XCMG

ROUGH TERRAIN CRANE

XCR100_U

Reach That Matters

90.7 t (100 USt)

48 m (157.4 ft)

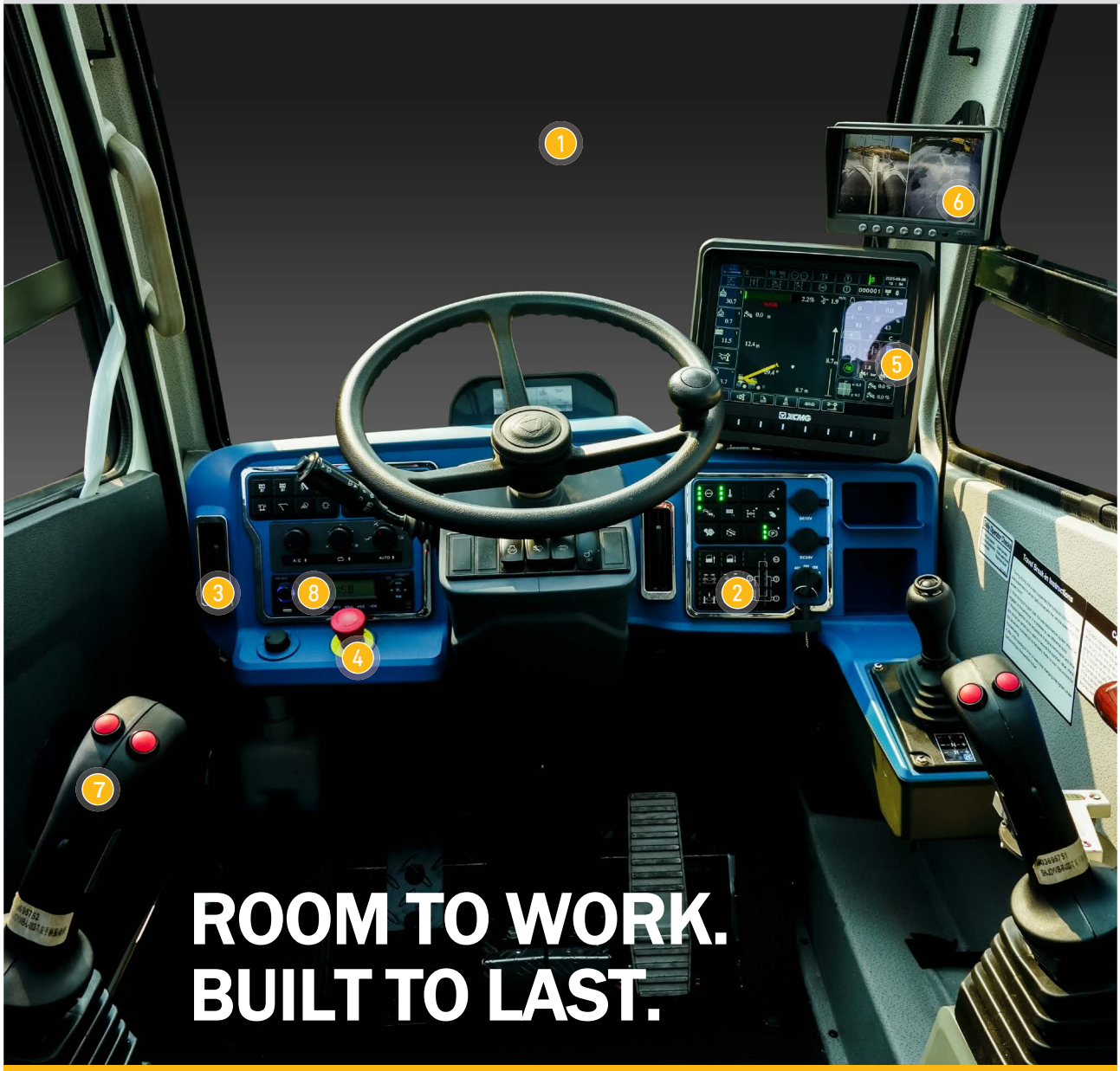
50 m (164 ft)

63.1 m (207 ft)

V.2_2025

CONTENT

SPACIOUS CAB FOR COMFORTABLE DRIVING



3.6 FT EXTRA-LARGE CAB WITH ROOM TO WORK

Dust-sealed, noise-reducing, and climate controlled. More headroom, more elbow room, and a more comfortable seat..

①	Large Windshield	Reduces blind spots for improved driving safety.
②	Zoned Controls	Clean, streamlined layout built around the operator, not the other way around.
③	HVAC	Climate control rated up to 126°F with adjustable outlets. Built for the toughest conditions.
④	Emergency Stop Switch	Easy to reach, just in case.
⑤	Operation Display	10.4-inch true-color touchscreen with adjustable angle. Key information at a glance.
⑥	Monitor	Winch and rear-view cameras provide all-around visibility during operation and travel.
⑦	Driving Display	Real-time readouts for vehicle speed, engine speed, and water temperature.
⑧	Other Amenities	12/24V power, radio, cup holder, and double-layer storage.

GETS IN. GETS OUT. GETS THE JOB DONE.

- Four steering modes including crab, tight-turn, independent front axle, and independent rear axle. All controlled from the steering wheel, the way it should feel.
- Forward and reverse drive with a 21.35 ft minimum turning radius. The smallest in the 100-ton class.

BUILT FOR THE WORST GROUND ON THE JOBSITE

- High-power engine paired with a low-speed, high-torque hydraulic torque converter drivetrain. All-axle drive with specialized off-road tires handle potholes, muddy roads, and rough terrain without slowing down.

WHERE IT COUNTS: THE BOOM

- 157.5 ft five-section boom with three telescoping modes. More reach, more flexibility, more jobs you can say yes to.
- With jib installed, maximum tip height reaches 214.9 ft. Whatever the job puts in front of you, this boom gets there.

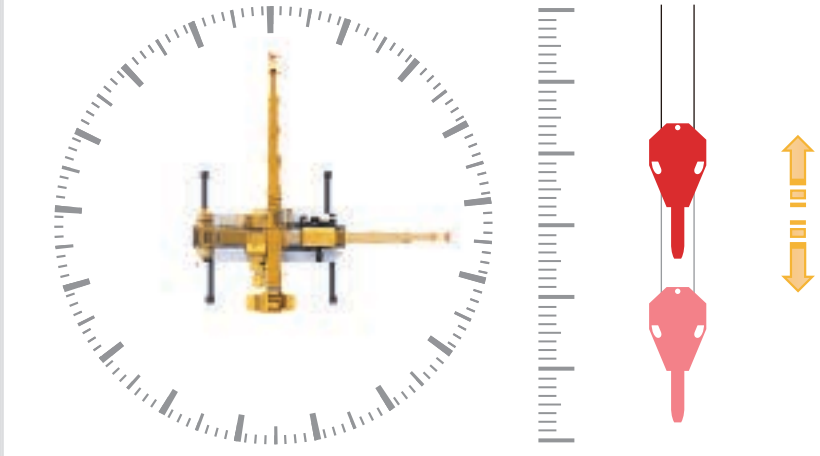
PRECISE HYDRAULICS | EFFICIENT PERFORMANCE

DUAL VARIABLE PUMPS. ONE FOR SPEED. ONE FOR PRECISION.

- Double-pump confluence delivers maximum flow for single-function movements that demand speed. Independent subsystem supply keeps combined movements accurate and controllable.
- Automatic temperature-controlled hydraulic oil cooler maintains performance in high and low temperature environments.

FINE CONTROL

Millimeter precision when winching, slewing, and luffing.

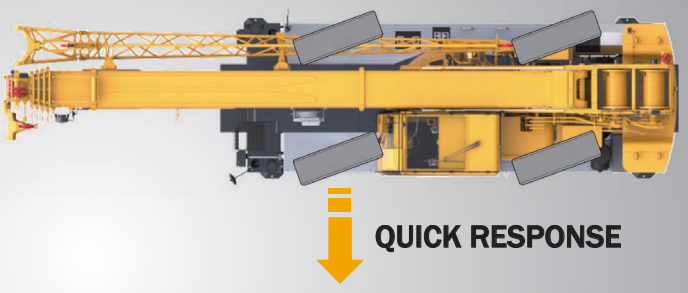


STEER SMARTER. NOT HARDER.

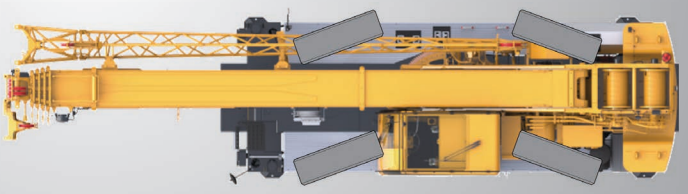
- Switch steering modes with the turn of a knob. The XCR60U automatically centers the rear wheels, no manual alignment needed. A
- dedicated display shows exact wheel position and system status in real time. Other brands require three separate steps to do what the XCR60U does in one.

