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FOR YOUR SUCCESS

XCA100

All-terrain crane

XCA100

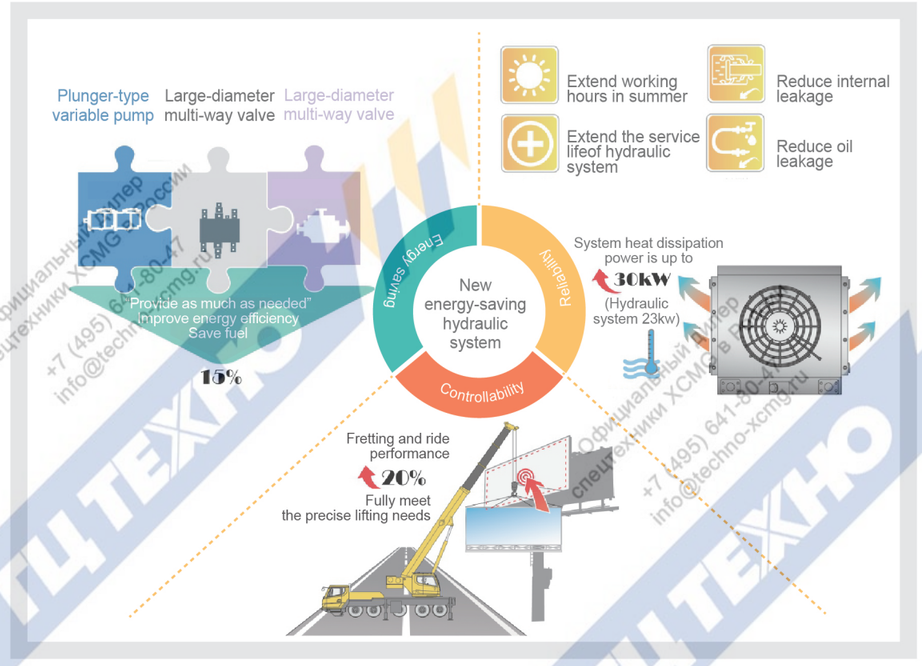
ALL–TERRAIN CRANE

Product advantages

Lightweight design and the world's strongest operating performance

- The latest whole machine optimization and matching technique and the lightweight design of various components.
- Seven-section high-strength U-section main boom, full main boom length of 60m and maximum main boom + jib lifting height of up to 88m.

New energy-saving hydraulic system, lower operation fuel consumption, bette fretting property and more perfect control experience



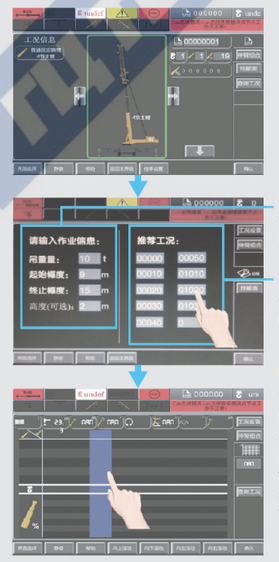
G12 – Smart Crane Boom Technologies

G12A- Automatic Operating Condition Planning

After the user inputs on the display relevant information including object weight, operation start and ending ranges, and height information, the system can automatically recommend the simplest operating condition that meets the lifting requirements. The user can inquire or set up the operating condition anywhere at any time, thus making it unnecessary to carry related materials and equipment, streamlining the operating condition setup procedure, and reducing the misoperation rate.

Now

Automatic operating condition planning

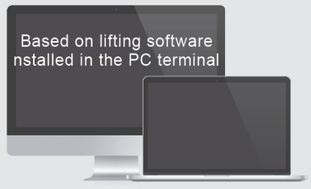


Enter the relevant operating condition page in the performance table,and you can make selection according to your requirements.

Inquiry time <=10s; ten optimal operating condition profiles are recommended.

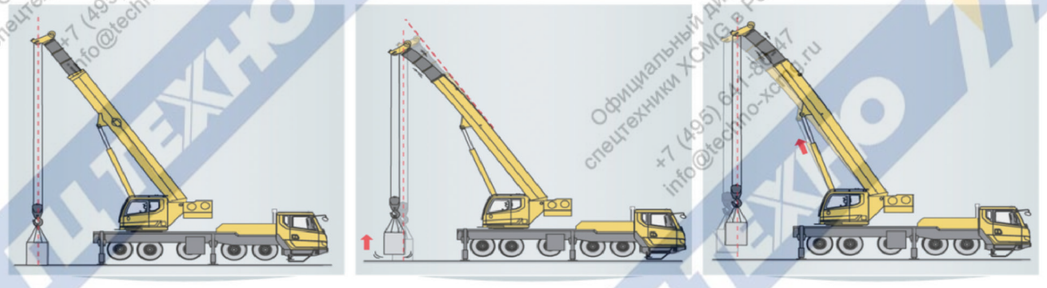
Standardize the user's operations, improve the product's operation safety, provide the user with most effective lifting scheme, and maximize the operating efficiency.

