



EQUIPMENT LOAD CHART

*For reference only.
Operators manual should
consulted and adhered to*



LOAD CHART MANUAL FOR RT100 ROUGH TERRAIN CRANE



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RT100 ROUGH TERRAIN CRANE

LOAD RATINGS

Edition 1

Dec.2013

 *For reference only.
Operators manual should be consulted and adhered to.*

LOAD RATINGS FOR ROUGH TERRAIN CRANE

To owners, users and operators

Zoomlion Cranes appreciates your selection of the ZOOMLION Rough Terrain Crane for your application.

No one should operate the crane unless they read and understand the information in this manual.

When you follow the instructions in this manual, your crane can operate at MAXIMUM EFFICIENCY.

The operator must keep this manual in the cab of the crane.

If there is anything in the manual that you do not understand, speak with us. We (Zoomlion Cranes) are NOT responsible for damages from an operator who does not obey the instructions in the **OPERATOR'S MANUAL**.

The OPERATOR'S MANUAL is an important part of the crane. If the crane becomes the property of a different person, make sure that the manual stays in the cab of the crane.
THANK YOU!

Mobile Crane Branch Company of ZOOMLION Heavy Industry Science and Technology Co., Ltd.

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LOAD RATINGS FOR ROUGH TERRAIN CRANE

Safety

Hazard Indicators

DANGER, WARNING, CAUTION, ATTENTION, NOTE, and IMPORTANT labels are on signs and decals, and as you read this manual to show important instructions. In this manual, DANGER, WARNING, and CAUTION labels are before the paragraph or item to which they apply. ATTENTION, NOTE, and IMPORTANT follow the paragraph or item they apply to. The markers are as follows:



Refers to a dangerous situation which, if you do not prevent, will cause death or injury.



Refers to a possible dangerous situation which, if you do not prevent, could cause death or injury.



Refers to a possible dangerous situation which, if you do not prevent, may cause light or moderate injury.



Refers to a situation which, if you do not prevent, may cause property or equipment damage.



Refers to a tip or hint in the operation instructions.



Emphasizes the importance of the data in this manual.



This symbol shows a step or procedure that is not approved and can cause a dangerous situation.



LOAD RATINGS FOR ROUGH TERRAIN CRANE

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LOAD RATINGS FOR ROUGH TERRAIN CRANE

Chapter 1 Informational data



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LOAD RATINGS FOR ROUGH TERRAIN CRANE

1.1 HOIST TACKLE CHART

This chart only represents the maximum permissible hoist line load per parts of line. You must refer to the proper Lift Charts for machine rated loads.

Table 01 – 1 Hoist Tackle Chart

MAXIMUM PERMISSIBLE HOIST LINE LOAD

LINE PARTS	1	2	3	4	5	6	7
MAXIMUM PERMISSIBLE HOIST LINE LOAD (KG)	7143	14286	21429	28571	35714	42857	50000
MAXIMUM PERMISSIBLE HOIST LINE LOAD (lbs)	15748	31495	47243	62988	78736	94484	110231
LINE PARTS	8	9	10	11	12	13	14
MAXIMUM PERMISSIBLE HOIST LINE LOAD (KG)	57143	64286	71429	78571	85714	92857	100000
MAXIMUM PERMISSIBLE HOIST LINE LOAD (lbs)	125979	141726	157473	173219	188967	204714	220462

Wire rope: 2011M-15*K7-IWRC-2160MPa

Weight: 192kg/100m (129lbs/100FT)

Minimum breaking strength: 380 kN (42.7Ton)

1.2 TIRE INFLATION CHART

Table 01 – 2 Tire Inflation Chart

RECOMMENDED TIRE PRESSURE

TIRE SIZE	STATIONARY	CREEP (1.6 km/h)	TRAVEL
29.5R29☆☆	750 kpa (109PSI)	750 kpa (109PSI)	750 kpa (109PSI)



