



RT60XL

RT60XL PRODUCT GUIDE

Complies with ANSI B30.5

Rough Terrain Crane

60 U.S. ton (55 metric ton) capacity
141.1' (43 m) main boom
33' - 56' (10 - 17 m) jib



RT60XL

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RT60XL ROUGH TERRAIN CRANE

FEATURES



Formed boom made with high-yield steel which reduces the operating weight of the boom and maximizes performance.

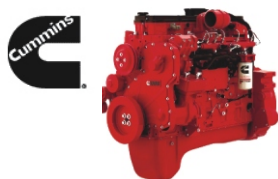
KESSLER•CO

We chose the Kessler Co. brand axle because Kessler Co. offers the most reliable product on the market and has years of experience in manufacturing mobile crane axles.



Full-vision operator cab is designed for maximum comfort and ease of operation.

The Dana 13.5HR 32662 transmission offers the latest technology for the diverse needs of off-road cranes.



The Cummins QSB 6.7 diesel engine is TIER-III compliant and is proven to have superior performance and durability.

Greer RCI 777 LMI (load moment indicator) delivers the industry's most reliable electronic monitoring system available.



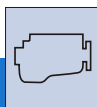
STANDARD EQUIPMENT

- Formed boom
- Offsettable jib 0° - 20° - 40°
- Auxiliary winch
- Cameras
- Auxiliary lifting sheave
- 60 U.S. ton (55 ton) hook block
- 6.7 U.S. ton (6.1 ton) hook ball
- Rotation-resistant wire rope
- Deluxe tilt seat
- Air conditioner / Heater
- Work light package: boom, cab and super structure
- Revolving amber light
- AM/FM radio
- Battery disconnect switch
- Front and rear lift lugs

ANSI & CE Standard

**RT60XL ROUGH TERRAIN CRANE****KEY / SYMBOLS**

	Engine	p4		Load Moment Indicator (LMI)	p5
	Transmission	p4		Max. boom length with jib ext.	p5
	Axles	p4		Main boom	p6
	Steering	p4		Main and auxiliary winches	p6
	Gradeability	p4		Cameras	p6
	Brakes	p4		Hook block	p6
	Tires and wheels	p4		Hook ball	p6
	Outrigger system (100%, 50%, 0% extended)	p4		Crane with counterweight	p7
	Hydraulic system	p5		Side-stowed jib	p7
	Operator cab	p5		Distance from the hook to the head	p8
	Counterweight	p5		Tip height	p9
	Swing	p5		Working radius	p9

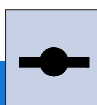
**RT60XL ROUGH TERRAIN CRANE****TECHNICAL DESCRIPTION****ENGINE**

Cummins QSB 6.7 Inline 6 cylinder
intercooled turbo diesel.
Kilowatts Hp (kW) 215 (160) @ 2500 rpm.
Peak torque ft. lb. (Nm) 655 (888) @ 1500 rpm.
80 gallon (303 L) fuel tank capacity.

USA Federal EPA / California ARB / European EU / Tier III
emission rating.

**TRANSMISSION**

Dana powershift transmission - 6 speeds forward and
6 speeds reverse.
Front axle disconnect offering both 4x4 and 4x2 operation.
Max. speed 25.7 mph (41.4 km/hr).

**AXLES**

Kessler front and rear steering axles with planetary
reduction.

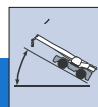
Front - Rigid mount.

Rear - Full-floating rear axle. Automatic rear axle
oscillating lock occurs when superstructure is swung 10°
from centerline in either direction.

**STEERING**

Power steering with four independent modes:

Front-Wheel
Rear-Wheel
All-Wheel
Crab

**GRADEABILITY**

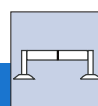
149% max. gradeability in 1st gear 4x4.
5.2% max. gradeability in 6th gear 4x2.

**BRAKES**

18.5 inches (470 mm) diameter disc brakes on all wheels
hydraulically operated.

**TIRES AND WHEELS**

26.5 x 25 - 32 ply rating, earthmoving-style tires. Steel
disc wheels.

**OUTRIGGER SYSTEM**

Four independent horizontal beams and vertical jacks with
integral holding valves, each independently controlled from
operator cab.

