



# RT55

## RT55 PRODUCT GUIDE

Complies with ANSI B30.5

### Rough Terrain Crane

55 metric ton (60 ton lift capacity)

34 m (111.5' main boom)

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



# RT55

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**FEATURES**



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



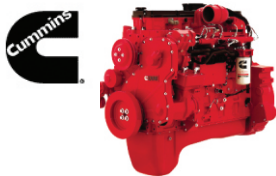
We chose the Kessler Co. brand axle because Kessler Co. offers the most reliable product on the market and has years of experience in manufacturing mobile crane axles.



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
- 55 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**

**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

## 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).



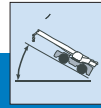
### AXLES

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.



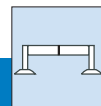
### BRAKES

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).

## 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).

**TECHNICAL DESCRIPTION**

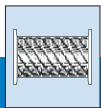


**MAIN BOOM**

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°.  
 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.

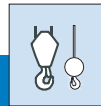
Electronic drum rotation indicators.

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**


55 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).

## CRANE AND COMPONENT WEIGHTS

CRANE OPERATING WEIGHTS						
 Crane with cwt.	Gross Vehicle Weight		Front Axle Load		Rear Axle Load	
	lb	kg	lb	kg	lb	kg
	86,240	39,200	45,062	20,440	41,358	18,760

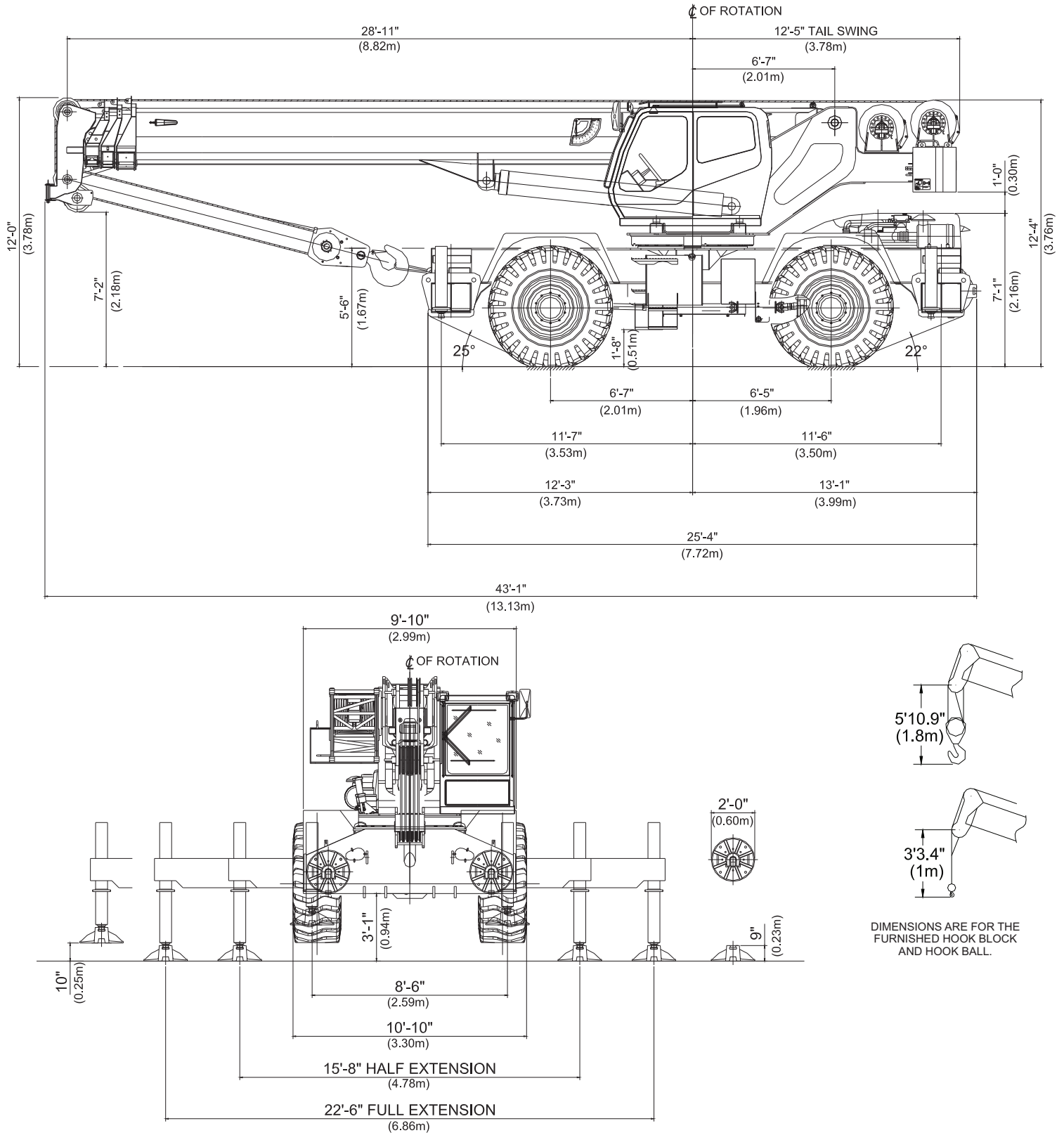
DEDUCTIONS FOR LOAD HANDLING					
 Jib stowed aside boom   Auxiliary head	lb	kg	 5 sheave 55 ton hook block   6.1 ton hook ball	lb	kg
		2,099		952	
	121	55		265	120