Before



G12B – Lifting Range Change Compensation Control Technology

The range change caused by the crane boom deformation during hook lifting or release can be automatically compensated through controlling the boom angle. Such a technology can prevent the vertical lifting operation from being affected by the increase in boom deflection and reduce the lifting difficulty, thus freeing the driver from worry and making lifting operations safer.



Prepare to carry out lifting operation

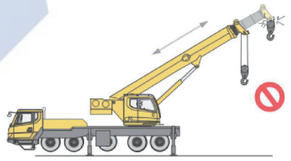
Boom deformation just when the object leaves the ground

Automatic range compensation for vertical lifting

G12C – Hoisting Servocontrol Technology

- During a boom stretch, retraction, or range change, the control system automatically functions to control the hoister's release or retraction, thus saving the operation time by more than 20%, reducing the operating difficulty for the driver, controlling the risk artificially, and making operations safer and more reliable.

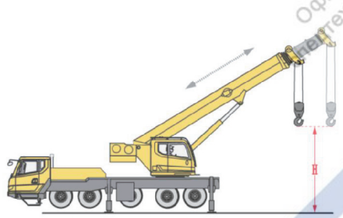
Hoisting servocontrol technology not adopted



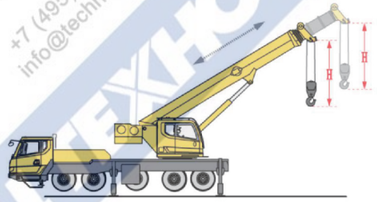
Hoisting servocontrol technology

Operation safety ↑
Operation time ↓

Range change (same distance to ground) Servocontrol mode



Stretch/retraction (same distance to ground) Servocontrol mode

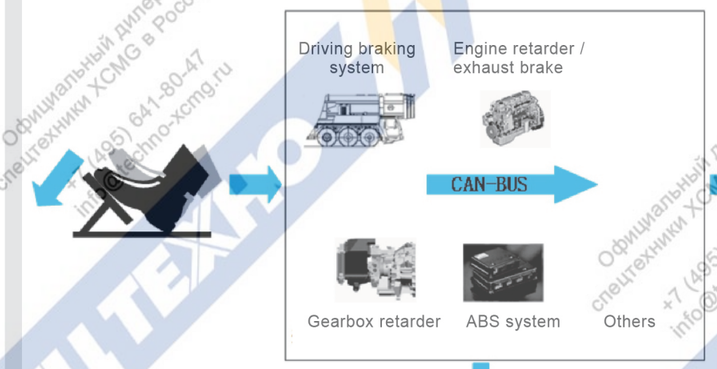


Stretch/retraction (same distance to boom end) Servocontrol mode

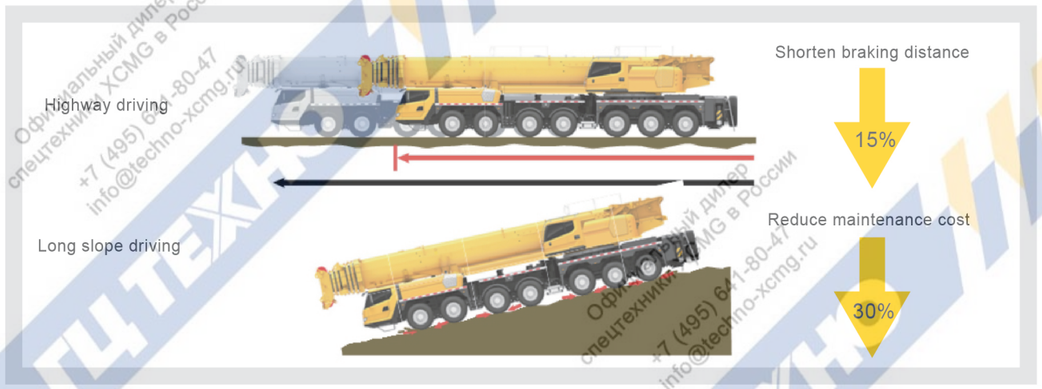
Break the traditional crane control concept and originally design the intelligent crane jib technology to provide you with a comfortable intelligent operating experience

Integrated brake management function

- Adjust the whole mahine system matching according to city, town, high-speed and rough terrain working condition to achieve the optimal whole mahine performance and meet the driving demands in multiple working conditions.
- Multi-system retarder control to reduce the braking system wear in long downhill driving and improve the service life of braking system.



Dynamically allocate various braking forms: precise brake control to prevent invalid or inadequate brake; automatically adjust the brake complementation to ensure gentle braking force change.