XCMG: Turn the knob. The crane handles the rest.

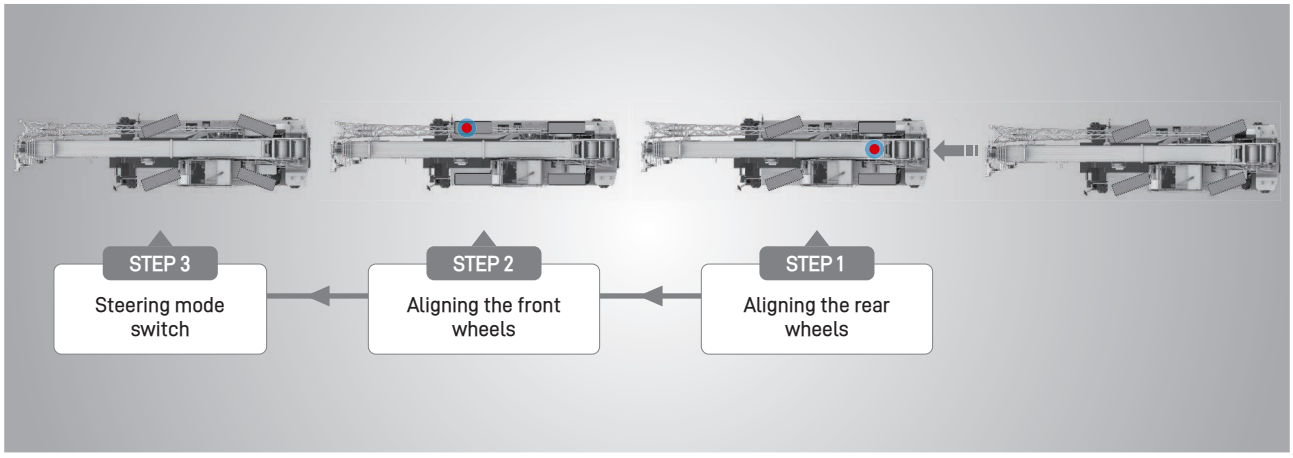
XCMG MULTI-MODE STEERING TECHNOLOGY WITH REAR WHEEL AUTO CENTERING



QUICK RESPONSE



HOW OTHER BRANDS SWITCH STEERING MODES



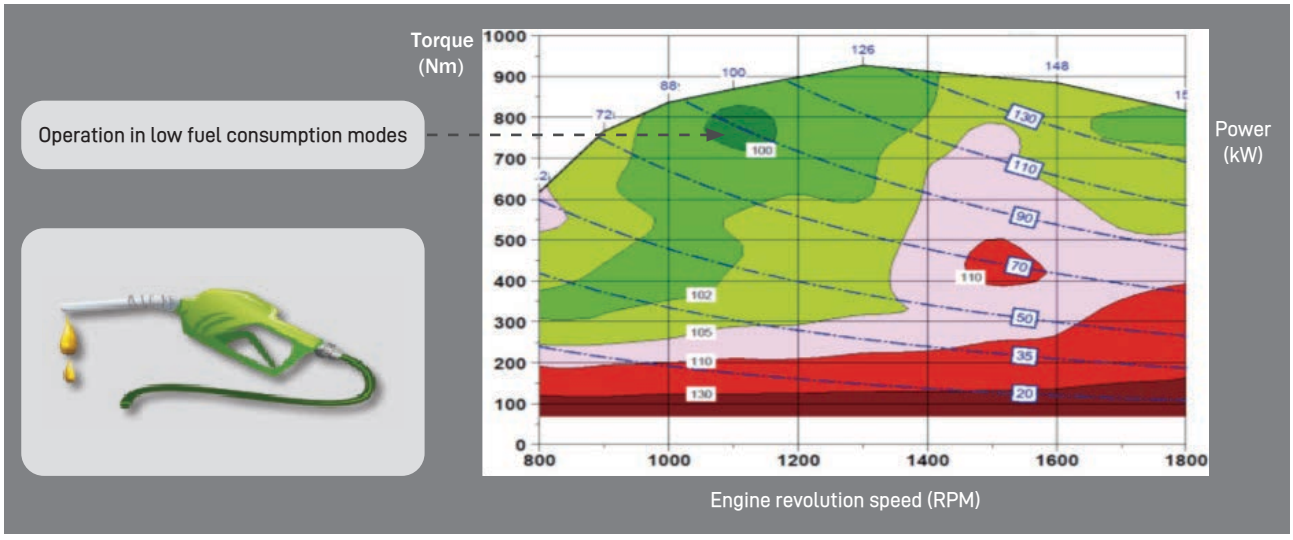
INDUSTRY-LEADING IN ENERGY CONSERVATION

LESS FUEL. SAME POWER.

- Latest technology energy-saving hydraulic system with electronic controlled dual-variable pumps. By using gravity assistance for luffing down, fuel use can be greatly reduced under various operation modes.

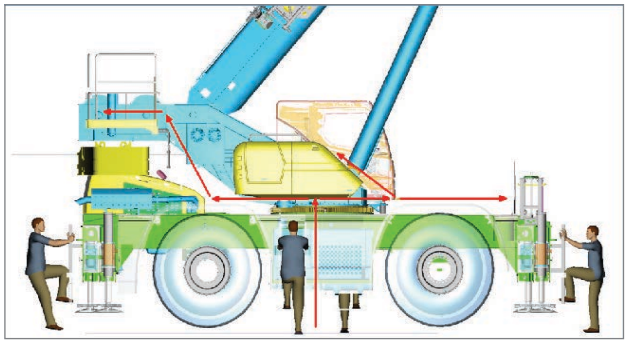
ECO MODE

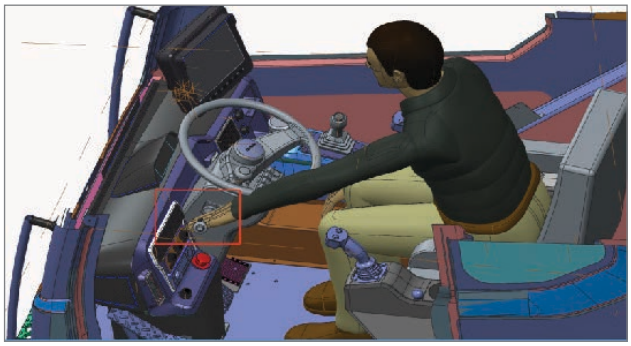
- ECO mode limits engine speed and relies on high-flow pumps to maintain full lifting performance at lower RPM. The engine stays in its most efficient operating range, delivering the lowest fuel consumption in the class during lifting operations.



BUILT AROUND THE OPERATOR

- Full deck and cab access from all four sides regardless of superstructure position. Get on, get off, and move around the machine without waiting for the upper to rotate.
- Cab layout designed through ergonomic simulation. Every control where your hand expects it.

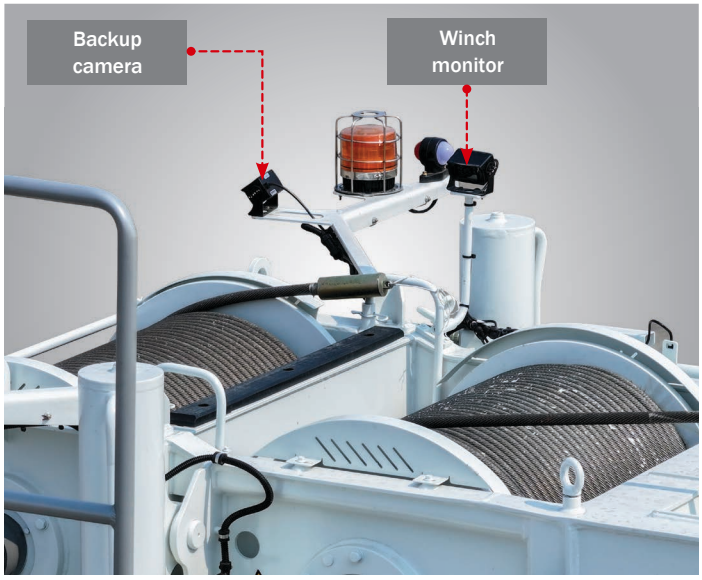




THE DETAILS THAT MAKE THE DIFFERENCE

SEE EVERYTHING. MISS NOTHING.

- Standard backup camera covers all-around visibility during travel and positioning, so nothing sneaks up on you.
- Winch monitor keeps eyes on the load during every lift, from hook-up to set-down.