## 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

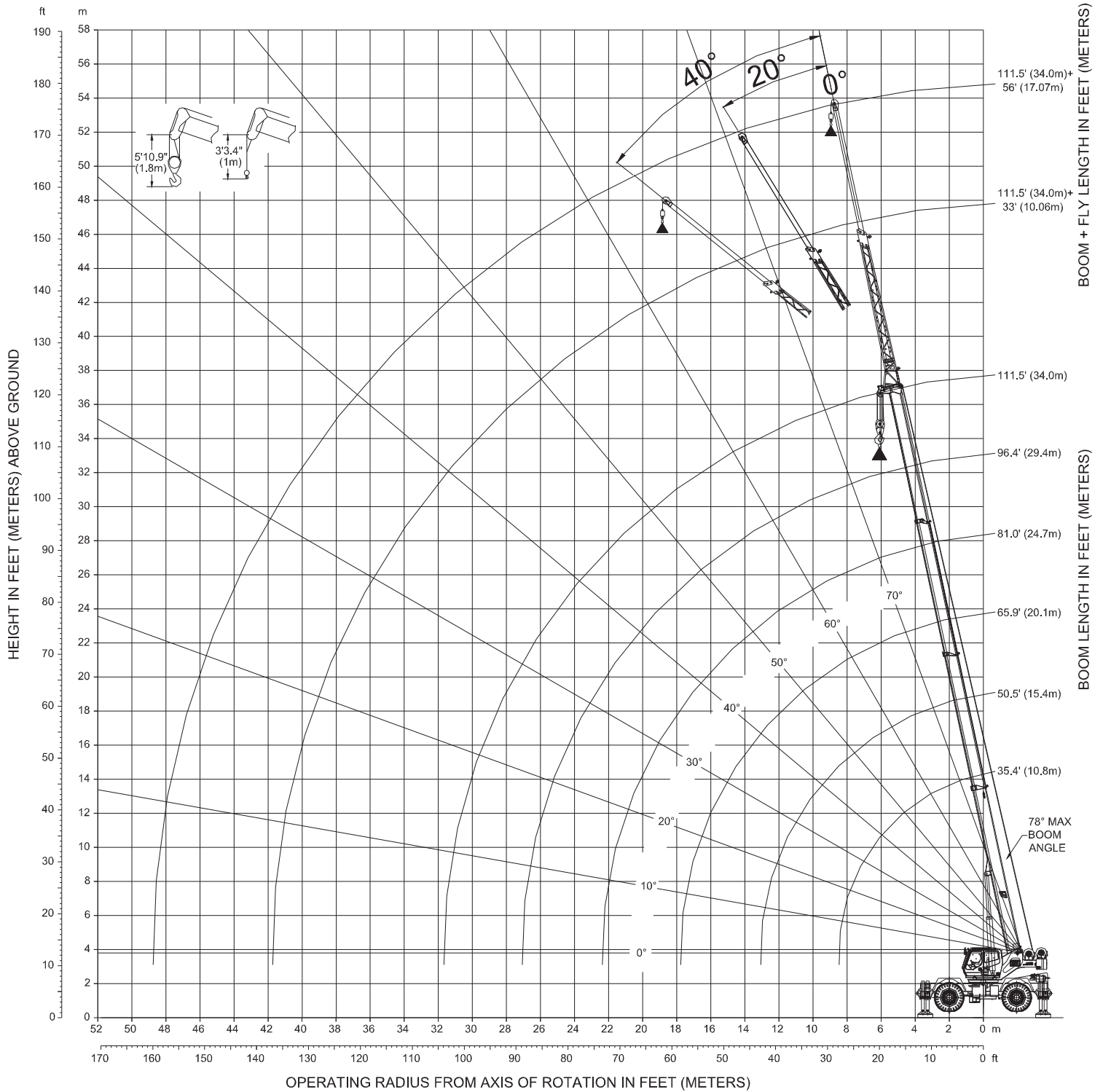


## CRANE DIMENSIONS






## WORKING RANGE DIAGRAM




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

 <b>FULLY EXTENDED OUTRIGGERS - MAIN BOOM CAPACITY</b> 5,000 kg. ctwt.      ANSI B30.5      85%      360°							
BOOM LENGTH IN METERS - CAPACITY LISTED IN KILOGRAMS							
RADIUS	10.8	15.4	20.1	24.7	29.3	34.1	RADIUS
M							M
3.0	54885	27306					3.0
3.7	49945	27306					3.7
4.6	42561	27306	26395				4.6
6.1	32232	26943	23301	18511			6.1
7.6	23968	22553	19709	16565	14220		7.6
9.1		17350	16914	14320	12524	10560	9.1
10.7		13041	13395	12524	10977	9580	10.7
12.2		10247	10551	10809	9730	8482	12.2
13.7		8668	8555	8786	8732	7584	13.7
15.2			7081	7289	7366	6836	15.2
16.8			5960	6137	6210	6187	16.8
18.3			5244	5225	5289	5470	18.3
19.8				4486	4545	4713	19.8
21.3				3887	3933	4087	21.3
22.9				3465	3420	3561	22.9
24.4					2985	3112	24.4
25.9					2622	2722	25.9
27.4					2368	2386	27.4
29.0						2096	29.0
30.5						1842	30.5
32.0						1633	32.0


## NOTES TO LIFTING CAPACITY

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.

 <b>MID POSITION OUTRIGGERS - MAIN BOOM CAPACITY</b>							
5,000 kg. ctwt.		ANSI B30.5			85%		360°
<b>BOOM LENGTH IN METERS - CAPACITY LISTED IN KILOGRAMS</b>							
RADIUS	11	15	20	25	29	34	RADIUS
M							M
3	51043	27306					3
4	43708	27306					4
5	35525	27306	26395				5
6	21106	21909	22466	18511			6
8	13853	14524	14919	15236	14220		8
9	10668	10496	10841	11122	11009	10560	9
11		7965	8278	8532	8614	8850	11
12		6246	6518	6749	6827	7044	12
14			5239	5452	5525	5729	14
15			4191	4463	4536	4726	15
17			3524	3692	3756	3937	17
18				3071	3130	3302	18
20				2563	2617	2776	20
21				2150	2191	2341	21
23					1833	1969	23
24					1529	1647	24
26					1275	1374	26
27						1134	27


**NOTES TO LIFTING CAPACITY**


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.

