XCA160 / All Terrain Crane

7//

Technical specifications



160 t



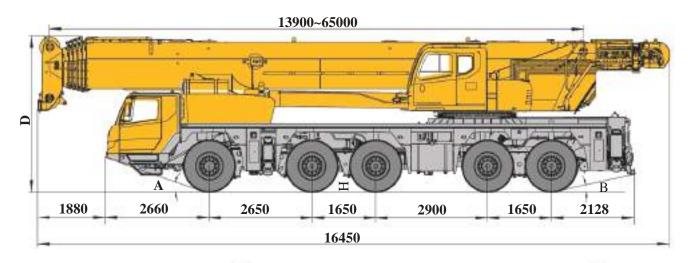
65 m

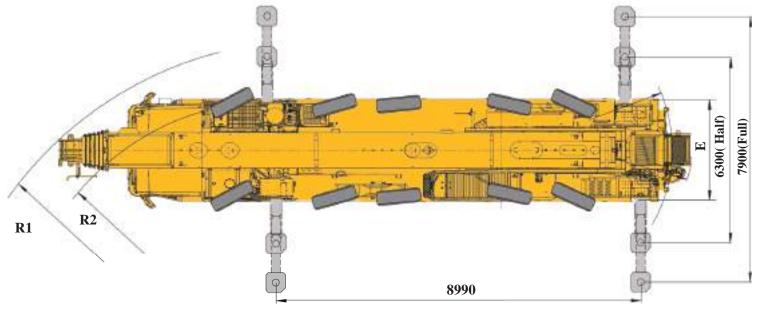


95.5m



Dimensions





R: Tight turning radius mode

	А	В	D	E	R1	R2	н
525/80R25 (20.5 R25)	20°	12°	4000	3150	12500	10500	352

Technical specifications

34	Chassis	
Frame	Designed and manufactured by XCMG, it 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 beam is adopted. There is an outrigger control station located at each side of the chassis, and there is a level gauge, an illuminator and two speed buttons on each control station. There is a check valve fitted in each outrigger cylinder, and a double-way hydraulic valve fitted in each jack cylinder.	•
Engine	Daimler AG OM471LA, 6 cylinders, diesel. Rated power/rpm: 390 kw /1700 rpm. Rated torque/rpm: 2460 N.m /1300 rpm. Emission standard: EU Stage IV/EPA Tier 4F. Fuel tank capacity: 460 L.	•
Hydraulic system	The pump unit directly connected to the PTO port of the engine is used for outriggers, steering, suspension and independent cooling for hydraulic system.	•
Transmission	Automatic transmission imported from ZF Germany, equipped with a retarder, 12 forward gears and 2 reverse gears.	•
Transfer box	Mechanical transfer box imported from KESSLER Germany, equipped with an emergency steering oil pump.	•
Axles	German KESSLER high-strength axle, equipped with pneumatically controlled disc brake. 2nd axle, 3rd axle, 4th axle and 5th axle are for driving.	•
Suspension	Hydro-pneumatic suspension is adopted for all axles, providing good shock absorbing effect. Functions of automatic leveling, suspension lifting, elastic/rigid state switch-over, etc. are available.	•

Tyres	10 tyres and 1 spare tyre, each axle is equipped with single tire, manufactured by Double coin, large bearing capacity.	
	Tire specifications: 525/80R25 (20.5R25)	•
Brakes	Service brake: double-circuit air pressure brake, acting on all wheels. Parking brake: spring-loaded brake, acting on the wheels of 2-5 axles. Auxiliary brake: engine retarder, and transmission retarder, which are safe and reliable, and will prolong the service life of brake lining.	•
Steering	All axles steering, with advanced electro- hydraulic proportional steering control technology applied to ensure various steering modes for meeting the requirements under various working conditions.	•
Driver's cab	New full dimension steel structure cab, with suspension connecting structure adopted, is equipped with shock absorbers at the rear of the cab. Safety glass, electrically operated door window lifters, adjustable seats, electrical adjustable mirrors, steering wheel adjustable in height and angle, reversing display and large screen liquid crystal display & CD player are equipped. New combined central control panel is reasonably arranged with arc shape adopted, presenting human-oriented design concept. Heating & airconditioning are standard.	•
Electrical System	DC 24 volts is in series with two 12-volt battery packs.	•

Technical specifications

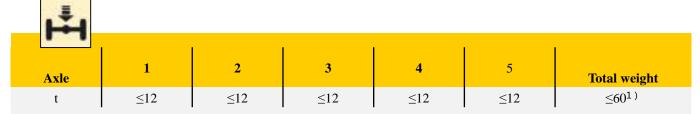
1	Superstructure Config ration	u					
Frame	Designed and manufactured by XCMG, made of high strength steel.						
Hydraulic	Electric proportional variable pump is used						
system	for lifting, elevating and telescoping						
	operations. A closed pump is used to drive						
	slewing operation. The proportional solenoid						
	steering control valve; air-cooled hydraulic						
	oil radiator.						
Operating	• • •						
mode	system is equipped with two levers at left						
	and right sides controlling the main						
	movements of the crane, and stepless						
M- '	slewing speed regulation is available.						
Main winch	Hydraulic control is used for speed						
	regulation. The system is driven by a						
system	hydraulic motor through a planetary gear						
	reducer, with a normally closed brake, a balanced valve and a grooved drum						
	equipped.						
Auxiliary	Hydraulic control is used for speed						
winch	regulation. The system is driven by a						
system	hydraulic motor through a planetary gear						
,	reducer, with a normally closed brake, a						
	balanced valve and a grooved drum						
	equipped.						
Slewing	A single-row, four-point contact-ball external						
system	slewing bearing; the system is driven by a						
	hydraulic motor through a planetary gear						
	reducer with constant-closed brake equipped,						
	and may continuously slew 360° . Power						
	control and free slewing function as well as						
	stepless speed regulation are available.						
Elevating	Single elevating cylinder and the elevating						
system	counterbalance valve with the load						
	compensation function. Balance valve-						
	controlled boom gravity combined with						
	power for lowering boom is used for boom						
	elevating down.						