100% - Fully extended outriggers

footprint 512.5 sq. ft. (47.6 sq. m).

50% - Mid position outriggers

footprint 358.7 sq. ft. (33.32 sq. m).

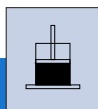
0% - Fully retracted outriggers

footprint 205 sq. ft. (19 sq. m).

Pontoon diameter 2.0 ft. (0.6 m).

Total floating ground bearing area 12.2 sq. ft.
(1.1 sq. m).

Outrigger span Length 22.8 ft. (6.9 m).
Width 22.8 ft. (6.9 m).

**RT60XL ROUGH TERRAIN CRANE****TECHNICAL DESCRIPTION****HYDRAULIC SYSTEM**

PERMCO hydraulic pumps:

Gear pump for main and auxiliary winches, boom hoist and telescope cylinders.

Gear pump for steering.

Gear pump for outriggers and slewing.

185 gallon (700 L) hydraulic reservoir with external sight and temperature gauge.

Easily accessible (10 micron) cartridge-style full-flow filters with bypass protection.

Max. operating pressure: 28MPa (4060 psi, 279.9 bar).

**OPERATOR CAB**

Full-vision operator cab designed for maximum comfort. All steel fabrication with acoustical lining and tinted safety glass throughout. The cab has a sliding door on the left and a sliding window on the right with a swing-up skylight with retractable shade and wiper motor. Fully adjustable deluxe seat with tilt. Foot controls for boom telescope, service brake and engine throttle. Tilt steering.

Temperature control is provided by a hydraulically driven air conditioning unit. Easy view dashboard with gauges for all engine sensors and rocker switch outrigger controls. Standard amenities also include bubble level, dome light, left-side rearview mirror, seat belt, travel swing lock and signal horn.

**COUNTERWEIGHT**

Single 15,430 lbs. (7,000 kg) fixed counterweight.

Length 8.5 ft. (2.6 m).

Width 1.9 ft. (0.6 m).

Height 2.3 ft. (0.7 m).

**SWING**

Bi-directional hydraulic swing drive with multi-disc wet brake and planetary reduction gearbox. Spring-applied hydraulically released swing brake and 360° pneumatic positive swing lock.

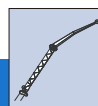
Max. swing speed: 2.5 rpm.

**LOAD MOMENT INDICATOR (LMI)**

GREER RCI 777 LMI control system. Microguard graphic display load moment and anti-two block system with audio-visual warning and function limiter.

System displays the following information: crane configuration, boom length, boom angle, load radius, allowed capacity, actual load, and load percentage of allowed capacity.

System includes settable work parameters: min./max. boom length, min./max. boom angle, defined swing area.

**MAX. BOOM LENGTH WITH JIB EXTENSION**

33-56 ft. (10-17 m) jib consisting of 33 ft. (10 m) lattice side stow jib and 23 ft. (7 m) manual pull out section. Main jib is offsettable at 0° - 20° and 40°.

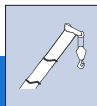
Max. tip height with 33 ft. (10 m) jib erected is 182.6 ft. (55.7 m).

Max. tip height with 33 ft. (10 m) jib + 23 ft. (7 m) fixed pullout extension is 201.5 ft. (61.4 m).



RT60XL ROUGH TERRAIN CRANE

TECHNICAL DESCRIPTION



MAIN BOOM

Four-section, full-power, synchronized boom. Boom is constructed of high-yield steel. 5 sheave quick reeve boom tip with removable rope guards. Rope termination lugs on both sides of boom head. Auxiliary lifting sheave and manual angle indicator are included.

Fully extended boom length: 141.1 ft. (43 m).

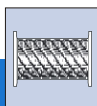
Fully retracted boom length: 35 ft. (11 m).

Max. tip height, main boom: 143.8 ft. (43.8 m).

Boom angle range (min./max.) -3° / $+78^{\circ}$.

Boom raising / lowering time 56 sec. / 63 sec.

Boom extension / retraction time 100 sec. / 80 sec.



MAIN AND AUXILIARY WINCHES

Standard two speed main and auxiliary hoists, each with planetary reduction and spring applied multi-disc wet brake.

Each hoist features:

Grooved drum lagging.

Hoist drum cable followers.