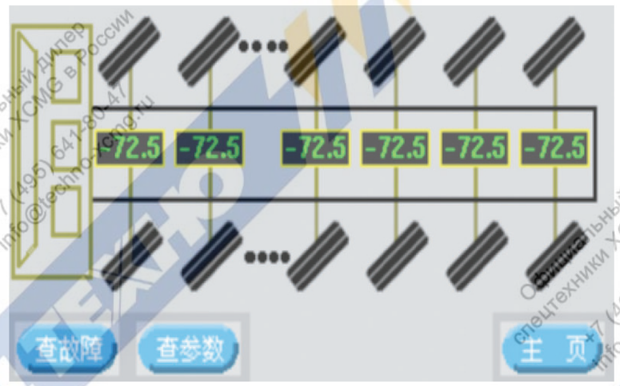


Multi-mode full-bridge steering function

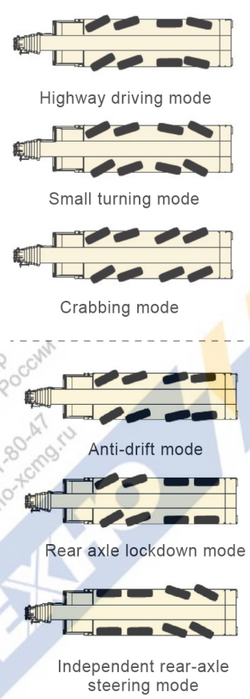
- Six steering modes adapt to various working conditions and conduct the optimal control of each rotation angle to achieve the optimal steering pose and less tire wear;
- The unique control system can achieve the steering control accuracy of less than 0.5 degree and the response time of less than 1 second;
- More than 30 fault codes and the one-click query of fault locations and parameters make the commissioning and maintenance more convenient;
- 69 steering failure protection modes with the dynamic steering monitoring function to provide a higher security.

Electronically controlled multi-axis steering monitoring

Current mode	Normal highway driving	Target mode	Normal highway driving
System status	Steering system is normal	System fault	System fault
Driving parameter	0 km/h	Rpm	P1 bus fault



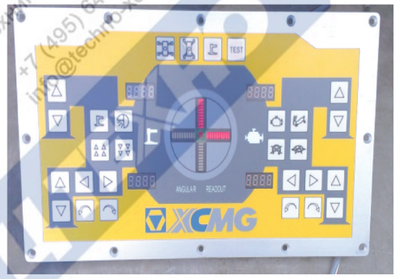
Fault check Parameter check Homepage



Multi-mode full-bridge steering function

- Fully sealed wiring harness with a protection class of IP67, making the electrical system operation more stable and reliable;
- The bus control outrigger operation panel transfers the outrigger operation data more quickly, stably and accurately;
- Suspension pressure detection can condcut the real-time and intelligent axle load data which is involved in the whole machine speed and steering control, making the driving safer.

Sealed wiring harness



Bus outrigger control panel

The industry's first car-class man-machine interactive system of XCMG makes the manipulation easier and more convenient

- Three regions: security protection, lifting action and manipulation environment The control is more convenient
- Single 10.4-inch true color touch screen

- 12.3-inch large mirror true color display screen
- The industry's first knob steering mode and driving mode selection

- Integrate 13 intelligent and information interactive technologies, making the man-machine dialogue more friendly!

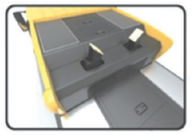
- The newly designed chassis virtual instrument interface makes the vehicle status at a glance

New generation of appearance and the user-friendly design make the driving and manipulation more comfortable

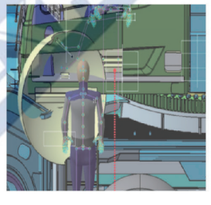
It adopts the new generation of apperance design which makes the whole machine powerful and vigorous, provides stylish cab and new control room sppearnce and well combines the layering and strength; comprehensive ergonomic analysis and humanized detail processing, providing the inherent quality of easy driving, comfortable manipulation and convenient maintenance.

New modeling design - perfect performance comes from the distinctive visual experience

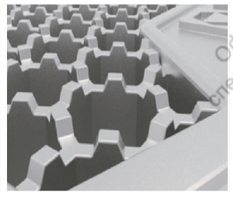
- New appearance modeling
- Strong skeletons
- Dynamic lines
- Sophisticated accessories

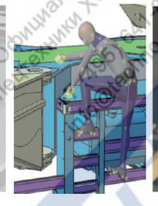


- Ergonomic checking development
- Comply with international design standards
- Sophisticated manufacturing process



User-friendly design





Comfortable, safe and artistic

Technical parameters

Main technical parameters in driving state

Category	Item		Unit	Parameter	
Dimensional parameters	Overall length		mm	13180	
	Overall width		mm	2750	
	Overall height		mm	4000	
	Axle base		mm	1600+2475+1650	
	Wheel base		mm	2340	
Weight parameters	Total mass in driving state		kg	48000	
	Axle load	Axle 1	kg	12000	
		Axle 2	kg	12000	
		Axle 3	kg	12000	
		Axle 4	kg	12000	
Power parameters	Lower engine model		--	ISME 420 30	ISM11E4 440
	Rated engine power		kw/(r/min)	306/1900	318/1900
	Rated engine torque		N.m/(r/min)	2010/1200	2080/1200
	Upper engine model		--	BF6M1013EC	
	Rated engine power		kw/(r/min)	174/2300	
	Rated engine torque		N.m/(r/min)	854/1400	
Driving parameters	Maximum driving speed		km/h	80	
	Turning diameter	inimum turning diameter	m	18	
		Minimum boom head turning diameter	m	22.7	
	Minimum ground clearance		mm	280	
	Approach angle/ Departure angle		°	17/16.5	
	Braking distance (vehicle speed is 30km/h)		m	≤10	
	Maximum gradeability		%	60	
	Fuel consumption per hundred kilometers		L	60 (Xi'an Cummins)	

