



ALL TERRAIN CRANE

# XCA150\_U

STEADY POWER LIFTER



136 t  
(150 USt)



62 m  
(203.4 ft)



70 m  
(229.7 ft)



92.5 m  
(303.5 ft)





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## WHERE IT COUNTS: THE BOOM.

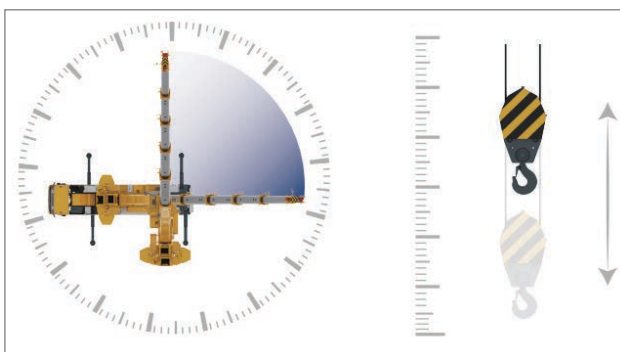
### 203.4 FT. SIX SECTIONS. MAXIMUM TIP HEIGHT OF 310.1 FT WITH JIB.

- 150 USt capacity with a 6-section boom that reaches further than most jobs will ever demand. When the jib goes up, maximum tip height hits 310.1 ft. Whatever the job puts in front of you, this boom gets there.



**PRECISE HYDRAULICS | EFFICIENT PERFORMANCE.**

- Minimum stable slewing speed of  $0.1^\circ/\text{s}$  and minimum stable lifting speed of 8.2 ft/min. The control the operator needs for surgical lifts without sacrificing productivity.
- Dual-pump independent and confluence control delivers industry-leading combined movement performance. More flow when you need speed. Precise and independent when you need control.

**PRECISE CONTROL**

Millimeter precision when winching, slewing, and luffing.

# GETS IN. GETS OUT. GETS THE JOB DONE.

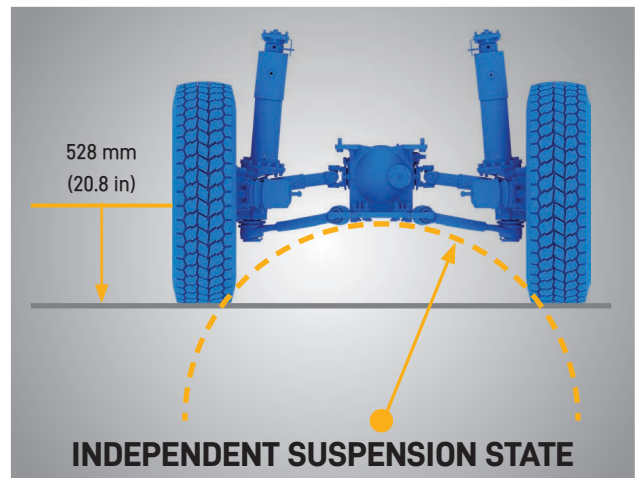
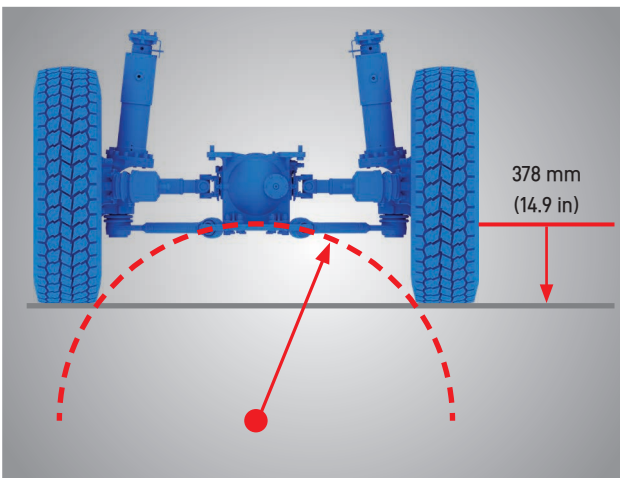
## BUILT FOR THE ROAD AND THE JOB SITE.

- 525/80R25 large-format tires deliver industry-leading high-speed maneuverability and strong off-road capability. The 3-axle dolly axle load stays at or below 9 USt, meeting permit requirements across North American operating conditions.
- Suspension system features automatic leveling, variable ride height, and smooth switching between locked and unlocked modes for a controlled drive to every job site.



## INDEPENDENT SUSPENSION ON EVERY AXLE.

- Each wheel operates independently, adapting to changing road conditions in real time. Improved stability at high speed, better control on tight turns, and confident performance on narrow and rough roads.



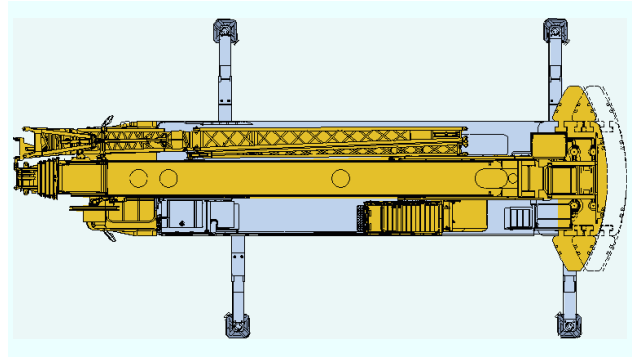
## STOPPING POWER THAT MATCHES THE MACHINE

- High-performance disc brakes deliver consistent stopping power at highway speeds. Automatic gap adjustment maintains braking performance over time. Superior heat dissipation and fade resistance keep the machine in control on steep descents and mountain roads.

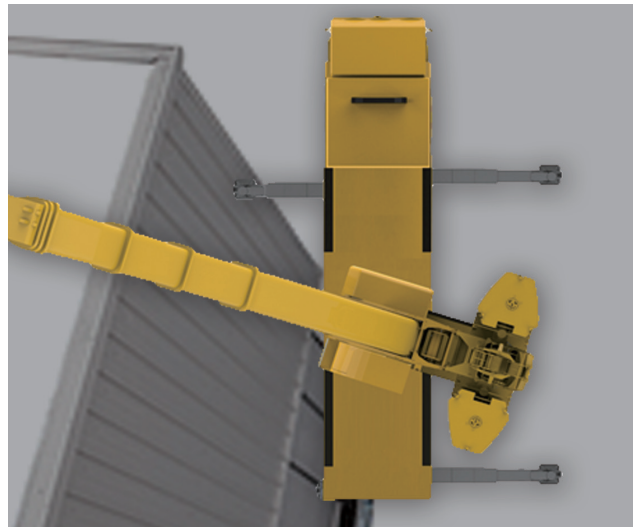


**VARIABLE-POSITION COUNTERWEIGHT.**

- Counterweight in the front position reduces turning radius for tight job sites. Shift it to the rear and lifting performance improves by up to 8%. One machine, two configurations, optimized for what the job demands.

**VARIABLE OUTRIGGER CONFIGURATIONS.**

- Multiple outrigger telescoping length combinations give the operator flexibility to match the footprint to the site.
- Operates smoothly in confined spaces without sacrificing lifting efficiency.

**BUILT FOR A ONE-MAN CREW.**

- Outriggers can be controlled in the operator's cab, eliminating the need to get in and out of the vehicle repeatedly, making outrigger operation more convenient.
- Remote control of outriggers, lifting, luffing, slewing, counterweight, and jib unfolding and folding by mobile terminal enables "one-man operation of the machine", thus saving labor costs.





# THE DETAILS THAT MAKE THE DIFFERENCE.

Designed around the driver. Every detail considered, every shift in mind.

## DRIVER'S CAB

① Shock absorbing seats	Leather and breathable mesh fabric. Mechanically shock-absorbing and adjustable for driver and co-driver. The co-driver seat folds flat into a sleeper.
② High-definition display	12-inch full LCD instrument panel. Clean, direct readouts of everything the driver needs.
③ Multi-function entertainment screen	12-inch full LCD screen integrated with backup camera and additional functions.
④ Multi-function steering wheel	Adjustable up, down, forward, and back. Integrated cruise control, multimedia control, and other functions for convenient operation.
⑤ HVAC	Face and foot blending, defrosting, and defogging. Improved cooling and heating efficiency.
⑥ Other user-friendly configurations	LED combination headlights and electrically adjustable rear-view mirrors with heating function.



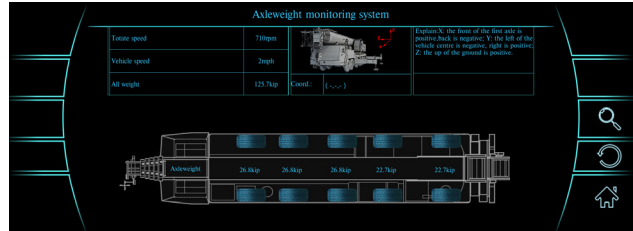
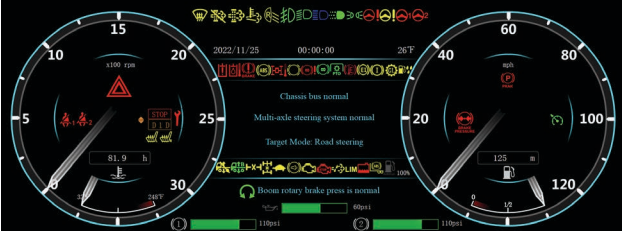
## OPERATOR'S CAB

①	Adjustable Electric Heated Seat	Leather and breathable mesh fabric. Heated and fully adjustable.
②	High-Definition Display	10.4-inch true-color touchscreen.
③	Silicone Buttons	Three dedicated control zones covering safety, lifting operation, and operating environment. Everything within reach.
④	Vibration Lever	Proportional control with tactile feedback for precise speed management during lifting.
⑤	HVAC	Face and foot blowing, defrosting, and defogging. Improved cooling and heating efficiency.
⑥	20° Tiltable Operator's Cab	Clearer lifting view.
⑦	Other User-Friendly Configurations	Dual-layer sun screen for roof window. Sun screens for windshield, rear, and side windows. External large-capacity water tank. Independent windshield and top window washing controls. Mesh floor mat with edge sealing, easy to remove and clean.

# THE DETAILS THAT MAKE THE DIFFERENCE.

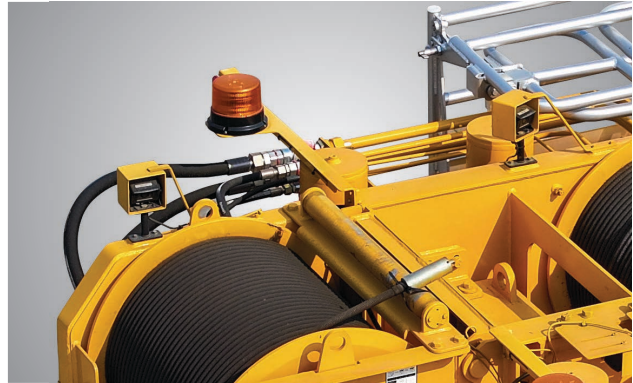
## SMARTER DRIVING. SAFER OPERATION.

- Self-diagnosis, dynamic driving status monitoring, and axle load detection. The system watches the machine so the operator can focus on the job.



## SEE EVERYTHING. MISS NOTHING.

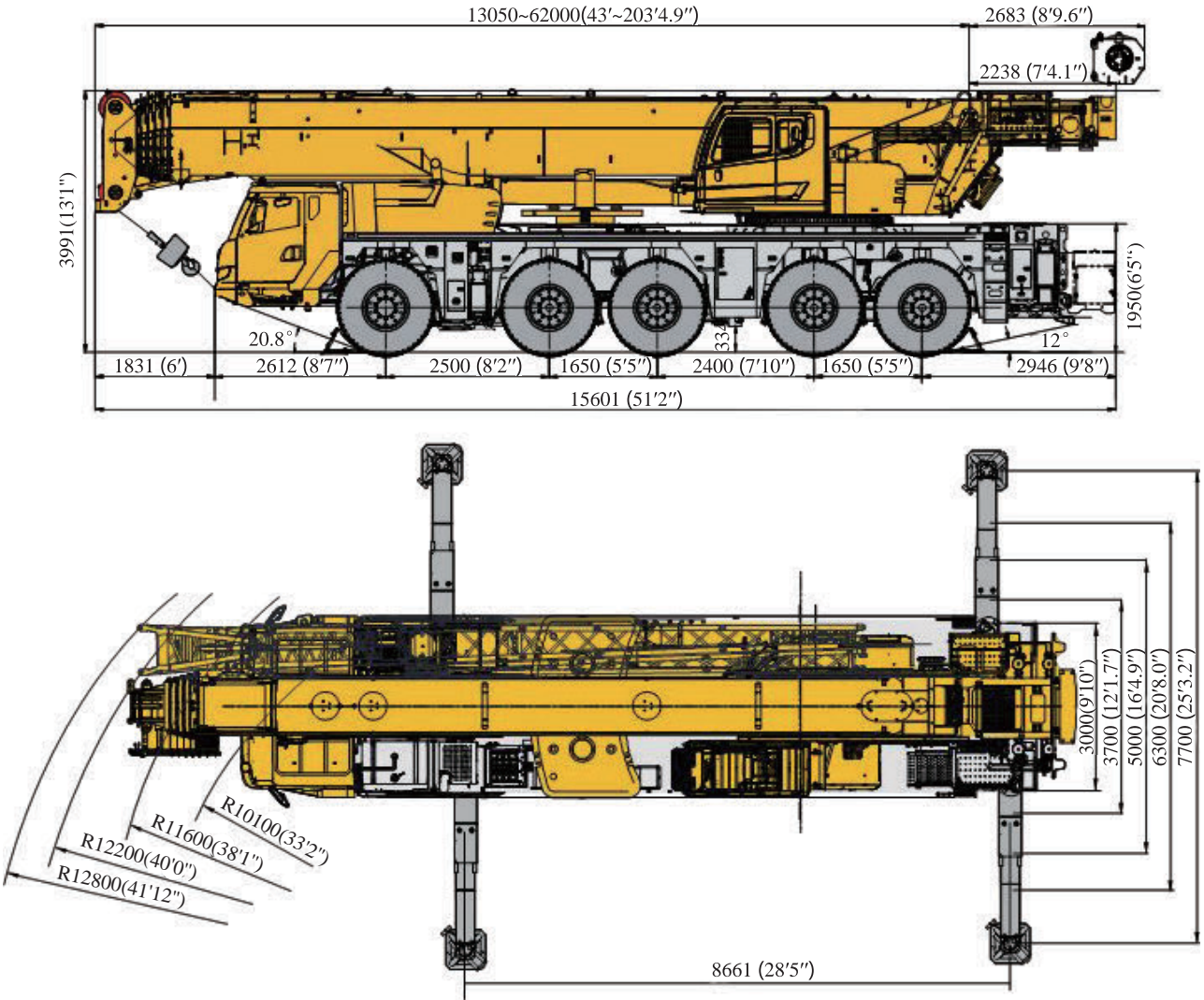
- Boom head, winch, and counterweight camera systems give the operator full visibility of the hoisting condition from the cab.



## BUILT AROUND THE OPERATOR.

- Full access platform at the winch area with dedicated walkways and railings. Designed to make daily operation, maintenance, and inspection straightforward and safe.

