



# RT75

## RT75 PRODUCT GUIDE

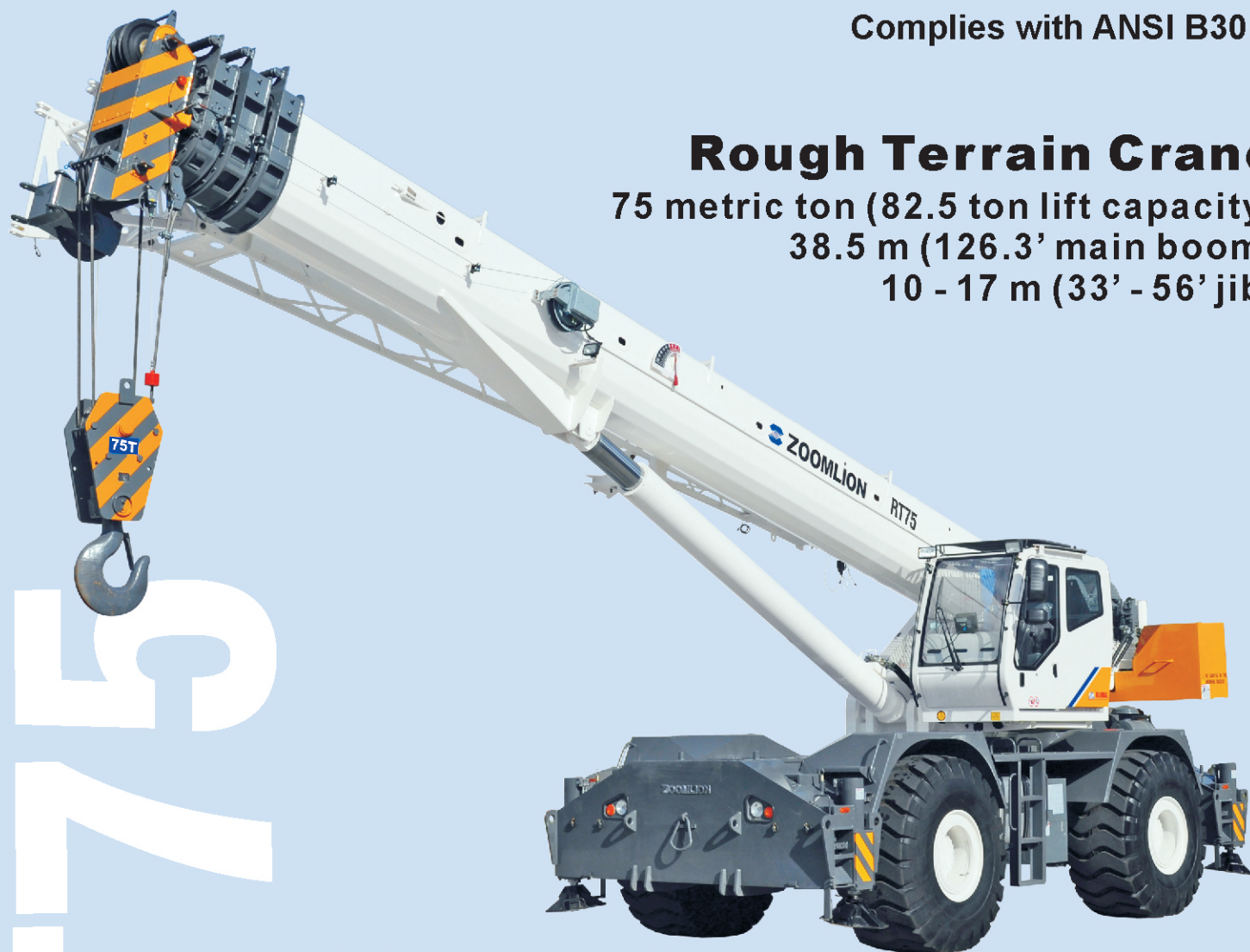
Complies with ANSI B30.5

### Rough Terrain Crane

75 metric ton (82.5 ton lift capacity)

38.5 m (126.3' main boom)

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



# RT75

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**FEATURES**



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



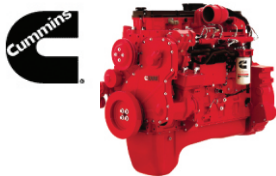
We chose the AxleTech brand axle because AxleTech offers the most reliable product on the market and has years of experience in manufacturing mobile crane axles.