LOAD RATINGS FOR ROUGH TERRAIN CRANE

1.3 WEIGHTS

Table 01 – 3 Weights

HOOK ASSY. WEIGHTS	DIMENSIONS ARE FOR MAIN HOOK AND AUXILIARY HOOK.
HOOK BLOCK WEIGHTS	
Main hook weight: 940 kg (2072 LBS) Auxiliary hook weight: 162 kg (357 LBS)	
MACHINE EQUIPMENT	
1. COUNTERWEIGHT: 10000 kg (220462 LBS) 2. OUTRIGGER SPREAD: 8.0 m (26.2ft) from center of outrigger float to center of outrigger float across the longitudinal axis of the machine 7.9 m (25.9ft) from center of outrigger float to center of outrigger float across the transversal axis of the machine 3. Powered boom length 11.5 m (37.7ft) retracted to 43 m (141ft) extended 4. Crane height 3.96 m (13ft) , length 14.247 m (46.7ft) , width 3.62 m (11.9ft) , wheelbase 4.6 m (15ft)	



LOAD RATINGS FOR ROUGH TERRAIN CRANE

WARNING

1.4 GENERAL

1. Rated loads as shown on Lift Charts pertain to this machine as originally manufactured and equipped. Modifications to the machine or use of optional equipment other than that specified can result in a reduction of capacity.
2. Construction equipment can be hazardous if improperly operated or maintained. Operation and maintenance of this machine shall be in compliance with the information in the **Operator's Manual** supplied with this machine. If these manuals are missing, order replacements from the manufacturer through your distributor.
3. These warnings do not constitute all of the operating conditions for the crane. The operator and job site supervision must read the **Operator's Manual**. This crane and its load ratings are in accordance with ASME/ANSI B30.5.
- 4.

1.5 DEFINITIONS

1. **LOAD RADIUS**—The horizontal distance from the axis of rotation before loading to the center of the vertical hoist line or tackle with a load applied.
2. **LOAD BOOM ANGLE**—It is the angle between the boom base section and the horizontal, after lifting the rated load at the rated radius. The boom angle before loading should be greater to account for deflections. The loaded boom angle combined with the boom length give only an approximation of the operating radius.

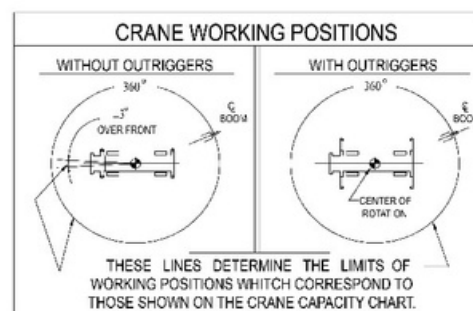
3. **WORKING AREA**—Areas measured in a circular arc about the centerline of rotation as shown in the diagram.

FREELY SUSPENDED LOAD—Load hanging free with no direct external force applied except by the hoist rope.

SIDE LOAD—Horizontal force applied to the lifted load either on the ground or in the air.

EXTRA-CAUTION ZONE—Tipping can occur with some boom/jib combinations at radii within this area without any load on the hook.

BOOM SIDE OF CRANE—The side of the crane over which the boom is positioned when in an OVER SIDE working position.





LOAD RATINGS FOR ROUGH TERRAIN CRANE

1.6 SET-UP

1. Craneloadratingsarebasedonthecranebeingleveledandstandingonafirmand uniform supporting surface.
2. Craneloadratingsonoutriggersarebased on all outrigger beams being fully extended / retracted, or in the case of partial extension ratings mechanically pinned in the appropriate position, and the tires raised free of the supporting surface.
3. Craneloadratingsontiresdependonappropriateinflationpressureandthetire conditions. Caution must be exercised when increasing air pressures in tires. Consult **Operator's Manual** for precautions.
4. Consult appropriate section of the **Operator's Manual** for more exact description of hoist line reeving.
5. The use of more parts of line than required by the load may result in having insufficient rope to allow the hook block to reach the ground.
6. Properly maintained wire rope is essential for safe crane operation. Consult **Operator's Manual** for proper maintenance and inspection requirements.
7. When spin-resistant wire rope is used, the allowable rope loading shall be the breaking strength divided by five (5), unless otherwise specified by the wire rope manufacturer.