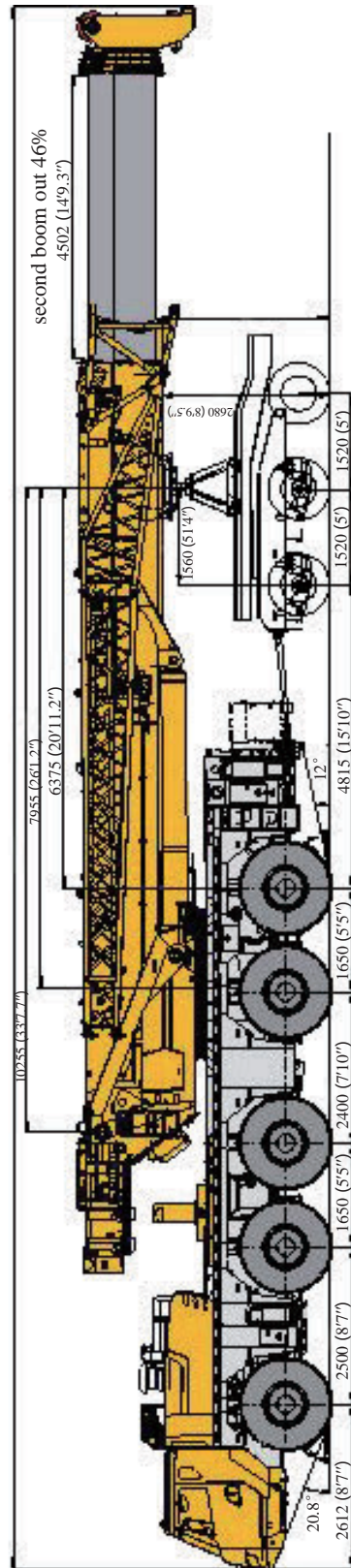
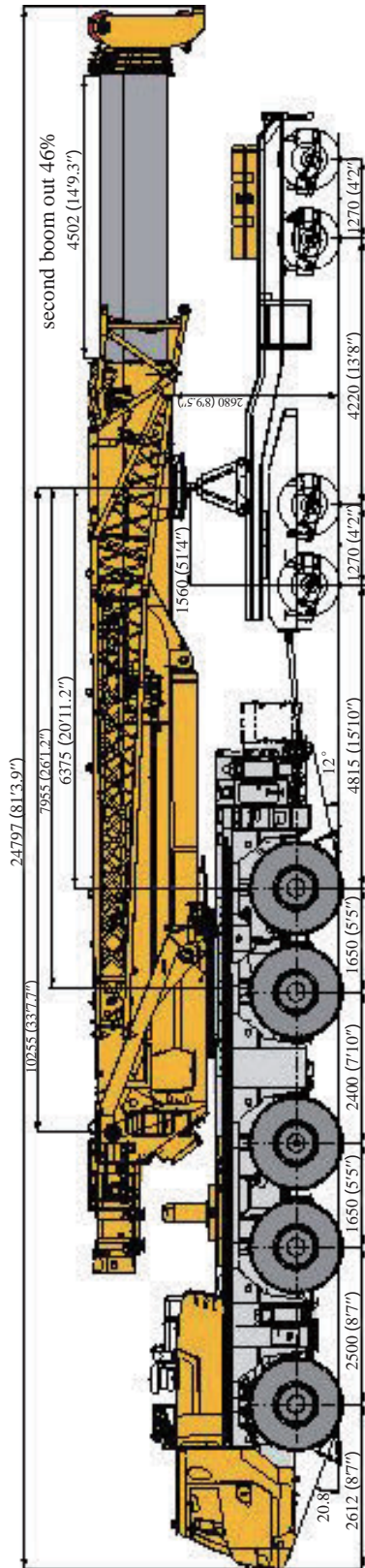




Tight-turning radius steering mode

# DIMENSIONS

Travel configuration with dolly



Note: The dollies in Figure above are only for reference.

GVW	DOLLY CONFIGURATION	COMPONENTS
<b>132,100 lb</b> <b>(59.9 t)</b>	<b>4-axle dolly</b>	<p>1. Superstructure: two jib sections and counterweight 4,850 lb (2,200 kg) + 1,543 lb (700 kg) + 3,086 lb (1,400 kg) are carried. Dolly with counterweight 12,345 lb (5,600 kg) + 12,787 lb (5,800 kg) × 2 + 6,172 lb (2,800 kg), auxiliary winch and rope, auxiliary sheave, hydraulic hose reel, and counterweight 13,448 lb (6,100 kg) × 2 are removed.</p> <p>2. Chassis: spare tire and its bracket are removed.</p>
	<b>3-axle dolly</b>	<p>1. Superstructure: two jib sections and counterweight 4,850 lb (2,200 kg) + 1,543 lb (700 kg) + 3,086 lb (1,400 kg) are carried. Hook blocks, auxiliary winch and rope, auxiliary sheave, hydraulic hose reel, and counterweight 13,448 lb (6,100 kg) × 2 + 12,787 lb (5,800 kg) × 2 + 12,345 lb (5,600 kg) + 12,125 lb (5,500 kg) + 6,172 lb (2,800 kg) are removed.</p> <p>2. Chassis: spare tire and its bracket are removed.</p>

# TECHNICAL SPECIFICATIONS



## CHASSIS

<b>Frame</b>	Box-section construction with high load-bearing capacity, made of high-strength steel. Finite element analysis applied across all operating modes for design and calculation. High-standard testing throughout the manufacturing process. Flaw detection on all key parts ensures strength and stability during load-bearing operations.	•
<b>Outriggers</b>	H-configuration, two-stage telescoping with push-pull outrigger floats. Four working positions: fully retracted, half extended, 75% extended, and fully extended. Outrigger control panels on both sides of the chassis, controlled via CAN bus. Float diameter: 19.5 in (495 mm). Maximum outrigger load: 199,779.5 lb (888 kN).	•
<b>Engine</b>	Mercedes-Benz OM471LA, 6-cylinder diesel. Rated power: 362 hp / 1,600 rpm (360 kW). Maximum torque: 1,769.8 lb-ft / 1,300 rpm (2,400 N-m). EU Stage V and U.S. EPA Tier 4 Final compliant. Fuel tank capacity: approximately 110 gal (415 L).	•
	Engine cold weather starting device	•
<b>Transmission</b>	ZF AMT automatic transmission. 12 forward, 2 reverse gears.	•
<b>Axles</b>	5-axle chassis with disconnected axles. Axles 2, 3, 4, and 5 drive. All-wheel steering.	•
<b>Suspension</b>	Advanced independent suspension. Left and right side tires move independently to adapt to road conditions. Hydro-pneumatic suspension with automatic leveling and shock absorption. Chassis ride height is adjustable. Main reducer attaches to the frame and can be raised or lowered to improve ground clearance and pass ability. Suspension cylinder stroke: -0.5 to +0.5 ft (-150 to +150 mm).	•
<b>Tires</b>	525/80R25 (20.5R25). 10+1 including spare.	•
<b>Brakes</b>	Service brake: foot pedal operated dual-circuit air pressure brake. Circuit 21 acts on axles 3, 4, and 5. Circuit 22 acts on axles 1 and 2. Parking brake: air-release brake acting on axles 2, 4, and 5, spring-loaded air chamber on each axle. Auxiliary brake: engine retarder and transmission retarder.	•
	Eddy current retarder	○
<b>Steering</b>	Axles 1 and 2 mechanically steered with hydraulic power assistance. Axles 3, 4, and 5 electrically controlled hydraulic steering.	•



**CHASSIS**

<p><b>Driver's Cab</b></p>	<p>Full-dimension steel cab with suspended connection structure and rear shock absorber. Adjustable seats, safety glass, electrically operated door window lifter, electric-adjustable rearview mirrors, and height and angle adjustable steering wheel standard. Backup camera, large liquid crystal display, and CD player included. Combined central control panel with arc-shape design. Heater and air conditioner standard.</p> <p>Beacon light at the driver's cab.</p>	<ul style="list-style-type: none"> <li>•</li> <li>•</li> </ul>
<p><b>Electrical System</b></p>	<p>CAN bus chassis electrical system. LCD display for data readout. Intelligent system enables rapid, stable, and accurate data transfer. Brake system comprehensive management and fault diagnosis with alarm.</p>	<ul style="list-style-type: none"> <li>•</li> </ul>
<p><b>Hydraulic System</b></p>	<p>Electro-hydraulic steering, outrigger, suspension, and independent cooling systems driven by variable piston pump.</p> <p>Steering system: load-sensing pump, emergency pump, selector valve, proportional valve group, lock valve group, boost cylinder, lock cylinder, hydraulic oil cooler, and fault diagnosis and alarm.</p> <p>Outrigger and suspension systems: load-sensing pump, solenoid directional valve group, extension cylinder, jack cylinder, and suspension cylinder.</p> <p>Independent cooling system: variable displacement fan motor pump driven by electrically controlled variable pump.</p>	<ul style="list-style-type: none"> <li>•</li> </ul>

# TECHNICAL SPECIFICATIONS



## SUPERSTRUCTURE

<b>Structure</b>	High-strength steel. Designed and manufactured by XCMG.	•	
<b>Hydraulic System</b>	Variable piston pump driven by engine for lifting, luffing, telescoping, and slewing. Drive gear pump for oil filling, auxiliary system, and air conditioning. Open-type system with main valve controlled by electric proportional pilot. Air-cooled hydraulic oil cooler reduces oil temperature throughout the system.	•	
<b>Control System</b>	Electric-proportional pilot operation system with two levers at left and right sides controlling all primary crane movements. Normal switch control via bus-type modular console. Touchscreen display shows operation parameters, lifting charts, overall fault diagnosis, and auxiliary movement control for PTO and counterweight assembly.	•	
<b>Winch System</b>	Hydraulic speed regulation. Hydraulic motor drive through a planetary gear reducer. Normally closed brake with counterbalance valve and grooved drum.	Main winch	•
		Auxiliary winch	○
<b>Slewing System</b>	Single-row four-point ball contact external tooth slewing bearing. Hydraulic motor drive through planetary gear reducer. Continuous 360° slewing. Power control and free slewing with stepless speed regulation.	•	
<b>Operator's Cab</b>	New steel cab with full-view windshield. Safety glass and sun screens on all windows. Ergonomic seat with backrest adjustment and armrests with control levers. Sliding door with pull-out step for easy access. Wipers for windshield and roof window. Human-machine interactive control panel. Tilttable to 20°.	•	
<b>Operational Aids</b>	Hydraulic counterbalance valve, relief valve, and dual-direction hydraulic lock. LMI standard. Lowering limiter, anti-two-block, anemometer, and winch monitoring device standard.	•	
<b>Combined Counterweight</b>	9 configurations available: 92,610 lb (42 t), 67,032 lb (30.4 t), 54,905 lb (24.9 t), 42,557 lb (19.3 t), 33,957 lb (15.4 t), 21,830 lb (9.9 t), 15,656 lb (7.1 t), 9,482 lb (4.3 t), and 4,631 lb (2.1 t).	•	
<b>Centralized Lubrication System</b>	Computer-controlled lubrication program. Lubrication points at slewing bearing, main and auxiliary winch bearing pedestals, upper and lower luffing cylinder pivots, tilting cylinder pivot, and boom rear pivot.	•	
<b>Hook block</b>	12.1 USt (11 t): standard	•	
	27.6 USt (25 t): standard	•	
	66.1 USt (60 t): standard	•	
	99.2 USt (90 t): standard	•	
	150.0 USt (136 t): optional	○	



**SUPERSTRUCTURE**

<b>Boom</b>	6-section boom with oval cross-section welded structure. Single-plate boom head and compact boom tail. Single-cylinder pinning telescoping mechanism. Boom length: 43.0–203.4 ft (13,050–62,000 mm).	●
<b>Jib</b>	Connecting bracket, offsetting bracket, and two lattice sections. Offset angles of 0°, 20°, and 40°. Stowed along the side of the boom. Jib length: 36.1–60.7 ft (11–18.5 m).	●
	Stepless luffing	○
<b>Extension</b>	23 ft (7 m) boom extension	○
	23 ft (7 m) boom extension	○
<b>Independent Jib Head</b>	9.5 ft (2.9 m)	○
<b>Auxiliary Sheave</b>	Fitted at boom head. Folds to one side when not in use. Maximum lifting load single part of line: 7.7 USt (7 t).	○

Other items of equipment available on request.

- —Standard configuration;
- —Optional configuration.

# WEIGHTS







1-3	4-5	DRIVING MODE		TOTAL WEIGHT	TOTAL LENGTH
26,500 lb (12 t)	26,500 lb (12 t)	10×8×10	525/80R2 (20.00 R25)	132,300 lb (60 t) <sup>1)</sup>	15.6 m (51.2 ft)
30,900 lb (14 t)	44,100 lb (20 t)	10×8×10	525/80R2 (20.00 R25)	176,400 lb (80 t) <sup>2)</sup>	15.6 m (51.2 ft)











Note 1 — Total weight of 132,300 lb is calculated with the following items installed: 12.1 USt hook block, 4,850 lb movable counterweight at vehicle center, 1,543 + 3,086 lb fixed counterweight at rear, and two jib sections. The following items are not installed: 66.1 USt hook block, 27.6 USt hook block, auxiliary winch system, auxiliary winch slings, auxiliary sheave, hose reel, other movable counterweight, spare tire and bracket.

Note 2 — Total weight of 176,400 lb is calculated with the following items installed: outrigger floats and storage box, jib, 66.1 USt hook block, 37,919 lb counterweight at center position, and 3,086 lb counterweight at rear.

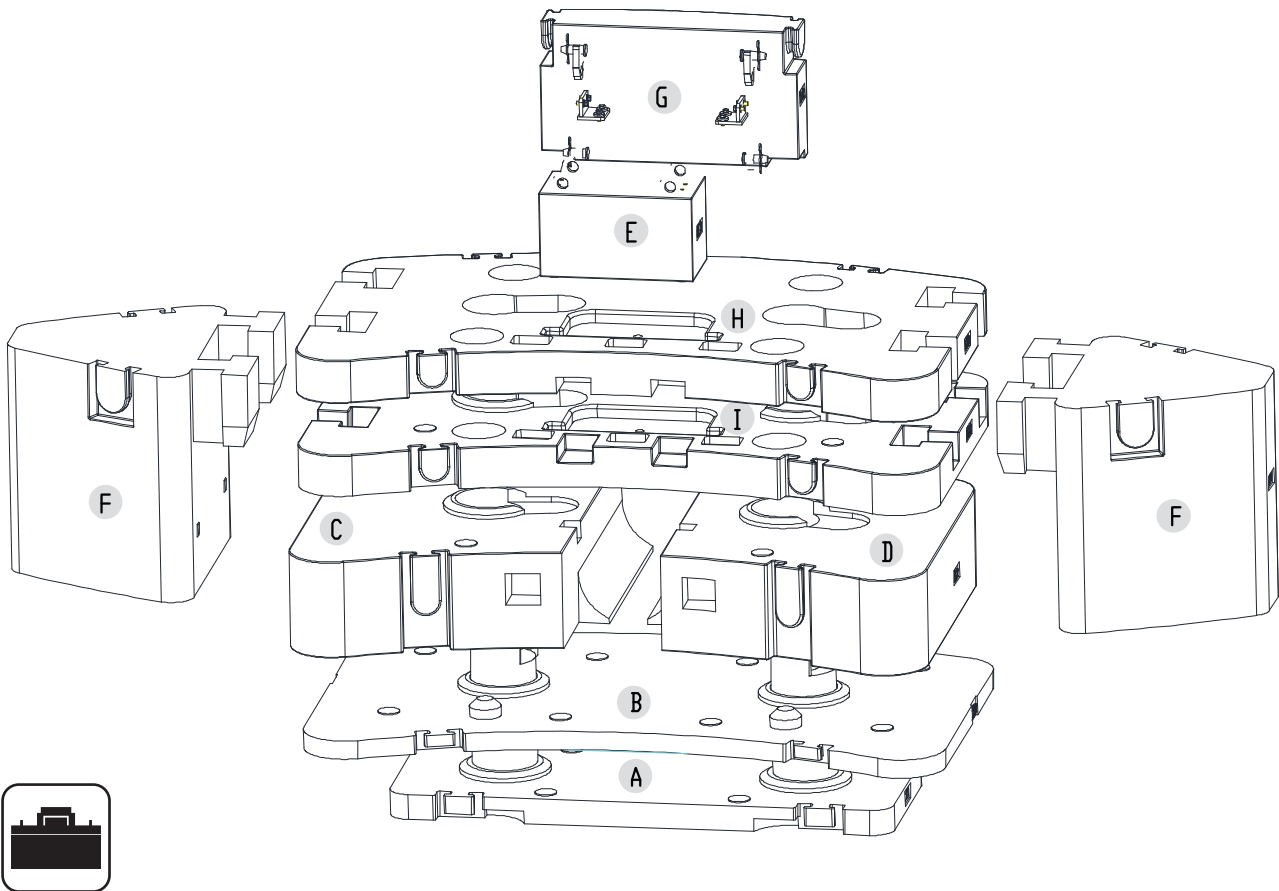


MAXIMUM LIFTING CAPACITY OF THE HOOK BLOCK	PARTS OF LINE	WEIGHT lb (kg)	DIMENSIONS (in)	REMARKS
150 USt (136 t) — optional	14	3,014 (1,367)	75×30×33	Dual-hook
99.2 USt (90 t)	10	2,094 (950)	65×25×24	Dual-hook
66.1 USt (60 t)	7	1,402 (636)	57×25×14	Dual-hook
27.6 USt (25 t)	3	1,402 (636)	57×22×13	Single-hook
12.1 USt (11 t)	1	653 (296)	17×29×17	Single-hook