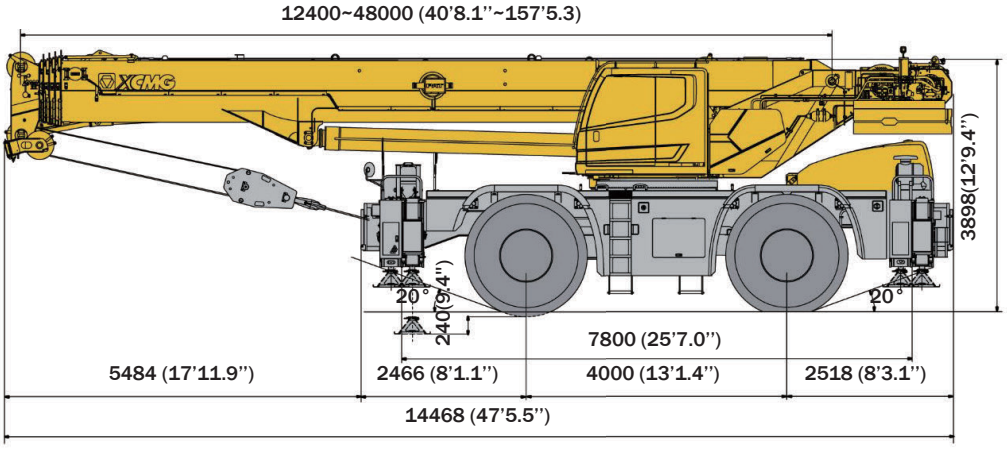


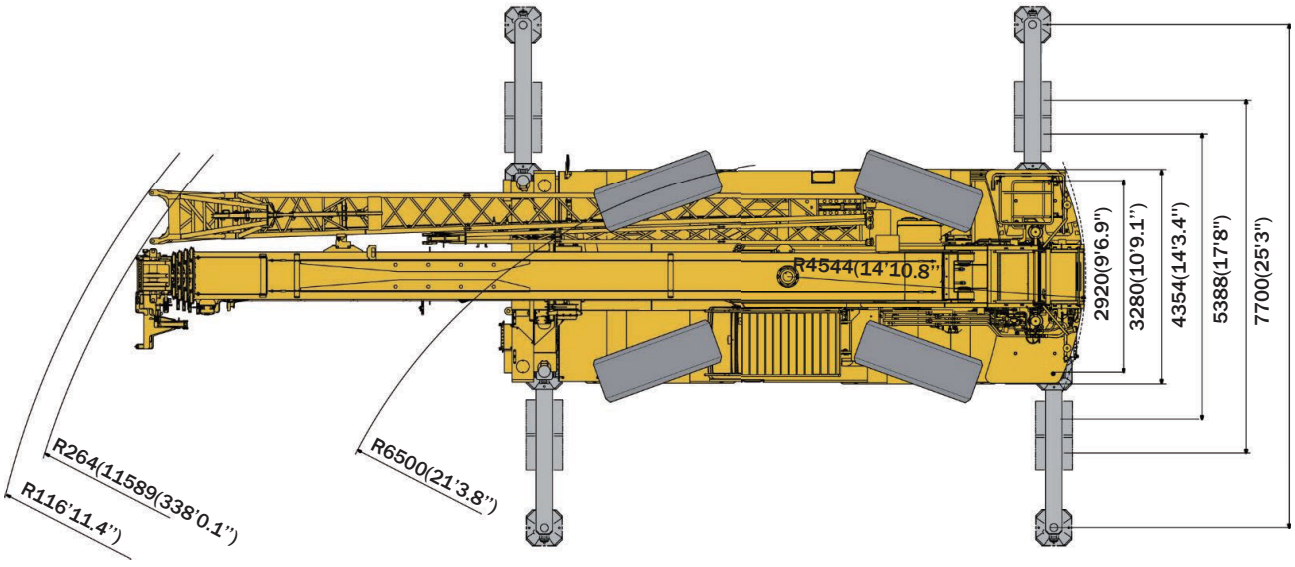
CLIMATE CONTROLLED. EVERY CORNER OF THE CAB.

- High-power HVAC with multi-directional air vents delivers uniform airflow throughout the cab. Comfortable in summer heat or winter cold.

WIRED TO WITHSTAND THE JOBSITE.

- High-retention connectors, weatherproof wiring, and full tail protection throughout. Built to handle the vibration, moisture, and dust that come with the job.


12400~48000 (40'8.1''~157'5.3)
3898(12'9.4'')
20°
20°
240(9.4'')
7800 (25'7.0'')
5484 (17'11.9'')
2466 (8'1.1'')
4000 (13'1.4'')
2518 (8'3.1'')
14468 (47'5.5'')


R4544(14'10.8'')
2920(9'6.9'')
3280(10'9.1'')
4354(14'3.4'')
5388(17'8'')
7700(25'3'')
R264(11589(338'0.1'')
R116'11.4'')
R6500(21'3.8'')

TECHNICAL SPECIFICATIONS

Boom	1 base boom section and 4 telescoping sections. U-shape cross-section welded structure. Dual-cylinder wire-rope telescoping mechanism. 6 sheaves on boom head standard. Boom length: 40.7–157.5 ft (12.4–48 m).	•
Jib	Two-section lattice structure with offset angles of 0°, 15°, and 30°. Stowed along the side of the boom. Jib length: 34.4–57.4 ft (10.5–17.5 m).	•
Frame	High-strength fine-grained steel. Welded torsion-resistant box-section construction. High load-bearing capacity..	•
Outriggers	4 outriggers in H configuration, mounted on both sides of the chassis frame. Hydraulic and electric control.	•
Engine	Cummins B6.7 inline six-cylinder, water-cooled diesel. Rated power: 280 hp / 2,200 rpm (209 kW). Maximum torque: 850 lb-ft / 1,500 rpm (1,152 N·m). U.S. EPA Tier 4 Final and EU Stage V compliant. Fuel tank capacity: approximately 80.5 gal (305 L).	•
Transmission	ZF 6WG210 automatic transmission. 6 forward, 3 reverse gears.	•
Axles	Both front and rear axles are drive and steer axles. High load-bearing capacity.	•
Suspension	Front axle is frame-mounted in the locked position. Rear axle uses swing-type hydraulic suspension with active shock absorption during highway travel. Rear suspension cylinder locks automatically when operating with a suspended load for increased stability.	•
Tires	4 specialized off-road tires. Large load-bearing capacity. Tire specification: 29.5R25.	•
Steering	Four steering modes: independent front axle, tight-turn, crab, and independent rear axle. Steering angle adjusts automatically when switching modes.	•
Brakes	Service brake: dual-circuit hydraulic disc brakes on all wheels. Automatic braking and low-pressure alarm activate if system pressure drops. Parking brake: spring-loaded, hydraulic-release independent disc brake on the front axle.	•
Hydraulic System	Dual-variable piston pump for lifting, luffing, and telescoping. Gear pump for slewing, outrigger, steering, and braking operations. Load-sensitive proportional multi-way control valve. Independent hydraulic oil cooler. Tank capacity: approximately 279.2 gal (1,057 L).	•
Control system	Hydraulically controlled pilot system with two levers for all primary crane movements. Proportional control for precise speed management.	•
Electrical system	24V DC. Two 12V batteries in series, 180 Ah each. Standard lighting includes head lights, steering lights, backup lights, turntable lights, boom lights, and slewing lights. LMI standard..	•

Main Winch System	Hydraulic motor drive through a planetary gear reducer. Normally closed brake with counterbalance valve.	●
Auxiliary Winch System	Hydraulic motor drive through a planetary gear reducer. Normally closed brake with counterbalance valve.	○
Slewing System	Single-row four-point ball contact slewing bearing. Hydraulic motor drive with planetary gear reducer and normally closed brake.	●
Cab	Tiltable cab with sliding door and adjustable seat. Safety glass and roof protective grilles standard. Sunshade available for windshield and roof window. Heater, air conditioner, radio, and 12V/24V power ports standard.	●
Operational Aids	Hydraulic counterbalance valve, relief valve, and dual-direction hydraulic lock. LMI standard. Winch lowering limiter prevents rope over-release. Anti-two-block device on boom head prevents rope over-winding. 360° turntable locking device standard.	●
Counterweight	Total 22,046 lb (10 t).	●
	Optional additional 3,306 lb (1.5 t).	○
Hook Block	60 USt (55 t) and 7.7 USt (7 t) hook blocks.	●

Other items of equipment available on request.
Symbol explanation:
● ——standard configuration;
○ ——optional configuration.

