



RT60

RT60 PRODUCT GUIDE

Complies with ANSI B30.5

Rough Terrain Crane

60 ton lift capacity (55 metric ton)

111.5' main boom (34 m)

33' - 56' jib (10 - 17 m)



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RT60 ROUGH TERRAIN CRANE

FEATURES



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

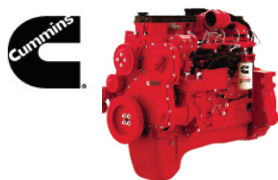
KESSLER•CO

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.

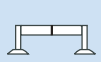
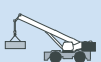


STANDARD EQUIPMENT

- Formed boom
- Offsettable jib 0° - 20° - 40°
- Auxiliary winch
- Cameras
- Auxiliary lifting sheave
- 60 ton hook block
- 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 certified

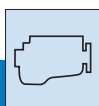
**RT60 ROUGH TERRAIN CRANE****KEY / SYMBOLS**

	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



RT60 ROUGH TERRAIN CRANE

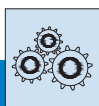
TECHNICAL DESCRIPTION



ENGINE

Cummins QSB 6.7 Inline 6 cylinder intercooled turbo diesel.
 Horsepower 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

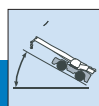
Power steering with four independent modes.

Front-Wheel

Rear-Wheel

All-Wheel

Crab



GRADEABILITY

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



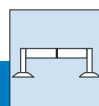
BRAKES

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).

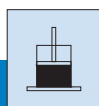
0% - Fully retracted outriggers

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

Light-weight aluminum, quick-release outrigger pontoons.

Floating ground bearing area 23.6" diameter (0.6 m) (558 sq. in.) (0.36 sq. m).

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

**RT60 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 max. 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 11,000 lb. (5000 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.

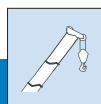
System includes settable work parameters: min./max. boom length, min./max. boom angle, defined swing area.

**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 153 ft. (46.6 m).

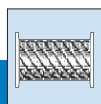
Max. tip height with 33 ft. (10 m) jib + 23 ft. (7 m) fixed pullout extension is 171.9 ft. (52.4 m).

**RT60 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: 111.5 ft. (34 m).
 Fully retracted boom length: 35 ft. (11 m).
 Max. tip height, main boom: 114.2 ft. (34.8 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-disk wet brake.

Each hoist features:

Grooved drum lagging.

Hoist drum cable followers.

Max. permissible line pull: 15,432 lbs. (7000 kg).

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

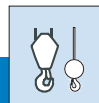
Power up / power down.

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

Hook block weight 1433 lbs. (650 kg).

6.1 ton top swivel hook ball with safety latch.

Hook ball weight 265 lbs. (120 kg).