1.7 OPERATION

1. CRANE LOAD RATINGS MUST NOT BE EXCEEDED. DO NOT ATTEMPT TO TIP THE CRANE TO DETERMINE ALLOWABLE LOADS.
2. When either radius or boom length, or both, are between listed values, the smaller of the two listed load ratings shall be used.
3. Do not operate at long radius than those listed on the applicable Lift Chart (cross shown diagrams) as tipping can occur without a load on the hook.
4. The boom angle less shown on the Lift Chart give an approximation of the operating radius for a specified boom length. The boom angle, before loading, should be greater to account for boom deflection. It may be necessary to retract the boom if maximum boom angle is insufficient to maintain rated radius.
5. Telescopic sections 3, 4 and 5 must be extended synchronically.



LOAD RATINGS FOR ROUGH TERRAIN CRANE

WARNING

6. Rated loads include the weight of hook block, slings, and auxiliary lifting devices. Their weights shall be subtracted from the listed rated load to obtain the net load that can be lifted.

When lifting over the jib, the weight of any hook block, slings, and auxiliary lifting devices at the boom head must be added to the load.

Rated lifting capacities are based on correct reeving. Deductions must be made for excessive reeving. Any reeving over the minimum required, (see Hoist Tackle Chart), is considered excessive and must be accounted for. Deduct for each meter of excessive wire rope before attempting to lift a load.

When jibs are erected but unused, add three (3) times the weight of jib, any hook block, slings, and auxiliary lifting devices at the jib head to the load (jib weight: 1242 kg (2738 lbs)).



TOTAL RATED LOAD 额定载荷

7. Rated loads do not exceed 85% on outriggers or 75% on tires, of the tipping load as determined by ASME/ANSI B30.5.
8. Rated loads are based on freely suspended loads. No attempt shall be made to drag a load horizontally on the ground in any direction.
9. The users shall operate at reduced ratings to allow for adverse job conditions, such as: soft or uneven ground, out of level conditions, high winds, side loads, pendulum action, jerking or sudden stopping of loads, hazardous conditions, experience of personnel, two-machine lifts, traveling with loads, electric wires, etc. (side pull on boom or jib is hazardous). If wind speed is greater than the permissible value of 45 ft/s (13.8 m/s), grade 6) or it is fulminous, while the crane is in operation, do the tasks that follow: stop the work (safely lower the load), retract the boom and correctly stow the boom.
10. Load ratings are dependent upon the crane being maintained according to manufacturer's specifications.
11. It is recommended that load handling devices, including hooks, and hook blocks, be kept away from boom head at all times.

 *For reference only.
Operators manual should be consulted and adhered to.*



LOAD RATINGS FOR ROUGH TERRAIN CRANE

Chapter 2 Lifts with outrigger beams
fully extended



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LOAD RATINGS FOR ROUGH TERRAIN CRANE

2.1 MAIN BOOM RATED LOADS

USE THIS CHART ONLY WHEN ALL OUTRIGGERS ARE FULLY EXTENDED

Rated loads on outriggers fully extended - 360°
(Rated load unit: kg)

BOOM LENGTH (MM) LOAD RADIUS (MM)	11500		15513		19525		27350		35175		43000	
	BOOM ANGLE (°)	360° (KG)	BOOM ANGLE (°)	360° (KG)	BOOM ANGLE (°)	360° (KG)	BOOM ANGLE (°)	360° (KG)	BOOM ANGLE (°)	360° (KG)	BOOM ANGLE (°)	360° (KG)
3000	68.4	100000	74.3	80500								
3500	65.6	96750	72.3	80500								
4000	62.7	84550	70.3	80500	74.6	56300						
4500	59.7	74250	68.3	72350	73.0	54000						
5000	56.6	66050	66.3	64400	71.4	51900						
5500	53.4	59350	64.2	57850	69.9	49900	75.8	32490				
6000	50.0	53750	62.0	52430	68.3	48100	74.7	31390				
6500	46.4	48970	59.8	47830	66.6	44850	73.6	30340				
7000	42.5	44910	57.6	43840	65.0	41300	72.5	29390				
7500	38.2	41380	55.3	40430	63.3	38150	71.4	28490				
8000	33.3	38320	52.9	37420	61.6	35380	70.3	27640	74.8	18890		
9000	19.8	33190	47.8	32370	58.1	30750	68.0	26090	73.1	18040		
9387	0	16270										
10000												
11000			42.2	27260	54.5	25280	65.7	24740	71.4	17290	74.9	9740
12000			35.9	22540	50.6	21030	63.3	20960	69.7	16590	73.5	9290
13389			28.1	18970	46.5	17760	60.9	17990	67.9	15940	72.1	8890
14000			0	9960								
16000					37.2	13120	55.9	13690	64.3	12890	69.3	8140
17395					24.7	10030	50.5	10720	60.6	10400	66.4	7540
18000					0	6200						
20000							44.6	8560	56.7	8530	63.4	6990
22000							38.0	6930	52.6	7070	60.3	6490
24000							30.1	5660	48.3	5900	57.2	5970
25213							19.2	4690	43.6	4950	53.9	5040
26000							0	3490				
28000									38.5	4160	50.4	4260
30000									32.6	3500	46.8	3610
32000									25.6	2950	42.9	3050
33034									15.5	2510	38.8	2570
34000									0	1990		
36000											34.1	2150
38000											28.8	1800
40000											22.3	1500
											12.8	1270