WEIGHTS

AXLE	1	2	GROSS VEHICLE WEIGHT
lb (kg)	62,086 (28,157)	55,712 (25,266)	117,608 (53,428) 22,046 lb (10 t) counterweight
	61,004 (27,49)	59,911 (27,433)	120,915 (54,923) 22,046 lb (10 t) counterweight + optional 3,306 lb (1.5 t) counterweight

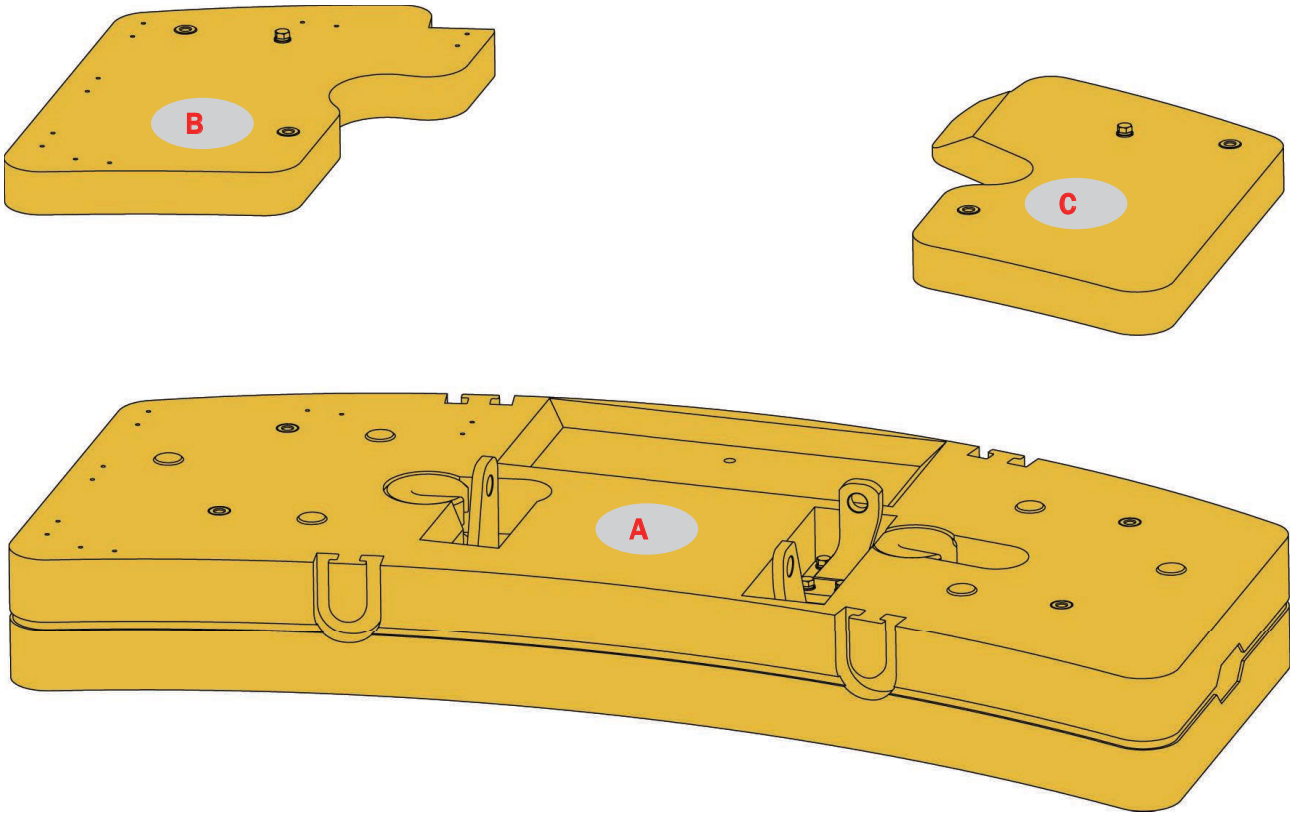
CONFIGURATION	WEIGHTS	FRONT AXLE	REAR AXLE
Basic configuration	87,300 lb (39,592 kg)	60,443 lb (27,412 kg)	26,857 lb (12,180 kg)
Add: 22,046 lb (10 t) counterweight	22,046 lb (10,000 kg)	−9,810 lb (−4,450 kg)	31,856 lb (14,450 kg)
Add: 3,306 lb (1.5 t) counterweight	3,306 lb (1,500 kg)	−1,471 lb (−667.5 kg)	4,779 lb (2,167.5 kg)
Add: Auxiliary winch system with wire rope	2,030 lb (921 kg)	−895 lb (−406 kg)	2,926 lb (1,327 kg)
Add: Jib	2,932 lb (1,330 kg)	4,557 lb (2,067 kg)	−1,625 lb (−737 kg)
Add: 88 USt (80 t) hook block (stowed at front)	1,764 lb (800 kg)	4,189 lb (1,900 kg)	−2,425 lb (−1,100 kg)
Add: 60 USt (55 t) hook block (stowed at front)	1,257 lb (570 kg)	2,985 lb (1,354 kg)	−1,728 lb (−784 kg)
Add: 7.7 USt (7 t) hook block (stowed at front)	463 lb (210 kg)	463 lb (210 kg)	−154 lb (−70 kg)

HOOK BLOCK	PARTS OF LINE	WEIGHT lb (kg)	REMARKS
60 USt (55 t)	9	1,257 (570)	Single hook
7.7 USt (7 t)	1	463 (210)	Single hook

29.5 R 25	21.6 mph (34.8 km/h)	64.6%

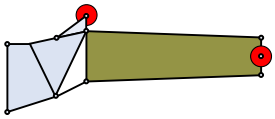
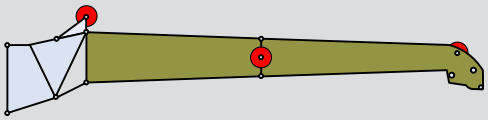
	Max	F	Φ	
1	0–475.7 ft/min (0–145 m/min) No load, 4th layer	15,916 lb (70.8 kN)	0.787 in (20 mm)	787.4 ft (240 m)
2	0–295.3 ft/min (0–90 m/min) No load, 4th layer	15,916 lb (70.8 kN)	0.787 in (20 mm)	492.1 ft (150 m)
	0-1.5 r/min			
	Approximately 55 sec, −1.5° to 80°			
	Approximately 110 sec, 40.7 ft to 157.4 ft (12.4 m to 48 m)			

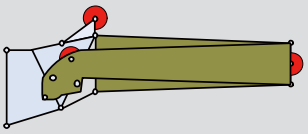
COUNTERWEIGHT



	A	B (OPTIONAL)	C (OPTIONAL)
Dimensions (L×W×H) ft (mm)	0.7 × 5.0 × 1.8 ft (3,260 × 1,539 × 550 mm)	4.5 × 3.2 × 0.4 ft (1,372 × 980 × 124 mm)	4.5 × 3.2 × 0.4 ft (1,372 × 980 × 124 mm)
Weight lb (t)	22,046 (10)	1,653 (0.75)	(1,653 (0.75)

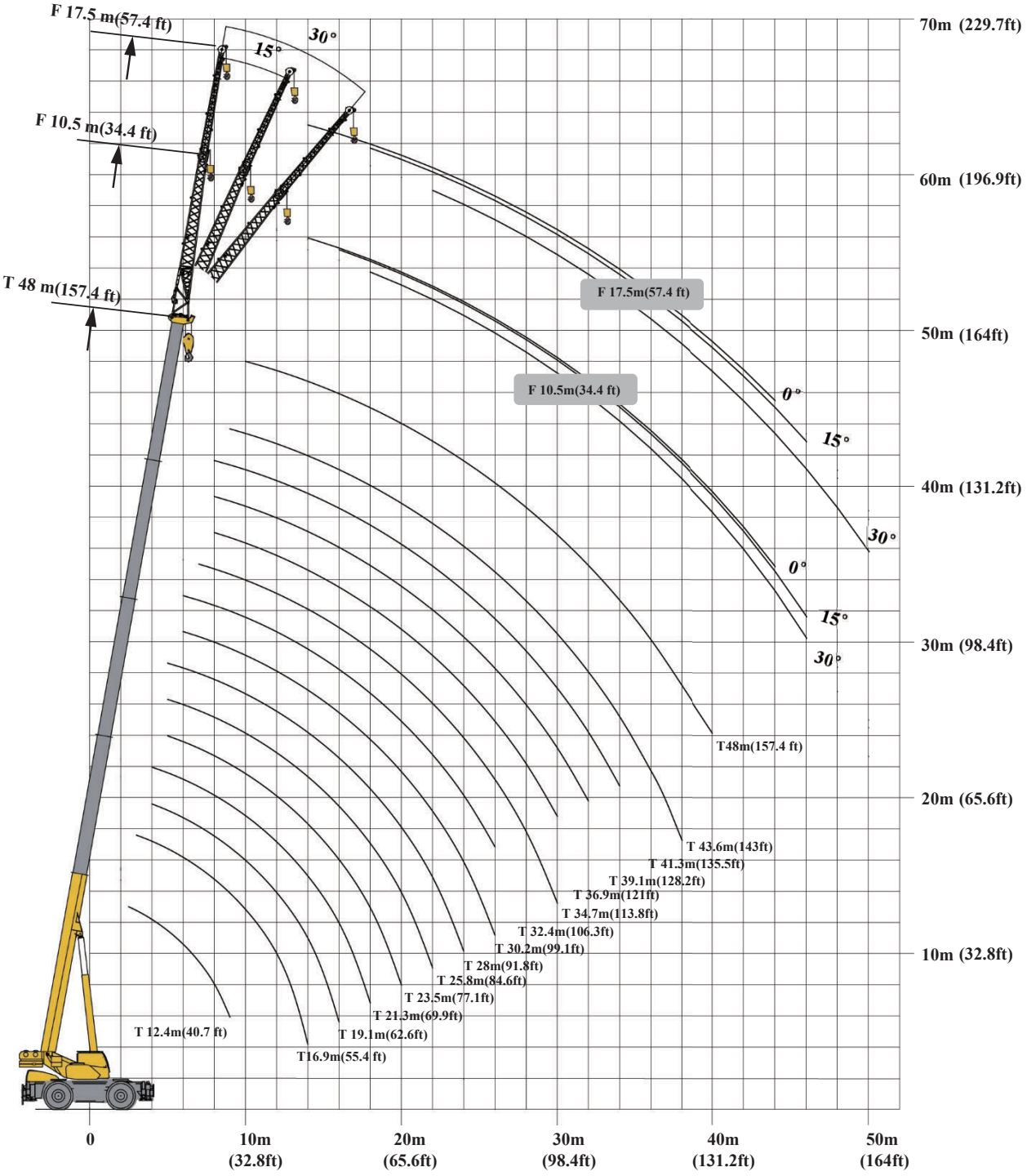
OPERATION MODES	0 T (0 LB)	22,046 lb (10 t)	22,046 + 3,306 lb (10 + 1.5 t) (OPTIONAL)
Combinations	—	A	A+B+C