Operator's cab Steel cab with a full-view windshield, safety glass, sliding door, adjustable seat with electric heating function; it can tilt backward about 20°; double-layer sun shield is adopted for roof window; sun shield is also equipped at the windshield and rear window; wipers, roof guardrails, pull-out step, LMI, human-machine interactive control panel, electric controlled armrest, engine accelerator pedal, engine start switch, etc. are also available. Heater, air conditioner. Safety devices Hydraulic counterbalance valve; hydraulic relief valve; hydraulic double-way valve; LMI; lowering limiter; anti-two block; anemometer; winch monitor Combined counterweight combinations of 0 t, 12 t, 24 t, 36 t and 55t are available.	figu on	l
relief valve; hydraulic double-way valve; LMI; lowering limiter; anti-two block; anemometer; winch monitor Combined counterwei ght Combinations of 0 t, 12 t, 24 t, 36 t and 55t		
counterweight combinations of 0 t, 12 t, 24 t, 36 t and 55t		
Hook block 130t 75t 8t		

Technical specifications

SHIE	Boom and jib	Configuration
Boom	6-section boom with U-shaped cross- section, welded structure with single- plate boom head and compact boom tail. Single-cylinder pinning telescoping system, Boom length: 13.9 m~65 m.	•
Single top	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 8 t.	•
Jib	The jib consists of a connecting bracket, a rotating bracket and two lattice sections. Three offset angles of 0° , 15° and 30° are available. It is stowed along the side of the boom. Jib length: $11 \text{ m}, 18.5 \text{ m}$	0
Boom extension	Two-section lattice jib, welded structure, attached to boom head. Length of boom extension: 2×8 m	0

Weight



1)Jib, single top, counterweight and hook blocks are excluded from superstructure. Spare tire, spare tire bracket, outrigger floats and storage box are excluded from chassis. Drive/steering type is $10 \times 8 \times 10$; Tire specification: 525/80 R 25



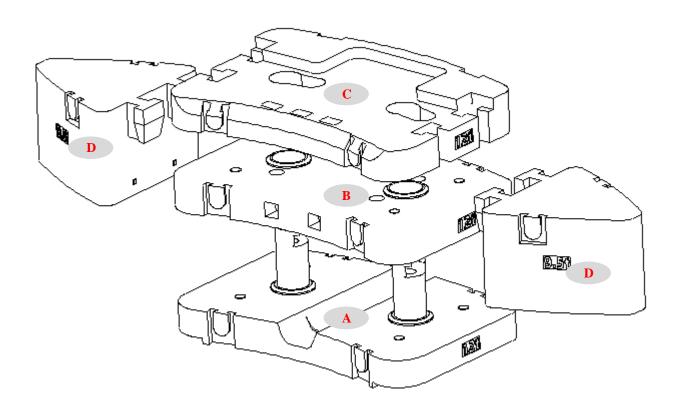
has a second				
Hook	Parts of line	Weight (kg)	Dimensions (mm)	Remarks
130t	12	1017	1785×730×560	Double hook, optional
75t	7	640	1500×590×324	Double hook , Standard
8t	1	256	731×426×426	Single hook, Standard

Working speeds



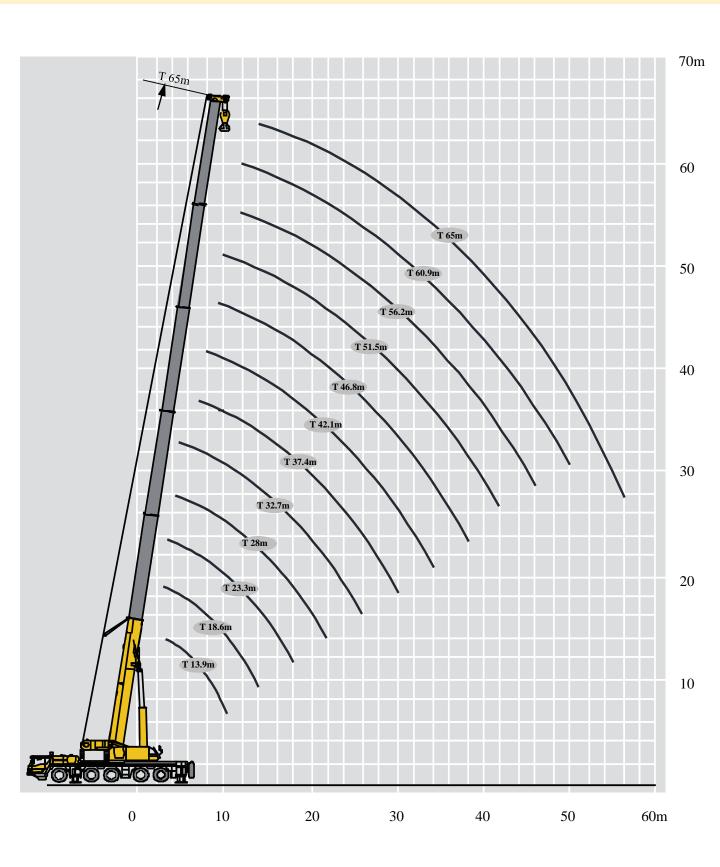
4										
Drive	Working speed	Max. single line pull	Rope diameter/ length							
	0-135 m/min, single line, 4th layer	104kN	22 mm/320 m							
2	0-90 m/min, single line, 4th layer	89kN	22 mm/210 m							
O.	0-1.5 r/min									
A	Approx. 60s for boom elevation from -0.5°	Approx. 60s for boom elevation from -0.5° to 81°								
18	Approx. 750s for boom extension from 13.9	9m to 65m								