			
525/80R25 (20.5R25)		49.7 mph (80 km/h)	60%

				
	0-426 ft/min (0-130 m/min), single line, 4th layer	18,600 lb (8.4 t)	0.78 in (20 mm)	869.4 ft (265 m)
	0-426 ft/min (0-130 m/min), single line, 4th layer	18,600 lb (8.4 t)	0.78 in (20 mm)	672.5 ft (205 m)
	0-1.5 rpm			
	Approximately 65 sec, -0.5° to 82°			
	Approximately 580 sec, 43 ft to 203.4 ft (13,050 mm to 62,000 mm)			

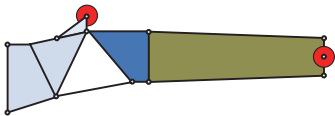
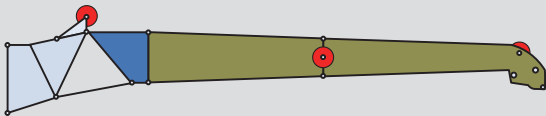
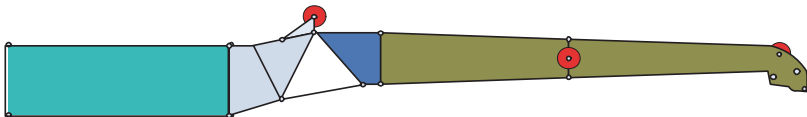
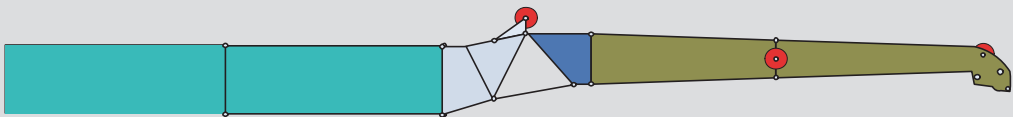
# COUNTERWEIGHT

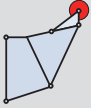

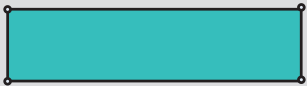




COUNTERWEIGHT	A	B	C	D	E	F	G*	H	I
Length in (m)	93 (2.36)	118 (3)	55 (1.4)	55 (1.4)	28 (0.71)	47 (1.19)	47 (1.19)	118 (3)	118 (3)
Width in (m)	35 (0.89)	72 (1.83)	72 (1.83)	72 (1.83)	14 (0.36)	14 (0.36)	14 (0.36)	72 (1.83)	72 (1.83)
Height in (m)	33 (0.84)	7 (0.18)	20 (0.51)	20 (0.51)	19 (0.48)	43 (1.1)	26 (0.66)	8 (0.2)	9 (0.23)
Weight lb (t)	4,850 (2.2)	6,172 (2.8)	13,448 (6.1)	13,448 (6.1)	1,543 (0.7)	12,787 (5.8)	3,086 (1.4)	3,086 (1.4)	12,125 (5.5)

OPERATION MODE	42 t (92,610 lb)	30.4 t (67,032 lb)	24.9 t (54,905 lb)	19.3 t (42,557 lb)	15.4 t (33,957 lb)	9.9 t (21,830 lb)	7.1 t (15,656 lb)	4.3 t (9,482 lb)	2.1 t (4,631 lb)
Combinations	A + B + C + D + E + F × 2 + G + H + I	A + B + C + D + E + G + H + I	A + B + C + D + E + G + H	A + B + C + D + E + G	A + E + G + H + I	A + E + G + H	A + B + E + G	A + E + G	E + G

\* CWT G is only used when aux winch is removed

Jib - 36.1 ft (11 m)	
Jib - 60.7 ft (18.5 m)	
Boom Extension - 83.6 ft (25.5 m)	
Boom Extension - 106.6 ft (32.5 m)	

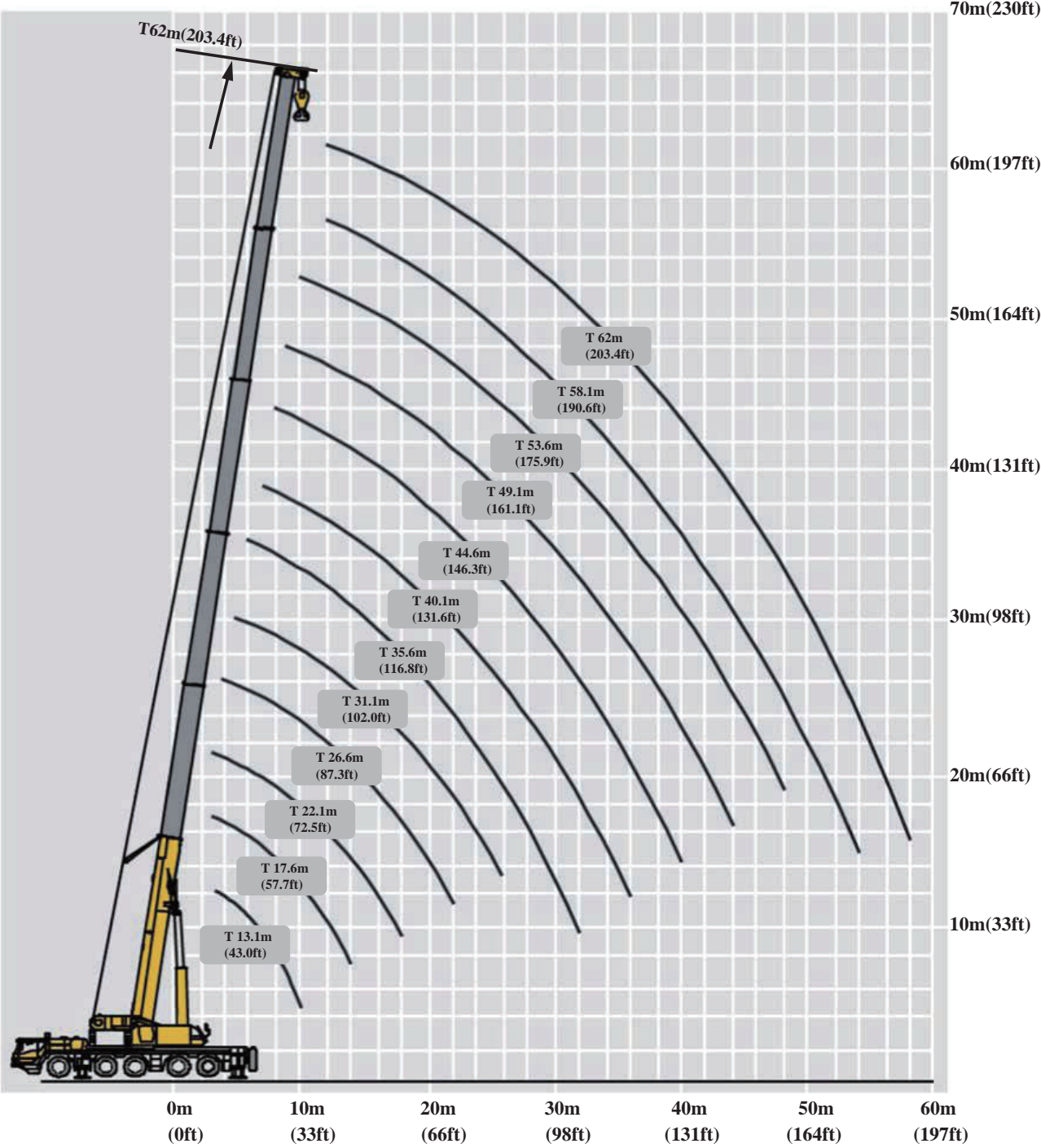
COMPONENT	STRUCTURE	LENGTH ft (m)	WEIGHT lb (kg)
Connecting bracket		3.28 (1.00)	822.3 (373)
Offsetting bracket		11.15 (3.40)	839.9 (381)
Boom extension		23.29 (7.10)	1,410.9 (640)
1st jib section assembly		23.06 (7.03)	1,358.0 (616)
2nd jib section assembly		24.15 (7.36)	1,358.0 (616)

# BOOM / JIB COMBINATIONS

BOOM	JIB	BOOM EXTENSION
T: 43.0-203.4 ft (13.05-62 m)	T: 43.0-203.4 ft (13.05-62 m) J: 36.1 ft (11 m), 60.7 ft (18.5 m)	T: 190.6-203.4 ft (58-62 m) V: 23 ft (7 m) ×2. J: 36.1 ft (11 m), 60.7 ft (18.5 m)

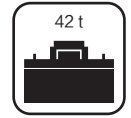
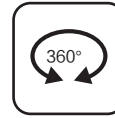
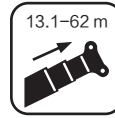




# BOOM



# LOAD CHARTS

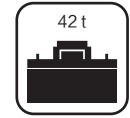
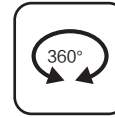
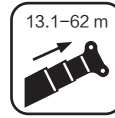
## COUNTERWEIGHT IN THE FRONT POSITION UNITS: METRIC TONS





	13.1	17.6	22.1	26.6	31.1	35.6	40.1	44.6	49.1	53.6	58.1	62	
3	136.0**	83.0	83.0										3
3.5	101.0*	83.0	83.0										3.5
4	93.0*	83.0	83.0	67.0									4
4.5	86.0*	83.0	82.0	67.0									4.5
5	81.0	79.0	77.0	67.0	58.0								5
6	71.0	69.0	68.0	66.0	58.0	50.0							6
7	62.0	62.0	61.0	59.0	58.0	50.0	42.0						7
8	55.0	56.0	55.0	53.0	53.0	48.8	42.0	32.7					8
9	47.0	50.0	50.0	48.0	48.0	46.3	42.0	32.7	25.1				9
10	38.0	44.8	44.9	44.0	44.0	44.0	40.3	31.9	25.1	18.7			10
12		36.1	36.3	36.0	36.7	37.4	34.0	27.6	25.1	17.8	14.7	11.8	12
14		27.0	30.1	29.8	30.5	31.2	29.6	24.1	22.6	16.8	14.6	11.8	14
16			24.3	24.0	24.8	25.7	25.3	21.4	20.1	15.8	14.5	11.8	16
18			20.1	19.8	20.6	21.4	21.0	19.1	17.8	14.7	14.2	11.7	18
20				16.5	17.4	18.1	17.8	17.2	16.1	13.9	12.9	11.7	20
22				14.0	14.8	15.6	15.2	15.2	14.6	12.8	11.6	10.6	22
24				10.0	12.8	13.5	13.2	13.2	13.2	11.7	10.5	9.6	24
26					11.1	11.8	11.5	11.5	11.7	10.7	9.6	8.8	26
28					9.6	10.4	10.0	10.0	10.2	9.8	8.9	8.1	28
30						9.2	8.8	8.8	9.0	9.0	8.2	7.5	30
32						8.0	7.8	7.7	7.9	8.3	7.6	6.8	32
34							6.8	6.8	7.0	7.3	7.0	6.4	34
36							6.0	6.0	6.2	6.5	6.5	5.9	36
38								5.3	5.5	5.8	6.1	5.5	38
40								4.7	4.9	5.2	5.6	5.1	40
42									4.3	4.6	5.0	4.7	42
44									3.8	4.1	4.5	4.3	44
46										3.6	4.0	4.0	46
48										3.2	3.6	3.6	48
50											3.2	3.2	50
52											2.8	2.9	52
54											2.5	2.6	54
56												2.3	56
58												1.6	58

\*\* Capacity class; \* with the additional sheave of boom.

**COUNTERWEIGHT IN THE REAR POSITION**  
**UNITS: METRIC TONS**

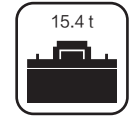
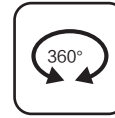
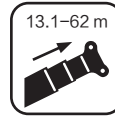




	13.1	17.6	22.1	26.6	31.1	35.6	40.1	44.6	49.1	53.6	58.1	62	
3	136.0**	83.0	83.0										3
3.5	101.0*	83.0	83.0										3.5
4	93.0*	83.0	83.0	67.0									4
4.5	86.0*	83.0	82.0	67.0									4.5
5	81.0	79.0	77.0	67.0	58.0								5
6	71.0	69.0	68.0	66.0	58.0	50.0							6
7	62.0	62.0	61.0	59.0	58.0	50.0	42.0						7
8	55.0	56.0	55.0	53.0	53.0	48.8	42.0	32.7					8
9	47.0	50.0	50.0	48.0	48.0	46.3	42.0	32.7	25.1				9
10	38.0	45.6	45.0	44.0	44.0	44.0	40.3	31.9	25.1	18.7			10
12		36.8	37.0	36.7	37.4	38.0	34.0	27.6	25.1	17.8	14.7	11.8	12
14		27.0	30.2	29.8	30.7	31.5	29.6	24.1	22.6	16.8	14.6	11.8	14
16			24.3	24.0	24.8	25.7	25.3	21.4	20.1	15.8	14.5	11.8	16
18			20.1	19.8	20.6	21.4	21.0	19.1	17.8	14.7	14.2	11.7	18
20				16.5	17.4	18.1	17.8	17.2	16.1	13.9	12.9	11.7	20
22				14.0	14.8	15.6	15.2	15.2	14.6	12.8	11.6	10.6	22
24				10.0	12.8	13.5	13.2	13.2	13.2	11.7	10.5	9.6	24
26					11.1	11.8	11.5	11.5	11.7	10.7	9.6	8.8	26
28					10.3	10.4	10.1	10.0	10.2	9.8	8.9	8.1	28
30						9.2	8.8	8.8	9.0	9.0	8.2	7.5	30
32						8.0	7.8	7.8	8.0	8.3	7.6	6.8	32
34							6.9	6.9	7.1	7.4	7.0	6.4	34
36							6.1	6.1	6.3	6.6	6.5	5.9	36
38								5.4	5.6	5.9	6.1	5.5	38
40								4.7	4.9	5.3	5.6	5.1	40
42									4.4	4.7	5.1	4.7	42
44									3.9	4.2	4.5	4.3	44
46										3.7	4.1	4.0	46
48										3.3	3.6	3.7	48
50											3.3	3.3	50
52											2.9	2.9	52
54											2.6	2.6	54
56												2.3	56
58												1.6	58

\*\* Capacity class; \* with the additional sheave of boom.