Jib – 34.4 ft (10.5 m)	
Jib – 57.4 ft (17.5 m)	

COMPONENT	STRUCTURE	DIMENSIONS (L×W×H)	WEIGHT lb (kg)
1st and 2nd jib section assembly + connecting bracket		Folded: 36.4 × 3.0 × 4.4 ft (11,100 × 900 × 1,350 mm)	2,932 (1,330)

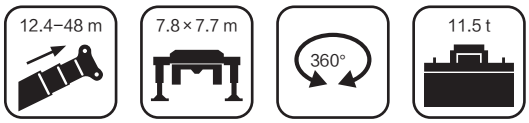
BOOM / JIB COMBINATIONS

BOOM	BOOM + ONE JIB SECTION	BOOM + TWO JIB SECTIONS
40.7–157.4 ft (12.4–48 m)	157.4 + 34.4 ft (48 + 10.5 m)	157.4 + 57.4 ft (48 + 17.5 m)


F 17.5 m(57.4 ft)
F 10.5 m(34.4 ft)
T 48 m(157.4 ft)
30°
15°
F 17.5m(57.4 ft)
F 10.5m(34.4 ft)
0°
15°
30°
0°
15°
30°
T48m(157.4 ft)
T 43.6m(143ft)
T 41.3m(135.5ft)
T 39.1m(128.2ft)
T 36.9m(121ft)
T 34.7m(113.8ft)
T 32.4m(106.3ft)
T 30.2m(99.1ft)
T 28m(91.8ft)
T 25.8m(84.6ft)
T 23.5m(77.1ft)
T 21.3m(69.9ft)
T 19.1m(62.6ft)
T16.9m(55.4 ft)
T 12.4m(40.7 ft)
70m (229.7ft)
60m (196.9ft)
50m (164ft)
40m (131.2ft)
30m (98.4ft)
20m (65.6ft)
10m (32.8ft)
0
10m (32.8ft)
20m (65.6ft)
30m (98.4ft)
40m (131.2ft)
50m (164ft)

LOAD CHARTS

UNITS: t
ASME B30.5 85%



	12.4	16.9	19.1	21.3	23.5	25.8	28	30.2	32.4	34.7	36.9	39.1	41.3	43.6	48	
2.5	90.7*															2.5
3	80*	63.3														3
3.5	75.0	63.3														3.5
4	72.4	63.3	35.1	46.0												4
5	57.9	57.9	35.0	45.0	34.8	35.3	33.5									5
6	48.3	48.3	35.0	40.0	34.8	33.9	33.5	32.4	23.3							6
7	41.4	41	35.0	38.0	34.8	31.6	31.9	29.7	21.9	25.4						7
8	35.0	35	35.0	36.4	34.8	29.7	29.5	27.9	20.7	23.3	21.0	16.1	17.3			8
9	28.8	28	33.2	29.5	32.3	27.9	27.5	26.7	19.5	21.9	20.1	15.4	17.3	13.1		9
10		25.0	27.0	23.7	26.2	26.4	25.3	25.3	18.4	20.5	19.2	14.8	17.2	13.0	11.4	10
12		17.0	19.7	16.1	19.0	21.0	19.1	19.2	16.7	18.3	17.6	13.6	16.6	12.5	11.4	12
14			14.9	12.0	14.2	14.9	14.1	15.6	15.1	14.0	16.1	12.1	14.4	12.0	11.4	14
16				9.0	10.9	11.7	9.9	12.1	13.3	10.8	12.7	10.8	11.3	10.6	10.3	16
18					8.5	9.4	7.7	8.9	10.8	9.2	10.2	9.8	9.1	9.5	9.1	18
20						7.6	6.5	7.6	8.9	7.3	7.5	8.9	7.9	8.1	7.7	20
22							4.9	5.8	7.4	5.9	6.3	7.7	6.2	7.2	6.8	22
24								4.8	6.3	4.6	5.7	6.5	5.1	6.0	5.6	24
26								3.9	5.3	3.7	4.8	5.6	3.8	5.1	4.7	26
28										2.6	4.0	4.8	3.2	4.3	3.9	28
30										2	3.0	4.1	2.5	3.6	3.2	30
32												3.5	2	2.7	2.3	32
34													1.6	2.2	1.9	34
36														1.7	1.4	36
38														1.4	1	38
40															0.8	40

Notes: The lifting load with a * followed is available only when additional equipment is used;
When a load weighing more than 55 t(60 Ust) is lifted, a larger hook block is required for operation.

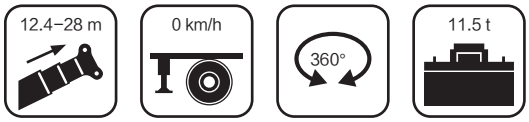
UNITS: t
ASME B30.5 85%

	12.4	16.9	19.1	21.3	23.5	25.8	28	30.2	32.4	34.7	36.9	39.1	41.3	43.6	48	
2.5	90.7*															2.5
3	80*	63.3														3
3.5	75.0	63.3														3.5
4	72.4	63.3	35.1	46.0												4
5	57.9	57.9	35.0	45.0	34.8	35.3	33.5									5
6	48.3	48.3	35.0	40.0	34.8	33.9	33.5	32.4	23.3							6
7	41.4	41.0	35.0	38.0	34.8	31.6	31.9	29.7	21.9	25.4						7
8	35.0	35.0	35.0	35.0	34.8	29.7	29.5	27.9	20.7	23.3	21.0	16.1	17.3			8
9	28.7	28.0	31.5	27.9	30.6	27.9	27.5	26.7	19.5	21.9	20.1	15.4	17.3	13.1		9
10		24.4	25.6	22.3	24.8	26.4	23.9	25.3	18.4	20.5	19.2	14.8	17.2	13.0	11.4	10
12		16.6	18.5	14.9	17.3	19.9	16.7	18.1	16.7	17.6	17.6	13.6	16.6	12.5	11.4	12
14			13.9	10.8	12.7	14.1	13.2	13.6	15.1	13.1	15.2	12.1	13.7	12.0	11.4	14
16				8.0	9.7	11.0	9.2	11.3	12.5	10.1	11.9	10.8	10.6	10.6	10.3	16
18					7.2	8.8	7.1	8.2	10.1	7.9	9.5	9.8	8.4	9.5	9.1	18
20						7.2	5.9	7.0	8.3	6.7	7.0	8.6	6.8	8.1	7.7	20
22							4.3	5.3	6.9	5.4	5.8	7.2	5.7	6.7	6.8	22
24								4.3	5.8	4.3	5.2	6.1	4.7	5.6	5.6	24
26								3.5	4.9	3.4	4.3	5.1	3.4	4.7	4.2	26
28										2.3	3.6	4.4	2.8	3.9	3.5	28
30										1.8	2.6	3.7	2.2	3.2	2.8	30
32												3.2	1.8	2.3	1.9	32
34													1.3	1.9	1.7	34
36														1.5	1.2	36
38														1.1	0.9	38
40															0.6	40

Notes: The lifting load with a * followed is available only when additional equipment is used;
When a load weighing more than 55 t(60 Ust) is lifted, a larger hook block is required for operation.