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



The Dana 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
- 75 ton hook block
- 8.3 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) ..... 260 (194) @ 2500 rpm.  
 Peak torque ft. lb. (Nm) ..... 730 (990) @ 1500 rpm.  
 79.3 gallon (300 L) fuel tank capacity.

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



### TRANSMISSION

Dana powershift transmission - 6 speeds forward and 3 speeds reverse.  
 Front axle disconnect offering both 4x4 and 4x2 operation.  
 Max. speed ..... 24.5 mph (39.4 km/hr).



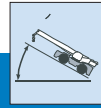
### AXLES

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

76% max. gradeability in 1st gear 4x4.  
 3.40% max. gradeability in 6th gear 4x2.



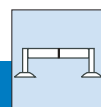
### BRAKES

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



### TIRES AND WHEELS

29.5 x 25 - 34 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 ..... 574 sq. ft. (53.3 sq. m).  
 50% - Mid position outriggers  
 footprint ..... 291 sq. ft. (27 sq. m).  
 0% - Fully retracted outriggers  
 footprint ..... 103 sq. ft. (9.6 sq. m).  
 Light-weight steel, quick-release outrigger pontoons.  
 Floating ground bearing area ..... 23.6" diameter (0.6 m) (558 sq. in.) (0.36 sq. m).  
 Outrigger span ..... Length 24.2 ft. (7.4 m).  
 Width 23.9 ft. (7.3 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.  
 264 gallon (1000 L) hydraulic reservoir with external sight and temperature gauge.

Easily accessible (10 micron) cartridge style full flow filters with bypass protection.  
 Max. operating pressure: ..... 30MPa (4351 psi, 300 bar).



### OPERATOR CAB

Full vision operator cab designed for max. comfort. All steel fabrication with acoustical lining and 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 16,535 lb. (7500 kg) hyd removable counterweight.  
 Length ..... 10.2 ft. (3.1 m).  
 Width ..... 3.4 ft. (1 m).  
 Height ..... 2.8 ft. (0.8 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 rpm.

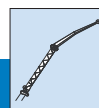


### LOAD MOMENT INDICATOR (LMI)

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 159.1 ft. (48.5 m).

Max. tip height with 33 ft. (10 m) jib + 23 ft. (7 m) fixed pullout extension is 182.1 ft. (55.5 m).



**TECHNICAL DESCRIPTION**

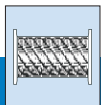


**MAIN BOOM**

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: ..... 126.3 ft. (38.5 m).  
 Fully retracted boom length: ..... 41 ft. (12.5 m).  
 Max. tip height, main boom: ..... 134.5 ft. (41 m).

Boom angle range (min./max.) ..... -3° / + 78°.  
 Boom raising / lowering time ..... 110 sec. / 55 sec.  
 Boom extension / retraction time ..... 120 sec. / 77 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: ..... 19,842 lbs. (9000 kg).

Winch speed: ..... 0 - 410.1 ft./min (0 - 125 m/min).

Power up / power down.

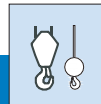
Electronic drum rotation indicators.

Rope construction: ..... 0.87 in. (22 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**


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





Hook block weight ..... 1720 lbs. (780 kg).

8.3 ton top swivel hook ball with safety latch.

Hook ball weight ..... 298 lbs. (135 kg).