# LOAD CHARTS

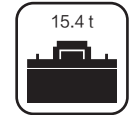
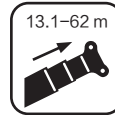
## COUNTERWEIGHT IN THE FRONT POSITION UNITS: METRIC TONS





	13.1	17.6	22.1	26.6	31.1	35.6	40.1	44.6	49.1	53.6	58.1	62		
3	134.3**	83.0	83.0										3	
3.5	101.0*	83.0	83.0										3.5	
4	93.0*	83.0	83.0	67.0									4	
4.5	86.0*	83.0	82.0	67.0									4.5	
5	80.1	79.0	77.0	67.0	58.0								5	
6	65.6	66.3	66.5	66.0	58.0	50.0							6	
7	55.2	55.9	56.1	55.7	56.5	50.0	42.0						7	
8	47.4	48.1	48.3	47.9	48.6	48.8	42.0	32.7					8	
9	38.6	39.6	39.9	39.4	40.4	41.5	41.0	32.7	25.1				9	
10	31.3	32.4	32.7	32.1	33.2	34.3	33.8	31.9	25.1	18.7			10	
12		22.7	23.0	22.5	23.5	24.5	24.0	24.0	24.3	17.8	14.7	11.8	12	
14		16.9	17.1	16.7	17.6	18.5	18.1	18.1	18.3	16.8	14.6	11.8	14	
16			13.2	12.8	13.7	14.5	14.1	14.1	14.3	14.7	14.5	11.8	16	
18			10.4	10.0	10.8	11.7	11.3	11.3	11.5	11.8	12.3	11.7	18	
20				7.9	8.7	9.5	9.1	9.1	9.3	9.7	10.1	10.1	20	
22				6.2	7.0	7.8	7.5	7.4	7.6	8.0	8.4	8.4	22	
24				4.9	5.7	6.5	6.1	6.1	6.3	6.6	7.0	7.1	24	
26					4.6	5.4	5.0	5.0	5.2	5.5	5.9	6.0	26	
28					3.7	4.5	4.1	4.1	4.3	4.6	5.0	5.0	28	
30						3.7	3.3	3.3	3.5	3.8	4.2	4.3	30	
32							3.0	2.6	2.6	2.8	3.1	3.5	3.6	32
34								2.1	2.1	2.3	2.6	2.9	3.0	34
36								1.6	1.5	1.7	2.1	2.4	2.5	36
38									1.1	1.3	1.6	2.0	2.0	38
40											1.2	1.6	1.6	40
42												1.2	1.3	42

\*\* Capacity class; \* with the additional sheave of boom.

**COUNTERWEIGHT IN THE REAR POSITION**  
**UNITS: METRIC TONS**

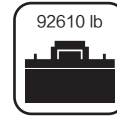
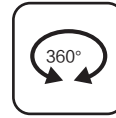
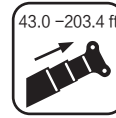


	13.1	17.6	22.1	26.6	31.1	35.6	40.1	44.6	49.1	53.6	58.1	62	
3	136.0**	83.0	83.0										3
3.5	101.0*	83.0	83.0										3.5
4	93.0*	83.0	83.0	67.0									4
4.5	86.0*	83.0	82.0	67.0									4.5
5	81.0	79.0	77.0	67.0	58.0								5
6	66.7	67.4	67.5	66.0	58.0	50.0							6
7	56.1	56.8	57.0	56.6	57.4	50.0	42.0						7
8	48.2	48.9	49.1	48.7	49.4	48.8	42.0	32.7					8
9	39.6	40.6	40.9	40.3	41.4	42.5	42.0	32.7	25.1				9
10	32.2	33.3	33.6	33.0	34.1	35.2	34.7	31.9	25.1	18.7			10
12		23.4	23.7	23.2	24.2	25.2	24.7	24.7	24.9	17.8	14.7	11.8	12
14		17.4	17.7	17.2	18.2	19.1	18.6	18.6	18.9	16.8	14.6	11.8	14
16			13.7	13.2	14.1	15.0	14.6	14.6	14.8	15.2	14.5	11.8	16
18			10.8	10.4	11.2	12.1	11.7	11.6	11.9	12.2	12.7	11.8	18
20				8.2	9.0	9.9	9.5	9.5	9.7	10.0	10.4	10.5	20
22				6.5	7.3	8.1	7.8	7.7	8.0	8.3	8.7	8.8	22
24				5.1	6.0	6.8	6.4	6.4	6.6	6.9	7.3	7.4	24
26					4.8	5.6	5.3	5.2	5.5	5.8	6.2	6.2	26
28					3.9	4.7	4.3	4.3	4.5	4.8	5.2	5.3	28
30						3.9	3.5	3.5	3.7	4.0	4.4	4.5	30
32							3.2	2.8	2.8	3.0	3.3	3.7	32
34								2.2	2.2	2.4	2.8	3.1	34
36								1.7	1.7	1.9	2.2	2.6	36
38									1.3	1.5	1.8	2.1	38
40										1.0	1.4	1.7	40
42												1.4	42
44												1.0	44

\*\* Capacity class; \* with the additional sheave of boom.

# LOAD CHARTS

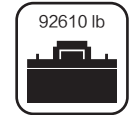
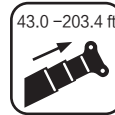
## COUNTERWEIGHT IN THE FRONT POSITION (1,000 lb)





	43.0	57.7	72.5	87.3	102.0	116.8	131.6	146.3	161.1	175.9	190.6	203.4	
9.8	300.0**	183.0	183.0										9.8
11.5	222.7**	183.0	183.0										11.5
13.1	205.0**	183.0	183.0	147.7									13.1
14.8	189.6**	183.0	180.8	147.7									14.8
16.4	178.6	174.2	169.8	147.7	127.9								16.4
19.7	156.6	152.1	149.9	145.5	127.9	110.3							19.7
23.0	136.7	136.7	134.5	130.1	127.9	110.3	92.6						23.0
26.2	121.3	123.5	121.3	116.9	116.9	107.6	92.6	72.1					26.2
29.5	103.6	110.3	110.3	105.8	105.8	102.1	92.6	72.1	55.3				29.5
32.8	83.8	98.8	99.0	97.0	97.0	97.0	88.9	70.3	55.3	41.2			32.8
39.4		79.6	80.0	79.4	80.9	82.5	75.0	60.9	55.3	39.2	32.4	26.0	39.4
45.9		59.5	66.4	65.7	67.3	68.8	65.3	53.1	49.8	37.0	32.2	26.0	45.9
52.5			53.6	52.9	54.7	56.7	55.8	47.2	44.3	34.8	32.0	26.0	52.5
59.1			44.3	43.7	45.4	47.2	46.3	42.1	39.2	32.4	31.3	25.8	59.1
65.6				36.4	38.4	39.9	39.2	37.9	35.5	30.6	28.4	25.8	65.6
72.2				30.9	32.6	34.4	33.5	33.5	32.2	28.2	25.6	23.4	72.2
78.7				22.1	28.2	29.8	29.1	29.1	29.1	25.8	23.2	21.2	78.7
85.3					24.5	26.0	25.4	25.4	25.8	23.6	21.2	19.4	85.3
91.9					21.2	22.9	22.1	22.1	22.5	21.6	19.6	17.9	91.9
98.4						20.3	19.4	19.4	19.8	19.8	18.1	16.5	98.4
105.0						17.6	17.2	17.0	17.4	18.3	16.8	15.0	105.0
111.6							15.0	15.0	15.4	16.1	15.4	14.1	111.6
118.1							13.2	13.2	13.7	14.3	14.3	13.0	118.1
124.7								11.7	12.1	12.8	13.5	12.1	124.7
131.2								10.4	10.8	11.5	12.3	11.2	131.2
137.8									9.5	10.1	11.0	10.4	137.8
144.4									8.4	9.0	9.9	9.5	144.4
150.9										7.9	8.8	8.8	150.9
157.5										7.1	7.9	7.9	157.5
164.1											7.1	7.1	164.1
170.6											6.2	6.4	170.6
177.2											5.5	5.7	177.2
183.7												5.1	183.7
190.3												3.5	190.3

\*\* Capacity class; \* with the additional sheave of boom.

**COUNTERWEIGHT IN THE REAR POSITION  
(1,000 lb)**

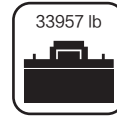
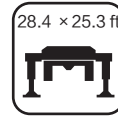
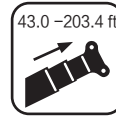


	43.0	57.7	72.5	87.3	102.0	116.8	131.6	146.3	161.1	175.9	190.6	203.4	
9.8	300.0**	183.0	183.0										9.8
11.5	222.7*	183.0	183.0										11.5
13.1	205.0*	183.0	183.0	147.7									13.1
14.8	189.6*	183.0	180.8	147.7									14.8
16.4	178.6	174.2	169.8	147.7	127.9								16.4
19.7	156.6	152.1	149.9	145.5	127.9	110.3							19.7
23.0	136.7	136.7	134.5	130.1	127.9	110.3	92.6						23.0
26.2	121.3	123.5	121.3	116.9	116.9	107.5	92.6	72.1					26.2
29.5	103.6	110.3	110.3	105.8	105.8	102.2	92.6	72.1	55.3				29.5
32.8	83.8	100.5	99.2	97.0	97.0	97.0	88.8	70.4	55.3	41.2			32.8
39.4		81.1	81.6	80.9	82.5	83.8	75.0	61.0	55.3	39.2	32.4	25.9	39.4
45.9		59.5	66.6	65.7	67.7	69.5	65.3	53.0	49.8	37.0	32.2	26.0	45.9
52.5			53.6	52.9	54.7	56.7	55.8	47.3	44.3	34.7	32.0	26.0	52.5
59.1			44.3	43.7	45.4	47.2	46.3	42.1	39.2	32.4	31.2	25.8	59.1
65.6				36.4	38.4	39.9	39.2	37.9	35.5	30.5	28.4	25.8	65.6
72.2				30.9	32.6	34.4	33.5	33.5	32.1	28.2	25.5	23.4	72.2
78.7				22.1	28.2	29.8	29.1	29.1	29.1	25.8	23.2	21.2	78.7
85.3					24.5	26.0	25.4	25.4	25.8	23.6	21.2	19.4	85.3
91.9					22.7	22.9	22.3	22.1	22.5	21.6	19.6	17.9	91.9
98.4						20.3	19.4	19.4	19.8	19.8	18.1	16.5	98.4
105.0						17.6	17.2	17.2	17.6	18.3	16.7	15.0	105.0
111.6							15.2	15.2	15.7	16.3	15.4	14.1	111.6
118.1							13.5	13.5	13.9	14.6	14.3	13.0	118.1
124.7								11.9	12.3	13.0	13.3	12.1	124.7
131.2								10.4	10.8	11.7	12.3	11.2	131.2
137.8									9.7	10.4	11.2	10.3	137.8
144.4									8.6	9.3	9.9	9.5	144.4
150.9										8.2	9.0	8.8	150.9
157.5										7.3	7.9	8.2	157.5
164.1											7.3	7.3	164.1
170.6											6.4	6.4	170.6
177.2											5.7	5.7	177.2
183.7												5.1	183.7
190.3												3.5	190.3

\*\* Capacity class; \* with the additional sheave of boom.

# LOAD CHARTS

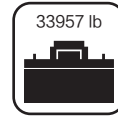
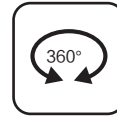
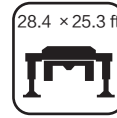
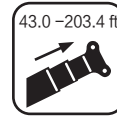
## COUNTERWEIGHT IN THE FRONT POSITION (1,000 lb)





	43.0	57.7	72.5	87.3	102.0	116.8	131.6	146.3	161.1	175.9	190.6	203.4	
9.8	296.1**	183.0	183.0										9.8
11.5	222.7**	183.0	183.0										11.5
13.1	205.0**	183.0	183.0	147.7									13.1
14.8	189.6**	183.0	180.8	147.7									14.8
16.4	176.6	174.2	169.8	147.7	127.9								16.4
19.7	144.6	146.2	146.6	145.5	127.9	110.3							19.7
23.0	121.7	123.3	123.7	122.8	124.6	110.3	92.6						23.0
26.2	104.5	106.1	106.5	105.6	107.2	107.6	92.6	72.1					26.2
29.5	85.1	87.3	88.0	86.9	89.1	91.5	90.4	72.1	55.3				29.5
32.8	69.0	71.4	72.1	70.8	73.2	75.6	74.5	70.3	55.3	41.2			32.8
39.4		50.1	50.7	49.6	51.8	54.0	52.9	52.9	53.6	39.2	32.4	26.0	39.4
45.9		37.3	37.7	36.8	38.8	40.8	39.9	39.9	40.4	37.0	32.2	26.0	45.9
52.5			29.1	28.2	30.2	32.0	31.1	31.1	31.5	32.4	32.0	26.0	52.5
59.1			22.9	22.1	23.8	25.8	24.9	24.9	25.4	26.0	27.1	25.8	59.1
65.6				17.4	19.2	20.9	20.1	20.1	20.5	21.4	22.3	22.3	65.6
72.2				13.7	15.4	17.2	16.5	16.3	16.8	17.6	18.5	18.5	72.2
78.7				10.8	12.6	14.3	13.5	13.5	13.9	14.6	15.4	15.7	78.7
85.3					10.1	11.9	11.0	11.0	11.5	12.1	13.0	13.2	85.3
91.9					8.2	9.9	9.0	9.0	9.5	10.1	11.0	11.0	91.9
98.4						8.2	7.3	7.3	7.7	8.4	9.3	9.5	98.4
105.0						6.6	5.7	5.7	6.2	6.8	7.7	7.9	105.0
111.6							4.6	4.6	5.1	5.7	6.4	6.6	111.6
118.1							3.5	3.3	3.7	4.6	5.3	5.5	118.1
124.7								2.4	2.9	3.5	4.4	4.4	124.7
131.2										2.6	3.5	3.5	131.2
137.8											2.6	2.9	137.8

\*\* Capacity class; \* with the additional sheave of boom.