Counterweight



Counterweight	A	В	C	D
Size (L×W×H) (mm)	2995×2041×1030	2995×2041×324	2995×2041×362	1660×1555×987
Weight (t)	12	12	12	9.5

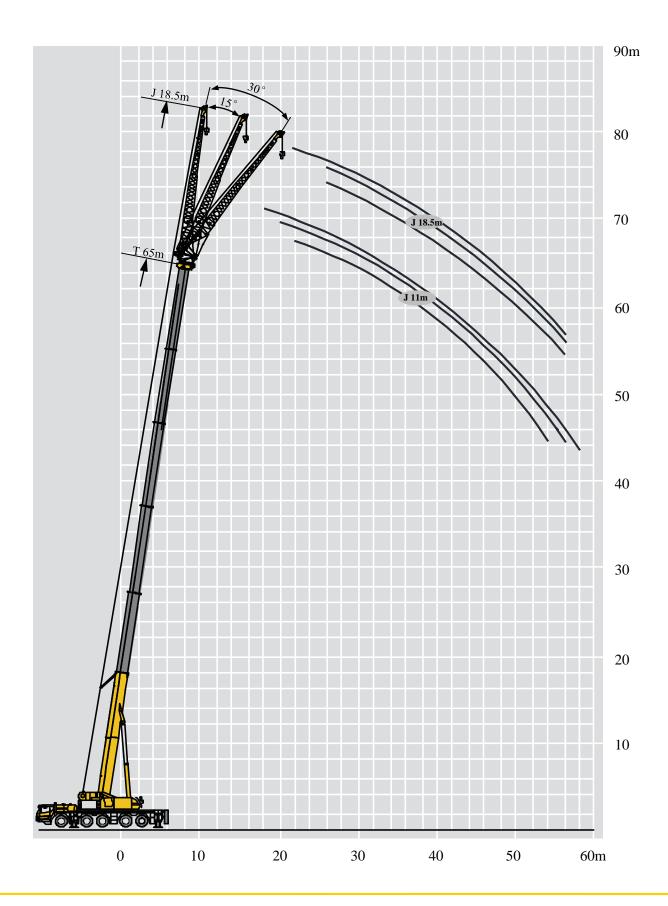
Working mode	55 t	36t	24t	12t	0t
Combinations	$A+B+C+2\times D$	A+B+C	A+B	A	0



Lifting capacities

	13	3.9-65m	8.99m×7	7.9m	360	55	5t										
19	1	1/8	<u></u>	7 (\bigcirc	E	7										M
A	13.9	13.9m	18.6m	23.3m	28m	32.7m	37.4m	42.1m	46.8m	51.5m	54.8m	56.2m	59.5m	60.9m	64.2m	65m	AL V
2.5	m 160**																2.5
2.5	130*	130.0															2.5
3.5	128*	108.0	95.0														3.5
4	120*	102.0	95.0	95.0													4
4.5	112*	95.0	92.0	92.0	88.0												4.5
5	105*	89.0	91.0	90.0	88.0												5
6	89.5*	84.2	84.5	84.4	83.9	75.0											6
7	75.8*	75.0	74.6	74.5	74.0	74.6	58.0										7
8	65.5*	65.5	65.5	65.5	65.0	62.0	58.0	48.0									8
9	57.5*	56.0	57.8	57.5	57.0	57.6	54.0	46.4	35.0								9
10	50*	47.5	51.0	51.0	51.8	52.4	50.0	42.8	33.6	30.0							10
12			41.2	42.2	43.0	42.3	42.0	36.2	30.7	28.0	20.0	25.6					12
14			33.8	35.3	35.5	35.4	34.8	32.0	28.2	25.7	19.0	24.0	18.0	19.2	16.8	15.5	14
16				30.0	30.5	30.2	29.0	28.3	26.1	24.7	17.6	21.4	17.0	18.2	16.5	15.4	16
18				25.8	26.2	26.0	25.0	24.7	24.0	22.3	15.9	19.2	16.4	16.3	15.6	14.9	18
20					22.8	22.7	22.3	22.2	21.5	20.1	14.4	17.4	14.8	14.8	14.2	13.5	20
22					20.5	20.0	20.0	19.8	19.5	18.4	13.2	15.8	13.5	13.8	12.9	12.5	22
24						17.5	18.0	17.5	17.0	16.5	12.1	14.5	12.4	12.6	11.7	11.4	24
26						16.4	15.8	15.7	15.1	14.8	11.1	13.2	11.4	11.5	10.7	10.5	26
28							14.5	14.5	13.7	13.5	10.3	12.2	10.6	10.6	9.8	9.6	28
30							13.0	12.6	12.6	12.7	9.5	11.3	9.7	9.8	9.1	8.9	30
32								11.0	11.0	10.5	8.9	10.4	9.1	9.1	8.4	8.1	32
34								10.5	9.8	9.4	8.3	9.7	8.4	8.5	7.8	7.6	34
36									9.2	8.4	7.8	8.5	7.9	7.7	7.3	6.8	36
38									8.7	7.6	7.3	8.0	7.4	7.1	6.8	6.3	38
40										7.2	6.8	7.5	6.3	6.9	6.3	5.8	40
42										6.6	5.7	7.0	5.5	6.0	5.4	5.5	42
44										6.2	5.1	6.5	5.0	5.3	4.8	5.0	44
46											4.5	5.9	4.4	5.2	4.3	4.6	46
48												5.4	4.0	4.6	3.4	4.3	48
50													3.4	4.0	3.2	4.1	50
52														3.6	2.8	3.7	52
54															2.5	3.5	54
56																3.3	56