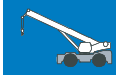
## CRANE AND COMPONENT WEIGHTS

CRANE OPERATING WEIGHTS						
 Crane with cwt.	Gross Vehicle Weight		Front Axle Load		Rear Axle Load	
	lb	kg	lb	kg	lb	kg
	110,230	50,000	58,510	26,540	51,720	23,460

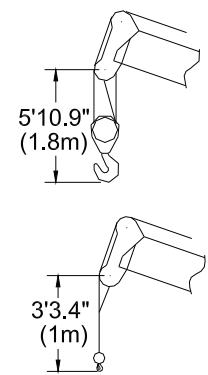
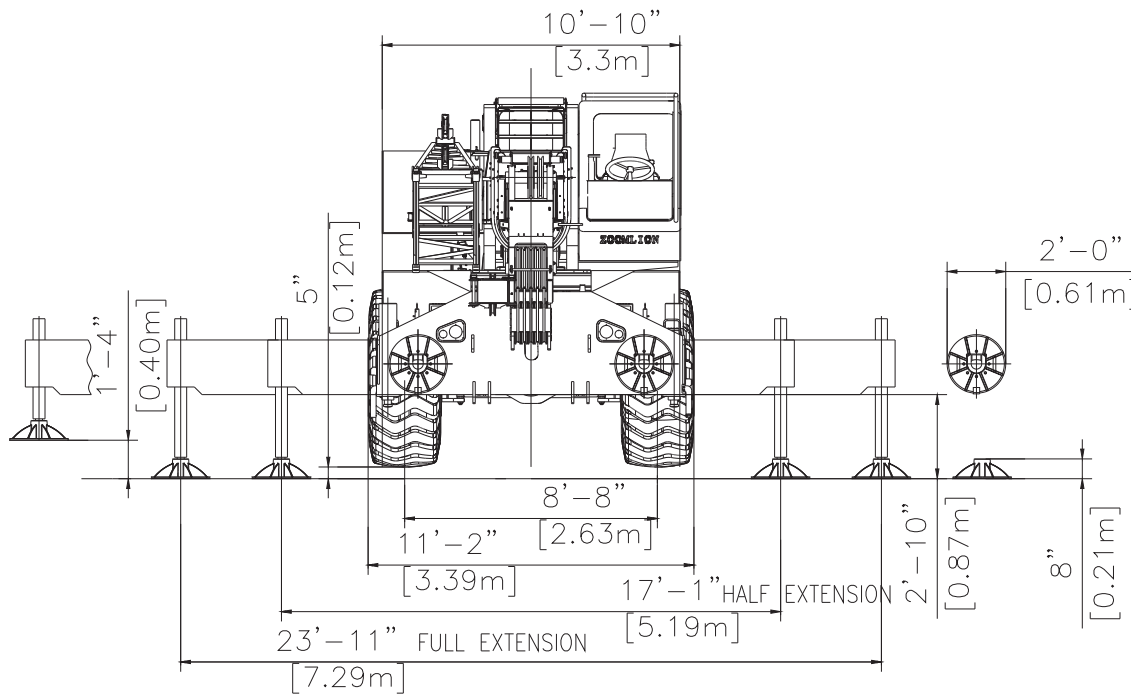
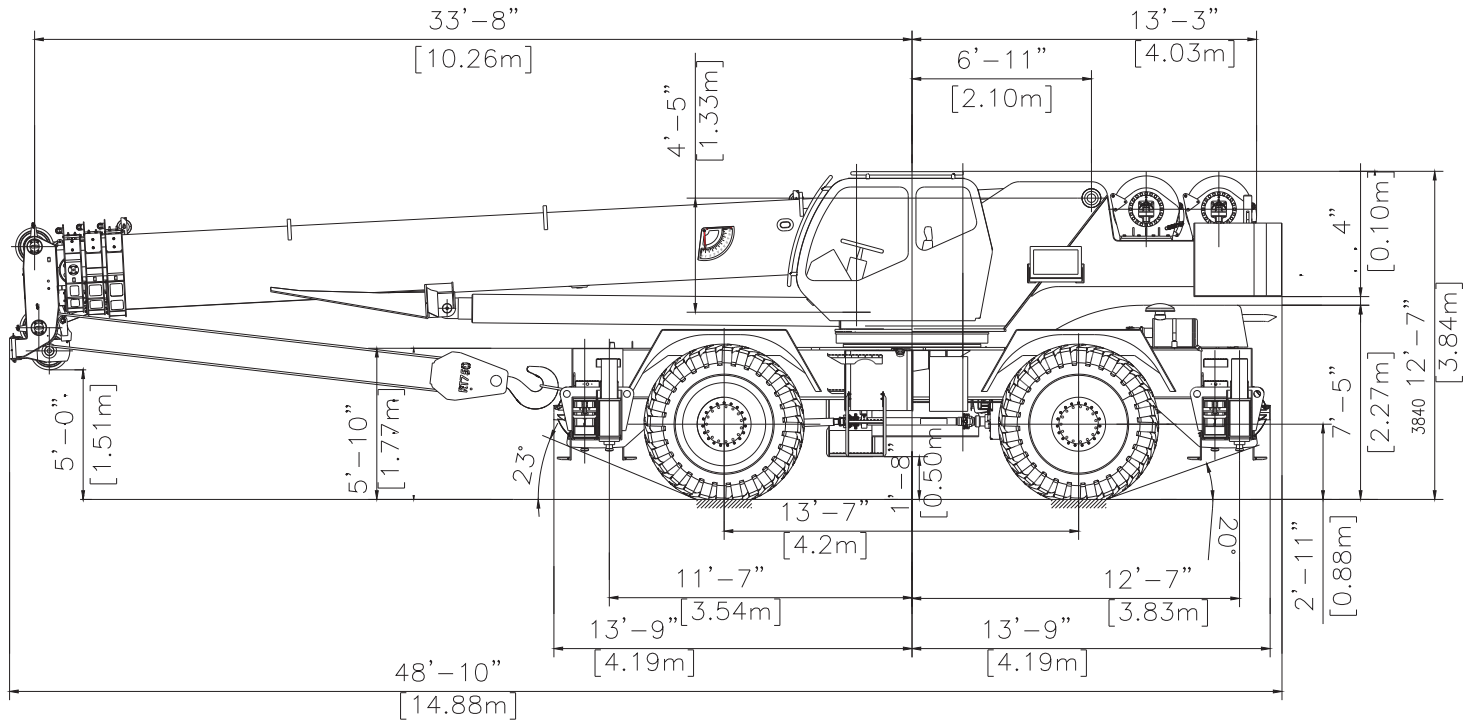
DEDUCTIONS FOR LOAD HANDLING					
 Jib stowed aside boom   Auxiliary head	lb	kg	 5 sheave 75 ton hook block   8.3 ton hook ball	lb	kg
		2,099		952	
	168	76		298	135