**COUNTERWEIGHT IN THE REAR POSITION  
(1,000 lb)**

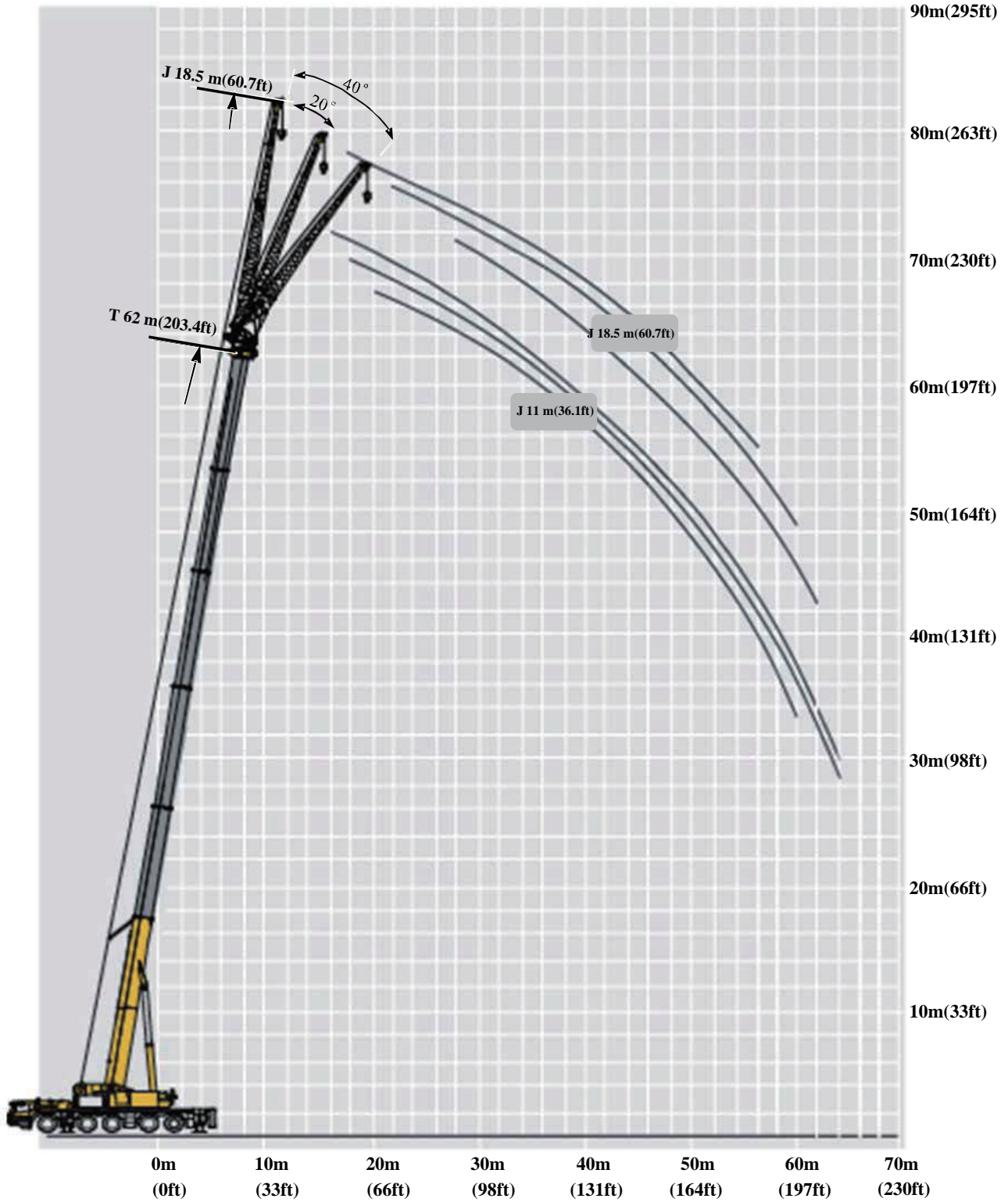


	<b>43.0</b>	<b>57.7</b>	<b>72.5</b>	<b>87.3</b>	<b>102.0</b>	<b>116.8</b>	<b>131.6</b>	<b>146.3</b>	<b>161.1</b>	<b>175.9</b>	<b>190.6</b>	<b>203.4</b>	
9.8	300.0**	183.0	183.0										9.8
11.5	222.7*	183.0	183.0										11.5
13.1	205.0*	183.0	183.0	147.7									13.1
14.8	189.6*	183.0	180.8	147.7									14.8
16.4	178.6	174.2	169.8	147.7	127.9								16.4
19.7	147.1	148.6	148.8	145.5	127.9	110.3							19.7
23.0	123.7	125.2	125.7	124.8	126.6	110.3	92.6						23.0
26.2	106.3	107.8	108.3	107.4	108.9	107.6	92.6	72.1					26.2
29.5	87.3	89.5	90.2	88.9	91.3	93.7	92.6	72.1	55.3				29.5
32.8	71.0	73.4	74.1	72.8	75.2	77.6	76.5	70.3	55.3	41.2			32.8
39.4		51.6	52.3	51.2	53.4	55.6	54.5	54.5	54.9	39.2	32.4	26.0	39.4
45.9		38.4	39.0	37.9	40.1	42.1	41.0	41.0	41.7	37.0	32.2	26.0	45.9
52.5			30.2	29.1	31.1	33.1	32.2	32.2	32.6	33.5	32.0	26.0	52.5
59.1			23.8	22.9	24.7	26.7	25.8	25.6	26.2	26.9	28.0	26.0	59.1
65.6				18.1	19.8	21.8	20.9	20.9	21.4	22.1	22.9	23.2	65.6
72.2				14.3	16.1	17.9	17.2	17.0	17.6	18.3	19.2	19.4	72.2
78.7				11.2	13.2	15.0	14.1	14.1	14.6	15.2	16.1	16.3	78.7
85.3					10.6	12.3	11.7	11.5	12.1	12.8	13.7	13.7	85.3
91.9					8.6	10.4	9.5	9.5	9.9	10.6	11.5	11.7	91.9
98.4						8.6	7.7	7.7	8.2	8.8	9.7	9.9	98.4
105.0						7.1	6.2	6.2	6.6	7.3	8.2	8.4	105.0
111.6							4.9	4.9	5.3	6.2	6.8	7.1	111.6
118.1								3.7	3.7	4.2	4.9	5.7	118.1
124.7									2.9	3.3	4.0	4.6	124.7
131.2										2.2	3.1	3.7	131.2
137.8												3.1	137.8
144.4												2.2	144.4

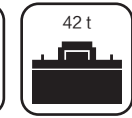
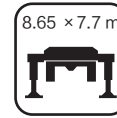
\*\* Capacity class; \* with the additional sheave of boom.

# WORKING RANGE DIAGRAM

## JIB



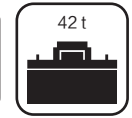
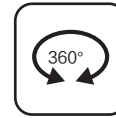
**COUNTERWEIGHT IN THE FRONT POSITION**  
**UNITS: METRIC TONS**



	13.1			40.1			53.6			58.1			62			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
5	16.8															5
6	16.8	11.6														6
7	16.5	10.1														7
8	15.2	9														8
9	14	8.6	5.9	13												9
10	12.7	8.1	5.6	12.5												10
12	11.5	7.1	5.1	12	10		10.4									12
14	9.8	6.6	4.9	11	9.1		10.4			8.4						14
16	9	6.1	4.7	10.5	8.7	5.6	10.3	9.5		8.4			7.4			16
18	6.8	5.6	4.6	10	8.2	5.4	10.1	8.7	5.5	8.4	8.4		7.4	7.6		18
20		4.7	4.5	9.5	7.7	5.2	9.9	8.5	5.3	8.4	8.3	5.1	7.4	7.6	5.1	20
22				9.2	7.4	5	9.6	8	5.1	8.4	7.9	5	7.4	7.6	5	22
24				8.9	7	4.9	9.2	7.5	5	8.3	7.6	4.9	7.4	7.3	4.9	24
26				8.6	6.8	4.8	8.4	7.4	4.9	7.6	7.3	4.8	6.8	6.6	4.8	26
28				8.3	6.4	4.7	7.7	6.9	4.8	6.9	6.6	4.7	6.2	6	4.7	28
30				8.1	6.2	4.5	7	6.8	4.7	6.2	6.1	4.6	5.6	5.6	4.5	30
32				8	6	4.4	6.3	6.2	4.5	5.7	5.5	4.4	5.1	4.9	4.4	32
34				7.2	5.7	4.3	5.8	5.8	4.4	5.2	5.1	4.3	4.7	4.5	4.3	34
36				6.4	5.6	4.2	5.4	5.3	4.3	4.8	4.7	4.2	4.2	4.1	4.1	36
38				5.7	5.3	4.1	4.8	4.9	4.2	4.3	4.3	4.1	3.8	3.7	3.7	38
40				5.1	5.2	4.1	4.4	4.5	4	3.9	3.9	3.9	3.4	3.5	3.5	40
42				4.6	4.7	3.9	4	4	4	3.6	3.6	3.6	3.2	3.2	3.2	42
44					4.2		3.8	3.7	3.7	3.3	3.3	3.4	2.9	2.9	3	44
46							3.4	3.5	3.4	3.1	3.1	3.1	2.6	2.7	2.6	46
48							3.1	3.2	3.1	2.8	2.9	2.8	2.4	2.4	2.4	48
50							2.8	2.9	3	2.4	2.5	2.6	2.1	2.2	2.3	50
52							2.4	2.6	2.6	2.2	2.4	2.3	1.9	2	1.9	52
54							2.1	2.2		2.1	2.2	2.2	1.8	1.8	1.8	54
56							1.8	1.9		2	2	2	1.6	1.5	1.6	56
58										1.8	1.8		1.5	1.3	1.4	58
60										1.5	1.6		1.2	1.2	1.2	60
62													1.1	1.1		62
64													0.9	1		64

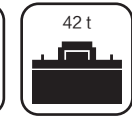
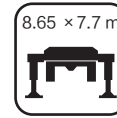
# LOAD CHARTS

## COUNTERWEIGHT IN THE REAR POSITION UNITS: METRIC TONS



	13.1			40.1			53.6			58.1			62			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
5	16.8															5
6	16.8	11.6														6
7	16.5	10.1														7
8	15.2	9														8
9	14	8.6	5.9	13												9
10	12.7	8.1	5.6	12.5												10
12	11.5	7.1	5.1	12	10		10.4									12
14	9.8	6.6	4.9	11	9.1		10.4			8.4						14
16	9	6.1	4.7	10.5	8.7	5.6	10.3	9.5		8.4			7.4			16
18	6.8	5.6	4.6	10	8.2	5.4	10.1	8.7	5.5	8.4	8.4		7.4	7.6		18
20		4.7	4.5	9.5	7.7	5.2	9.9	8.5	5.3	8.4	8.3	5.1	7.4	7.6	5.1	20
22				9.2	7.4	5	9.6	8	5.1	8.4	7.9	5	7.4	7.6	5	22
24				8.9	7	4.9	9.2	7.5	5	8.3	7.6	4.9	7.4	7.3	4.9	24
26				8.6	6.8	4.8	8.4	7.4	4.9	7.6	7.3	4.8	6.8	6.6	4.8	26
28				8.3	6.4	4.7	7.7	6.9	4.8	6.9	6.6	4.7	6.2	6	4.7	28
30				8.1	6.2	4.5	7	6.8	4.7	6.2	6.1	4.6	5.6	5.6	4.5	30
32				8	6	4.4	6.3	6.2	4.5	5.7	5.5	4.4	5.1	4.9	4.4	32
34				7.2	5.7	4.3	5.8	5.8	4.4	5.2	5.1	4.3	4.7	4.5	4.3	34
36				6.4	5.6	4.2	5.4	5.3	4.3	4.8	4.7	4.2	4.2	4.1	4.1	36
38				5.7	5.3	4.1	4.8	4.9	4.2	4.3	4.3	4.1	3.8	3.7	3.7	38
40				5.1	5.2	4.1	4.4	4.5	4	3.9	3.9	3.9	3.4	3.5	3.5	40
42				4.6	4.7	3.9	4	4	4	3.6	3.6	3.6	3.2	3.2	3.2	42
44					4.2		3.8	3.7	3.7	3.3	3.3	3.4	2.9	2.9	3	44
46							3.4	3.5	3.4	3.1	3.1	3.1	2.6	2.7	2.6	46
48							3.2	3.2	3.1	2.8	2.9	2.8	2.4	2.4	2.4	48
50							2.8	2.9	3	2.4	2.5	2.6	2.1	2.2	2.3	50
52							2.4	2.6	2.6	2.2	2.4	2.3	1.9	2	1.9	52
54							2.1	2.3		2.1	2.2	2.2	1.8	1.8	1.8	54
56							1.8	1.9		2	2	2	1.6	1.5	1.6	56
58										1.8	1.8		1.5	1.3	1.4	58
60										1.5	1.6		1.2	1.2	1.2	60
62													1.1	1.1		62
64													0.9	1		64

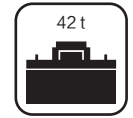
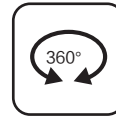
**COUNTERWEIGHT IN THE FRONT POSITION**  
**UNITS: METRIC TONS**



	13.1			40.1			53.6			58.1			62			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
5	7.8															5
6	7.5															6
7	7.4															7
8	7.2															8
9	7.1															9
10	6.9	6														10
12	5.9	5.4		5.6												12
14	5.1	4.7		5.5			4.9									14
16	4.6	4.2	2.5	5.4	4.2		4.8			4.5						16
18	4.1	4.1	2.4	5.3	4.1		4.8			4.4			4			18
20	3.7	3.8	2.3	5.2	3.8		4.7	4.1		4.4			4			20
22	3.4	3.6	2.1	5.1	3.6	2.4	4.7	3.9		4.4	3.9		4	3.7		22
24		3.4	2	5.1	3.4	2.3	4.6	3.7	2.4	4.3	3.8		3.9	3.5		24
26			1.9	5.1	3.2	2.2	4.5	3.6	2.3	4.3	3.6	2.3	3.8	3.4		26
28				5	3.1	2.1	4.5	3.3	2.2	4.3	3.4	2.2	3.7	3.3	2.2	28
30				4.7	3	2	4.4	3.2	2.1	4.2	3.3	2.1	3.6	3.2	2.1	30
32				4.5	2.9	2	4.4	3.1	2.1	4.2	3.2	2.1	3.5	3.1	2.1	32
34				4.2	2.7	1.9	4.3	3	2	4.1	3	2.1	3.4	3	2	34
36				4	2.6	1.9	4.3	2.9	2	4.1	2.9	2	3.3	2.8	2	36
38					2.5	1.9	4.2	2.7	2	4	2.8	2	3.2	2.7	2	38
40					2.3	1.9	4.1	2.6	1.9	4	2.7	2	3.2	2.6	2	40
42					2.2	1.8	4.1	2.5	1.9	3.8	2.5	1.9	3.1	2.5	1.9	42
44					2.1	1.8	3.9	2.4	1.9	3.8	2.4	1.9	3	2.5	1.9	44
46						1.8	3.7	2.4	1.9	3.6	2.4	1.9	2.9	2.4	1.9	46
48							3.5	2.2	1.8	3.3	2.4	1.9	2.8	2.4	1.9	48
50							3.1	2.2	1.9	3	2.3	1.9	2.6	2.4	1.9	50
52								2.1	1.9	2.7	2.2	1.8	2.3	2.2	1.8	52
54								2.1	1.8	2.5	2.2	2	2.2	2.2	1.9	54
56									1.9	2.3	2.1	1.8	2	2	1.9	56
58										2.1	2	1.8		1.9	1.8	58
60										1.8	2			1.7	1.8	60
62										1.6	1.8				1.5	62
64										1.3	1.5					64
66											1.3					66
68											1.1					68

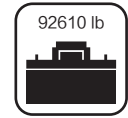
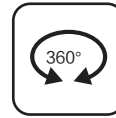
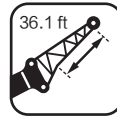
# LOAD CHARTS