Notes: The technical data with ** followed are for the nominal load , special equipment is required. The technical data with * followed are for over rear.

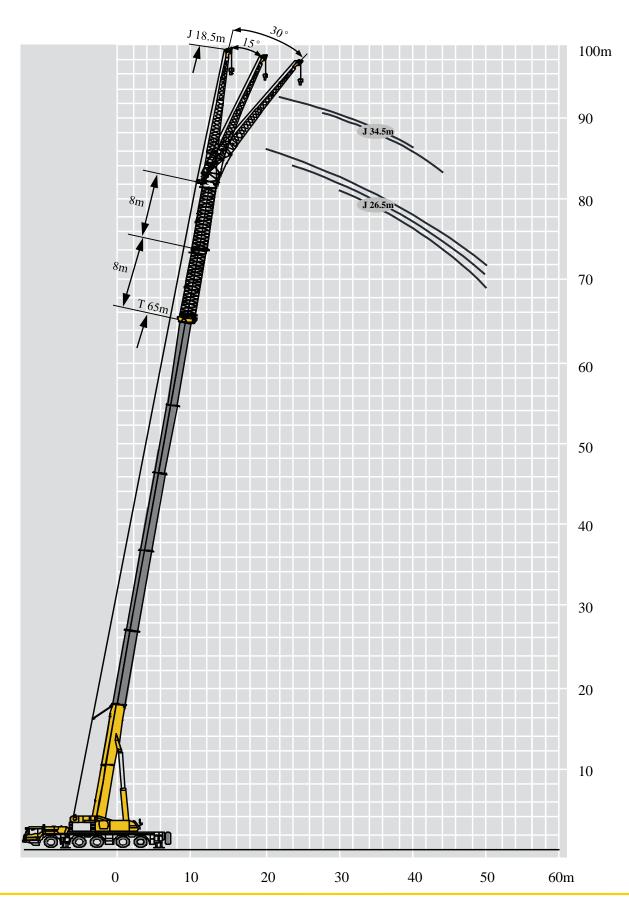


J 11m/18.5 m

Lifting capacities

56.2-65m 11m 8.99m×7.9m 55t												
1/ 8		56.2m			60.9 m			65 m		1/ \$		
//	0°	15°	30°	0°	15°	30°	0°	15°	30°	//		
16	8.0									16		
18	8.0	6.2		7.8			7.4			18		
20	8.0	5.9	4.4	7.6	5.7		7.2	5.6		20		
22	7.8	5.8	4.3	7.4	5.6	4.3	7.1	5.5	4.3	22		
24	7.5	5.7	4.2	7.2	5.5	4.1	7.0	5.3	4.0	24		
26	7.3	5.5	4.0	7.1	5.4	4.0	6.8	5.2	3.9	26		
28	7.1	5.3	3.8	6.8	5.2	3.8	6.6	5.1	3.8	28		
30	6.9	5.2	3.7	6.7	5.1	3.7	6.5	4.9	3.6	30		
32	6.7	5.1	3.6	6.5	5.0	3.6	6.3	4.8	3.5	32		
34	6.4	4.9	3.4	6.4	4.9	3.5	6.2	4.7	3.4	34		
36	6.3	4.7	3.3	6.2	4.8	3.4	5.8	4.7	3.3	36		
38	6.2	4.3	3.2	6.0	4.6	3.2	5.4	4.6	3.2	38		
40	6.0	4.2	3.1	5.6	4.4	3.1	5.0	4.4	3.1	40		
42	5.7	4.1	3.1	5.2	4.2	3.0	4.6	4.3	3.0	42		
44	5.3	4.0	3.0	4.8	4.1	3.1	4.2	4.2	3.0	44		
46	5.0	3.8	2.9	4.5	4.0	3.0	3.9	3.9	2.9	46		
48		3.8	2.9	4.1	3.8	2.9	3.7	3.7	2.9	48		
50		3.6	2.8		3.7	2.8	3.4	3.4	2.8	50		
52			2.6		3.4	2.9	3.1	3.2	2.8	52		
54			2.4			2.6		2.7	2.8	54		
56						2.4			2.4	56		
58									2.2	58		
组合		22221			22222			33333		组合		