## TURNING RADIUS

Front Wheel (4x2) Steering	Imperial	Metric
Wall to wall over boom attached	42 ft. 7 in	13 m
All Wheel (4x4) Steering	Imperial	Metric
Curb to curb	25 ft. 9 in	7.8 m
Tail Swing	Imperial	Metric
With counterweight	14 ft. 5 in	4.4 m



## CRANE DIMENSIONS

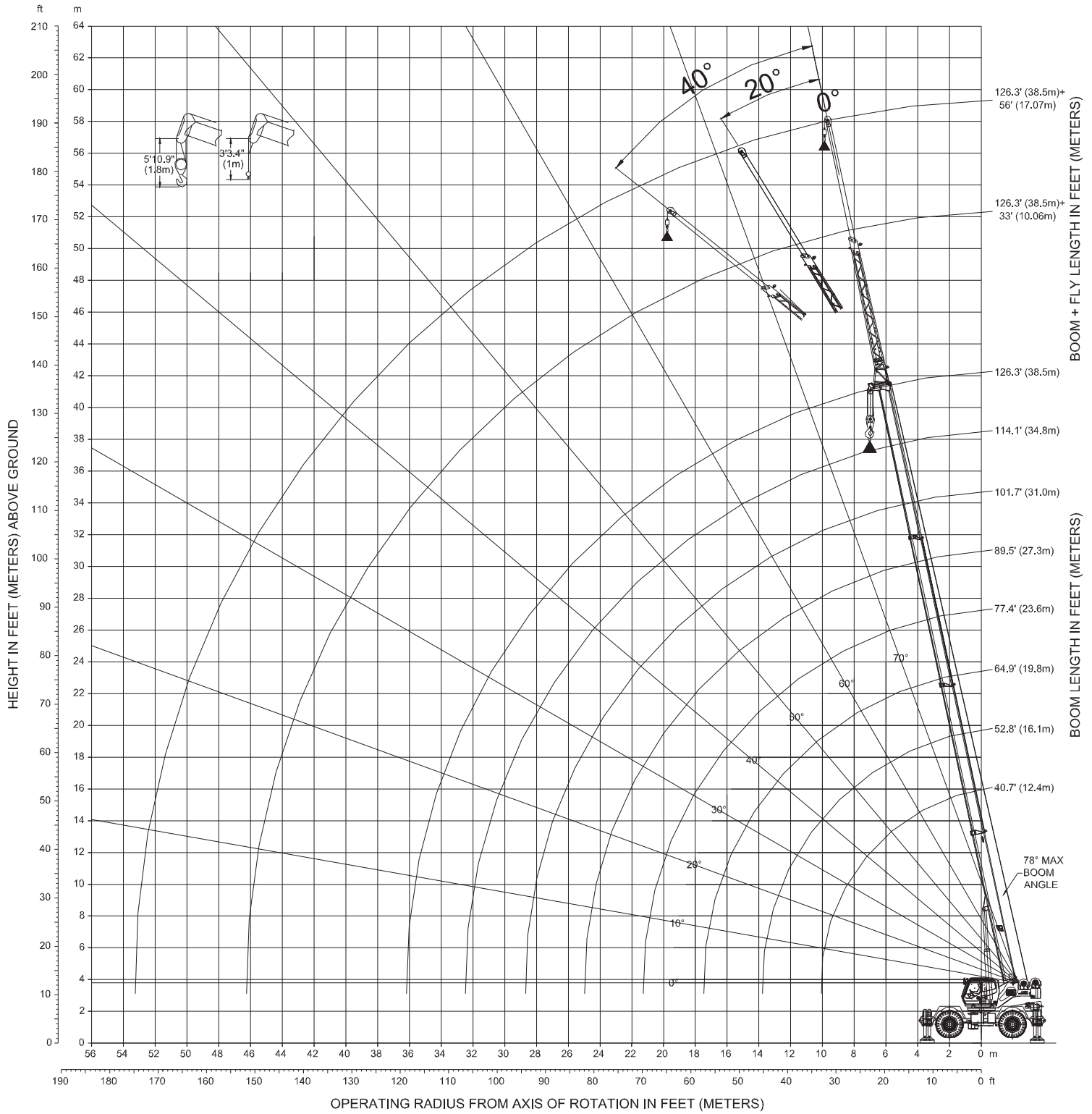



DIMENSIONS ARE FOR THE FURNISHED HOOK BLOCK AND HOOK BALL.






## WORKING RANGE DIAGRAM



 <b>FULLY EXTENDED OUTRIGGERS - MAIN BOOM CAPACITY</b> 7,500 kg. ctwt.      ANSI B30.5      85%      360°									
BOOM LENGTH IN METERS - CAPACITY LISTED IN KILOGRAMS									
RADIUS	12.5	16.2	19.9	23.6	27.4	31.0	34.8	38.5	RADIUS
M									M
3.0	75000	44860							3.0
3.5	75000	44860							3.5
4.0	68400	44860							4.0
4.5	61650	44860	34450						4.5
5.0	55950	44860	32950						5.0
5.5	51100	43550	31590	24700					5.5
6.0	46900	42050	30340	23750					6.0
6.5	43200	40650	29200	22850	19500				6.5
7.0	39990	39400	28150	22050	18850				7.0
7.5	35420	36350	27200	21300	18200	15740			7.5
8.0	30780	31650	26300	20600	17600	15240			8.0
9.0	24120	24890	24650	19350	16550	14350	12300		9.0
10.0	19590	20260	20550	18250	15590	13600	11700	10600	10.0
11.0		16900	17170	17250	14800	12850	11150	10150	11.0
12.0		14360	14610	14860	14050	12250	10600	9700	12.0
14.0		10800	10990	11210	11270	11150	9750	8450	14.0
16.0			8570	8750	8810	8970	8980	7400	16.0
18.0				7000	7050	7190	7200	6550	18.0
20.0				5700	5730	5850	5860	5850	20.0
22.0					4720	4820	4830	4920	22.0
24.0					3940	4000	4010	4090	24.0
26.0						3340	3330	3410	26.0
28.0						2810	2780	2840	28.0
30.0						2650	2330	2370	30.0
32.0							1970	1970	32.0
34.0								1630	34.0
36.0								1370	36.0