Lifts with outrigger
beams fully extended

*For reference only.
Operators manual should be consulted and adhered to.*


LOAD RATINGS FOR ROUGH TERRAIN CRANE

USE THIS CHART ONLY WHEN ALL OUTRIGGERS ARE FULLY EXTENDED

Rated loads on outriggers fully extended - 360°
(Rated load unit: lb)

BOOM LENGTH (FT) LOAD RADIUS (FT)	37.73ft		50.90ft		64.06ft		89.73ft		115.34ft		141.08ft	
	BOOM ANGLE (°)	360° (lb)	BOOM ANGLE (°)	360° (lb)	BOOM ANGL E(°)	360° (lb)	BOOM ANGLE (°)	360° (lb)	BOOM ANGLE (°)	360° (lb)	BOOM ANGLE (°)	360° (lb)
10	68.1	220000	74.1	177530								
12	64.7	205040	71.7	177530								
15	59.3	160600	68.0	156420	72.8	118140						
20	49.3	116020	61.6	113290	67.9	105050	74.5	6863				
25	37.1	89380	54.7	87250	62.9	82390	71.2	0				
30	16.7	71640	47.0	69860	57.6	66360	67.7	6225	72.9	39480		
30.8	0	35790						0				
35			38.1	5272	51.9	4912	64.1	4603	70.2	3695	74.0	2078
40			26.3	0	45.7	0	60.5	0	67.6	0	71.8	0
43.6			0	4044				3850		3486		1935
45				0	38.6	9006	56.6	9125	64.8	9228	69.7	9814
50				2191	30.1	0	52.6	0	62.0	0	67.5	0
55				0	17.5	2435	48.3	2583	59.1	2477	65.2	1704
57.1					0	0		0		0		0
60						2009	43.7	2827	56.1	2816	62.9	1505
65						0	38.7	05550	53.0	0	60.6	0
70						1365	32.9	13310	49.7	1583	58.2	1440
75						0	26.0	11470	46.3	0	55.8	0
80							16.2	9990	42.7	1379	53.2	1374
82.7							0	7690		0		0
85									38.7	1204	50.6	1241
90									34.4	0	47.9	0
95									29.5	1053	45.0	1074
100									23.6	0	42.0	0
105									15.5	709	38.7	733
108.3									0	0		0
110										623	35.3	445
115										0	31.4	0
120										552	27.1	466
125										0	21.9	0
130										438	15.1	376
										0		0
												327
												0
												288
												0



LOAD RATINGS FOR ROUGH TERRAIN CRANE

SET-UP

1. Craneloadratingsarebasedonthecranebeingleveledandstandingonafirmand uniform supporting surface.
2. Craneloadratingsonoutriggersarebasedonalloutriggerbeamsbeingfullyextended/ retracted, or in the case of partial extension ratings mechanically pinned in the appropriated position, and the tyres raised free of the supporting surface.