56.2-65m 18.5m 8.99m×7.9m 55t										M
1/8		56.2m			60.9 m			65 m		1/8
174	0°	15°	30°	0°	15°	30°	0°	15°	30°	1700
18	4.1									18
20	4.0			3.8						20
22	4.0	2.7		3.7			3.4			22
24	4.0	2.6		3.7	2.6		3.4	2.6		24
26	3.9	2.5	1.6	3.6	2.5		3.3	2.5		26
28	3.6	2.4	1.5	3.6	2.3	1.5	3.3	2.3	1.6	28
30	3.4	2.3	1.4	3.5	2.2	1.4	3.3	2.2	1.5	30
32	3.1	2.2	1.5	3.3	2.1	1.4	3.2	2.1	1.4	32
34	3.0	2.1	1.4	3.2	2.0	1.4	3.2	2.0	1.5	34
36	2.8	2.0	1.3	3.0	1.9	1.3	3.0	1.9	1.4	36
38	2.7	1.8	1.3	2.8	1.7	1.3	2.9	1.7	1.3	38
40	2.6	1.7	1.3	2.7	1.6	1.3	2.8	1.6	1.4	40
42	2.5	1.6	1.2	2.6	1.6	1.2	2.6	1.5	1.3	42
44	2.3	1.6	1.2	2.4	1.6	1.2	2.5	1.5	1.3	44
46	2.2	1.6	1.2	2.3	1.5	1.2	2.4	1.5	1.1	46
48	2.1	1.5	1.2	2.2	1.5	1.2	2.3	1.4	1.2	48
50	2.0	1.5	1.2	2.1	1.4	1.2	2.1	1.4	1.1	50
52		1.4	1.1	1.9	1.4	1.1	2.0	1.4	1.2	52
54		1.4	1.1	1.9	1.4	1.1	2.1	1.4	1.1	54
56			1.0		1.3	1.1	2.0	1.4	1.1	56
58			1.0		1.1	1.1		1.3	1.1	58
60						1.0		1.3	1.0	60
62						1.0			1.0	62
64									1.0	64
组合		22221			22222			33333		组合