**RT60 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.	86,240	39,200	45,062	20,440	41,358	18,760

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	 6.1 ton hook ball	265	120

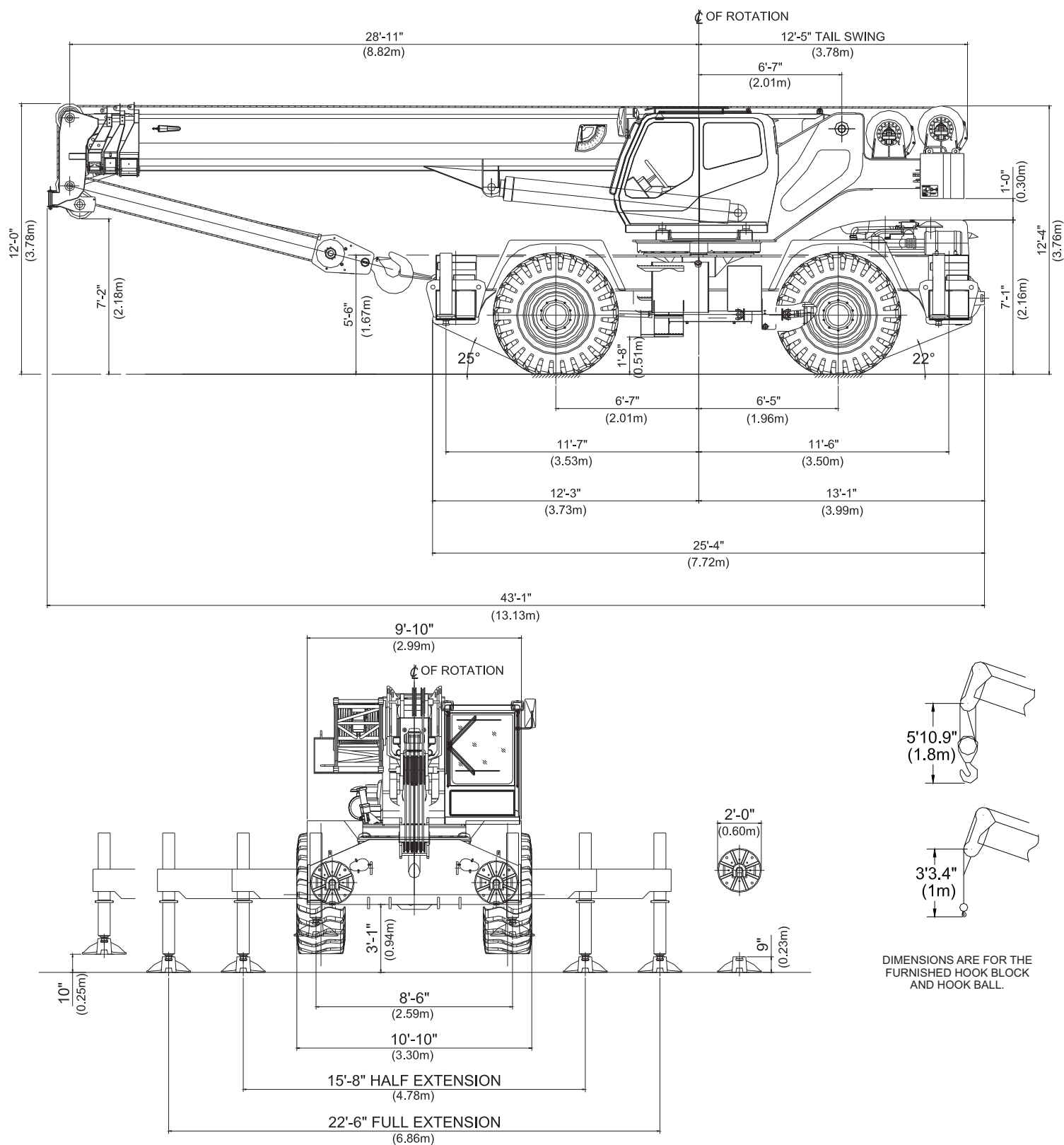
TURNING RADIUS

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



RT60 ROUGH TERRAIN CRANE

CRANE DIMENSIONS

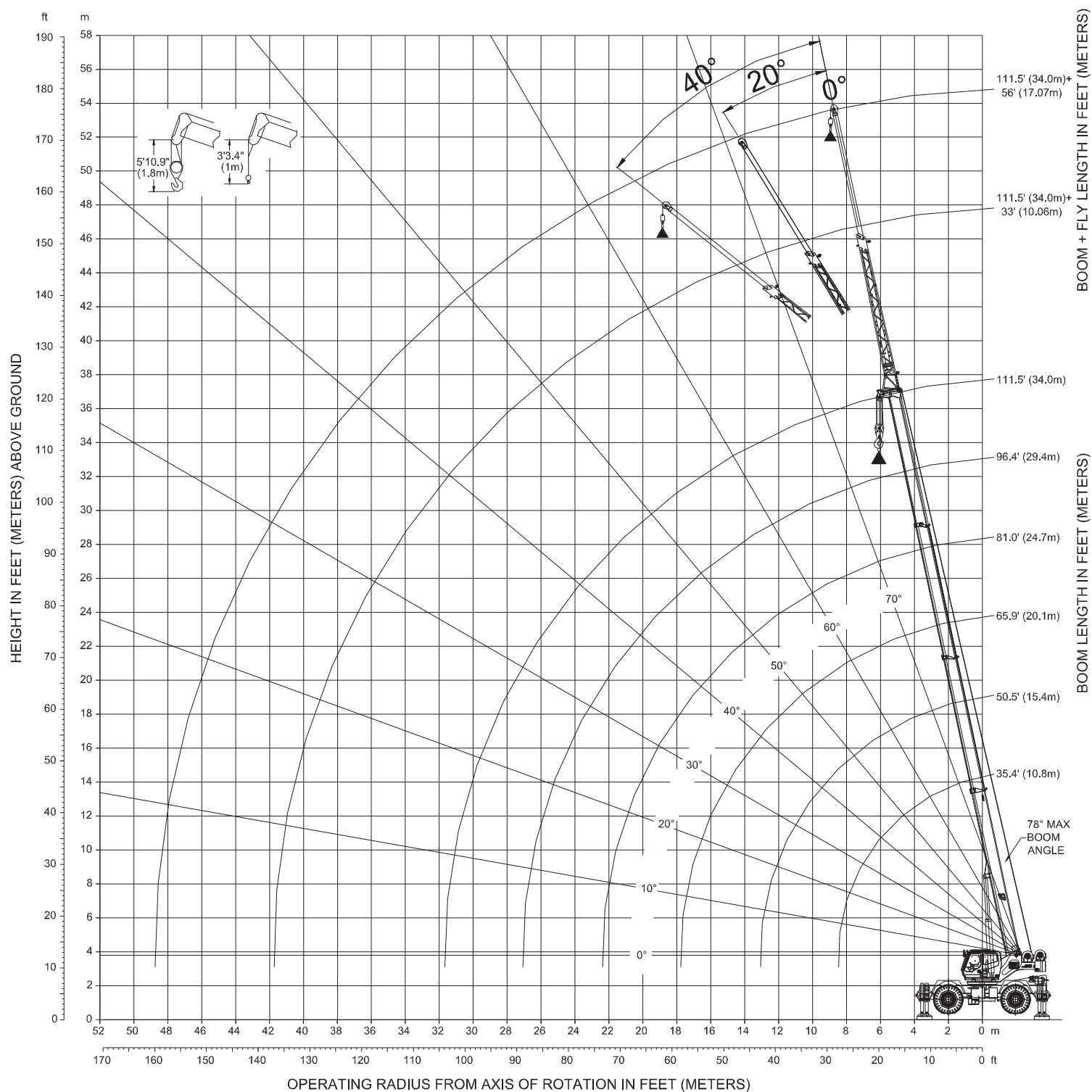




RT60 ROUGH TERRAIN CRANE



WORKING RANGE DIAGRAM



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

**RT60 ROUGH TERRAIN CRANE**

 FULLY EXTENDED OUTRIGGERS - MAIN BOOM CAPACITY 11,000 lbs. cwt. 22.6 ft. x 22.6 ft. ANSI B30.5 85%							
BOOM LENGTH IN FEET - CAPACITY LISTED IN POUNDS							
RADIUS	35	50.5	66	81	96	112	RADIUS
FT.							FT.
10	121000	60200					10
12	110110	60200					12
15	93830	60200	58190				15
20	71060	59400	51370	40810			20
25	52840	49720	43450	36520	31350		25
30	38380	38250	37290	31570	27610	23280	30
35		28750	29530	27610	24200	21120	35
40		22590	23260	23830	21450	18700	40
45		19110	18860	19370	19250	16720	45
50			15610	16070	16240	15070	50
55			13140	13530	13690	13640	55
60			11560	11520	11660	12060	60
65				9890	10020	10390	65
70				8570	8670	9010	70
75				7640	7540	7850	75
80					6580	6860	80
85					5780	6000	85
90					5220	5260	90
95						4620	95
100						4060	100
105						3600	105

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.

**RT60 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	35	50.5	66	81	96	112	RADIUS
FT.							FT.
10	112530	60200					10
12	96360	60200					12
15	78320	60200	58190				15
20	46530	48300	49530	40810			20
25	30540	32020	32890	33590	31350		25
30	23520	23140	23900	24520	24270	23280	30
35		17560	18250	18810	18990	19510	35
40		13770	14370	14880	15050	15530	40
45			11550	12020	12180	12630	45
50			9240	9840	10000	10420	50
55			7770	8140	8280	8680	55
60				6770	6900	7280	60
65				5650	5770	6120	65
70				4740	4830	5160	70
75					4040	4340	75
80					3370	3630	80
85					2810	3030	85
90						2500	90

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.