Max. permissible line pull: 15,432 lbs. (7,000 kg).

Winch speed: 0 - 492 fpm. (0 - 150 m/min).

Power up / power down.

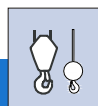
Electronic drum rotation indicators.

Rope construction: 0.75 in. (19 mm) rotation-resistant compacted strand.



CAMERAS

The crane comes equipped with two cameras—a winch camera for viewing hoist operation and a rear camera for viewing the rear of the crane. The monitor is located in the cab, and one can easily toggle between both camera views.



HOOK BLOCK AND HOOK BALL

60 U.S. ton (55-ton), 5 sheave (steel), standard reeve hook block with odd part pin-off and safety latch.

Hook block weight 1,433 lbs. (650 kg).

6.7 U.S. ton (6.1-ton) top swivel hook ball with safety latch.

Hook ball weight 265 lbs. (120 kg).

**RT60XL ROUGH TERRAIN CRANE****CRANE AND COMPONENT WEIGHTS**

CRANE OPERATING WEIGHTS						
Gross Vehicle Weight		Front Axle Load		Rear Axle Load		
	lb	kg	lb	kg	lb	kg
 Crane with cwt.	95,424	43,284	49,260	22,344	46,164	20,940

DEDUCTIONS FOR LOAD HANDLING					
	lb	kg		lb	kg
 Jib stowed aside boom	2,099	952	 5 sheave 60-ton hook block	1,433	650
 Auxiliary head	121	55	 6.7-ton hook ball	265	120

TURNING RADIUS

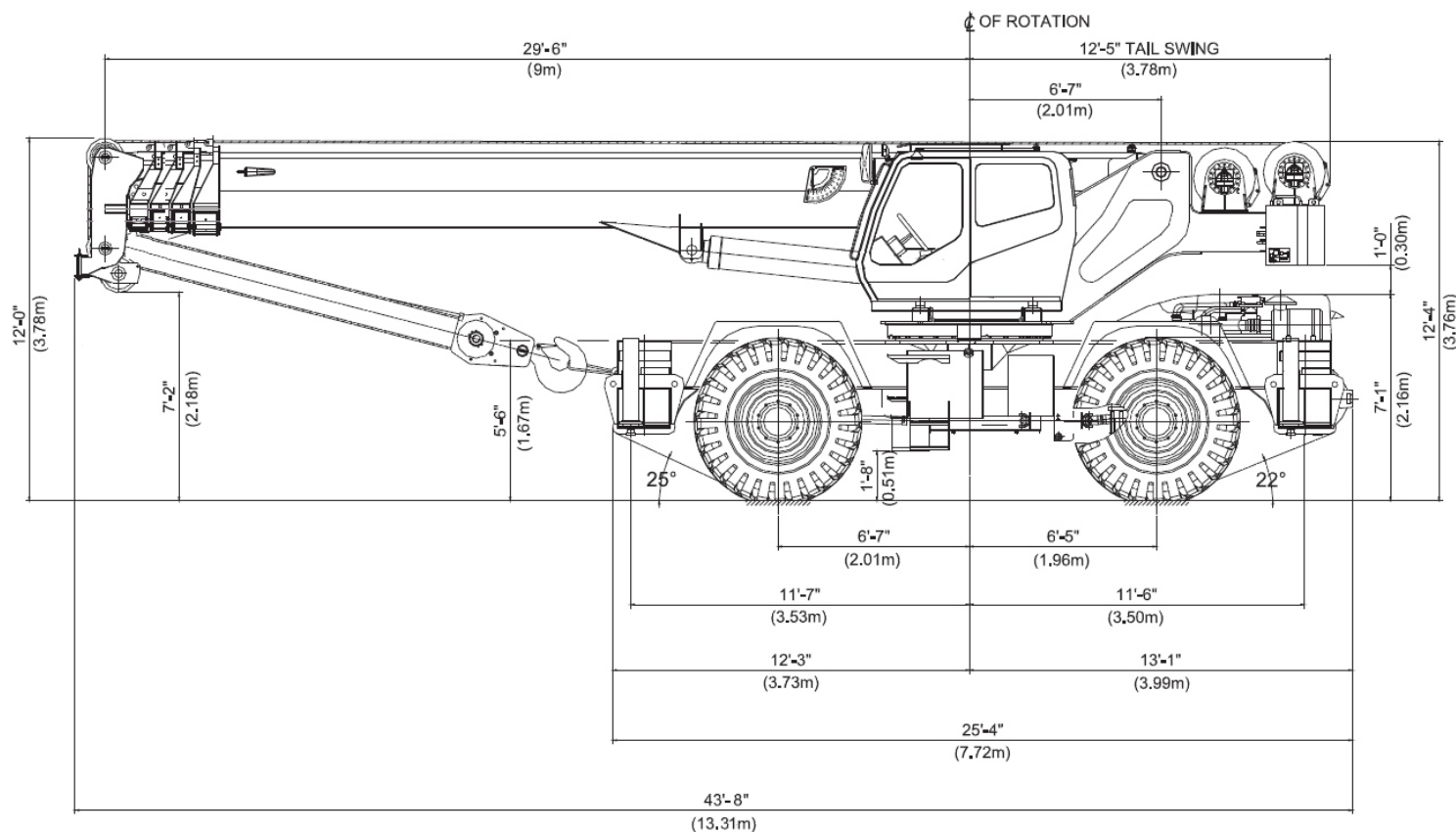
Front Wheel (4x2) Steering	Imperial	Metric
Wall to wall over boom attached	51.5 ft.	15.7 m
Wall to wall over carrier	43 ft.	13.1 m
Curb to curb	40.4 ft.	12.3 m
All Wheel (4x4) Steering	Imperial	Metric
Wall to wall over boom attached	36.4 ft.	11.1 m
Wall to wall over carrier	26.6 ft.	8.1 m
Curb to curb	23.9 ft.	7.3 m
Tail Swing	Imperial	Metric
With counterweight	12.4 ft.	3.78 m