**COUNTERWEIGHT IN THE REAR  
POSITION UNITS: METRIC TONS**



	13.1			40.1			53.6			58.1			62			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
5	7.8															5
6	7.5															6
7	7.4															7
8	7.2															8
9	7.1															9
10	6.9	6														10
12	5.9	5.4		5.6												12
14	5.1	4.7		5.5			4.9									14
16	4.6	4.2	2.5	5.4	4.2		4.8			4.5						16
18	4.1	4.1	2.4	5.3	4.1		4.8			4.4			4			18
20	3.7	3.8	2.3	5.2	3.8		4.7	4.1		4.4			4			20
22	3.4	3.6	2.1	5.1	3.6	2.4	4.7	3.9		4.4	3.9		4	3.7		22
24		3.4	2	5.1	3.4	2.3	4.6	3.7	2.4	4.3	3.8		3.9	3.5		24
26			1.9	5.1	3.2	2.2	4.5	3.6	2.3	4.3	3.6	2.3	3.8	3.4		26
28				5	3.1	2.1	4.5	3.3	2.2	4.3	3.4	2.2	3.7	3.3	2.2	28
30				4.7	3	2	4.4	3.2	2.1	4.2	3.3	2.1	3.6	3.2	2.1	30
32				4.5	2.9	2	4.4	3.1	2.1	4.2	3.2	2.1	3.5	3.1	2.1	32
34				4.2	2.7	1.9	4.3	3	2	4.1	3	2.1	3.4	3	2	34
36				4	2.6	1.9	4.3	2.9	2	4.1	2.9	2	3.3	2.8	2	36
38					2.5	1.9	4.2	2.7	2	4	2.8	2	3.2	2.7	2	38
40					2.3	1.9	4.1	2.6	1.9	4	2.7	2	3.2	2.6	2	40
42					2.2	1.8	4.1	2.5	1.9	3.8	2.5	1.9	3.1	2.5	1.9	42
44					2.1	1.8	3.9	2.4	1.9	3.8	2.4	1.9	3	2.5	1.9	44
46						1.8	3.7	2.4	1.9	3.6	2.4	1.9	2.9	2.4	1.9	46
48							3.5	2.2	1.8	3.3	2.4	1.9	2.8	2.4	1.9	48
50							3.2	2.2	1.9	3	2.3	1.9	2.6	2.4	1.9	50
52								2.1	1.9	2.7	2.2	1.8	2.3	2.2	1.8	52
54								2.1	1.8	2.5	2.2	2	2.2	2.2	1.9	54
56									1.9	2.3	2.1	1.8	2	2	1.9	56
58										2.1	2	1.8		1.9	1.8	58
60										1.8	2			1.7	1.8	60
62										1.6	1.8				1.5	62
64										1.4	1.5					64
66											1.3					66
68											1.1					68

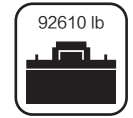
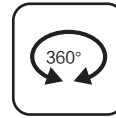
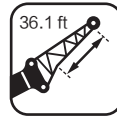
**COUNTERWEIGHT IN THE FRONT POSITION**  
(1,000 lb)



	43			131.6			175.9			190.6			203.4			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
16.4	37.0															16.4
19.7	37.0	25.6														19.7
23.0	36.4	22.3														23.0
26.2	33.5	19.8														26.2
29.5	30.9	19.0	13.0	28.7												29.5
32.8	28.0	17.9	12.3	27.6												32.8
39.4	25.4	15.7	11.2	26.5	22.1		22.9									39.4
45.9	21.6	14.6	10.8	24.3	20.1		22.9			18.5						45.9
52.5	19.8	13.5	10.4	23.2	19.2	12.3	22.7	20.9		18.5			16.3			52.5
59.1	15.0	12.3	10.1	22.1	18.1	11.9	22.3	19.2	12.1	18.5	18.5		16.3	16.8		59.1
65.6		10.4	9.9	20.9	17.0	11.5	21.8	18.7	11.7	18.5	18.3	11.2	16.3	16.8	11.2	65.6
72.2				20.3	16.3	11.0	21.2	17.6	11.2	18.5	17.4	11.0	16.3	16.8	11.0	72.2
78.7				19.6	15.4	10.8	20.3	16.5	11.0	18.3	16.8	10.8	16.3	16.1	10.8	78.7
85.3				19.0	15.0	10.6	18.5	16.3	10.8	16.8	16.1	10.6	15.0	14.6	10.6	85.3
91.9				18.3	14.1	10.4	17.0	15.2	10.6	15.2	14.6	10.4	13.7	13.2	10.4	91.9
98.4				17.9	13.7	9.9	15.4	15.0	10.4	13.7	13.5	10.1	12.3	12.3	9.9	98.4
105.0				17.6	13.2	9.7	13.9	13.7	9.9	12.6	12.1	9.7	11.2	10.8	9.7	105.0
111.6				15.9	12.6	9.5	12.8	12.8	9.7	11.5	11.2	9.5	10.4	9.9	9.5	111.6
118.1				14.1	12.3	9.3	11.9	11.7	9.5	10.6	10.4	9.3	9.3	9.0	9.0	118.1
124.7				12.6	11.7	9.0	10.6	10.8	9.3	9.5	9.5	9.0	8.4	8.2	8.2	124.7
131.2				11.2	11.5	9.0	9.7	9.9	8.8	8.6	8.6	8.6	7.5	7.7	7.7	131.2
137.8				10.1	10.4	8.6	8.8	8.8	8.8	7.9	7.9	7.9	7.1	7.1	7.1	137.8
144.4					9.3		8.4	8.2	8.2	7.3	7.3	7.5	6.4	6.4	6.6	144.4
150.9							7.5	7.7	7.5	6.8	6.8	6.8	5.7	6.0	5.7	150.9
157.5							6.8	7.1	6.8	6.2	6.4	6.2	5.3	5.3	5.3	157.5
164.1							6.2	6.4	6.6	5.3	5.5	5.7	4.6	4.9	5.1	164.1
170.6							5.3	5.7	5.7	4.9	5.3	5.1	4.2	4.4	4.2	170.6
177.2							4.6	4.9		4.6	4.9	4.9	4.0	4.0	4.0	177.2
183.7							4.0	4.2		4.4	4.4	4.4	3.5	3.3	3.5	183.7
190.3										4.0	4.0		3.3	2.9	3.1	190.3
196.9										3.3	3.5		2.6	2.6	2.6	196.9
203.4													2.4	2.4		203.4
210.0													2.0	2.2		210.0

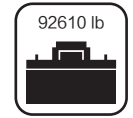
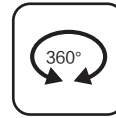
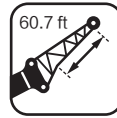
# LOAD CHARTS

## COUNTERWEIGHT IN THE REAR POSITION (1,000 lb)



	43			131.6			175.9			190.6			203.4			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
16.4	37.0															16.4
19.7	37.0	25.6														19.7
23.0	36.4	22.3														23.0
26.2	33.5	19.8														26.2
29.5	30.9	19.0	13.0	28.7												29.5
32.8	28.0	17.9	12.3	27.6												32.8
39.4	25.4	15.7	11.2	26.5	22.1		22.9									39.4
45.9	21.6	14.6	10.8	24.3	20.1		22.9			18.5						45.9
52.5	19.8	13.5	10.4	23.2	19.2	12.3	22.7	20.9		18.5			16.3			52.5
59.1	15.0	12.3	10.1	22.1	18.1	11.9	22.3	19.2	12.1	18.5	18.5		16.3	16.8		59.1
65.6		10.4	9.9	20.9	17.0	11.5	21.8	18.7	11.7	18.5	18.3	11.2	16.3	16.8	11.2	65.6
72.2				20.3	16.3	11.0	21.2	17.6	11.2	18.5	17.4	11.0	16.3	16.8	11.0	72.2
78.7				19.6	15.4	10.8	20.3	16.5	11.0	18.3	16.8	10.8	16.3	16.1	10.8	78.7
85.3				19.0	15.0	10.6	18.5	16.3	10.8	16.8	16.1	10.6	15.0	14.6	10.6	85.3
91.9				18.3	14.1	10.4	17.0	15.2	10.6	15.2	14.6	10.4	13.7	13.2	10.4	91.9
98.4				17.9	13.7	9.9	15.4	15.0	10.4	13.7	13.5	10.1	12.3	12.3	9.9	98.4
105.0				17.6	13.2	9.7	13.9	13.7	9.9	12.6	12.1	9.7	11.2	10.8	9.7	105.0
111.6				15.9	12.6	9.5	12.8	12.8	9.7	11.5	11.2	9.5	10.4	9.9	9.5	111.6
118.1				14.1	12.3	9.3	11.9	11.7	9.5	10.6	10.4	9.3	9.3	9.0	9.0	118.1
124.7				12.6	11.7	9.0	10.6	10.8	9.3	9.5	9.5	9.0	8.4	8.2	8.2	124.7
131.2				11.2	11.5	9.0	9.7	9.9	8.8	8.6	8.6	8.6	7.5	7.7	7.7	131.2
137.8				10.1	10.4	8.6	8.8	8.8	8.8	7.9	7.9	7.9	7.1	7.1	7.1	137.8
144.4					9.3		8.4	8.2	8.2	7.3	7.3	7.5	6.4	6.4	6.6	144.4
150.9							7.5	7.7	7.5	6.8	6.8	6.8	5.7	6.0	5.7	150.9
157.5							7.1	7.1	6.8	6.2	6.4	6.2	5.3	5.3	5.3	157.5
164.1							6.2	6.4	6.6	5.3	5.5	5.7	4.6	4.9	5.1	164.1
170.6							5.3	5.7	5.7	4.9	5.3	5.1	4.2	4.4	4.2	170.6
177.2							4.6	5.1		4.6	4.9	4.9	4.0	4.0	4.0	177.2
183.7							4.0	4.2		4.4	4.4	4.4	3.5	3.3	3.5	183.7
190.3										4.0	4.0		3.3	2.9	3.1	190.3
196.9										3.3	3.5		2.6	2.6	2.6	196.9
203.4													2.4	2.4		203.4
210.0													2.0	2.2		210.0

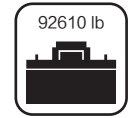
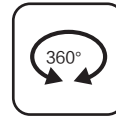
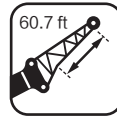
**COUNTERWEIGHT IN THE FRONT POSITION**  
(1,000 lb)



	43			131.6			175.9			190.6			203.4			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
16.4	17.2															16.4
19.7	16.5															19.7
23.0	16.3															23.0
26.2	15.9															26.2
29.5	15.7															29.5
32.8	15.2	13.2														32.8
39.4	13.0	11.9		12.3												39.4
45.9	11.2	10.4		12.1			10.8									45.9
52.5	10.1	9.3	5.5	11.9	9.3		10.6			9.9						52.5
59.1	9.0	9.0	5.3	11.7	9.0		10.6			9.7			8.8			59.1
65.6	8.2	8.4	5.1	11.5	8.4		10.4	9.0		9.7			8.8			65.6
72.2	7.5	7.9	4.6	11.2	7.9	5.3	10.4	8.6		9.7	8.6		8.8	8.2		72.2
78.7		7.5	4.4	11.2	7.5	5.1	10.1	8.2	5.3	9.5	8.4		8.6	7.7		78.7
85.3			4.2	11.2	7.1	4.9	9.9	7.9	5.1	9.5	7.9	5.1	8.4	7.5		85.3
91.9				11.0	6.8	4.6	9.9	7.3	4.9	9.5	7.5	4.9	8.2	7.3	4.9	91.9
98.4				10.4	6.6	4.4	9.7	7.1	4.6	9.3	7.3	4.6	7.9	7.1	4.6	98.4
105.0				9.9	6.4	4.4	9.7	6.8	4.6	9.3	7.1	4.6	7.7	6.8	4.6	105.0
111.6				9.3	6.0	4.2	9.5	6.6	4.4	9.0	6.6	4.6	7.5	6.6	4.4	111.6
118.1				8.8	5.7	4.2	9.5	6.4	4.4	9.0	6.4	4.4	7.3	6.2	4.4	118.1
124.7					5.5	4.2	9.3	6.0	4.4	8.8	6.2	4.4	7.1	6.0	4.4	124.7
131.2					5.1	4.2	9.0	5.7	4.2	8.8	6.0	4.4	7.1	5.7	4.4	131.2
137.8					4.9	4.0	9.0	5.5	4.2	8.4	5.5	4.2	6.8	5.5	4.2	137.8
144.4					4.6	4.0	8.6	5.3	4.2	8.4	5.3	4.2	6.6	5.5	4.2	144.4
150.9						4.0	8.2	5.3	4.2	7.9	5.3	4.2	6.4	5.3	4.2	150.9
157.5							7.7	4.9	4.0	7.3	5.3	4.2	6.2	5.3	4.2	157.5
164.1							6.8	4.9	4.2	6.6	5.1	4.2	5.7	5.3	4.2	164.1
170.6								4.6	4.2	6.0	4.9	4.0	5.1	4.9	4.0	170.6
177.2								4.6	4.0	5.5	4.9	4.4	4.9	4.9	4.2	177.2
183.7									4.2	5.1	4.6	4.0	4.4	4.4	4.2	183.7
190.3										4.6	4.4	4.0		4.2	4.0	190.3
196.9										4.0	4.4			3.7	4.0	196.9
203.4										3.5	4.0				3.3	203.4
210.0										2.9	3.3					210.0
216.5											2.9					216.5
223.1											2.4					223.1