Main technical parameters in driving state

Category	Item			Unit	Parameter
Main performance parameters	Maximum total rated lifting capacity			t	100
	Maximum rated load moment			KN	3009
	Minimum rated range			m	3
	Turning radius at swing table tail	Counterweight		mm	4230
		Auxiliary winch		mm	4510
	Maximum load moment	Base boom		kN.m	2689
		Full-extend boom		kN.m	1922
		Full-extend boom+jib		kN.m	533
	Outrigger span	Longitudinal		m	8.76
		Horizontal		m	7
	Lifting height	Base boom		m	12.7
		Full-extend boom		m	60.6
		Full-extend boom+jib		m	88
	Boom length	Base boom		m	11.7
		Full-extend boom		m	60
		Full-extend boom+jib		m	88.2
	Offset angle of fly jib			°	0/15/30
	Boom elevation up time			s	50
	Boom full extension time			s	550
	Slewing speed			r/min	0~1.7
Working speed parameters	Outrigger telescopic time	Horizontal outrigger	Simultaneous extension on one side	s	20
			Simultaneous retract on one side	s	15
		Vertical outrigger	Simultaneous extension	s	40
			Simultaneous retract	s	30
	Lifting speed	Main hoisting mechanism(single rope, the fifth layer)	Empty load	m/min	130
		Auxiliary hoisting mechanism(single rope, the second layer)	Empty load	m/min	97
	External radiation			dB (A)	≤122
	In the operating house			dB (A)	≤90

ifting performance table

Table for lifting performance of XCA100_E main boom (Unit for lifting weight: t, unit for boom length and range: m)

XCA100 Main boom lifting performance table (lifting capacity unit: t; boom length and range unit: m)

Boom length m/range m	11.7		15.4			19.1			22.8			26.5		
3	100*	75.0	65.0	61.3	59.4	62.8	61.0	60.0	62.5	60.5	60.0			
3.5		65.0	62.5	58.0	56.8	62.5	59.0	58.5	61.4	59.0	58.2			
4		59.6	59.9	55.0	54.2	59.9	56.0	55.6	56.8	56.0	55.4	56.4	56.0	55.8
4.5		55.1	55.4	55.0	51.7	55.5	55.0	54.0	54.4	54.0	53.6	54.4	54.0	53.4
5		50.0	51.3	50.0	49.0	51.3	50.0	49.8	50.6	50.0	49.5	50.4	50.0	49.5
6		44.2	44.0	44.8	40.0	44.8	45.0	42.8	45.0	42.4	42.0	42.7	42.4	42.0
7		38.9	39.0	39.5	38.0	38.5	39.5	38.5	40.0	38.0	37.6	38.0	38.3	37.6
8		34.3	34.0	35.3	33.6	34.0	34.5	35.8	34.2	36.0	34.0	34.5	34.9	34.0
9			31.0	31.6	30.8	31.5	31.8	32.1	31.8	32.2	32.2	31.5	31.8	32.1
10			27.5	28.0	28.1	27.5	28.2	28.8	28.0	28.5	28.9	29.8	29.8	30.7
12			22.0	22.4	22.6	22.5	23.0	23.2	22.8	23.0	23.5	24.0	24.2	24.5
14						18.0	19.0	19.2	19.0	19.2	19.4	18.6	19.0	19.3
16									15.0	16.0	16.3	14.8	16.1	16.3
18									12.2	12.8	13.8	12.0	13.3	14.3
20												9.8	11.1	12.2
22												8.1	9.4	10.3
Hook (hook weight)	000000		010000	000100	000010	011000	001100	000110	011100	001110	001110	111100	011110	001111
Crane jib angle	33° ~69°		25° ~75°			36° ~79°			31° ~81°			27° ~81°		
Hook (hook weight)	75t(730kg)													
Magnification	12		11			10			10			9		