OPERATION

1. CRANE LOAD RATINGS MUST NOT BE EXCEEDED. NO ATTEMPT TO TIP THE CRANE TO DETERMINE ALLOWABLE LOADS.
2. Wheneitherradiusorboomlength,orboth,arebetweenlistedvalues,thesmallerofthe two listed load ratings shall be used. EXTRA-CAUTIONZONE–
3. Tippingcanoccurwithsomeboom/jibcombinationsatradii within this area without any load on the hook.
4. TheboomanglessshownontheLiftChartsgiveanapproximationoftheoperationradius for a specified boom length. The boom angle, before loading, should be greater to account for boom deflection. It may be necessary to retract the boom if maximum boom angle is insufficient to maintain rated radius.
5. RatedLoadsincludetheweightofhookblock,slingsandauxiliaryliftingdevices.Their weights shall be subtracted from the listed rated load to obtain the net load that can be lifted. Rated lift ratings are based on correct reeving. Deductions must be made for excessive reeving. Any reeving over the minimum is considered excessive. Deduct for each foot of excessive wire rope before attempting to lift a load. See HOIST TACKLE CHART for rope information.
Alltelescopicectionsmustbeextendedsynchronically.
- 6.

Lifts with outrigger
beams fully extended



*For reference only.
Operators manual should be consulted and adhered to.*



LOAD RATINGS FOR ROUGH TERRAIN CRANE

Lifts with outrigger
beams fully extended

Lift Height on Outriggers Fully Extended



LOAD RATINGS FOR ROUGH TERRAIN CRANE

2.2 10.8MJIBRATEDLOADS

USE THIS CHART ONLY WHEN ALL OUTRIGGERS ARE FULLY EXTENDED

USE THIS CHART ONLY WHEN JIB SECTION 2 IS NOT PULLED OUT FROM JIB
SECTION 1

Rated loads on outriggers fully extended - 360 °
(Rated load unit: Kg)

0° OFFSET			20° OFFSET			40° OFFSET		
BOOM ANGLE (°)	LOAD RADIUS (MM)	360° (KG)	BOOM ANGLE (°)	LOAD RADIUS (MM)	360° (KG)	BOOM ANGLE (°)	LOAD RADIUS (MM)	360° (KG)
76	11151	6990	76	14579	4290	76	17278	3140
74	13006	6390	74	16378	4140	74	18984	3090
72	14842	5890	72	18154	3990	72	20665	3040
70	16657	5440	70	19906	3840	70	22318	2990
68	18449	5040	68	21631	3690	68	23941	2940
66	20216	4740	66	23327	3590	66	25532	2890
64	21956	4440	64	24992	3490	64	27090	2840
62	23667	4140	62	26624	3390	62	28612	2790
60	25346	3890	60	28220	3240	60	30096	2790
58	26992	3690	58	29780	3040	58	31542	2740
56	28602	3330	56	31301	2890	56	32946	2640
54	30175	2970	54	32781	2730	54	34307	2540
52	31708	2650	52	34219	2460	52	35624	2360
50	33200	2370	50	35612	2210	50	36895	2130
48	34649	2120	48	36959	1980	48	38118	1920
46	36053	1900	46	38259	1780	46	39293	1740
44	37411	1700	44	39509	1600	44	40417	1570
42	38720	1520	42	40708	1440	42	41488	1420
40	39980	1360	40	41856	1300	40	42507	1280
38	41188	1220	38	42949	1170	38	43471	1150

Lifts with outrigger
beams fully extended

*For reference only.
Operators manual should be consulted and adhered to.*


LOAD RATINGS FOR ROUGH TERRAIN CRANE

USE THIS CHART ONLY WHEN ALL OUTRIGGERS ARE FULLY EXTENDED

USE THIS CHART ONLY WHEN JIB SECTION 2 IS NOT PULLED OUT FROM JIB SECTION 1

Rated loads on outriggers fully extended - 360°
(Rated load unit: lb)

