5-7% better than other brands; lifting capacity at long and fully extended boom length 8-15% better than other brands; working efficiency improved by 15% over the old model.



- A five axle under carriage is applied; Large torque engine and automatic gearbox are applied; Max traveling speed reaches 80km/h; Max grading ability is 45%.
- Optional power system configuration including Xi'an Cummins engine + Allison automatic gear box, or Weichai engine + Shanchi gear box.
- The K-shaped outrigger(7.9m*7.7m) features high rigidity and reliability. Stability during lifting work is 7% higher than other brands.



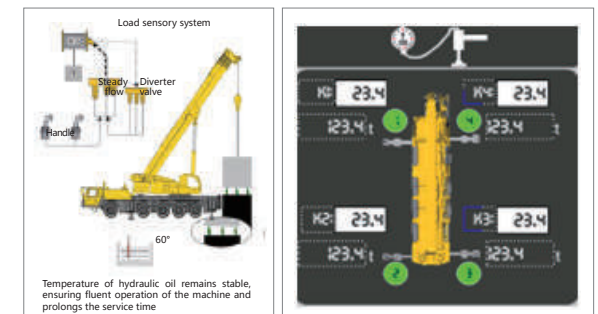
2 /Intellectual Control

- Wireless remote control of counter-weight attaching allows wider scope of operation, fends of the problem of water proof in remote control via cable and therefore improves the reliability of the counter-weight attaching system.
- The remote control applies large memory storage and touch screen. It is easier to operate.
- Variable control of working speed guarantees high accurate lifting.

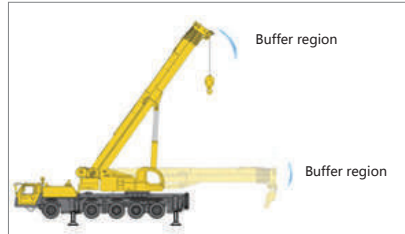


3 /Safe and Reliable Technology

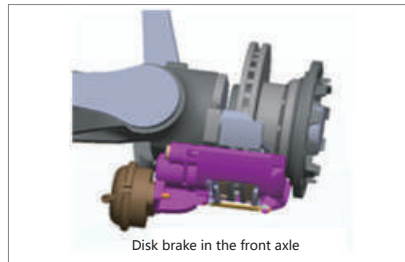
- The sensitive hydraulic system with high pressure and high flow ensures a 20% improvement of working speed. Electronic variable pilot control and main valve throttle design reduce pressure loss and improve the micro-motion performance by 10%. The telescopic system applies mechanic, electronic and hydraulic control at the same time which ensures high reliability of telescopic performance.
- Real time inspection of outrigger pressure; alarm when over-pressure and uneven distribution of pressure.



- A working mode of "Repair & Maintenance" is added to ensure the stability of the machine during retracting of the boom so as to ensure safety during repair and maintenance.
- A buffering system is added to reduce the shock during slewing and luffing.

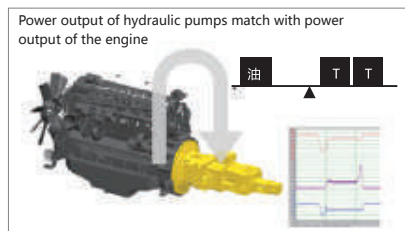


- Disk brake in the front and drum brake in the rear ensure good braking performance, long service life, easy maintenance, good cooling performance, etc. The system allows repeated braking in mountain roads and good braking performance during high speed traveling.



4 /High Efficient Power System

- Output power of hydraulic pumps matches with the performance of the engine in all working conditions, which avoids power loss and saves fuel by 20%. When overloaded, hydraulic pumps will adjust the flow automatically to self-protect and avoid engine shut-down so as to prolong service life of the engine.



5 /Humanized Design

- The new XCT outlook is applied featuring fine streamline, steady appearance, good architects, etc. which gives you excellent visual experience. The double cab design helps to reduce fatigue in operation; the second cab can be used as a resting area for the operator; the safety channel for getting on and off guarantees safety during repairing and maintenance.



TOTAL RATED LIFTING LOAD

XCT100 Total rated lifting load for boom

Working scope	XCT100 main boom performance											
L/R	13.1	17.5	21.9	26.3	30.7	35.1	39.5	43.9	48.4	52.8	57.2	61
3	100.0	91.0										
3.5	100.0	89.0										
4	97.0	86.5	81.0	65.0								
4.5	90.0	82.5	76.0	65.0								
5	84.0	75.0	70.0	64.0	52.0							
6	73.0	69.0	63.0	62.0	50.0	43.3						
7	60.0	62.0	56.0	59.0	48.0	35.0	33.2					
8	54.0	52.0	52.0	53.0	43.5	33.0	28.0	25.0				
9	46.0	47.0	47.5	48.0	40.0	30.0	27.0	24.0	23.0			
10	39.5	43.0	40.0	43.8	37.0	27.6	25.5	23.5	20.0	18.0		
12		34.5	34.5	34.5	32.0	24.0	22.0	22.5	19.0	16.5	14.0	11.4
14		27.5	27.5	26.7	27.5	21.0	19.0	19.0	18.0	15.0	12.5	10.5
16			23.8	22.0	22.1	18.5	16.0	16.8	16.5	13.7	11.5	10.0
18			19.6	19.5	19.5	17.0	14.8	15.4	15.3	12.8	10.7	9.5
20				16.7	16.5	14.5	13.2	14.5	14.0	12.0	10.0	9.0
22				14.3	14.1	13.0	12.3	13.2	13.0	11.0	9.4	8.5
24					12.2	11.2	11.0	11.5	11.5	10.0	8.6	8.0
26					10.7	10.2	10.8	10.0	9.9	9.2	8.1	7.4
28						8.4	9.4	9.0	8.6	8.5	7.5	7.0
30						7.7	8.3	8.6	7.8	7.7	7.1	6.4
32							7.3	7.6	7.1	6.7	6.7	6.0
34							6.4	6.7	6.3	6.2	6.2	5.6
36								6.0	5.8	5.8	5.5	5.1
38									5.4	5.3	4.9	4.7
40										4.8	4.7	4.3
42											4.1	3.7
44												3.7
46												2.9
48												2.5
50												2.2
52												1.9

Note: numbers in the chart are maximum lifting capabilities of the machine under different boom length. For real lifting ability please consult the detailed performance table.