Note: * right rear performance, special device shall be configured

Full-extend outrigger 7m, counter weight 28.7t

Boom length m/range m	30.2			33.9			37.6			41.3		
4.5	51.0	50.5	37.5									
5	49.3	49.0	35.9	41.5	41.9	37.1						
6	42.3	42.0	32.9	41.8	42.1	33.9	34.4	30.8	26.5			
7	38.0	37.8	30.0	36.8	37.2	31.3	34.2	28.7	24.8	29.5	29.0	24.6
8	34.5	34.0	27.7	33.6	34.1	29.0	33.5	26.7	23.2	29.2	28.9	23.3
9	31.4	31.8	25.8	31.0	31.4	27.1	30.5	24.9	21.9	29.6	28.4	22.1
10	28.0	28.4	24.4	28.0	28.4	25.5	27.8	23.5	20.6	27.5	26.8	21.0
12	24.5	24.9	21.6	23.0	23.3	22.8	23.0	20.7	18.4	23.2	23.0	19.0
14	19.0	19.3	19.0	18.8	19.0	19.3	19.0	18.4	16.6	19.0	19.0	17.2
16	15.5	16.0	16.3	14.9	16.1	16.3	16.0	16.3	15.2	15.5	16.0	16.3
18	12.6	13.9	14.1	12.1	13.3	14.1	13.1	14.0	13.9	12.7	13.2	14.1
20	10.5	11.7	12.2	10.0	11.1	12.2	10.9	12.0	12.2	10.5	11.0	11.9
22	8.7	10.0	10.7	8.3	9.4	10.6	9.2	10.4	10.5	8.8	9.3	10.2
24	7.3	8.6	9.4	6.9	8.0	9.2	7.8	9.0	9.3	7.4	7.9	8.8
26	6.2	7.4	8.3	5.7	6.8	8.2	6.6	7.8	8.2	6.2	6.7	7.8
28				4.7	5.8	7.1	5.7	6.8	7.1	5.2	5.7	6.9
30							4.8	6.0	6.3	4.4	4.9	5.9
32							4.1	5.3	5.6	3.7	4.2	5.2
34										3.1	3.5	4.5
36										2.5	3.0	4.0
Cantilever combination	111110	011111	001112	211110	111111	011112	121111	012112	011122	221111	122111	111122
Crane jib angle	24° ~81°			31° ~82°			28° ~82°			26° ~82°		
Hook (hook weight)	75t(730kg)											
Magnification	8			7			6			5		

Full-extend outrigger 7m, counter weight 28.7t

Boom length m/range m	45			48.7			52.4		56.1	60
8	24.3	22.7	21.7							
9	24.1	21.7	20.8	20.9	20.1	18.6				
10	23.9	20.8	19.9	20.7	19.3	17.8	17.4	16.2		
12	22.0	19.0	18.2	19.3	17.6	16.2	17.1	15.2	14.1	11.7
14	18.8	17.4	16.6	17.7	15.5	14.8	16.0	13.9	13.8	11.5
16	15.6	16.2	15.0	15.5	13.7	13.3	14.7	12.3	12.8	11.4
18	12.7	13.6	14.0	13.3	12.2	11.9	13.0	11.0	12.2	10.9
20	10.6	11.4	12.0	10.8	11.8	10.8	11.2	10.0	10.8	9.8
22	8.8	9.7	10.3	9.1	9.7	9.8	9.7	9.1	9.3	8.6
24	7.5	8.3	8.9	7.7	8.3	8.9	8.1	8.4	8.1	7.6
26	6.3	7.1	7.7	6.5	7.1	7.7	7.0	7.5	7.0	6.7
28	5.3	6.1	6.7	5.5	6.2	6.7	6.0	6.5	6.1	5.8
30	4.5	5.3	5.9	4.7	5.3	5.8	5.2	5.8	5.3	4.9
32	3.8	4.6	5.1	4.0	4.6	5.1	4.4	4.9	4.6	4.3
34	3.2	3.9	4.5	3.4	4.0	4.4	3.8	4.3	3.8	3.8
36	2.6	3.4	4.1	2.8	3.4	3.7	3.3	3.7	3.4	3.2
38	2.1	2.9	3.6	2.3	2.9	3.3	2.8	3.2	2.8	2.9
40	1.7	2.5	3.0	1.9	2.5	2.8	2.3	2.8	2.3	2.3
42				1.5	2.1	2.4	1.9	2.3	2.1	2.1
44							1.6	1.9	1.7	1.7
46							1.3	1.6	1.4	1.4
48									1.1	1.1
Cantilever combination	222111	211122	111222	222111	122221	112222	222122	122222	222222	333333
Crane jib angle	24° ~82°			29° ~81°			27° ~81°		31° ~80°	38° ~82°
Hook (hook weight)	75t(730kg)									
Magnification	4			4			3		3	2

XCA100 Jib lifting performance table (lifting capacity unit: t; boom length and range unit: m)