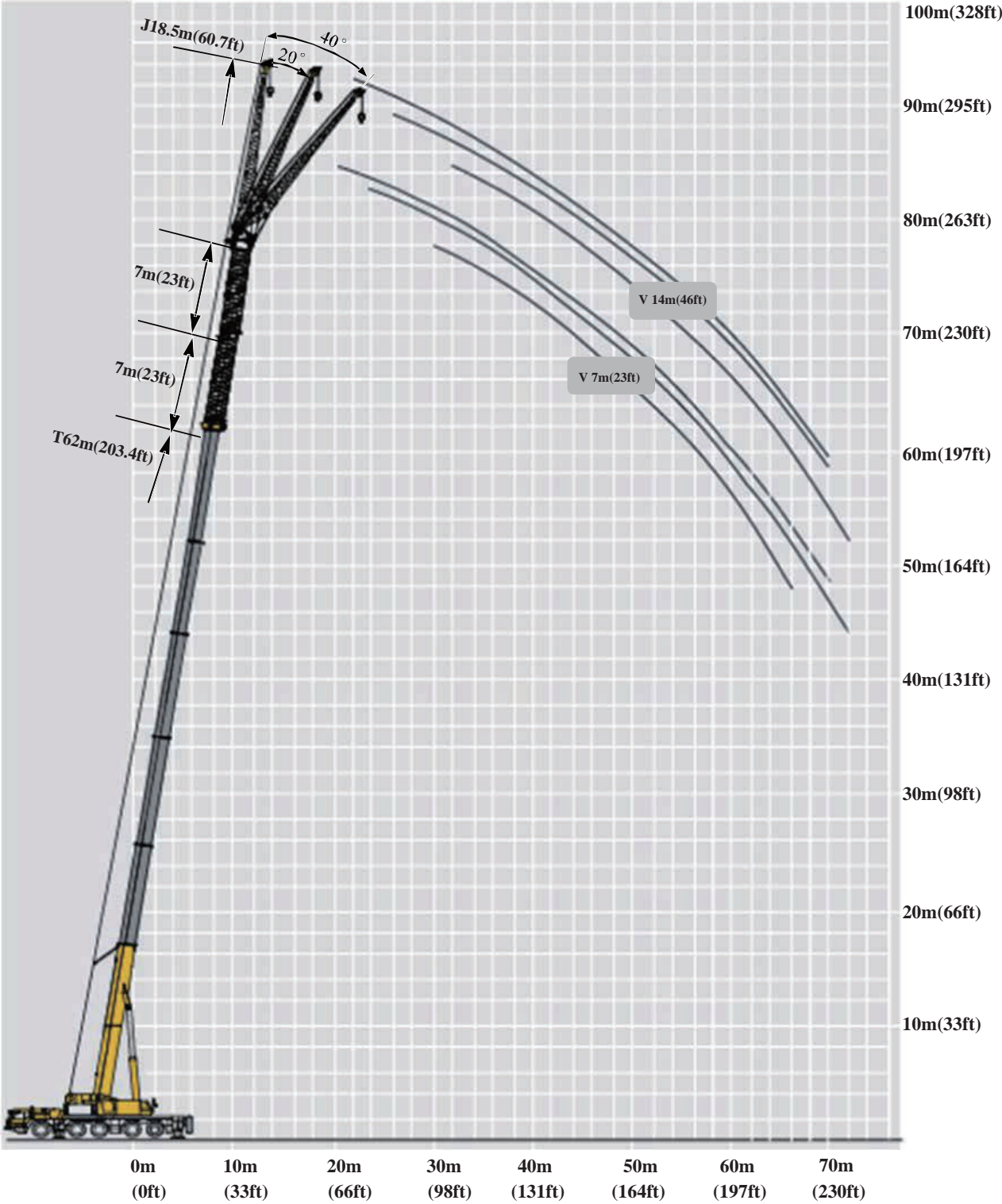
# LOAD CHARTS

## COUNTERWEIGHT IN THE REAR POSITION (1,000 lb)



	43			131.6			175.9			190.6			203.4			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
16.4	17.2															16.4
19.7	16.5															19.7
23.0	16.3															23.0
26.2	15.9															26.2
29.5	15.7															29.5
32.8	15.2	13.2														32.8
39.4	13.0	11.9		12.3												39.4
45.9	11.2	10.4		12.1			10.8									45.9
52.5	10.1	9.3	5.5	11.9	9.3		10.6			9.9						52.5
59.1	9.0	9.0	5.3	11.7	9.0		10.6			9.7			8.8			59.1
65.6	8.2	8.4	5.1	11.5	8.4		10.4	9.0		9.7			8.8			65.6
72.2	7.5	7.9	4.6	11.2	7.9	5.3	10.4	8.6		9.7	8.6		8.8	8.2		72.2
78.7		7.5	4.4	11.2	7.5	5.1	10.1	8.2	5.3	9.5	8.4		8.6	7.7		78.7
85.3			4.2	11.2	7.1	4.9	9.9	7.9	5.1	9.5	7.9	5.1	8.4	7.5		85.3
91.9				11.0	6.8	4.6	9.9	7.3	4.9	9.5	7.5	4.9	8.2	7.3	4.9	91.9
98.4				10.4	6.6	4.4	9.7	7.1	4.6	9.3	7.3	4.6	7.9	7.1	4.6	98.4
105.0				9.9	6.4	4.4	9.7	6.8	4.6	9.3	7.1	4.6	7.7	6.8	4.6	105.0
111.6				9.3	6.0	4.2	9.5	6.6	4.4	9.0	6.6	4.6	7.5	6.6	4.4	111.6
118.1				8.8	5.7	4.2	9.5	6.4	4.4	9.0	6.4	4.4	7.3	6.2	4.4	118.1
124.7					5.5	4.2	9.3	6.0	4.4	8.8	6.2	4.4	7.1	6.0	4.4	124.7
131.2					5.1	4.2	9.0	5.7	4.2	8.8	6.0	4.4	7.1	5.7	4.4	131.2
137.8					4.9	4.0	9.0	5.5	4.2	8.4	5.5	4.2	6.8	5.5	4.2	137.8
144.4					4.6	4.0	8.6	5.3	4.2	8.4	5.3	4.2	6.6	5.5	4.2	144.4
150.9						4.0	8.2	5.3	4.2	7.9	5.3	4.2	6.4	5.3	4.2	150.9
157.5							7.7	4.9	4.0	7.3	5.3	4.2	6.2	5.3	4.2	157.5
164.1							7.1	4.9	4.2	6.6	5.1	4.2	5.7	5.3	4.2	164.1
170.6								4.6	4.2	6.0	4.9	4.0	5.1	4.9	4.0	170.6
177.2								4.6	4.0	5.5	4.9	4.4	4.9	4.9	4.2	177.2
183.7									4.2	5.1	4.6	4.0	4.4	4.4	4.2	183.7
190.3										4.6	4.4	4.0		4.2	4.0	190.3
196.9										4.0	4.4			3.7	4.0	196.9
203.4										3.5	4.0				3.3	203.4
210.0										3.1	3.3					210.0
216.5											2.9					216.5
223.1											2.4					223.1

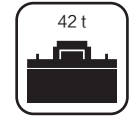
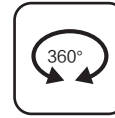
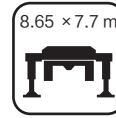
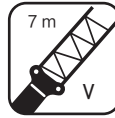
# BOOM EXTENSION



# LOAD CHARTS

**COUNTERWEIGHT IN THE FRONT POSITION**

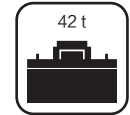
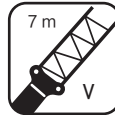
**UNITS: METRIC TONS**



	58.1+7			62+7			
	18.5						
	0°	20°	40°	0°	20°	40°	
18	4						18
20	4			3.5			20
22	4			3.4			22
24	3.9	4.1		3.4	3.2		24
26	3.9	3.9		3.4	3.2		26
28	3.9	3.6	2.5	3.3	3.2		28
30	3.8	3.4	2.4	3.3	3.2	2.6	30
32	3.8	3.3	2.3	3.3	3.2	2.5	32
34	3.7	3.1	2.2	3.2	3.2	2.4	34
36	3.7	3	2.1	3.2	3.1	2.2	36
38	3.6	2.9	2.1	3.1	3	2.1	38
40	3.6	2.8	2.1	3.1	3	2	40
42	3.5	2.7	2	3	2.9	2	42
44	3.5	2.6	2	2.8	2.6	2	44
46	3	2.5	2	2.5	2.6	2	46
48	3	2.5	2	2.5	2.6	2	48
50	2.5	2.4	1.9	2	2.1	2	50
52	2.3	2.4	1.9	2	2.1	1.9	52
54	1.6	2.2	1.9	1.8	1.9	1.9	54
56	1.5	2.1	1.9	1.6	1.8	1.9	56
58	1.5	1.8	1.9	1.6	1.6	1.4	58
60	1.2	1.6	1.2	1.5	0.8	1.4	60
62	1.5	1.4	1.2	1.1	0.8	1.3	62
64	1	1.4	1.2	0.5	0.5	0.8	64
66		1.2	1.2	0.5	0.5	0.5	66
68			0.8		0.5		68

**COUNTERWEIGHT IN THE REAR POSITION**

**UNITS: METRIC TONS**

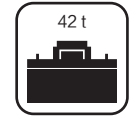
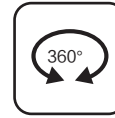
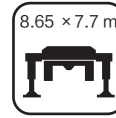
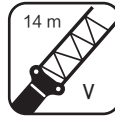


	58.1+7			62+7			
	18.5						
	0°	20°	40°	0°	20°	40°	
18	4						18
20	4			3.5			20
22	4			3.4			22
24	3.9			3.4	3.2		24
26	3.9	3.9		3.4	3.2		26
28	3.9	3.6	2.5	3.3	3.2		28
30	3.8	3.4	2.4	3.3	3.2	2.6	30
32	3.8	3.3	2.3	3.3	3.2	2.5	32
34	3.7	3.1	2.2	3.2	3.2	2.4	34
36	3.7	3	2.1	3.2	3.1	2.2	36
38	3.6	2.9	2.1	3.1	3	2.1	38
40	3.6	2.8	2.1	3.1	3	2	40
42	3.5	2.7	2	3	2.9	2	42
44	3.5	2.6	2	2.8	2.6	2	44
46	3	2.5	2	2.5	2.6	2	46
48	3	2.5	2	2.5	2.6	2	48
50	2.5	2.4	1.9	2	2.1	2	50
52	2.3	2.4	1.9	2	2.1	1.9	52
54	1.6	2.2	1.9	1.8	1.9	1.9	54
56	1.5	2.1	1.9	1.6	1.8	1.9	56
58	1.5	1.8	1.9	1.6	1.6	1.4	58
60	1.2	1.6	1.2	1.5	0.8	1.4	60
62	1.5	1.4	1.2	1.1	0.8	1.3	62
64	1	1.4	1.2	0.5	0.5	0.8	64
66		1.2	1.2	0.5	0.5	0.5	66
68			0.8	0.5	0.5		68
70					0.5		70

# LOAD CHARTS

**COUNTERWEIGHT IN THE FRONT POSITION**

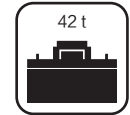
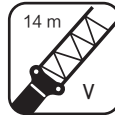
**UNITS: METRIC TONS**



	58.1+14			62+14			
	18.5						
	0°	20°	40°	0°	20°	40°	
20	3.5						20
22	3.5			3			22
24	3.5			3			24
26	3.4	3.4		3	2.9		26
28	3.4	3.3		3	2.8		28
30	3.4	3.3	2.4	3	2.8		30
32	3.3	3.3	2.3	2.9	2.8	2.6	32
34	3.3	3.3	2.2	2.9	2.7	2.5	34
36	3.2	3.2	2.2	2.9	2.7	2.4	36
38	3.2	3	2.1	2.9	2.7	2.2	38
40	3.1	2.9	2.1	2.9	2.7	2.1	40
42	3	2.9	2.1	2.6	2.7	2.1	42
44	2.6	2.8	2	2.3	2.6	2	44
46	2.5	2.6	2	2.3	2.1	2	46
48	2.4	2.3	2	1.8	2.1	2	48
50	2.1	2.1	2	1.8	1.9	2	50
52	1.9	2.1	2	1.8	1.7	1.8	52
54	1.7	1.6	2	1	1.4	1.5	54
56	1.6	1.6	1.8	1.8	1.8	1.5	56
58	1.5	1.6	1.5	1.6	1.2	1.5	58
60	1.5	1.4	1.5	1.5	1.2	1.5	60
62	1.2	1.5	1.5	1.2	1.2	0.8	62
64	1.2	1.2	1.2	1.1	0.8	0.8	64
66	1	1.2	1.2		0.8	0.8	66
68		0.8	0.8		0.8	0.5	68
70			0.8				70

**COUNTERWEIGHT IN THE REAR POSITION**

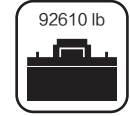
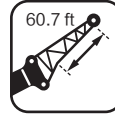
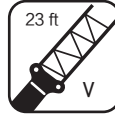
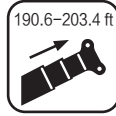
**UNITS: METRIC TONS**



	58.1+14			62+14			
	18.5						
	0°	20°	40°	0°	20°	40°	
20	3.5						20
22	3.5			3			22
24	3.5			3			24
26	3.4	3.4		3	2.9		26
28	3.4	3.3		3	2.8		28
30	3.4	3.3	2.4	3	2.8		30
32	3.3	3.3	2.3	2.9	2.8	2.6	32
34	3.3	3.3	2.2	2.9	2.7	2.5	34
36	3.2	3.2	2.2	2.9	2.7	2.4	36
38	3.2	3	2.1	2.9	2.7	2.2	38
40	3.1	2.9	2.1	2.9	2.7	2.1	40
42	3	2.9	2.1	2.6	2.7	2.1	42
44	2.6	2.8	2	2.3	2.6	2	44
46	2.5	2.6	2	2.3	2.1	2	46
48	2.4	2.3	2	1.8	2.1	2	48
50	2.1	2.1	2	1.8	1.9	2	50
52	1.9	2.1	2	1.8	1.7	1.8	52
54	1.7	1.6	2	1	1.4	1.5	54
56	1.6	1.6	1.8	1.8	1.8	1.5	56
58	1.5	1.6	1.5	1.6	1.2	1.5	58
60	1.5	1.4	1.5	1.5	1.2	1.5	60
62	1.2	1.5	1.5	1.2	1.2	0.8	62
64	1.2	1.2	1.2	1.1	0.8	0.8	64
66	1	1.2	1.2	0.9	0.8	0.8	66
68	0.8	0.8	0.8	0.7	0.8	0.5	68
70			0.8		0.5	0.5	70

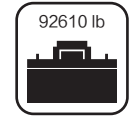
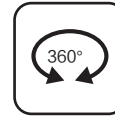
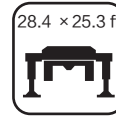
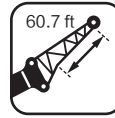
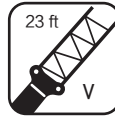
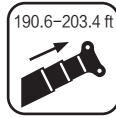
# LOAD CHARTS

## COUNTERWEIGHT IN THE FRONT POSITION (1,000 lb)



	190.6+23			203.4+23			
	60.7						
	0°	20°	40°	0°	20°	40°	
59.0	8.8						59.0
65.6	8.8			7.7			65.6
72.2	8.8			7.5			72.2
78.7	8.6	9.0		7.5	7.1		78.7
85.3	8.6	8.6		7.5	7.1		85.3
91.8	8.6	7.9	5.5	7.3	7.1		91.8
98.4	8.4	7.5	5.3	7.3	7.1	5.7	98.4
105.0	8.4	7.3	5.1	7.3	7.1	5.5	105.0
111.5	8.2	6.8	4.9	7.1	7.1	5.3	111.5
118.1	8.2	6.6	4.6	7.1	6.8	4.9	118.1
124.6	7.9	6.4	4.6	6.8	6.6	4.6	124.6
131.2	7.9	6.2	4.6	6.8	6.6	4.4	131.2
137.8	7.7	6.0	4.4	6.6	6.4	4.4	137.8
144.3	7.7	5.7	4.4	6.2	5.7	4.4	144.3
150.9	6.6	5.5	4.4	5.5	5.7	4.4	150.9
157.4	6.6	5.5	4.4	5.5	5.7	4.4	157.4
164.0	5.5	5.3	4.2	4.4	4.6	4.4	164.0
170.6	5.1	5.3	4.2	4.4	4.6	4.2	170.6
177.1	3.5	4.9	4.2	4.0	4.2	4.2	177.1
183.7	3.3	4.6	4.2	3.5	4.0	4.2	183.7
190.2	3.3	4.0	4.2	3.5	3.5	3.1	190.2
196.8	2.6	3.5	2.6	3.3	1.8	3.1	196.8
203.4	3.3	3.1	2.6	2.4	1.8	2.9	203.4
209.9	2.2	3.1	2.6	1.1	1.1	1.8	209.9
216.5		2.6	2.6	1.1	1.1	1.1	216.5
223.0			1.8		1.1		223.0

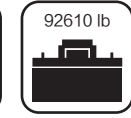
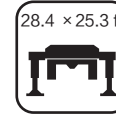
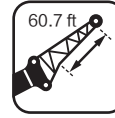
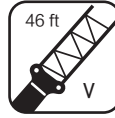
**COUNTERWEIGHT IN THE REAR POSITION**  
**(1,000 lb)**



	190.6+23			203.4+23			
	60.7						
	0°	20°	40°	0°	20°	40°	
59.0	8.8						59.0
65.6	8.8			7.7			65.6
72.2	8.8			7.5			72.2
78.7	8.6	9.0		7.5	7.1		78.7
85.3	8.6	8.6		7.5	7.1		85.3
91.8	8.6	7.9	5.5	7.3	7.1		91.8
98.4	8.4	7.5	5.3	7.3	7.1	5.7	98.4
105.0	8.4	7.3	5.1	7.3	7.1	5.5	105.0
111.5	8.2	6.8	4.9	7.1	7.1	5.3	111.5
118.1	8.2	6.6	4.6	7.1	6.8	4.9	118.1
124.6	7.9	6.4	4.6	6.8	6.6	4.6	124.6
131.2	7.9	6.2	4.6	6.8	6.6	4.4	131.2
137.8	7.7	6.0	4.4	6.6	6.4	4.4	137.8
144.3	7.7	5.7	4.4	6.2	5.7	4.4	144.3
150.9	6.6	5.5	4.4	5.5	5.7	4.4	150.9
157.4	6.6	5.5	4.4	5.5	5.7	4.4	157.4
164.0	5.5	5.3	4.2	4.4	4.6	4.4	164.0
170.6	5.1	5.3	4.2	4.4	4.6	4.2	170.6
177.1	3.5	4.9	4.2	4.0	4.2	4.2	177.1
183.7	3.3	4.6	4.2	3.5	4.0	4.2	183.7
190.2	3.3	4.0	4.2	3.5	3.5	3.1	190.2
196.8	2.6	3.5	2.6	3.3	1.8	3.1	196.8
203.4	3.3	3.1	2.6	2.4	1.8	2.9	203.4
209.9	2.2	3.1	2.6	1.1	1.1	1.8	209.9
216.5		2.6	2.6	1.1	1.1	1.1	216.5
223.0			1.8	1.1	1.1		223.0
229.7					1.1		229.7