 <b>FULLY RETRACTED OUTRIGGERS - MAIN BOOM CAPACITY</b>							
5,000 kg. ctwt.		ANSI B30.5			85%		360°
BOOM LENGTH IN METERS - CAPACITY LISTED IN KILOGRAMS							
RADIUS	11	15	20	25	29	34	RADIUS
M							M
3	34478	27306					3
4	24240	25143					4
5	16216	16951	17391				5
6	9770	10392	10759	11059			6
8	6491	7044	7375	7638	7720		8
9		5021	5321	5566	5643	5865	9
11		3674	3946	4173	4246	4454	11
12		2722	2966	3175	3248	3443	12
14			2236	2427	2495	2681	14
15			1669	1846	1914	2091	15
17			1234	1383	1447	1615	17

5,000 kg. ctwt.		ON TIRES BOOM CENTERED ANSI B30.5 75%			OVER FRONT
BOOM LENGTH IN METERS - CAPACITY LISTED IN KILOGRAMS					
RADIUS	11	16	20	25	RADIUS
M					M
3	26893	27293			3
4	23346	23750			4
5	19291	19736	19967		5
6	14642	15068	15340	15545	6
8	10206	10741	11063	11322	8
9	7929	7843	8128	8360	9
11		5974	6228	6441	11
12		4677	4903	5098	12
14		3937	3928	4110	14
15			3189	3348	15
17			2608	2749	17
18			2254	2263	18
20				1869	20

5,000 kg. cwt.		360° ON TIRES ANSI B30.5			75%	360°
BOOM LENGTH IN METERS - CAPACITY LISTED IN KILOGRAMS						
RADIUS	11	16	20	25		RADIUS
M						M
3	17064	17563				3
4	14134	14637				4
5	10923	11458	11771			5
6	7502	7988	8287	8523		6
8	5135	5656	5969	6223		8
9	3719	3815	4100	4336		9
11		2585	2844	3062		11
12		1719	1946	2150		12
14		1234	1275	1461		14
15			757	925		15
17				503		17

 <b>JIB CAPACITY AT RADIUS</b> <b>ANSI B30.5</b>							
33ft. (10m)							85%
	0° OFFSET		20° OFFSET		40° OFFSET		
Boom Angle (°)	Load Radius (m)	Capacity (kg)	Load Radius (m)	Capacity (kg)	Load Radius (m)	Capacity (kg)	Boom Angle (°)
76	9	5488	11	2844	13	1946	76
74	10	5039	13	2694	15	1896	74
72	12	4590	14	2545	16	1846	72
70	13	4191	16	2445	18	1796	70
68	14	3842	17	2345	19	1746	68
66	16	3493	18	2245	20	1696	66
64	17	3193	20	2145	21	1696	64
62	19	2894	21	2046	23	1647	62
60	20	2694	22	1996	24	1597	60
58	21	2495	23	1946	25	1597	58
56	23	2295	25	1846	26	1547	56
54	24	2145	26	1796	27	1547	54
52	25	1996	27	1746	28	1547	52
50	26	1846	28	1647	29	1497	50
48	27	1746	29	1547	30	1447	48
46	28	1597	30	1447	31	1397	46
44	30	1497	31	1397	32	1347	44
42	30	1420	32	1297	33	1247	42
40	32	1293	33	1229	34	1197	40
38	33	1175	34	1125	34	1098	38

 <b>JIB CAPACITY AT RADIUS</b> <b>ANSI B30.5</b>							
56ft. (17m)							85%
	0° OFFSET		20° OFFSET		40° OFFSET		
Boom Angle (°)	Load Radius (m)	Capacity (kg)	Load Radius (m)	Capacity (kg)	Load Radius (m)	Capacity (kg)	Boom Angle (°)
76	10	3143	15	1547	19	1048	76
74	12	2794	17	1447	21	998	74
72	14	2545	19	1397	22	948	72
70	15	2295	20	1297	24	948	70
68	17	2145	22	1247	25	898	68
66	19	1946	23	1197	27	898	66
64	20	1846	25	1148	28	848	64
62	22	1696	26	1098	29	848	62
60	23	1597	27	1048	30	798	60
58	25	1497	29	998	32	798	58
56	27	1397	30	948	33	798	56
54	28	1347	32	948	34	748	54
52	29	1247	33	898	35	748	52
50	30	1197	34	848	36	748	50
48	32	1098	35	848	37	748	48
46	33	998	37	798	38	748	46
44	34	948	37	798	39	748	44
42	36	848	39	748	40	699	42
40	37	798	40	699	41	649	40
38	38	748	41	649	41	649	38









**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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