Full-extend outrigger 7m, counter weight 28.7t

Boom length	48.7			52.4			56.1		
Jib length	10.6			10.6			10.6		
Jib angle	0°	15°	30°	0°	15°	30°	0°	15°	30°
12	9.6			8.2					
14	9.5	9.4		8.1	8.0		6.5		
16	9.3	9.2		8.0	7.8		6.4	6.6	
18	9.1	8.7	8.2	8.0	6.9	37.1	6.4	6.4	
20	8.1	7.7	7.4	7.1	6.1	33.9	6.3	6.2	6.1
22	7.1	6.8	6.7	6.3	5.5	31.3	5.6	5.4	5.4
24	6.3	6.1	6.0	5.6	4.9	29.0	5.0	4.9	4.8
26	5.6	5.5	5.4	4.9	4.4	27.1	4.4	4.3	4.3
28	5.1	5.0	4.9	4.4	3.9	25.5	3.9	3.8	3.8
30	4.6	4.5	4.4	3.9	3.5	22.8	3.4	3.4	3.4
32	4.1	4.1	4.1	3.5	3.1	19.3	3.0	3.1	3.0
34	3.7	3.7	3.7	3.1	2.8	16.3	2.6	2.7	2.7
36	3.3	3.3	3.3	2.8	2.5	14.1	2.3	2.4	2.4
38	3.0	3.0	3.0	2.5	2.2	12.2	2.1	2.1	2.1
40	2.6	2.7	2.7	2.1	2.0	10.6	1.8	1.9	1.9
42	2.2	2.3	2.5	1.8	1.6	9.2	1.5	1.6	1.7
44	1.7	2.0	2.1	1.5	1.3	8.2	1.2	1.2	1.4
46	1.4	1.6	1.7	1.2	1.0	7.1	0.8	1.0	1.0
48	1.1	1.2	1.3	1.0	0.8			0.8	0.8
50	0.8	0.9	1.0						
Cantilever combination	221122			222122			222222		
Crane jib angle	32° ~80°	34° ~81°	35° ~79°	41° ~81°	40° ~80°	41° ~80°	49° ~81°	47° ~81°	49° ~79°
Hook (hook weight)	20t(270kg)								
Magnification	2			2			1		

Full-extend outrigger 7m, counter weight 28.7t

Boom length	48.7			52.4			56.1		
Jib length	18.1			18.1			18.1		
Jib angle	0°	15°	30°	0°	15°	30°	0°	15°	30°
12	5.0								
14	4.8			4.3			3.8		
16	4.7			4.2			3.8		
18	4.5	4.2		4.2			3.7		
20	4.5	4.0		4.0	3.8		3.7	3.6	3.4
22	4.3	3.9	3.5	4.0	3.7		3.6	3.5	3.3
24	4.2	3.8	3.4	3.9	3.6	3.4	3.6	3.4	3.2
26	4.0	3.7	3.3	3.9	3.5	3.3	3.5	3.4	2.9
28	3.9	3.6	3.3	3.8	3.5	3.3	3.5	3.3	2.6
30	3.8	3.6	3.3	3.6	3.4	3.3	3.2	3.2	2.3
32	3.7	3.5	3.3	3.3	3.3	3.2	2.8	2.8	2.1
34	3.4	3.4	3.2	2.9	2.9	3.0	2.4	2.5	1.8
36	3.1	3.1	3.1	2.5	2.6	2.7	2.2	2.3	1.6
38	2.8	2.8	2.8	2.3	2.4	2.4	1.9	2.0	1.4
40	2.5	2.5	2.6	2.0	2.1	2.2	1.6	1.7	1.2
42	2.2	2.3	2.3	1.8	1.9	1.9	1.4	1.5	1.0
44	2.0	2.1	2.1	1.6	1.7	1.7	1.2	1.3	
46	1.8	1.8	1.9	1.4	1.5	1.5	0.9	1.1	
48	1.4	1.7	1.7	1.2	1.2	1.3		0.8	
50	1.2	1.5	1.5	1.0	1.0	1.1			
52	0.9	1.2	1.4	0.8	0.8	0.8			
54		0.9	1.1						
56			0.8						
Cantilever combination	221122			222122			222222		
Crane jib angle	40° ~82°	40° ~80°	38° ~80°	45° ~82°	47° ~80°	50° ~79°	54° ~82°	55° ~81°	58° ~79°
Hook (hook weight)	20t(270kg)								
Magnification	1			1			1		

XCA100 Jib lifting performance - one lengthened section (lifting capacity unit: t; boom length and range unit: m)

Full-extend outrigger 7m, counter weight 28.7t

Boom length	48.7+7			52.4+7			56.1+7		
Jib length	18.1			18.1			18.1		
Jib angle	0°	15°	30°	0°	15°	30°	0°	15°	30°
14	3.5			3.2					
16	3.4			3.1			2.8		
18	3.3			3.1			2.8		
20	3.3			3.1			2.7		
22	3.3	3.3		3.0	3.0		2.7	2.6	
24	3.3	3.2		3.0	3.0		2.7	2.6	
26	3.2	3.2	3.1	3.0	2.9	2.8	2.7	2.6	
28	3.2	3.1	3.0	3.0	2.9	2.7	2.7	2.6	2.5
30	3.1	3.0	2.8	2.9	2.8	2.7	2.7	2.6	2.5
32	3.0	2.9	2.8	2.8	2.8	2.6	2.4	2.5	2.5
34	2.8	2.7	2.7	2.5	2.6	2.4	2.1	2.2	2.3
36	2.7	2.6	2.6	2.2	2.3	2.2	1.8	2.0	2.1
38	2.4	2.5	2.5	1.9	2.1	1.9	1.6	1.7	1.8
40	2.1	2.2	2.3	1.7	1.8	1.7	1.3	1.5	1.6
42	1.9	2.0	2.0	1.5	1.6	1.5	1.0	1.2	1.4
44	1.7	1.8	1.8	1.3	1.4	1.3	0.8	0.9	1.0
46	1.5	1.6	1.6	1.0	1.0	1.0			0.8
48	1.3	1.4	1.4		0.8	0.8			
50	1.1	1.2	1.3						
52	0.8	1.0	1.1						
54		0.8	0.8						
Cantilever combination	221122			222122			222222		
Crane jib angle	40° ~82°	40° ~80°	38° ~80°	45° ~82°	47° ~80°	50° ~79°	54° ~82°	55° ~81°	58° ~79°
Hook (hook weight)	20t(270kg)								
Magnification	1			1			1		