**RT60 ROUGH TERRAIN CRANE**

 FULLY RETRACTED OUTRIGGERS - MAIN BOOM CAPACITY 11,000 lbs. cwt. 9 ft. x 22.6 ft. ANSI B30.5 85%							
BOOM LENGTH IN FEET - CAPACITY LISTED IN POUNDS							
RADIUS	35	50.5	66	81	96	112	RADIUS
FT.							FT.
10	76010	60200					10
12	53440	55430					12
15	35750	37370	38340				15
20	21540	22910	23720	24380			20
25	14310	15530	16260	16840	17020		25
30		11070	11730	12270	12440	12930	30
35		8100	8700	9200	9360	9820	35
40		6000	6540	7000	7160	7590	40
45			4930	5350	5500	5910	45
50			3680	4070	4220	4610	50
55			2720	3050	3190	3560	55



RT60 ROUGH TERRAIN CRANE

 11,000 lbs. ctwt.	ON TIRES BOOM CENTERED ANSI B30.5 75%				OVER FRONT
	BOOM LENGTH IN FEET - CAPACITY LISTED IN POUNDS				
RADIUS	35	51	66	81	RADIUS
FT.					FT.
10	59290	60170			10
12	51470	52360			12
15	42530	43510	44020		15
20	32280	33220	33820	34270	20
25	22500	23680	24390	24960	25
30	17480	17290	17920	18430	30
35		13170	13730	14200	35
40		10310	10810	11240	40
45		8680	8660	9060	45
50			7030	7380	50
55			5750	6060	55
60			4970	4990	60
65				4120	65

**RT60 ROUGH TERRAIN CRANE**

	11,000 lbs. cwt.	360° ON TIRES ANSI B30.5		75%	360°
BOOM LENGTH IN FEET - CAPACITY LISTED IN POUNDS					
RADIUS	35	51	66	81	RADIUS
FT.					FT.
10	37620	38720			10
12	31160	32270			12
15	24080	25260	25950		15
20	16540	17610	18270	18790	20
25	11320	12470	13160	13720	25
30	8200	8410	9040	9560	30
35		5700	6270	6750	35
40		3790	4290	4740	40
45		2720	2810	3220	45
50			1670	2040	50
55				1110	55



RT60 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 (°)
76	28	12100	37	6270	44	4290	76
74	33	11110	42	5940	49	4180	74
72	38	10120	47	5610	53	4070	72
70	42	9240	51	5390	58	3960	70
68	47	8470	56	5170	62	3850	68
66	52	7700	60	4950	66	3740	66
64	56	7040	64	4730	70	3740	64
62	61	6380	69	4510	74	3630	62
60	65	5940	73	4400	78	3520	60
58	69	5500	77	4290	82	3520	58
56	74	5060	81	4070	85	3410	56
54	78	4730	85	3960	89	3410	54
52	82	4400	89	3850	92	3410	52
50	86	4070	92	3630	96	3300	50
48	90	3850	96	3410	99	3190	48
46	93	3520	99	3190	102	3080	46
44	97	3300	102	3080	105	2970	44
42	100	3130	106	2860	108	2750	42
40	104	2850	109	2710	110	2640	40
38	107	2590	111	2480	113	2420	38

**RT60 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 (°)
76	33	6930	50	3410	63	2310	76
74	39	6160	55	3190	68	2200	74
72	45	5610	61	3080	73	2090	72
70	50	5060	66	2860	78	2090	70
68	56	4730	71	2750	82	1980	68
66	61	4290	76	2640	87	1980	66
64	66	4070	81	2530	91	1870	64
62	71	3740	86	2420	95	1870	62
60	77	3520	90	2310	100	1760	60
58	82	3300	95	2200	104	1760	58
56	87	3080	100	2090	107	1760	56
54	91	2970	104	2090	111	1650	54
52	96	2750	108	1980	115	1650	52
50	100	2640	112	1870	118	1650	50
48	105	2420	116	1870	122	1650	48
46	109	2200	120	1760	125	1650	46
44	113	2090	123	1760	128	1650	44
42	117	1870	127	1650	131	1540	42
40	121	1760	130	1540	133	1430	40
38	125	1650	133	1430	136	1430	38



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RT60 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.



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