0° OFFSET			20° OFFSET			40° OFFSET		
BOOM ANGLE (°)	LOAD RADIUS (ft)	360° (lb)	BOOM ANGLE (°)	LOAD RADIUS (ft)	360° (lb)	BOOM ANGLE (°)	LOAD RADIUS (ft)	360° (lb)
7	36.6	15390	7	47.8	945	7	56.7	692
6	42.7	14070	6	53.7	0	6	62.3	0
7	48.7	12970	7	59.6	912	7	67.8	681
4	54.6	11980	4	65.3	0	4	73.2	0
7	60.5	11100	7	71.0	879	7	78.5	670
2	66.3	10440	2	76.5	0	2	83.8	0
7	72.0	9780	7	82.0	846	7	88.9	659
0	77.6	9120	0	87.3	0	0	93.9	0
6	83.2	8570	6	92.6	813	6	98.7	648
8	88.6	8130	8	97.7	0	8	103.5	0
6	93.8	7340	6	102.7	791	6	108.1	637
6	99.0	6540	6	107.5	0	6	112.6	0
6	104.0	5840	6	112.3	769	6	116.9	626
4	108.9	5210	4	116.8	0	4	121.0	0
6	113.7	4670	6	121.3	747	6	125.1	615
2	118.3	4180	2	125.5	0	2	128.9	0
6	122.7	3740	6	129.6	714	6	132.6	615
0	127.0	3350	0	133.6	0	0	136.1	0
5	131.2	3010	5	137.3	670	5	139.5	604
8	135.1	2700	8	140.9	0	8	142.6	0
5			5		637	5		582
6			6		0	6		0
5			5		602	5		559
4			4		0	4		0
5			5		541	5		521
2			2		0	2		0
5			5		486	5		470
0			0		0	0		0
4			4		437	4		424
8			8		0	8		0
4			4		393	4		383
6			6		0	6		0
4			4		354	4		346
0-6			4		0	4		0
4			4		318	4		312

RT100 Rough Terrain Crane



LOAD RATINGS FOR ROUGH TERRAIN CRANE

SET-UP

1. Craneloadratingsarebasedonthecranebeingleveledandstandingona firm and uniform supporting surface.
2. Craneloadratingsonoutriggersarebasedonalloutriggersbeamsbeingfullyextended/ retracted, or in the case of partial extension ratings mechanically pinned in the appropriate position, and the tires raised free of the supporting surface.

OPERATION

1. CRANE LOAD RATINGS MUST NOT BE EXCEEDED. NO ATTEMPT TO TIP THE CRANE TO DETERMINE ALLOWABLE LOADS.
2. Wheneitherradiusorboomlength,orboth,arebetweenlistedvalues,thesmallerofthe two listed load ratings shall be used. **EXTRA-CAUTIONZONE-**
3. Tippingcanoccurwithsomeboom/jibcombinationsatradii within this area without any load on the hook.
4. TheboomanglelessshownontheLiftChartgiveanapproximationoftheoperationradiusfor a specified boom length. The boom angle, before loading, should be greater to account for boom deflection. It may be necessary to retract the boom if maximum boom angle is insufficient to maintain rated radius.
5. RatedLoadsincludestheweightofhookblock,slingsandauxiliaryliftingdevices.Their weights shall be subtracted from the listed rated load to obtain the net load that can be lifted. Rated lift ratings are based on correct reeving. Deductions must be made for excessive reeving. Any reeving over the minimum is considered excessive. Deduct for each foot of excessive wire rope before attempting to lift a load. See HOIST TACKLE CHART for rope information.
6. Whenliftingoverthejib,theweightofanyhookblock,slings,andanyauxiliarylifting devices at the boom head must be added to the load.
7. Forallboomlengthslessthanthemaximumwiththejiberected,theratedloadsare determined by boom angle only in the appropriate column.

For all boom lengths less than the listed boom length, the rated load is to be determined by boom angle.

Lifts with outrigger
beams fully extended



*For reference only.
Operators manual should be consulted and adhered to.*



LOAD RATINGS FOR ROUGH TERRAIN CRANE

Lifts with outrigger
beams fully extended

Lift Height on Jib Section 1 Erected



LOAD RATINGS FOR ROUGH TERRAIN CRANE

2.3 18.5 M JIB RATED LOADS

USE THIS CHART ONLY WHEN ALL OUTRIGGERS ARE FULLY EXTENDED

USE THIS CHART WHEN JIB SECTION 2 IS PULLED OUT FROM JIB SECTION 1

Rated loads on outriggers fully extended - 360°

(Rated load unit: KG)