### 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.

 <b>MID POSITION OUTRIGGERS - MAIN BOOM CAPACITY</b>									
7,500 kg. ctwt.		ANSI B30.5				85%		360°	
BOOM LENGTH IN METERS - CAPACITY LISTED IN KILOGRAMS									
RADIUS	12.5	16.2	19.9	23.6	27.4	31.0	34.8	38.5	RADIUS
M									M
3.0	75000	44860							3.0
3.5	68800	44860							3.5
4.0	61100	44860							4.0
4.5	54750	44860	34450						4.5
5.0	44400	44860	32950						5.0
5.5	35960	36910	31590	24700					5.5
6.0	29980	30850	30340	23750					6.0
6.5	25530	26340	26640	22850	19500				6.5
7.0	22090	22850	23140	22050	18850				7.0
7.5	19340	20070	20350	20630	18200	15740			7.5
8.0	17110	17800	18070	18350	17600	15420			8.0
9.0	13690	14330	14590	14840	14890	14350	12300		9.0
10.0	11220	11800	12040	12290	12340	12530	11700	10600	10.0
11.0		9870	10110	10340	10390	10570	10580	10150	11.0
12.0		8360	8590	8810	8860	9040	9040	9120	12.0
14.0		6190	6360	6560	6620	6770	6780	6870	14.0
16.0			4830	4990	5050	5190	5200	5300	16.0
18.0				3850	3890	4030	4040	4130	18.0
20.0				3000	3020	3140	3150	3240	20.0
22.0					2340	2440	2450	2540	22.0
24.0					1820	1880	1890	1970	24.0
26.0						1430	1430	1500	26.0
28.0						1080	1050	1110	28.0

### 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.


 <b>FULLY RETRACTED OUTRIGGERS - MAIN BOOM CAPACITY</b>									
7,500 kg. ctwt.		ANSI B30.5			85%			360°	
BOOM LENGTH IN METERS - CAPACITY LISTED IN KILOGRAMS									
RADIUS	12.5	16.2	19.9	23.6	27.4	31.0	34.8	38.5	RADIUS
M									M
3.0	51050	44860							3.0
3.5	37080	38020							3.5
4.0	28670	29510							4.0
4.5	23060	23840	24080						4.5
5.0	19060	19780	20020						5.0
5.5	16050	16740	16970	17240					5.5
6.0	13710	14370	14600	14860					6.0
6.5	11840	12480	12710	12950	12980				6.5
7.0	10310	10930	11150	11390	11430				7.0
7.5	9040	9640	9860	10100	10130	10310			7.5
8.0	7970	8550	8770	9000	9040	9210			8.0
9.0	6260	6810	7020	7250	7290	7460	7460		9.0
10.0	4980	5480	5690	5910	5950	6110	6120	6190	10.0
11.0		4440	4650	4850	4900	5060	5060	5130	11.0
12.0		3600	3800	4000	4050	4200	4210	4280	12.0
14.0		2380	2540	2710	2760	2910	2920	3000	14.0
16.0			1640	1800	1840	1980	1990	2070	16.0
18.0				1110	1150	1280	1290	1380	18.0

 <b>7,500 kg. cwt.</b>	<b>ON TIRES BOOM CENTERED</b>					<b>OVER FRONT</b>
	<b>ANSI B30.5</b>					
<b>75%</b>						
<b>BOOM LENGTH IN METERS - CAPACITY LISTED IN KILOGRAMS</b>						
<b>RADIUS</b>	<b>12.5</b>	<b>16.2</b>	<b>19.9</b>	<b>23.6</b>	<b>27.4</b>	<b>RADIUS</b>
<b>M</b>						<b>M</b>
3.0	35450	35850				3.0
3.5	31600	32050				3.5
4.0	28440	28850				4.0
4.5	25720	26180	26310			4.5
5.0	23430	23890	24010			5.0
5.5	21450	21900	22050	22200		5.5
6.0	19730	20180	20320	20490		6.0
6.5	18170	18630	18820	18980	19010	6.5
7.0	16840	17270	17450	17650	17630	7.0
7.5	15280	15890	16110	16350	16380	7.5
8.0	13590	14170	14390	14620	14650	8.0
9.0	10950	11490	11700	11920	11960	9.0
10.0	9010	9500	9710	9920	9960	10.0
11.0		7970	8170	8370	8410	11.0
12.0		6760	6950	7140	7190	12.0
14.0		5000	5150	5320	5360	14.0
16.0			3890	4030	4080	16.0
18.0				3090	3130	18.0
20.0				2380	2400	20.0
22.0					1840	22.0
24.0					1400	24.0