XCA100 Jib lifting performance - two lengthened sections (lifting capacity unit: t; boom length and range unit: m)

Full-extend outrigger 7m, counter weight 28.7t

Boom length	48.7+14			52.4+14			56.1+14		
Jib length	18.1			18.1			18.1		
Jib angle	0°	15°	30°	0°	15°	30°	0°	15°	30°
16	2.4			2.2			1.9		
18	2.3			2.2			1.9		
20	2.3			2.1			1.8		
22	2.3	2.4		2.1			1.8		
24	2.3	2.4		2.1	2.2		1.8	1.9	
26	2.2	2.3		2.0	2.2		1.7	1.8	
28	2.2	2.3	2.3	2.0	2.1		1.7	1.8	
30	2.2	2.2	2.2	2.0	2.1	2.0	1.6	1.7	1.8
32	2.2	2.2	2.1	2.0	2.0	2.0	1.6	1.7	1.7
34	2.1	2.2	2.1	2.0	2.0	2.0	1.6	1.6	1.7
36	2.3	2.1	2.0	1.9	1.9	2.0	1.5	1.6	1.7
38	2.0	2.0	1.9	1.6	1.8	1.9	1.1	1.5	1.6
40	1.8	1.8	1.8	1.4	1.5	1.7		1.1	1.3
42	1.6	1.7	1.8	1.0	1.3	1.4			0.9
44	1.4	1.5	1.6		1.0	1.0			
46	1.0	1.3	1.4						
48		1.0	1.2						
Cantilever combination	221122			222122			222222		
Crane jib angle	58° ~81°	59° ~80°	61° ~78°	63° ~82°	64° ~80°	66° ~77°	67° ~82°	69° ~80°	70° ~80°
Hook (hook weight)	20t(270Kg)								
Magnification	1			1			1		

XCA100 Jib lifting performance - two lengthened sections (lifting capacity unit: t; boom length and range unit: m)

Full-extend outrigger 7m, counter weight 28.7t

Boom length m/range m	30.2	15.4			19.1			22.8			26.5		
3	29.2	29.2	29.2	29.2	29.2	29.2	29.2						
3.5	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2			
4	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
4.5	29.1	29.1	29.1	29.2	29.1	29.2	29.1	29.2	29.2	29.2	29.2	29.2	29.2
5	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.2	29.2
6	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.1	29.2
7	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
8	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
9	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
10	27.2	27.5	27.4	27.6	27.5	27.6	27.5	27.5	27.5	27.6	27.2	27.4	27.3
12		22	22.2	22.2	22.2	22.2	22.2	22.1	22.1	22.2	22.5	22.5	22.5
14		18.2	18.3	18.2	18.5	18.6	18.6	19.9	20.6	20.5	18.6	18.6	18.7
16					15.7	16	16.1	16.1	16.9	17.6	15.3	15.8	15.8
18					12.8	13.5	13.5	13.2	14	14.7	12.5	13.5	13.4
20								11	11.8	12.5	10.3	11.5	11.6
22											8.6	9.7	10.4
24											7.2	8.3	9.1
26													
28													
30													
32													
Cantilever combination	000000	010000	000100	000010	010000	000100	000010	010000	000100	000010	010000	000100	000010
Crane jib angle	37° ~74°	31° ~78°			26° ~81°			34° ~81°			30° ~82°		
Hook (hook weight)	75t(730Kg)												
Magnification	5	5			5			5			5		