0° OFFSET			20° OFFSET			40° OFFSET		
BOOM ANGLE (°)	LOAD RADIUS (MM)	360° (KG)	BOOM ANGLE (°)	LOAD RADIUS (MM)	360° (KG)	BOOM ANGLE (°)	LOAD RADIUS (MM)	360° (KG)
76	1 3 013	3840	76	18884	2090	76	23506	1540
74	1 5 128	3540	74	20903	1990	74	25367	1490
72	1 7 220	3290	72	22894	1940	72	27194	1440
70	1 9 290	3040	70	24855	1840	70	28985	1440
68	2 1 333	2840	68	26782	1790	68	30738	1390
66	2 3 348	2690	66	28675	1740	66	32452	1390
64	2 5 331	2540	64	30530	1690	64	34123	1390
62	2 7 281	2390	62	32345	1640	62	35750	1340
60	2 9 196	2290	60	34118	1590	60	37331	1340
58	3 1 072	2190	58	35847	1540	58	38863	1340
56	3 2 907	2090	56	37529	1540	56	40346	1290
54	3 4 700	1990	54	39163	1490	54	41777	1290
52	3 6 448	1940	52	40747	1490	52	43154	1290
50	3 8 149	1890	50	42279	1440	50	44477	1290
48	3 9 800	1700	48	43756	1440	48	45742	1290
46	4 1 401	1500	46	45178	1360	46	46949	1290
44	4 2 949	1330	44	46542	1210	44	48096	1170
42	4 4 441	1180	42	47846	1080	42	49182	1050
40	4 5 877	1050	40	49090	970	40	50206	940
38	4 7 254	930	38	50271	860	38	51165	840

Lifts with outrigger
beams fully extended



LOAD RATINGS FOR ROUGH TERRAIN CRANE

USE THIS CHART ONLY WHEN ALL OUTRIGGERS ARE FULLY EXTENDED

USE THIS CHART WHEN JIB SECTION 2 IS PULLED OUT FROM JIB SECTION 1

Rated loads on outriggers fully extended - 360°
(Rated load unit: lb)

0° OFFSET			20° OFFSET			40° OFFSET		
BOOM ANGLE (°)	LOAD RADIUS (ft)	360° (lb)	BOOM ANGLE (°)	LOAD RADIUS (ft)	360° (lb)	BOOM ANGLE (°)	LOAD RADIUS (ft)	360° (lb)
7	42.7	846	7	62.0	461	7	77.1	340
6	49.6	0	6	68.6	0	6	83.2	0
7	56.5	780	7	75.1	439	7	89.2	329
4	63.3	0	4	81.5	0	4	95.1	0
7	70.0	725	7	87.9	428	7	100.8	318
2	76.6	0	2	94.1	0	2	106.5	0
7	83.1	670	7	100.2	406	7	112.0	318
0	89.5	0	0	106.1	0	0	117.3	0
6	95.8	626	6	111.9	395	6	122.5	307
8	101.9	0	8	117.6	0	8	127.5	0
6	108.0	593	6	123.1	384	6	132.4	307
6	113.8	0	6	128.5	0	6	137.1	0
6	119.6	559	6	133.7	373	6	141.6	307
4	125.2	0	4	138.7	0	4	145.9	0
6	130.6	526	6	143.6	362	6	150.1	296
2	135.8	0	2	148.2	0	2	154.0	0
6	140.9	505	6	152.7	351	6	157.8	296
0	145.8	0	0	157.0	0	0	161.4	0
5	150.5	483	5	161.1	340	5	164.7	296
8	155.0	0	8	164.9	0	8	167.9	0
5		461	5		340	5		285
6		0	6		0	6		0
5		439	5		329	5		285
4		0	4		0	4		0
5		428	5		329	5		285
2		0	2		0	2		0
5		417	5		318	5		285
0		0	0		0	0		0
4		374	4		318	4		285
8		0	8		0	8		0
4		331	4		300	4		285
6		0	6		0	6		0
4		294	4		268	4		258
02 4 10		0	4		0	4		0
4		260	4		239	4		231

RT100 Rough Terrain Crane



LOAD RATINGS FOR ROUGH TERRAIN CRANE

SET-UP

1. Craneloadratingsarebasedonthecranebeingleveledandstandingonafirm and uniform supporting surface.
2. Craneloadratingsonoutriggersarebasedonalloutriggersbeamsbeingfullyextended/retracted, or in the case of partial extension ratings mechanically pinned in the appropriate position, and the tires raised free of the supporting surface.