7,500 kg. ctwt.		360° ON TIRES ANSI B30.5			75%	360°
BOOM LENGTH IN METERS - CAPACITY LISTED IN KILOGRAMS						
RADIUS	12.5	16.2	19.9	23.6	27.4	RADIUS
M						M
3.0	22070	22540				3.0
3.5	18800	19350				3.5
4.0	16270	16790				4.0
4.5	14120	14640	14810			4.5
5.0	12410	12940	13110			5.0
5.5	10890	11440	11610	11810		5.5
6.0	9670	10190	10350	10550		6.0
6.5	8570	9070	9290	9470	9490	6.5
7.0	7610	8140	8350	8540	8560	7.0
7.5	6660	7230	7440	7670	7690	7.5
8.0	5730	6280	6490	6710	6740	8.0
9.0	4250	4760	4970	5180	5220	9.0
10.0	3130	3600	3800	4010	4050	10.0
11.0		2680	2880	3080	3120	11.0
12.0		1950	2130	2330	2370	12.0
14.0			1010	1190	1230	14.0



 <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	9.6	6000	12.5	3050	14.7	1990	76
74	11.3	5800	12.0	2850	16.2	1890	74
72	12.9	5600	15.6	2700	17.7	1850	72
70	14.5	5050	17.2	2550	19.2	1800	70
68	16.1	4500	18.7	2450	20.6	1750	68
66	17.6	3990	20.2	2350	22.0	1700	66
64	19.2	3600	21.7	2250	23.4	1650	64
62	20.7	3250	23.1	2150	24.7	1650	62
60	22.2	2950	24.5	2050	26.1	1600	60
58	23.6	2700	25.9	1990	27.4	1600	58
56	25.0	2450	27.2	1940	28.6	1550	56
54	26.4	2250	28.6	1850	29.8	1550	54
52	27.8	2100	29.9	1800	31.0	1500	52
50	29.1	1890	31.1	1650	32.1	1500	50
48	30.4	1750	32.3	1550	33.2	1450	48
46	31.6	1630	33.4	1450	34.3	1350	46
44	32.8	1440	34.5	1350	35.3	1300	44
42	33.9	1270	35.6	1210	36.2	1180	42
40	35.1	1120	36.6	1070	37.1	1040	40
38	36.1	990	37.6	940	38.0	920	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	11.3	3500	16.4	1650	20.3	1050	76
74	13.2	3350	18.2	1550	22.0	990	74
72	15.1	3000	19.9	1450	23.6	990	72
70	16.9	2700	21.7	1400	25.2	940	70
68	18.7	2450	23.3	1300	26.8	900	68
66	20.5	2250	25.1	1250	28.3	900	66
64	22.2	2100	26.7	1200	29.8	850	64
62	24.0	1940	28.3	1150	31.2	850	62
60	25.7	1800	30.0	1100	32.6	800	60
58	27.3	1700	31.4	1050	34.0	800	58
56	28.9	1550	32.9	990	35.3	800	56
54	30.5	1500	34.4	940	36.6	750	54
52	32.1	1400	35.8	940	37.8	750	52
50	33.6	1250	37.1	900	39.0	750	50
48	35.0	1150	38.4	850	40.1	750	48
46	36.5	1050	39.7	850	41.2	700	46
44	37.8	940	40.9	800	42.2	700	44
42	39.1	900	42.1	750	43.2	650	42
40	40.4	800	43.2	650	44.1	650	40
38	41.6	750	44.2	600	45.0	600	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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Due to constant improvement and engineering, we reserve the right to change the design, specifications, and equipment pricing without notification. Illustrations provided may or may not include all standard and optional equipment and accessories.