RT60XL ROUGH TERRAIN CRANE



CRANE DIMENSIONS

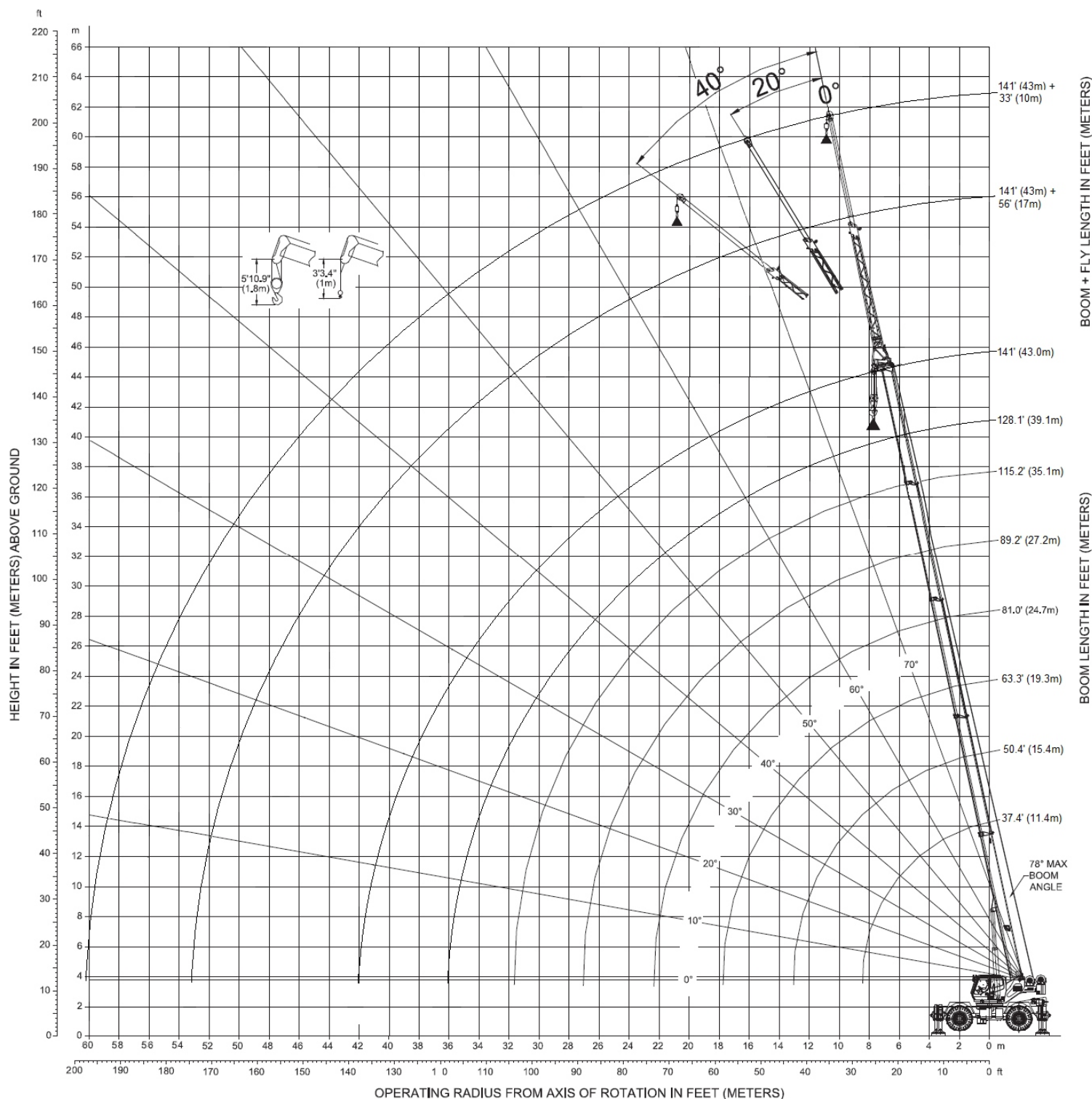




RT60XL ROUGH TERRAIN CRANE



WORKING RANGE DIAGRAM



ACTUAL BOOM AND JIB LENGTHS ARE METRIC. THE FIGURES SHOWN ABOVE ARE APPROXIMATE CONVERSIONS TO FEET.

**RT60XL ROUGH TERRAIN CRANE**

 FULLY EXTENDED OUTRIGGERS - MAIN BOOM CAPACITY 11,000 lbs. ctwt. 22.6 ft. x 22.6 ft. ANSI B30.5 85%								
BOOM LENGTH IN FEET - CAPACITY LISTED IN POUNDS								
RADIUS	37.4	50.4	63.3	89.2	115.2	128.1	141.1	RADIUS
FT.								FT.
9.8	121254	99208	77162					9.8
11.5	112766	99208	77162					11.5
13.1	103948	94115	77162					13.1
14.8	94358	87942	72642					14.8
16.4	86201	82541	68233	45393				16.4
18.0	79146	78088	64265	45393				18.0
19.7	72929	72069	60737	45393				19.7
21.3	67572	66668	57541	43299	29961			21.3
23.0	63140	61818	54675	41425	29961			23.0
24.6	58555	57651	52029	39771	29961	22355		24.6
26.2	52911	51456	49604	38228	29961	22355	20260	26.2
29.5	41800	40543	39595	35362	28307	22355	20260	29.5
36.1		27249	31129	28748	25331	19709	18056	36.1
39.4		22862	26764	24361	23898	18607	17064	39.4
45.9			20481	19158	19026	16623	15521	45.9
52.5			16028	16931	14727	14969	14088	52.5
59.1				13713	12765	13007	12103	59.1
65.6				11266	11552	10604	9766	65.6
72.2				9348	9678	8730	7915	72.2
78.7				7804	8157	7231	6415	78.7
85.3					6900	5997	5203	85.3
91.9					5842	4938	4189	91.9
98.4					4938	4079	3329	98.4
105.0					4167	3307	2579	105.0
111.5						2668		111.5

LIFTING CAPACITY NOTES:

Rated lifting capacities shown do not exceed 85% of the tipping loads. The weight of the hook block, hook ball and any additional auxiliary lifting devices are not calculated into the rated lifting capacity and must be deducted prior to operation.