Lifting capacities

M		56.2-65m	8.99 8.99	9m×7.9m	360"					M
48		56.2+8			60.9+8			65+8		4
7.70-	18.5 m									7.70
	0°	15°	30°	0°	15°	30°	0°	15°	30°	1
18	3.6									18
20	3.6			3.2			2.1			20
22 24	3.6 3.5	2.6		3.2 3.2			3.1			22 24
26	3.5	2.5		3.2	2.5		3.0			26
28	3.5	2.4		3.1	2.4		3.0	2.4		28
30	3.4	2.2	1.6	3.1	2.3		3.0	2.4		30
32 34	3.3 3.3	2.1 2.0	1.6 1.5	3.1 3.0	2.2 2.1	1.5 1.5	3.0 2.9	2.2 2.1	1.5 1.5	32 34
36	3.1	1.9	1.4	3.0	1.9	1.4	2.9	2.0	1.4	36
38	3.0	1.8	1.3	3.0	1.9	1.4	2.9	1.9	1.4	38
40	2.9	1.8	1.3	2.9	1.8	1.3	2.8	1.9	1.3	40
42	2.7	1.8	1.3	2.7	1.7	1.3	2.8	1.8	1.3	42
44 46	2.5 2.3	1.7	1.2 1.2	2.6 2.5	1.7 1.7	1.3 1.3	2.8 2.7	1.8 1.7	1.3 1.2	44 46
48	2.2	1.6	1.2	2.4	1.6	1.2	2.6	1.6	1.2	48
50	2.1	1.5	1.2	2.2	1.5	1.2	2.5	1.6	1.2	50
52	2.0	1.4	1.1	2.1	1.6	1.2	2.4	1.6	1.1	52
54 56	2.1	1.5	1.1 1.1	2.1 2.1	1.5 1.4	1.2 1.2	2.2 2.1	1.6 1.4	1.1 1.1	54 56
58	2.0	1.3	1.0	2.0	1.5	1.1	2.0	1.4	1.1	58
60		1.2	1.0	1.8	1.4	1.1	1.8	1.4	1.1	60
62			1.0		1.3	1.0	1.7	1.3	1.0	62
64						1.0		1.3	1.0	64
66		22221	1		22222			33333	1.0	66
			14.5	m×7.9m				22222		•
B		56.2-65m	8.99		360"	3				S _M
48		56.2+16			60.9+16					- 221
//		→								178
	0°				18.5 m			65+16		A_B
22	v	15°	30°	0°	18.5 m 15°	30°	0°	65+16 15°	30°	A.S
	3.0	15°	30°	2.7		30°	0°		30°	22
24	3.0 3.0	15°	30°	2.7 2.7		30°	2.5		30°	24
24 26	3.0 3.0 3.0	15°	30°	2.7 2.7 2.7		30°	2.5 2.5		30°	24 26
24 26 28	3.0 3.0 3.0 3.0		30°	2.7 2.7 2.7 2.7	15°	30°	2.5 2.5 2.5	15°	30°	24 26 28
24 26 28 30 32	3.0 3.0 3.0	2.4 2.3	30°	2.7 2.7 2.7 2.7 2.7 2.7 2.6		30°	2.5 2.5 2.5 2.5 2.4	2.3 2.3	30°	24 26
24 26 28 30 32 34	3.0 3.0 3.0 3.0 2.9 2.9 2.9	2.4 2.3 2.2		2.7 2.7 2.7 2.7 2.7 2.6 2.6	2.4 2.3 2.3	30°	2.5 2.5 2.5 2.5 2.4 2.4	2.3 2.3 2.3 2.3	30°	24 26 28 30 32 34
24 26 28 30 32 34 36	3.0 3.0 3.0 3.0 2.9 2.9 2.9 2.9	2.4 2.3 2.2 2.0	1.5	2.7 2.7 2.7 2.7 2.7 2.6 2.6 2.6	2.4 2.3 2.3 2.1		2.5 2.5 2.5 2.5 2.4 2.4 2.4	2.3 2.3 2.3 2.3 2.2		24 26 28 30 32 34 36
24 26 28 30 32 34 36 38	3.0 3.0 3.0 3.0 2.9 2.9 2.9 2.9	2.4 2.3 2.2 2.0 2.0	1.5 1.4	2.7 2.7 2.7 2.7 2.7 2.6 2.6 2.6 2.6	2.4 2.3 2.3 2.1 2.0	1.5	2.5 2.5 2.5 2.5 2.4 2.4 2.4 2.3	2.3 2.3 2.3 2.2 2.0	1.5	24 26 28 30 32 34 36 38
24 26 28 30 32 34 36	3.0 3.0 3.0 3.0 2.9 2.9 2.9 2.9	2.4 2.3 2.2 2.0	1.5	2.7 2.7 2.7 2.7 2.7 2.6 2.6 2.6	2.4 2.3 2.3 2.1		2.5 2.5 2.5 2.5 2.4 2.4 2.4 2.3 2.3	2.3 2.3 2.3 2.3 2.2		24 26 28 30 32 34 36
24 26 28 30 32 34 36 38 40 42 44	3.0 3.0 3.0 3.0 2.9 2.9 2.9 2.9 2.9 2.8 2.8	2.4 2.3 2.2 2.0 2.0 2.0 1.8 1.8	1.5 1.4 1.4 1.4 1.4	2.7 2.7 2.7 2.7 2.6 2.6 2.6 2.6 2.6 2.5 2.5	2.4 2.3 2.3 2.1 2.0 2.0 2.0 1.8	1.5 1.4 1.4 1.4	2.5 2.5 2.5 2.5 2.4 2.4 2.4 2.3 2.3 2.3 2.3	2.3 2.3 2.3 2.2 2.0 2.0 2.0 1.9	1.5 1.4 1.4 1.4	24 26 28 30 32 34 36 38 40 42
24 26 28 30 32 34 36 38 40 42 44 46	3.0 3.0 3.0 3.0 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.7 2.8	2.4 2.3 2.2 2.0 2.0 2.0 1.8 1.8	1.5 1.4 1.4 1.4 1.4 1.3	2.7 2.7 2.7 2.7 2.7 2.6 2.6 2.6 2.6 2.6 2.5 2.5	2.4 2.3 2.3 2.1 2.0 2.0 2.0 1.8 1.8	1.5 1.4 1.4 1.4 1.3	2.5 2.5 2.5 2.5 2.4 2.4 2.4 2.3 2.3 2.3 2.3 2.2	2.3 2.3 2.3 2.2 2.0 2.0 2.0 1.9 1.9	1.5 1.4 1.4 1.4 1.4	24 26 28 30 32 34 36 38 40 42 44 46
24 26 28 30 32 34 36 38 40 42 44 46 48	3.0 3.0 3.0 3.0 2.9 2.9 2.9 2.9 2.9 2.9 2.7 2.5 2.5	2.4 2.3 2.2 2.0 2.0 2.0 1.8 1.8 1.8	1.5 1.4 1.4 1.4 1.3 1.3	2.7 2.7 2.7 2.7 2.7 2.6 2.6 2.6 2.6 2.6 2.5 2.5 2.5	2.4 2.3 2.3 2.1 2.0 2.0 2.0 1.8 1.8	1.5 1.4 1.4 1.4 1.3 1.3	2.5 2.5 2.5 2.5 2.4 2.4 2.3 2.3 2.3 2.3 2.2 2.2	2.3 2.3 2.3 2.2 2.0 2.0 2.0 1.9 1.9	1.5 1.4 1.4 1.4 1.4 1.3	24 26 28 30 32 34 36 38 40 42 44 46 48
24 26 28 30 32 34 36 38 40 42 44 46	3.0 3.0 3.0 3.0 2.9 2.9 2.9 2.9 2.9 2.9 2.5 2.5 2.5	2.4 2.3 2.2 2.0 2.0 2.0 1.8 1.8 1.8 1.6	1.5 1.4 1.4 1.4 1.4 1.3	2.7 2.7 2.7 2.7 2.7 2.6 2.6 2.6 2.6 2.5 2.5 2.5 2.5 2.4	2.4 2.3 2.3 2.1 2.0 2.0 2.0 1.8 1.8 1.8	1.5 1.4 1.4 1.3 1.3	2.5 2.5 2.5 2.5 2.4 2.4 2.3 2.3 2.3 2.3 2.2 2.2	2.3 2.3 2.3 2.2 2.0 2.0 2.0 1.9 1.9	1.5 1.4 1.4 1.4 1.4 1.3	24 26 28 30 32 34 36 38 40 42 44 46 48 50