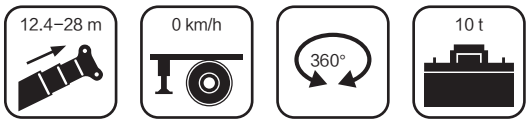
LOAD CHARTS

UNITS: t
ASME B30.5 85%



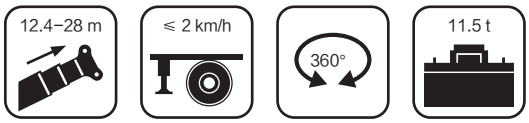
	12.4	16.9	21.3	28	
4	12.5	12.1	15.5		4
5	9.8	9.4	9.1	12.9	5
6	7.8	7.4	7.1	10.2	6
7	6.2	5.8	5.5	6.6	7
8	4.8	4.5	4.2	5.3	8
9		3.4	3.2	4.2	9
10		1.8	1.5	2.6	10
12				1.4	12

UNITS: t
ASME B30.5 85%



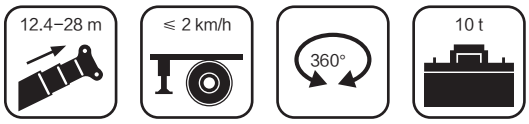
	12.4	16.9	21.3	28	
4	12	11.5	11.2		4
5	9.3	8.9	8.6	9.7	5
6	7.3	6.9	6.6	7.7	6
7	5.8	5.3	5.1	6.1	7
8	4.5	4	3.8	4.8	8
9		2.5	2.8	3.7	9
10				2	10

UNITS: t
ASME B30.5 85%



	12.4	16.9	21.3	28	
4	8.6	8.4	8.1	9.3	4
5	6.7	6.2	6	7.1	5
6	5	4.6	4.3	5.4	6
7	3.7	3.3	3	4.1	7
8	2.6	2.3	2	3.1	8
9		1.4	1.1	2.2	9
10				0.9	10

UNITS: t
ASME B30.5 85%



	12.4	16.9	21.3	28	
4	8.3	7.9	7.6	8.2	4
5	6.2	5.8	5.5	6.6	5
6	4.6	4.2	3.9	5	6
7	3.3	2.9	2.6	3.7	7
8	2.3	1.9	1.6	2.7	8
9		1.1	0.8	1.9	9
10				0.6	10

LOAD CHARTS

UNITS: t
ASME B30.5 85%

	48+10.5			
	0°	15°	30°	
14	5.5			14
16	5.5	4.5		16
18	5.5	4.5	2.6	18
20	5.5	4.4	2.5	20
22	5.2	4.1	2.4	22
24	4.5	3.8	2.2	24
26	3.8	3.6	2.1	26
28	3.1	3.2	2	28
30	2.5	2.6	2	30
32	2.2	2.1	1.9	32
34	1.8	1.8	1.8	34
36	1.4	1.5	1.5	36
38	1	1.1	1.3	38
40	0.8	1	1.1	40
42	0.6	0.7	0.8	42
44	0.5	0.6	0.7	44
46		0.5	0.5	46

UNITS: t
ASME B30.5 85%

	48+17.5			
	0°	15°	30°	
14	2.8			14
16	2.8			16
18	2.8	2.1		18
20	2.8	2		20
22	2.8	1.8	1.1	22
24	2.8	1.7	1.1	24
26	2.7	1.6	0.9	26
28	2.5	1.5	0.9	28
30	2.3	1.3	0.9	30
32	2.1	1.2	0.8	32
34	1.8	1.2	0.8	34
36	1.5	1.1	0.8	36
38	1.2	1.1	0.8	38
40	0.9	1.1	0.8	40
42	0.6	0.9	0.8	42
44	0.5	0.6	0.8	44
46		0.5	0.6	46
48			0.5	48
50			0.5	50

LOAD CHARTS

UNITS: t
ASME B30.5 85%

	48+10.5			
	0°	15°	30°	
14	5.5			14
16	5.5	4.5		16
18	5.5	4.5	2.6	18
20	5.5	4.4	2.5	20
22	5.2	4.1	2.4	22
24	4.5	3.8	2.2	24
26	3.8	3.6	2.1	26
28	3.1	3.2	2	28
30	2.5	2.6	2	30
32	2	2.1	1.8	32
34	1.6	1.6	1.7	34
36	1.2	1.3	1.4	36
38	0.9	1	1.2	38
40	0.7	0.8	0.9	40
42	0.5	0.5	0.6	42
44			0.5	44

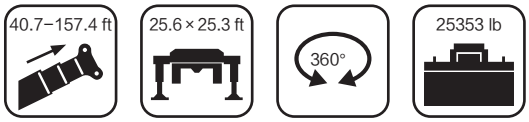
UNITS: t

ASME B30.5 85%

	48+17.5			
	0°	15°	30°	
14	2.8			14
16	2.8			16
18	2.8	2.1		18
20	2.8	2		20
22	2.8	1.8	1.1	22
24	2.8	1.7	1.1	24
26	2.7	1.6	0.9	26
28	2.5	1.5	0.9	28
30	2.3	1.3	0.9	30
32	2	1.1	0.7	32
34	1.6	1.1	0.7	34
36	1.3	1	0.7	36
38	1	1	0.7	38
40	0.7	0.9	0.7	40
42	0.5	0.7	0.7	42
44		0.5	0.6	44
46			0.5	46

LOAD CHARTS

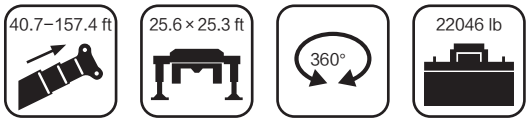
UNITS: lb
ASME B30.5 85%



	40.7	55.4	62.6	69.9	77.1	84.6	91.8	99.1	106.3	113.8	121	128.2	135.5	143	157.4	
8.2	200000*															8.2
9.8	176368*	139551														9.8
11.5	165345	139551														11.5
13.1	159613	139551	77381	101412												13.1
16.4	127646	127646	77161	99207	76720	77822	73854									16.4
19.7	106482	106482	77161	88184	76720	74736	73854	71429	51367							19.7
23.0	91270	90389	77161	83775	76720	69665	70327	65477	48281	55997						23.0
26.2	77161	77161	77161	80247	76720	65477	65036	61508	45635	51367	46297	35494	38140			26.2
29.5	63492	61729	73193	65036	71209	61508	60627	58863	42990	48281	44312	33951	38140	28880		29.5
32.8		55115	59524	52249	57761	58201	55776	55776	40565	45194	42328	32628	37919	28660	25132	32.8
39.4		37478	43431	35494	41887	46297	42108	42328	36817	40344	38801	29983	36596	27558	25132	39.4
45.9		22266	32849	26455	31305	32849	31085	34392	33289	30864	35494	26676	31746	26455	25132	45.9
52.5			20723	19841	24030	25794	21826	26676	29321	23810	27998	23810	24912	23369	22707	52.5
59.0				11243	18739	20723	16975	19621	23810	20282	22487	21605	20062	20944	20062	59.0
65.6					11464	16755	14330	16755	19621	16094	16535	19621	17416	17857	16975	65.6
72.2						11243	10803	12787	16314	13007	13889	16975	13669	15873	14991	72.2
78.7							5512	10582	13889	10141	12566	14330	11243	13228	12346	78.7
85.3								8598	11684	8157	10582	12346	8377	11243	10362	85.3
91.8										5732	8818	10582	7055	9480	8598	91.8
98.4										4409	6614	9039	5512	7937	7055	98.4
105.0												7716	4409	5952	5071	105.0
111.5													3527	4850	4189	111.5
118.1														3748	3086	118.1
124.6														3086	2205	124.6
131.2															1764	131.2

Notes: The lifting load with a * followed is available only when additional equipment is used;
When a load weighing more than 55 t(60 Ust) is lifted, a larger hook block is required for operation.