**RT60XL ROUGH TERRAIN CRANE**

 MID POSITION OUTRIGGERS - MAIN BOOM CAPACITY 11,000 lbs. cwt. 15.8 ft. x 22.6 ft. ANSI B30.5 85%								
BOOM LENGTH IN FEET - CAPACITY LISTED IN POUNDS								
RADIUS	37.4	50.4	63.3	89.2	115.2	128.1	141.1	RADIUS
FT.								FT.
9.8	112546	99208	77162					9.8
11.5	99980	99076	77162					11.5
13.1	89618	88604	77162					13.1
14.8	80910	79895	72642					14.8
16.4	73524	72510	68233	45393				16.4
18.0	62545	60892	59591	45393				18.0
19.7	52712	51213	50023	45393				19.7
21.3	45283	43894	46495	43299	29961			21.3
23.0	39485	38184	42196	39308	29961			23.0
24.6	34833	33598	37434	34723	29961	22355		24.6
26.2	30997	29740	33510	30953	29961	22355	20260	26.2
29.5	24934	23722	28087	25022	25882	22355	20260	29.5
32.8		19290	23060	23744	21451	21032	19158	32.8
36.1		15873	19643	20349	19158	19467	18056	36.1
39.4		13162	16843	17637	17857	16733	15741	39.4
45.9			12677	13492	13735	12677	11751	45.9
52.5			9722	10538	10825	9811	8929	52.5
59.1				8333	8642	7672	6834	59.1
65.6				6658	6967	6041	5225	65.6
72.2				5313	5622	4718	3946	72.2
78.7				4211	4542	3660	2888	78.7
85.3					3638	2778		85.3
91.9					2888			91.9

LIFTING CAPACITY NOTES:

Rated lifting capacities shown do not exceed 85% of the tipping loads. The weight of the hook block, hook ball and any additional auxiliary lifting devices are not calculated into the rated lifting capacity and must be deducted prior to operation.

**RT60XL ROUGH TERRAIN CRANE**

 FULLY RETRACTED OUTRIGGERS - MAIN BOOM CAPACITY 11,000 lbs. ctwt. 9 ft. x 22.6 ft. ANSI B30.5 85%								
BOOM LENGTH IN FEET - CAPACITY LISTED IN POUNDS								
RADIUS	37.4	50.4	63.3	89.2	115.2	128.1	141.1	RADIUS
FT.								FT.
9.8	90301	87391	77162					9.8
11.5	66513	64684	63162					11.5
13.1	52272	50684	55160					13.1
14.8	42615	41182	45283					14.8
16.4	35649	34348	38162	35208				16.4
18.0	30380	29123	32761	33334				18.0
19.7	26257	24912	28550	29123				19.7
21.3	22818	21517	25177	25728	23898			21.3
23.0	19974	18739	22377	22950	22994			23.0
24.6	17593	16402	20062	20635	20701	19621		24.6
26.2	15565	14418	18056	18673	18739	17615	16513	26.2
29.5	12280	11199	14749	15432	15565	14396	13360	29.5
32.8		8730	12192	12897	13051	11927	10935	32.8
36.1		6768	10163	10869	11045	9965	9039	36.1
39.4		5181	8510	9237	9436	8378	7474	39.4
45.9			5997	6746	6967	5975	5093	45.9
52.5			4145	4916	5159	4211	3395	52.5
59.1				3527	3792	2888		59.1

**RT60XL ROUGH TERRAIN CRANE**

	ON TIRES BOOM CENTERED			OVER FRONT
	11,000 lbs. cwt.	ANSI B30.5	75%	
	BOOM LENGTH IN FEET - CAPACITY LISTED IN POUNDS			
RADIUS	37.4	50.4	63.3	RADIUS
FT.				FT.
9.8	44974	43872	46517	9.8
11.5	39705	38691	41359	11.5
13.1	35296	34282	37060	13.1
14.8	31658	30688	33356	14.8
16.4	28550	27514	30291	16.4
18.0	25772	24868	27646	18.0
19.7	23457	22443	25309	19.7
21.3	21385	20415	23215	21.3
23.0	19511	18541	21385	23.0
24.6	17902	16887	19842	24.6
26.2	16424	15454	18298	26.2
29.5	13867	12875	15873	29.5
32.8		10825	13801	32.8
36.1		9039	12037	36.1
39.4		7540	10494	39.4
45.9			8091	45.9
52.5			6129	52.5