24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54	3.0 3.0 3.0 3.0 2.9 2.9 2.9 2.9 2.9 2.8 2.7 2.5 2.5 2.5 2.3 2.2	2.4 2.3 2.2 2.0 2.0 2.0 1.8 1.8 1.6 1.6 1.6	1.5 1.4 1.4 1.4 1.3 1.3 1.3 1.3	2.7 2.7 2.7 2.7 2.7 2.6 2.6 2.6 2.6 2.5 2.5 2.5 2.5 2.4 2.4 2.3 2.2	2.4 2.3 2.3 2.1 2.0 2.0 2.0 1.8 1.8 1.8 1.8 1.6	1.5 1.4 1.4 1.3 1.3 1.3 1.3	2.5 2.5 2.5 2.5 2.4 2.4 2.3 2.3 2.3 2.3 2.2 2.2 2.2 2.2	2.3 2.3 2.3 2.2 2.0 2.0 2.0 1.9 1.9 1.8 1.8 1.7 1.6	1.5 1.4 1.4 1.4 1.3 1.3 1.3	24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54
24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54	3.0 3.0 3.0 3.0 2.9 2.9 2.9 2.9 2.9 2.8 2.7 2.5 2.5 2.5 2.3 2.2	2.4 2.3 2.2 2.0 2.0 2.0 1.8 1.8 1.6 1.6 1.6 1.5	1.5 1.4 1.4 1.4 1.3 1.3 1.3 1.3 1.2	2.7 2.7 2.7 2.7 2.6 2.6 2.6 2.6 2.5 2.5 2.5 2.5 2.4 2.4 2.3 2.2 2.1	2.4 2.3 2.3 2.1 2.0 2.0 2.0 1.8 1.8 1.8 1.6 1.6	1.5 1.4 1.4 1.3 1.3 1.3 1.3 1.3	2.5 2.5 2.5 2.5 2.4 2.4 2.3 2.3 2.3 2.3 2.2 2.2 2.2 2.1 2.0 1.9	2.3 2.3 2.3 2.2 2.0 2.0 2.0 1.9 1.9 1.8 1.8 1.7 1.6	1.5 1.4 1.4 1.4 1.3 1.3 1.3 1.3	24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54
24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58	3.0 3.0 3.0 3.0 2.9 2.9 2.9 2.9 2.9 2.8 2.8 2.7 2.5 2.5 2.5 2.3 2.2 2.1	2.4 2.3 2.2 2.0 2.0 2.0 1.8 1.8 1.6 1.6 1.5 1.5	1.5 1.4 1.4 1.4 1.3 1.3 1.3 1.3 1.2 1.1	2.7 2.7 2.7 2.7 2.6 2.6 2.6 2.6 2.5 2.5 2.5 2.5 2.4 2.4 2.3 2.2 2.1 1.8	2.4 2.3 2.3 2.1 2.0 2.0 2.0 1.8 1.8 1.8 1.6 1.6 1.5	1.5 1.4 1.4 1.3 1.3 1.3 1.3 1.3 1.3	2.5 2.5 2.5 2.4 2.4 2.4 2.3 2.3 2.3 2.3 2.2 2.2 2.1 2.0 1.9 1.4	2.3 2.3 2.3 2.2 2.0 2.0 2.0 1.9 1.9 1.8 1.8 1.7 1.6 1.6	1.5 1.4 1.4 1.4 1.3 1.3 1.3 1.3 1.3	24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58
24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60	3.0 3.0 3.0 3.0 2.9 2.9 2.9 2.9 2.8 2.8 2.7 2.5 2.5 2.5 2.3 2.2 2.1 2.0	2.4 2.3 2.2 2.0 2.0 2.0 1.8 1.8 1.6 1.6 1.5 1.5 1.5	1.5 1.4 1.4 1.4 1.3 1.3 1.3 1.3 1.2 1.1	2.7 2.7 2.7 2.7 2.6 2.6 2.6 2.6 2.5 2.5 2.5 2.5 2.4 2.4 2.3 2.2 2.1 1.8	2.4 2.3 2.3 2.1 2.0 2.0 2.0 1.8 1.8 1.8 1.6 1.6 1.5 1.5	1.5 1.4 1.4 1.3 1.3 1.3 1.3 1.3 1.3 1.3	2.5 2.5 2.5 2.5 2.4 2.4 2.3 2.3 2.3 2.3 2.2 2.2 2.2 2.1 2.0 1.9	2.3 2.3 2.3 2.2 2.0 2.0 2.0 1.9 1.9 1.8 1.8 1.7 1.6 1.6	1.5 1.4 1.4 1.4 1.3 1.3 1.3 1.3 1.3 1.3	24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60
24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64	3.0 3.0 3.0 3.0 2.9 2.9 2.9 2.9 2.9 2.8 2.8 2.7 2.5 2.5 2.5 2.3 2.2 2.1	2.4 2.3 2.2 2.0 2.0 2.0 1.8 1.8 1.6 1.6 1.5 1.5	1.5 1.4 1.4 1.4 1.3 1.3 1.3 1.3 1.3 1.1 1.1 1.1	2.7 2.7 2.7 2.7 2.6 2.6 2.6 2.6 2.5 2.5 2.5 2.5 2.4 2.4 2.3 2.2 2.1 1.8	2.4 2.3 2.3 2.1 2.0 2.0 2.0 1.8 1.8 1.8 1.6 1.6 1.5	1.5 1.4 1.4 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.1 1.1	2.5 2.5 2.5 2.4 2.4 2.4 2.3 2.3 2.3 2.3 2.2 2.2 2.1 2.0 1.9 1.4	2.3 2.3 2.3 2.2 2.0 2.0 2.0 1.9 1.9 1.8 1.8 1.7 1.6 1.6	1.5 1.4 1.4 1.4 1.3 1.3 1.3 1.3 1.3	24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58
24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62	3.0 3.0 3.0 3.0 2.9 2.9 2.9 2.9 2.8 2.8 2.7 2.5 2.5 2.5 2.3 2.2 2.1 2.0	2.4 2.3 2.2 2.0 2.0 2.0 1.8 1.8 1.6 1.6 1.5 1.5 1.5	1.5 1.4 1.4 1.4 1.3 1.3 1.3 1.3 1.2 1.1 1.1	2.7 2.7 2.7 2.7 2.6 2.6 2.6 2.6 2.5 2.5 2.5 2.5 2.4 2.4 2.3 2.2 2.1 1.8	2.4 2.3 2.3 2.1 2.0 2.0 2.0 1.8 1.8 1.8 1.6 1.6 1.5 1.5	1.5 1.4 1.4 1.3 1.3 1.3 1.3 1.3 1.3 1.2 1.1	2.5 2.5 2.5 2.4 2.4 2.4 2.3 2.3 2.3 2.3 2.2 2.2 2.1 2.0 1.9 1.4	2.3 2.3 2.3 2.2 2.0 2.0 2.0 1.9 1.9 1.8 1.8 1.7 1.6 1.6	1.5 1.4 1.4 1.4 1.3 1.3 1.3 1.3 1.3 1.3 1.3	24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62