UNITS: lb
ASME B30.5 85%

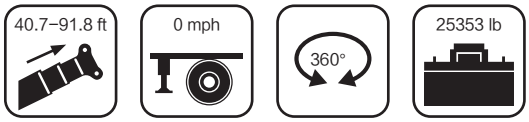


	40.7	55.4	62.6	69.9	77.1	84.6	91.8	99.1	106.3	113.8	121	128.2	135.5	143	157.4	
8.2	200000*															8.2
9.8	176368*	139551														9.8
11.5	165345	139551														11.5
13.1	159613	139551	77381	101412												13.1
16.4	127646	127646	77161	99207	76720	77822	73854									16.4
19.7	106482	106482	77161	88184	76720	74736	73854	71429	51367							19.7
23.0	91270	90389	77161	83775	76720	69665	70327	65477	48281	55997						23.0
26.2	77161	77161	77161	77161	76720	65477	65036	61508	45635	51367	46297	35494	38140			26.2
29.5	63272	61729	69445	61508	67461	61508	60627	58863	42990	48281	44312	33951	38140	28880		29.5
32.8		53792	56438	49163	54674	58201	52690	55776	40565	45194	42328	32628	37919	28660	25132	32.8
39.4		36596	40785	32849	38140	43872	36817	39903	36817	38801	38801	29983	36596	27558	25132	39.4
45.9		21385	30644	23810	27998	31085	29101	29983	33289	28880	33510	26676	30203	26455	25132	45.9
52.5			20062	17637	21385	24251	20282	24912	27558	22266	26235	23810	23369	23369	22707	52.5
59.0				10582	15873	19400	15653	18078	22266	17416	20944	21605	18519	20944	20062	59.0
65.6					11023	15873	13007	15432	18298	14771	15432	18960	14991	17857	16975	65.6
72.2						11023	9480	11684	15212	11905	12787	15873	12566	14771	14991	72.2
78.7							5512	9480	12787	9480	11464	13448	10362	12346	12346	78.7
85.3								7716	10803	7496	9480	11243	7496	10362	9259	85.3
91.8									6614	5071	7937	9700	6173	8598	7716	91.8
98.4										3968	5732	8157	4850	7055	6173	98.4
105.0												7055	3968	5071	4189	105.0
111.5													2866	4189	3748	111.5
118.1														3307	2646	118.1
124.6														2425	1984	124.6
131.2															1323	131.2

Notes: The lifting load with a * followed is available only when additional equipment is used;
When a load weighing more than 55 t(60 Ust) is lifted, a larger hook block is required for operation.

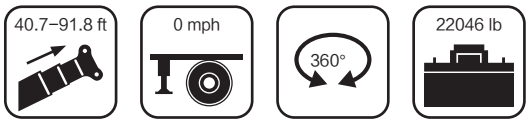
LOAD CHARTS

UNITS: lb
ASME B30.5 85%



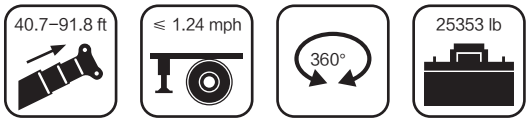
	40.7	55.4	69.9	91.8	
13.1	27558	26676	34171	□	13.1
16.4	21605	20723	20062	28439	16.4
19.7	17196	16314	15653	22487	19.7
23.0	13669	12787	12125	14550	23.0
26.2	10582	9921	9259	11684	26.2
29.5		7496	7055	9259	29.5
32.8		3968	3307	5732	32.8
39.4				3086	39.4

UNITS: lb
ASME B30.5 85%



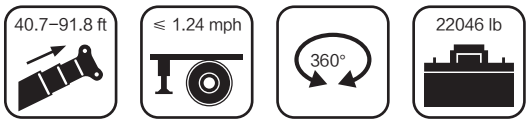
	40.7	55.4	69.9	91.8	
13.1	26455	25353	24692		13.1
16.4	20503	19621	18960	21385	16.4
19.7	16094	15212	14550	16975	19.7
23.0	12787	11684	11243	13448	23.0
26.2	9921	8818	8377	10582	26.2
29.5		5512	6173	8157	29.5
32.8				4409	32.8

UNITS: lb
ASME B30.5 85%



	40.7	55.4	69.9	91.8	
13.1	18960	18519	17857	20503	13.1
16.4	14771	13669	13228	15653	16.4
19.7	11023	10141	9480	11905	19.7
23.0	8157	7275	6614	9039	23.0
26.2	5732	5071	4409	6834	26.2
29.5		3086	2425	4850	29.5
32.8				1984	32.8

UNITS: lb
ASME B30.5 85%



	40.7	55.4	69.9	91.8	
13.1	18298	17416	16755	18078	13.1
16.4	13669	12787	12125	14550	16.4
19.7	10141	9259	8598	11023	19.7
23.0	7275	6393	5732	8157	23.0
26.2	5071	4189	3527	5952	26.2
29.5		2425	1764	4189	29.5
32.8				1323	32.8

LOAD CHARTS

UNITS: lb
ASME B30.5 85%

	157.4+ 34.4			
	0°	15°	30°	
45.9	12125			45.9
52.5	12125	9921		52.5
59	12125	9921	5732	59
65.6	12125	9700	5512	65.6
72.2	11464	9039	5291	72.2
78.7	9921	8377	4850	78.7
85.3	8377	7937	4630	85.3
91.8	6834	7055	4409	91.8
98.4	5512	5732	4409	98.4
105	4850	4630	4189	105
111.5	3968	3968	3968	111.5
118.1	3086	3307	3307	118.1
124.6	2205	2425	2866	124.6
131.2	1764	2205	2425	131.2
137.8	1323	1543	1764	137.8
144.3	1102	1323	1543	144.3
150.9		1102	1102	150.9

UNITS: lb
ASME B30.5 85%

	157.4+ 57.4			
	0°	15°	30°	
45.9	6173			45.9
52.5	6173			52.5
59	6173	4630		59
65.6	6173	4409		65.6
72.2	6173	3968	2425	72.2
78.7	6173	3748	2425	78.7
85.3	5952	3527	1984	85.3
91.8	5512	3307	1984	91.8
98.4	5071	2866	1984	98.4
105	4630	2646	1764	105
111.5	3968	2646	1764	111.5
118.1	3307	2425	1764	118.1
124.6	2646	2425	1764	124.6
131.2	1984	2425	1764	131.2
137.8	1323	1984	1764	137.8
144.3	1102	1323	1764	144.3
150.9		1102	1323	150.9
157.4			1102	157.4
164			1102	164

LOAD CHARTS

UNITS: lb
ASME B30.5 85%

	157.4 ft + 34.4 ft			
	0°	15°	30°	
45.9	12125			45.9
52.5	12125	9921		52.5
59	12125	9921	5732	59
65.6	12125	9700	5512	65.6
72.2	11464	9039	5291	72.2
78.7	9921	8377	4850	78.7
85.3	8377	7937	4630	85.3
91.8	6834	7055	4409	91.8
98.4	5512	5732	4409	98.4
105	4409	4630	3968	105
111.5	3527	3527	3748	111.5
118.1	2646	2866	3086	118.1
124.6	1984	2205	2646	124.6
131.2	1543	1764	1984	131.2
137.8	1102	1102	1323	137.8
144.3			1102	144.3

UNITS: lb
ASME B30.5 85%

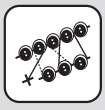
	157.4 ft + 57.4 ft			
	0°	15°	30°	
45.9	6173			45.9
52.5	6173			52.5
59	6173	4630		59
65.6	6173	4409		65.6
72.2	6173	3968	2425	72.2
78.7	6173	3748	2425	78.7
85.3	5952	3527	1984	85.3
91.8	5512	3307	1984	91.8
98.4	5071	2866	1984	98.4
105	4409	2425	1543	105
111.5	3527	2425	1543	111.5
118.1	2866	2205	1543	118.1
124.6	2205	2205	1543	124.6
131.2	1543	1984	1543	131.2
137.8	1102	1543	1543	137.8
144.3		1102	1323	144.3
150.9			1102	150.9

TABLE OF MAIN TECHNICAL PARAMETERS

CATEGORY	ITEM		UNIT	PARAMETER		ALLOWANCE
Dimensions	Outline dimension (length×width×height)		mm (ft)	14468×3280×3898 (47.5×10.8×12.8)		±1%
	Wheel base		mm (ft)	4000 (13.1)		±1%
	Track (Front/ Rear)		mm (ft)	2520/2520 (8.3/8.3)		±1%
	Front/ rear overhang		mm (ft)	2466/2518 (8.1/8.3)		±1%
	Front/ rear extension		mm (ft)	5484/0 (18.0/0)		±1%
Weights	Gross vehicle weight		kg (lb)	53423 (117608) (10 t (22046 lb) counterweight)	54923 (120915) (11.5 t (25353 lb) counterweight)	±3%
	Axle load	Axle 1	kg (lb)	28157 (62086)	27490 (61004)	±3%
		Axle 2	kg (lb)	25266 (55712)	27433 (59911)	±3%
Power	Engine model		——	Cummins B6.7 Teir 4F/Eu stage V		—
	Engine rated power/rpm		kW/(r/min) (hp/(r/min))	209/2000 (280/2000)		—
	Engine rated torque/rpm		N.m/(r/min) (lb-ft/(r/min))	1152/1500 (850/1500)		—
Travel	Maximum travel speed		km/h (mph)	≥34.8 (21.6)		—
	Minimum turning diameter		m (ft)	≤13 (42.7)		—
	Minimum ground clearance		mm (ft)	550 (1.8)		±1%
	Approach angle		°	24		±1°
	Departure angle		°	24		±1°
	Braking distance (at 24km/h(14.9mph)		m (ft)	≤ 9 (29.5)		—
	Maximum gradeability		%	≥64.6		—