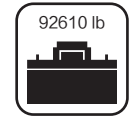
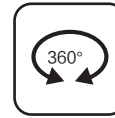
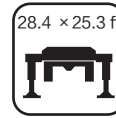
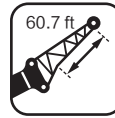
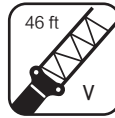
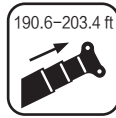
# LOAD CHARTS

## COUNTERWEIGHT IN THE FRONT POSITION (1,000 lb)



	190.6+46			203.4+46			
	60.7						
	0°	20°	40°	0°	20°	40°	
65.6	7.7						65.6
72.2	7.7			6.6			72.2
78.7	7.7			6.6			78.7
85.3	7.5	7.5		6.6	6.4		85.3
91.9	7.5	7.3		6.6	6.2		91.9
98.4	7.5	7.3	5.3	6.6	6.2		98.4
105.0	7.3	7.3	5.1	6.4	6.2	5.7	105.0
111.6	7.3	7.3	4.9	6.4	6.0	5.5	111.6
118.1	7.1	7.1	4.9	6.4	6.0	5.3	118.1
124.7	7.1	6.6	4.6	6.4	6.0	4.9	124.7
131.2	6.8	6.4	4.6	6.4	6.0	4.6	131.2
137.8	6.6	6.4	4.6	5.7	6.0	4.6	137.8
144.4	5.7	6.2	4.4	5.1	5.7	4.4	144.4
150.9	5.5	5.7	4.4	5.1	4.6	4.4	150.9
157.5	5.3	5.1	4.4	4.0	4.6	4.4	157.5
164.1	4.6	4.6	4.4	4.0	4.2	4.4	164.1
170.6	4.2	4.6	4.4	4.0	3.7	4.0	170.6
177.2	3.7	3.5	4.4	2.2	3.1	3.3	177.2
183.7	3.5	3.5	4.0	4.0	4.0	3.3	183.7
190.3	3.3	3.5	3.3	3.5	2.6	3.3	190.3
196.9	3.3	3.1	3.3	3.3	2.6	3.3	196.9
203.4	2.6	3.3	3.3	2.6	2.6	1.8	203.4
210.0	2.6	2.6	2.6	2.4	1.8	1.8	210.0
216.5	2.2	2.6	2.6		1.8	1.8	216.5
223.1		1.8	1.8		1.8	1.1	223.1
229.7			1.8				229.7

**COUNTERWEIGHT IN THE REAR POSITION**  
**(1,000 lb)**



	190.6+46			203.4+46			
	60.7						
	0°	20°	40°	0°	20°	40°	
65.6	7.7						65.6
72.2	7.7			6.6			72.2
78.7	7.7			6.6			78.7
85.3	7.5	7.5		6.6	6.4		85.3
91.9	7.5	7.3		6.6	6.2		91.9
98.4	7.5	7.3	5.3	6.6	6.2		98.4
105.0	7.3	7.3	5.1	6.4	6.2	5.7	105.0
111.6	7.3	7.3	4.9	6.4	6.0	5.5	111.6
118.1	7.1	7.1	4.9	6.4	6.0	5.3	118.1
124.7	7.1	6.6	4.6	6.4	6.0	4.9	124.7
131.2	6.8	6.4	4.6	6.4	6.0	4.6	131.2
137.8	6.6	6.4	4.6	5.7	6.0	4.6	137.8
144.4	5.7	6.2	4.4	5.1	5.7	4.4	144.4
150.9	5.5	5.7	4.4	5.1	4.6	4.4	150.9
157.5	5.3	5.1	4.4	4.0	4.6	4.4	157.5
164.1	4.6	4.6	4.4	4.0	4.2	4.4	164.1
170.6	4.2	4.6	4.4	4.0	3.7	4.0	170.6
177.2	3.7	3.5	4.4	2.2	3.1	3.3	177.2
183.7	3.5	3.5	4.0	4.0	4.0	3.3	183.7
190.3	3.3	3.5	3.3	3.5	2.6	3.3	190.3
196.9	3.3	3.1	3.3	3.3	2.6	3.3	196.9
203.4	2.6	3.3	3.3	2.6	2.6	1.8	203.4
210.0	2.6	2.6	2.6	2.4	1.8	1.8	210.0
216.5	2.2	2.6	2.6	2.0	1.8	1.8	216.5
223.1	1.8	1.8	1.8	1.5	1.8	1.1	223.1
229.7			1.8		1.1	1.1	229.7













# TABLE OF MAIN TECHNICAL PARAMETERS








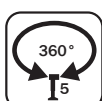



CATEGORY	ITEM		UNIT	PARAMETER
Dimensions	Dimensions (length ×width ×height)		mm (ft)	15601×3000×3991 (51.2×9.8×13.1)
	Axle spacing		mm (ft)	2500 (8.2)+1650 (5.4)+2400 (7.9)+1650 (5.4)
	Track (front/ rear)		mm (ft)	2316 (7.6)
	Front/rear overhang		mm (ft)	2621 (8.6)/2713 (8.9)
	Front/rear extension		mm (ft)	1828 (6)/0 (0)
Weights	Maximum permissible total weight		lb	60000 (132,275)
	Axle load	Axle 1	kg (lb)	12000 (26,455)
		Axle 2	kg (lb)	12000 (26,455)
		Axle 3	kg (lb)	12000 (26,455)
		Axle 4	kg (lb)	12000 (26,455)
		Axle 5	kg (lb)	12000 (26,455)
Power	Engine model		—	OM471LA (EU Stage V /EPA Tier 4F)
	Maximum net power/rpm		kW (bhp) /rpm	360 (482.8 )/1600
	Maximum output torque/rpm		N.m (lb-ft)/rpm	2400 (1769.9 )/1300
Travel	Maximum travel speed		km/h (mph)	80 (49.7)
	Minimum stable travel speed		km/h (mph)	3 (1.86)
	Minimum turning diameter		m (ft)	≤20.2 (66.3) (Tight-turning radius steering) ≤24.6 (80.7) (Road steering)
	Minimum turning diameter at boom tip		m (ft)	≤24.4 (80.0) (Tight-turning radius steering) ≤28.4 (93.2) (Road steering)
	Minimum ground clearance		mm (ft)	334 (1.09)
	Approach angle		°	20.8
	Departure angle		°	12
	Braking distance (initial speed at 50 mph)		m (ft)	≤30 (98.4)
	Maximum grade ability		%	60
	Fuel consumption per 100 km		L (US gal)	65 (17.2)
Noise	Exterior noise level when accelerating		dB(A)	80
	Noise level at seated position		dB(A)	90

CATEGORY	ITEM		UNIT	PARAMETER	
Main performance	Maximum rated lifting capacity		t (USt)	136 (150)	
	Minimum rated working radius		m(ft)	3 (9.8)	
	Slewing radius at turntable tail	At counterweight	mm (ft)	4954 (16.3)/ 4454 (14.9)	
		At auxiliary winch	mm (ft)	5004 (16.4)	
	Maximum load moment	Base boom section	kN.m (lb-ft)	4312 (3,183,000)	
		Fully-extended boom	kN.m (lb-ft)	2293 (1,692,000)	
		Fully-extended boom + Jib	kN.m (lb-ft)	1740 (1,284)	
	Outrigger span	Longitudinal	m (ft)	8.65 (28.4)	
		Lateral	m (ft)	3.7 (12.1)/5 (16.4)/6.3	
	Maximum outrigger load		kN(lb)	(20.7)/7.7 (25.3) 888 (199779.5)	
	Lifting height	Base boom section	m (ft)	12.1 (39.7)	
		Fully-extended boom	m (ft)	61.5 (201.7)	
		Fully-extended boom + Jib	m (ft)	77.6(254.6)	
		Fully-extended boom + extensions + Jib	m (ft)	92.5 (303.50)	
Boom length	Base boom section	m (ft)	13.05 (43)		
	Fully-extended boom	m (ft)	62 (203.4)		
	Fully-extended boom + Jib	m (ft)	80.5 (264.1)		
	Fully-extended boom + extensions + Jib	m (ft)	94.5 (310.1)		
Jib offset angle		°	0/20/40		
Working speeds	Time for raising boom		s	≤65	
	Time for fully extending boom		s	≤580	
	Maximum slewing speed		rpm	≥1.5	
	Time for extending and retracting outriggers	Outrigger beams	Retracting	s	≤20
			Extending	s	≤25
		Outrigger jacks	Retracting	s	≤30
			Extending	s	≤60
	Lifting speed (single line, 4th layer, no load)	Main winch	m/min (fpm)	≥130 (426)	
Auxiliary winch		m/min (fpm)	≥130 (426)		
Noise	Exterior noise level		dB(A)	≤109	
	Noise level at seated position		dB(A)	≤80	

# DESCRIPTION OF SYMBOLS

	Superstructure		Boom
	Rated Lifting Load		Boom Length
	Counterweight		Working Radius
	Slewing Radius of Variable-Position Counterweight		Lifting Height with Boom
	Hook Block		Boom Angle
	Parts of Line		Extension
	Boom Length Combination		Independent Jib Head
	Wind Speed		Simple Jib Head
	Configuration		Fixed Jib
	Optional Equipment		Fixed Jib Length
	Wire Rope Length		Fixed Jib Offset Angle
	Wire Rope Diameter		Luffing Jib

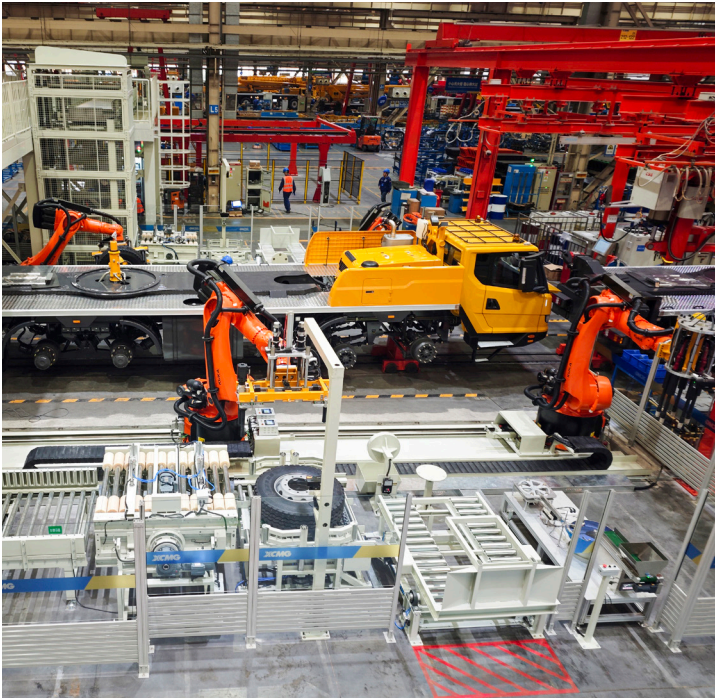
	Maximum Single Line Pull
	Maximum Working Speed
	Main Winch
	Auxiliary Winch
	Chassis
	Outrigger Span
	Tires
	Axle Load
	Gradeability
	Travel Speed
	Luffing
	EN 13000 Standard

	Maximum Lifting Height
	Maximum Working Radius
	Super Lift
	Wind Power Jib
	Telescoping
	Slewing
	360° Slewing
	360° Slewing with the 5th Jack Down
	Side and Rear Operation
	Operation Over Front
	Operation Over Rear

# CONSISTENT, SAFE, AND RELIABLE MACHINES

## ENGINEERED AND BUILT FOR QUALITY

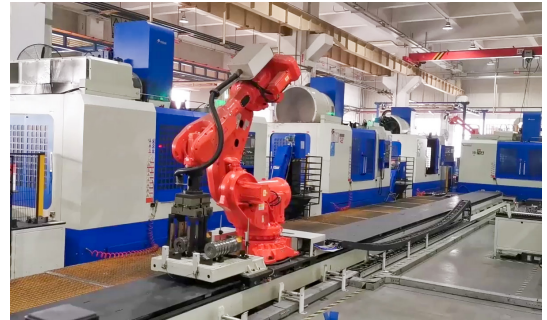
- Every XCMG crane starts as a digital model and stays digitally controlled through every step of production. From robotic welding to automated painting, the manufacturing process is built to deliver consistent quality at every stage.



**ROBOTIC ASSEMBLY**



**AUTOMATED PAINT SYSTEM**



**ROBOTIC WELDING**



**AUTOMATED PRODUCTION LINE**



**ROBOTIC WELDING**

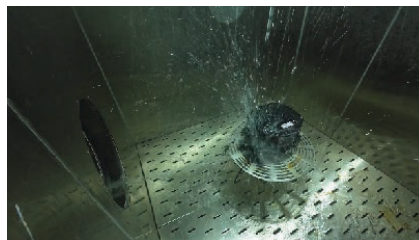
**TESTED ON EVERY LEVEL**

- Every new technology and component must meet the most stringent design and quality protocols.
- Every complete machine undergoes rigorous run-in and testing, and components are subject to ongoing lifecycle testing.

**OVER 2,000 COMPONENTS FROM 123 MANUFACTURERS UNDERGOING LIFECYCLE TESTING**



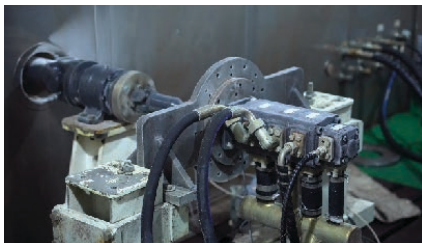
HMI DISPLAY: LOW-TEMPERATURE PERFORMANCE TEST UNDER -40°C



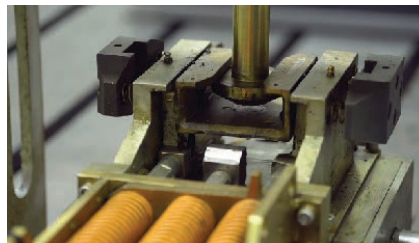
LENGTH MEASUREMENT SENSOR: 48-HOUR RAIN TEST



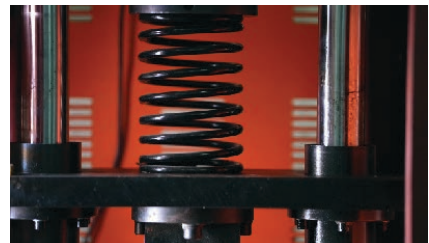
PANEL BUTTONS: CYCLED 12 MILLION TIMES



HYDRAULIC PUMP: LOW-TEMPERATURE PERFORMANCE TEST UNDER -40°C



TELESCOPING MECHANISM: SMOOTHNESS TESTING



TELESCOPING MECHANISM: SMOOTHNESS TESTING

**178 POST PRODUCTION FULL-SCALE TESTS ON THE COMPLETE MACHINE**



TERRAIN TESTING



CLIMBING AND HILL HOLDING



DYNAMIC AND STATIC LIFTING



# NOTES FOR LIFTING

- ❖ 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 with the tires free of the ground. The weights of the hookblock, rigging and the rope between the boom tip and block must be deducted as well as optional items such as the auxiliary sheave and jib.
- ❖ 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. The operator will need to take boom deflection into consideration before beginning a lifting operation.
- ❖ A lifting operation is permissible only when the wind force is below grade 5 (instantaneous wind speed is 14m/s (46.2ft/s), and wind pressure is below 124Pa (2.59lb/ft<sup>2</sup>).
- ❖ Before beginning lifting operation, the operator should know the weight of the load to be lifted and the crane's 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.
- ❖ 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 may overturn.
- ❖ The boom should be extended according to the telescoping codes shown on the load charts.



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