Full-extend outrigger 7m, counter weight 28.7t

Boom length m/range m		30.2			33.9			37.6			41.3		
5	29.2	29.2	29.2										
6	29.2	29.2	29.2	29.2	29.2	29.2							
7	29.2	29.2	29.2	29.2	29.2	29.2	28.6	28.6	28.6				
8	29.2	29.1	29.2	29.2	29.1	29.1	28	27.9	27.9	23.4	23.4	23.4	
9	29.1	29.1	29.1	29.2	29.1	29.1	27.4	27.3	27.4	23	23.2	23	
10	27	26.9	26.9	26.2	26.2	26.3	26	25.8	25.8	22.5	22.5	22.6	
12	22.2	22.2	22.2	22.1	22	22	21.5	21.4	21.4	20.2	20.2	20.2	
14	18.5	18.4	18.4	18.2	18.2	18.3	17.8	17.8	18	17	17	17	
16	15.7	15.7	15.8	15.3	15.4	15.5	15.4	15.4	15.5	14.8	14.8	14.8	
18	13	13.3	13.3	12.5	13.3	13.3	13.2	13.2	13.2	12.8	12.8	13	
20	10.8	11.8	12	10.3	11.3	11.5	11.1	11.4	11.4	10.6	11.1	11.2	
22	9.1	10.2	10.3	8.5	9.6	10.3	9.4	10	10	8.9	9.4	9.8	
24	7.7	8.8	9	7.1	8.2	9.2	8	8.8	9	7.5	8	8.6	
26	6.5	7.6	7.9	6	7	7.8	6.8	7.9	7.9	6.3	6.8	7.6	
28	5.5	6.6	7.3	5	6	6.8	5.8	6.9	7	5.4	5.8	6.6	
30				4.2	5.2	6.1	5	6	6.3	4.5	5	5.8	
32							4.2	5.3	5.6	3.8	4.3	5.1	
34							3.6	4.7	4.8	3.2	3.6	4.4	
36										2.6	3.1	3.9	
38										2.1	2.6	3.4	
Cantilever combination	111110	011111	001112	211110	111111	011112	121111	012112	011122	221111	122111	111122	
Crane jib angle	27° ~82°			25° ~81°			30° ~81°			28° ~81°			
Hook (hook weight)	75t(730kg)												
Magnification	5			5			5			4			

Full-extend outrigger 7m, counter weight 28.7t

Boom length m/range m	45			48.7			52.4		56.1	60
8										
9	19.2	19.2	19.4							
10	18.8	18.8	18.8	15.8	15.8	16				
12	18.3	18.3	18.5	15.4	15.4	15.4	12.8	12.8	10.7	
14	16.2	16.2	16.2	14.8	14.8	14.8	12.5	12.6	10.5	8.8
16	14.2	14.2	14.2	13.5	13.6	13.5	12	12	10.2	8.6
18	12.2	12.4	12.2	11.6	11.6	11.7	11.2	11.2	9.9	8.5
20	10.7	10.8	10.8	10.4	10.4	10.4	10	10	9.3	8.2
22	9	9.6	9.6	9.1	9.4	9.4	8.8	9	8	7.6
24	7.6	8.3	8.5	7.7	8.2	8.2	7.6	7.6	6.9	6.7
26	6.4	7.2	7.4	6.5	7.2	7.2	6.6	6.6	5.9	5.8
28	5.4	6.2	6.6	5.6	6.2	6.3	5.8	5.8	5.1	5
30	4.6	5.3	5.7	4.7	5.3	5.4	5	5.2	4.4	4.3
32	3.9	4.6	5	4	4.6	4.6	4.4	4.4	3.7	3.6
34	3.2	4	4.4	3.4	4	4	3.7	3.7	3.2	3.1
36	2.7	3.4	3.7	2.8	3.4	3.5	3.2	3.2	2.7	2.6
38	2.2	2.9	3.3	2.3	2.9	3	2.7	2.7	2.2	2.1
40	1.7	2.5	2.9	1.9	2.5	2.7	2.3	2.4	1.8	1.7
42	1.4	2.1	2.5	1.5	2.1	2.2	1.9	2	1.4	1.4
44				1.2	1.7	1.8	1.5	1.6	1.1	1
46							1.2	1.2	0.8	
48							0.9	1		
Cantilever combination	222111	211122	111222	222211	221122	112222	222122	122222	222222	333333
Crane jib angle	27° ~81°			31° ~81°			29° ~80°		40° ~81°	48° ~80°
Hook (hook weight)	20t(270kg)									
Magnification	3			3			2		2	2

Note

- Under this working condition (3.0m, 100t*)(working condition indicated by * in the table), the users are only permitted to operate at the right astern. The additional special device shall be added and proper adjustment shall be made.
- The rated total lifting weight in the table is the maximum total lifting weight that can support by this crane on the flat and solid ground, including the weight of lifting hook and slings.
- The working amplitude in the table is the amplitude when the lifted objects are off the ground and is the actual value inclusive of jib deformation. Therefore, jib deformation shall be considered before lifting.
- Operation can only be made when the wind is less than Class 5(instantaneous wind speed is 14.1m/s in 3s and the wind pressure is 125N/m2).
- The operator shall get to know the object weight and working range before lifting and select the proper working condition. It is forbidden that the values in the table are exceeded. When the amplitude and the jib length are between two adjoining values, the lifting shall be made according to the smaller value out of the two values.
- Make operation according to the main jib angle of elevation. Do not make the main jib angle of elevation beyond the range even under no load to prevent tip-over of the whole crane.
- The main jib length shall be extended according to telescopic rate of each section of the jib.
- In lifting, the suspension system shall be in locked state; do not touch any button for adjusting the suspension.
- The parameters listed in the table for lifting performance of the main jib refer to the rated lifting weight without fly jib. If the fly jib is installed on the flank of the main jib, the rated lifting weight of the main jib shall be deducted by 2000kg. If the fly jib is installed at the jib head, the main jib shall not be used for lifting.