CATEGORY	ITEM			UNIT	PARAMETER	ALLOWANCE
Main performance	Maximum total rated lifting capacity			t (USt)	90.7 (100)	±5%
	Minimum rated working radius			m(ft)	2.5 (8.2)	±1%
	Slewing radius at turntable tail	At counterweight		mm (ft)	4544 (14.9)	±1%
	Maximum load moment	Base boom section		kN.m (lb-ft)	2840 (2096559)	±5%
		Fully-extended boom		kN.m (lb-ft)	1615 (1192233)	±5%
	Outrigger span	Longitudinal		m (ft)	7.8 (25.6)	±1%
		Lateral		m (ft)	7.7 (25.3)	±1%
	Maximum outrigger load			kN (lb)	636 (143,104)	—
	Lifting height	Base boom section		m (ft)	13 (42.7)	±1%
		Fully-extended boom		m (ft)	48 (157.5)	±1%
		Fully-extended boom + jib		m (ft)	63.1 (207.0)	±1%
	Boom length	Base boom		m (ft)	12.4 (40.7)	±1%
		Fully-extended boom		m (ft)	48 (157.4)	±1%
		Fully-extended boom + Jib		m (ft)	65.5 (214.9)	±1%
	Jib offset angle			°	0°, 15°, 30°	—
Working speeds	Boom raising time			s	≤55	—
	Boom fully extending time			s	≤110	—
	Maximum slewing speed			r/min	≥1.5	—
	Outrigger extending and retracting time	Outrigger beams	Retracting	s	≤35	—
			Extending	s	≤40	—
		Outrigger jacks	Retracting	s	≤40	—
			Extending	s	≤55	—
	Lifting speed (single line, 4th layer, no load	Main winch		m/min (fpm)	≥145 (475.7)	—
		Auxiliary winch		m/min (fpm)	≥90 (295.3)	—

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 Sngle
	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

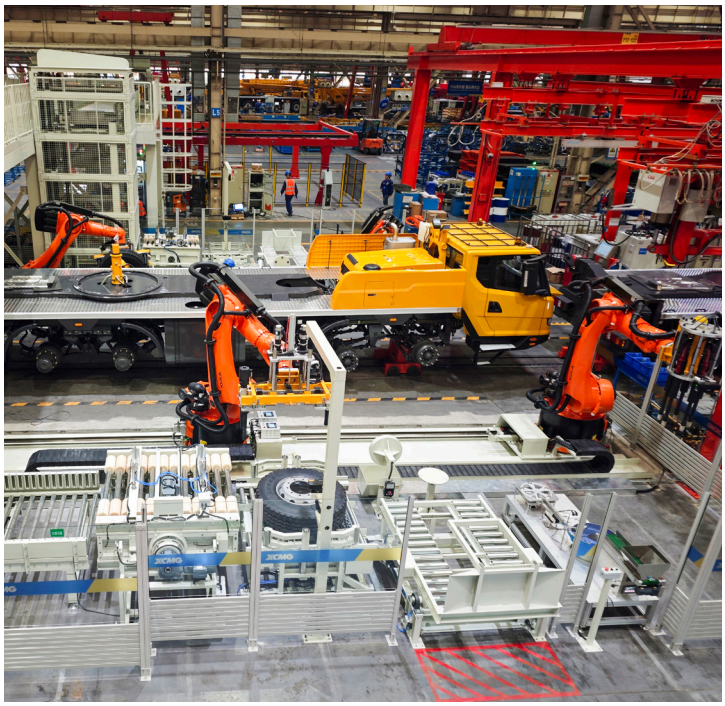
	Maximum Single Line Pull
	Maximum Working Speed
	Main Winch
	Auxiliary Winch
	Chassis
	Outrigger Span
	Tires
	Axle Load
	Gradeability
	Travel Speed
	Luffing
	EN 13000 Standard

	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
	Crane on Tires

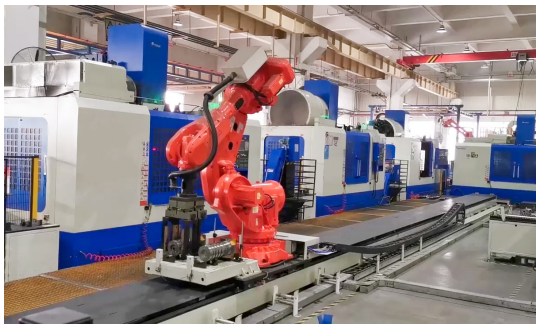
CONSISTENT, SAFE, AND RELIABLE MACHINES

ENGINEERED AND BUILT FOR QUALITY

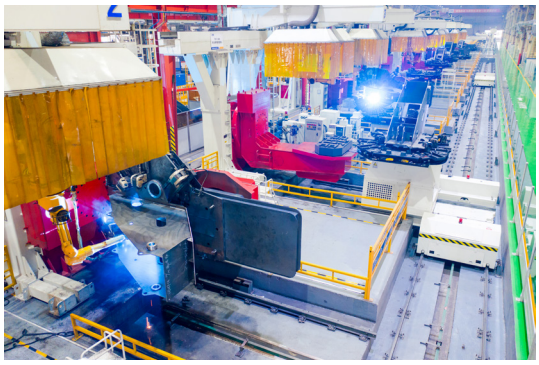
- Every XCMG crane starts as a digital model and stays digitally controlled through every step of production. From robotic welding to automated painting, the manufacturing process is built to deliver consistent quality at every stage.



ROBOTIC ASSEMBLY

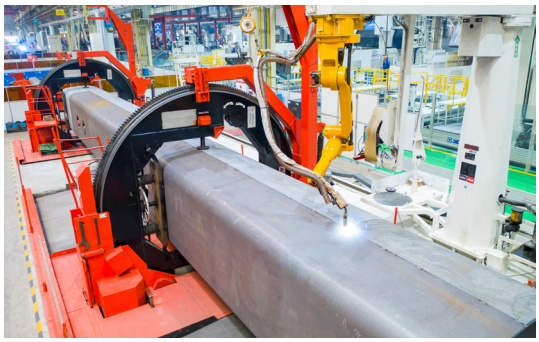


ROBOTIC WELDING



AUTOMATED PRODUCTION LINE

AUTOMATED PAINT SYSTEM



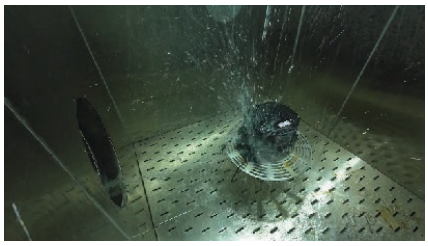
UNMANNED AUTOMATIC WELDING

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.

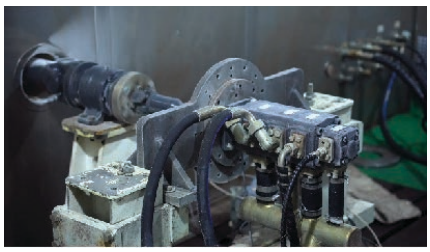
OVER 2,000 COMPONENTS FROM 123 MANUFACTURERS UNDERGOING LIFECYCLE TESTING

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

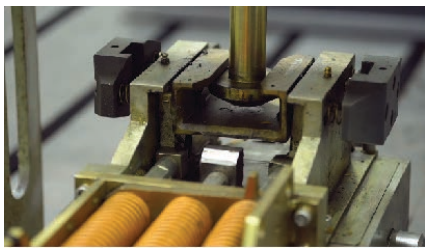


LENGTH MEASUREMENT SENSOR: 48-HOUR RAIN TEST

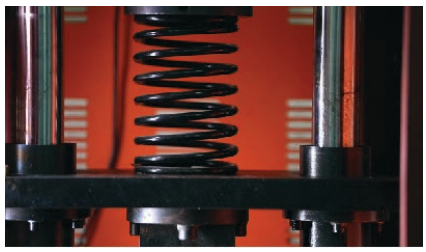
PANEL BUTTONS: CYCLED 12 MILLION TIMES



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 shown in the load charts reflect maximum lifting capacity when the crane is set up on firm, level ground with the tires clear of the ground. The weight of the hook block, rigging, and rope between the boom tip and block must be deducted, along with any optional equipment such as the auxiliary sheave and jib.
- The working radius shown in the load charts is measured at the point when the load is lifted off the ground, and reflects the actual value including loaded boom deflection. The operator must account for boom deflection before beginning any lift.
- Lifting operations are only permitted when wind speed is below 46.2 ft/s and wind pressure is below 2.59 lb/ft².
- Before beginning a lift, the operator must know the weight of the load and the crane's working range, then select the appropriate working conditions. Never operate the crane beyond the limits shown in the chart. When the boom length or working radius falls between listed values, use the lower of the two. Always observe boom angle limits. Never exceed the recommended boom angle, even without a load, as doing so risks overturn.
- The boom must be extended according to the telescoping codes shown on the load charts.

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American Crane Products

XCMG North America