TOTAL RATED LIFTING LOAD

XCT100 Total rated lifting load for jib

Fully extended outrigger7.9m Counter-weight36t															
52800			57200			61000			52800			61000			
L	10600					18100									
R/A	0	15	30	0	15	30	0	15	30	0	15	30	0	15	30
16	7.0														
18	7.0	5.4		7.0			7.0								
20	6.8	5.2	3.5	6.8	5.2		6.4	5.2		3.2					
22	6.3	4.9	3.3	6.3	4.9	3.3	6.0	4.9	3.3	3.0	2.4		3.2		3.2
24	5.9	4.7	3.3	5.9	4.7	3.3	5.6	4.7	3.3	3.0	2.2		3.0		3.0
26	5.6	4.4	3.2	5.6	4.4	3.2	5.4	4.4	3.2	2.8	2.2	1.8	2.8	2.2	2.8
28	5.3	4.2	3.2	5.3	4.2	3.2	5.2	4.2	3.2	2.8	2.2	1.8	2.8	2.2	1.8
30	5.1	4.0	3.0	5.1	4.0	3.0	4.9	4.0	3.0	2.6	2.0	1.8	2.6	2.0	1.8
32	4.7	3.9	3.0	4.7	3.9	3.0	4.6	3.9	3.0	2.6	2.0	1.8	2.6	2.0	1.8
34	4.5	3.7	2.8	4.5	3.7	2.8	4.2	3.7	2.8	2.4	2.0	1.6	2.4	2.0	1.6
36	4.2	3.6	2.8	4.2	3.6	2.8	3.9	3.5	2.8	2.4	2.0	1.6	2.4	2.0	1.6
38	4.0	3.5	2.7	4.0	3.5	2.7	3.8	3.4	2.7	2.2	1.8	1.6	2.2	1.8	1.6
40	3.7	3.4	2.7	3.6	3.4	2.7	3.5	3.2	2.7	2.2	1.8	1.6	2.2	1.8	1.6
42	3.5	3.3	2.7	3.2	3.3	2.7	3.2	3.1	2.7	2.2	1.8	1.6	2.0	1.8	1.6
44	3.2	3.2	2.5	2.9	3.0	2.5	2.9	3.0	2.5	2.0	1.8	1.6	2.0	1.8	1.6
46	2.9	2.9	2.5	2.6	2.7	2.5	2.6	2.6	2.5	2.0	1.8	1.6	1.9	1.8	1.6
48	2.6	2.6	2.4	2.3	2.4	2.5	2.3	2.4	2.5	2.0	1.6	1.6	1.6	1.5	1.6
50	2.3	2.4	2.3	2.0	2.1	2.2	2.0	2.1	2.2	2.0	1.6	1.5	1.5	1.5	1.4
52	2.0	2.1	2.2	1.8	1.9	2.0	1.7	1.9	2.0	1.8	1.6	1.4	1.5	1.5	1.4
54	1.8	1.9	1.9	1.6	1.7	1.7	1.5	1.7	1.7	1.8	1.6	1.4	1.5	1.5	1.4
56				1.4	1.4	1.4	1.4	1.4	1.4	1.7	1.6	1.4	1.4	1.5	1.4
58							1.1	1.2	1.3	1.5	1.5	1.4	1.2	1.2	1.2
60										1.3	1.4	1.3		1.1	1.2
Telescopic mode	12222			22222			33333			12222			22222		33333

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TECHNICAL SPECIFICATIONS

Unit

XCT100

Dimensions

Length*width*height mm 15295×3000×3820

Weight

Max. allowable load	kg	55000
Load on axle No.1	kg	10000
Load on axle No.2	kg	10000
Load on axle No.3	kg	13000
Load on axle No.4	kg	13000
Load on axle No.5	kg	9000

Travel

Approaching angle	°	18
Departure angle	°	13
Max. traveling speed	km/h	80
Max. grading ability	%	45
Min. turning radius	m	23
Min. ground clearance	mm	312

Power

Engine model		WP12.430N	ISME420 30	WP12.430E40	ISM11E4 440
Rated power/rotate speed	kW/(r/min)	316	306	316	318
Rated torque/rotate speed	N.m/(r/min)	2060	2010	2060	2080

Lifting performance

Max lifting capacity	t	100
Min luffing angle	m	3
Slewing radius of the rear of the rotary platform	mm	4500
Max lifting moment	kn.m	4380
Basic boom	m	13.1
Fully extended main boom	m	61
Fully extended main boom and auxiliary boom	m	79.1
Longitudinal distance of outriggers	m	7.7
Lateral distance of outriggers	m	7.9

Working speed

Fixing angle of auxiliary jib	°	0° 、 15° 、 30°
Luffing time of the main boom	s	60
Full extension time	s	420
Slewing speed	r/min	2
Lifting speed(single rope) Main lifting mechanism(with no load)	m/min	130
Lifting speed(single rope) Auxiliary lifting mechanism(with no load)	m/min	130