**RT60XL ROUGH TERRAIN CRANE**

	11,000 lbs. cwt.	360° ON TIRES ANSI B30.5		75%	360°
BOOM LENGTH IN FEET - CAPACITY LISTED IN POUNDS					
RADIUS	37.4	50.4	63.3	RADIUS	
FT.					FT.
9.8	46297	45503	48347	9.8	
11.5	39793	38581	41888	11.5	
13.1	34546	33334	36685	13.1	
14.8	30291	29123	32452	14.8	
16.4	26808	25640	28925	16.4	
18.0	23766	22686	25882	18.0	
19.7	21275	20062	23369	19.7	
21.3	19026	17879	21164	21.3	
23.0	17130	16006	19224	23.0	
24.6	15410	14352	17571	24.6	
26.2	13933	12787	16072	26.2	
29.5	11244	10296	13580	29.5	
32.8		8047	11464	32.8	
36.1		6173	9524	36.1	
39.4		4630	7959	39.4	
45.9			5534	45.9	
52.5			3770	52.5	



RT60XL ROUGH TERRAIN CRANE

 JIB CAPACITY AT RADIUS ANSI B30.5 33ft. (10m) 85%							
	0° OFFSET		20° OFFSET		40° OFFSET		
Boom Angle (°)	Load Radius (ft.)	Capacity (lb.)	Load Radius (ft.)	Capacity (lb.)	Load Radius (ft.)	Capacity (lb.)	Boom Angle (°)
78	29.6	11332	39.0	6261	46.5	4608	78
76	35.5	10450	44.8	6041	52.1	4497	76
74	41.4	9678	50.5	5820	57.5	4387	74
72	47.2	9017	56.1	5600	62.9	4277	72
70	52.9	8466	61.7	5379	68.2	4167	70
68	58.6	8025	67.2	5159	73.4	4057	68
66	64.2	7584	72.6	5049	78.5	4057	66
64	69.7	7143	77.9	4938	83.6	3946	64
62	75.1	6812	83.1	4718	88.5	3946	62
60	80.4	6482	88.2	4608	93.2	3836	60
58	85.6	5600	93.1	4497	97.9	3836	58
56	90.7	4828	98.0	4387	102.4	3836	56
54	95.7	4167	102.7	3836	106.8	3638	54
52	100.5	3594	107.3	3329	111.1	3175	52
50	105.2	3086	111.7	2888	115.2	2756	50
48	109.8	2646	116.0	2491	119.2	2381	48
46	114.2	2271	120.2	2138	123.0	2050	46
44	118.5	1918	124.2	1808	126.7	1742	44

**RT60XL ROUGH TERRAIN CRANE**

 JIB CAPACITY AT RADIUS ANSI B30.5							
56ft. (17m)							85%
0° OFFSET			20° OFFSET		40° OFFSET		
Boom Angle (°)	Load Radius (ft.)	Capacity (lb.)	Load Radius (ft.)	Capacity (lb.)	Load Radius (ft.)	Capacity (lb.)	Boom Angle (°)
78	34.4	5820	51.2	3064	64.6	2293	78
76	41.1	5269	57.6	2954	70.6	2183	76
74	47.7	4938	64.0	2844	76.6	2183	74
72	54.3	4608	70.3	2734	82.4	2072	72
70	60.8	4277	76.5	2623	88.1	2072	70
68	67.2	4057	82.5	2623	93.7	2072	68
66	73.5	3836	88.5	2513	99.2	1962	66
64	79.7	3616	94.4	2403	104.5	1962	64
62	85.9	3395	100.1	2403	109.7	1962	62
60	91.9	3285	105.7	2293	114.8	1962	60
58	97.8	3064	111.2	2293	119.7	1962	58
56	103.5	2954	116.6	2183	124.5	1852	56
54	109.1	2844	121.7	2183	129.1	1852	54
52	114.6	2734	126.8	2072	133.5	1852	52
50	120.0	2601	131.6	2072	137.8	1852	50
48	125.2	2227	136.3	2006	141.9	1852	48
46	130.2	1896	140.8	1720	145.8	1609	46
44	135.0	1587	145.2	1455	149.6	1367	44



RT60XL ROUGH TERRAIN CRANE

LOCATIONS



Global Equipment is the Exclusive Worldwide Distributor for Zoomlion Rough Terrain Cranes and all prices and availability will be negotiated with Global Equipment.



HEADQUARTERS

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