Description of symbols

General syr	nbols		
4	Superstructure	**	Chassis
A	Lifting capacity	ı∔ı	Axle
14	Boom length	km/h	Driving speed
A	Radius	F	Grade ability
A.	Boom angle	0	Tires
Pi	Hoist height with boom	<u>}</u>	Outriggers
AI	Fixed jib length	S T	Hook block
A CONTRACTOR OF THE PROPERTY O	Jib offset angle		Counterweight
PT	Hoist height with jib		Winch
A	Independent jib head	360,	360° rotation
STATE	Boom extension		

Table of main technical parameters

Category		Item	Unit	Parameter
	Dimensions (Length×width×height)		mm	16450×3150×4000
	Wheel base		mm	2650+1650+2900+1650
Dimensions	Track (Front/		mm	2572
	Front/ Rear overhang		mm	2660/2128
	F	ront/ Rear extension	mm	1880/932
	Ma	x. permissible weight	kg	≤60000
		1st axle	kg	≤12000
***		2nd axle	kg	≤12000
Weight	Axle	3rd axle	kg	<u>−</u> ≤12000
	loa	4th axle	kg	<u>=</u> ≤12000
	d	5th axle	kg	<u>≤12000</u>
	Engine model			OM471LA
Power	Rated power/rpm		kW/(r/min)	390/1700
	Max. output torque/rpm		N.m/(r/min)	2460/1300
	Max. travel speed		km/h	≥80
	Min. travel speed		km/h	≤3
	Min. turning diameter		m	≤21
	Min. turning diameter at boom tip		m	≤25
Travel	Min. ground clearance		mm	352
	Approach angle		0	20
		Departure angle	o	12
	Braking distance (at 30 km/h)		m	≤10
	Max. grade ability		%	≥60
Noise	Noise	e level at seated position	dB(A)	≤90

Table of main technical parameters

Category		Unit	Parameter		
	Max. total rated lifting	t	160		
	Min. rated working	m	2.5		
	Turning radius at turntable	ght	mm	5110	
	tail	Auxiliary w	vinch	mm	4960
		Base	boom	kN.m	5145
	Max. load moment	Fully-exte	ended boom	kN.m	2695
		Longitud	inal	ıl m	
Main	Outrigger span	Latera	1	m	7.9
performance		Base	boom	m	14
	Hoist height	Fully-exte	ended boom	m	64.1
		Fully-extend	ed boom + Jib	m	95.5
		Base	boom	m	13.9
	Boom length	Fully-exte	ended boom	m	65
		Fully-extend	ed boom + Jib	m	99.5
	Boom raising t	s	≤60		
	Boom fully extend	s	≤750		
	Max. slewing	speed		r/min	≥1.5
		Outrigger beam	Retracting	s	≤40
*** 1.	Outrigger extending and		Extending	s	≤40
Working speed	retracting time		Retracting	s	≤60
		Outrigger jack	Extending	s	≤90
		Main winch		m/min	≥135
	Hoisting speed (single line, 4th layer, no load)	Auxiliary win	ch	m/min	≥90
Noise	Noise level at sea	Noise level at seated position			≤85

Notes

- 1. The total rated loads given in the rated load charts are the maximum lifting capacity when the crane is set up on firm and level ground, which includes the weight of the hook block and slings. The weight of above-mentioned devices should be deducted from the rated lifting load.
- 2. The working radius shown in the rated load charts is the radius when the load is lifted off the ground, and it is the actual value including loaded boom deflection. Take boom deflection into consideration before beginning a lifting operation.
- 3. A lifting operation is permissible only when the wind force is below grade 5 (instantaneous wind speed is 14.1 m/s, wind pressure is 125 N/m²).
- 4. Before beginning lifting operation, the operator should know the weight of the load to be lifted and its working range, and then select proper working conditions. Never operate the crane beyond the limit shown in the chart. Use the lower value from the chart when the boom length or working radius is between the range of values.
- 5. 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. Otherwise, the crane will tip.
- The boom should be extended according to the telescoping code shown by digits, which means the percentage of boom sections extended.



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