OPERATION

1. CRANE LOAD RATINGS MUST NOT BE EXCEEDED. NO ATTEMPT TO TIP THE CRANE TO DETERMINE ALLOWABLE LOADS.
2. Wheneitherradiusorboomlength,orboth,arebetweenlistedvalues,thesmallerofthetwo listed load ratings shall be used. EXTRA-CAUTIONZONE–
3. Tippingcanoccurwithsomeboom/jibcombinationsatradii within this area without any load on the hook.
4. TheboomanglessshownontheLiftChartgiveanapproximationoftheoperationradiusfor a specified boom length. The boom angle, before loading, should be greater to account for boom deflection. It may be necessary to retract the boom if maximum boom angle is insufficient to maintain rated radius.
5. RatedLoadsincludestheweightofhookblock,slingsandauxiliaryliftingdevices.Their weights shall be subtracted from the listed rated load to obtain the net load that can be lifted. Rated lift ratings are based on correct reeving. Deductions must be made for excessive reeving. Any reeving over the minimum is considered excessive. Deduct for each foot of excessive wire rope before attempting to lift a load. See HOIST TACKLE CHART for rope information.
6. Whenliftingoverthejib,theweightofanyhookblock,slings,andanyauxiliarylifting devices at the boom head must be added to the load.
7. Forallboomlengthslessthanthemaximumwiththejiberected,theratedloadsare determined by boom angle only in the appropriate column.
8. Forallboomlengthslessthanthelistedboomlength,theratedloadistobedeterminedby boom angle.

Lifts with outrigger
beams fully extended



*For reference only.
Operators manual should be consulted and adhered to.*



LOAD RATINGS FOR ROUGH TERRAIN CRANE

Lifts with outrigger
beams fully extended

Lift Height on Jib Section 2 Erected



LOAD RATINGS FOR ROUGH TERRAIN CRANE

Chapter 3 Lifts with outrigger beams at mid-position



 *For reference only.
Operators manual should be consulted and adhered to.*


LOAD RATINGS FOR ROUGH TERRAIN CRANE
3.1 MAIN BOOM RATED LOADS

USE THIS CHART WHEN ALL OUTRIGGERS ARE PINNED IN THE MID-POSITION

Rated loads on outriggers pinned in mid-position - 360°
(Rated load unit: kg)

BOOM LENGTH (MM) LOAD RADIUS (MM)	11500		15513		19525		27350		35175		43000	
	BOOM ANGLE (°)	360° (KG)	BOOM ANGLE (°)	360° (KG)	BOOM ANGLE (°)	360° (KG)	BOOM ANGLE (°)	360° (KG)	BOOM ANGLE (°)	360° (KG)	BOOM ANGLE (°)	360° (KG)
3000	68.4	100000	74.3	80500								
3500	65.6	90150	72.3	80500								
4000	62.7	77900	70.3	75690	74.6	56300						
4500	59.7	68350	68.3	66500	73.0	54000						
5000	56.6	60700	66.3	59150	71.4	51900						
5500	53.4	53570	64.2	51090	69.9	44580						
6000	50.0	44280	62.0	42350	68.3	37540	74.7	31390				
6500	46.4	37480	59.8	35910	66.6	32200	73.6	29820				
7000	42.5	32300	57.6	30970	65.0	28010	72.5	26400				
7500	38.2	28210	55.3	27050	63.3	24640	71.4	23590				
8000	33.3	24900	52.9	23880	61.6	21860	70.3	21220	74.8	18010		
9000	19.8	19890	47.8	19040	58.1	17560	68.0	17480	73.1	15320		
9387	0	16270										
10000			42.2	15530	54.5	14380	65.7	14640	71.4	13180	74.9	9740
11000			35.9	12880	50.6	11940	63.3	12420	69.7	11460	73.5	9290
12000			28.1	10810	46.5	10020	60.9	10650	67.9	10030	72.1	8890
13389			0	8730								
14000					37.2	7170	55.9	7960	64.3	7800	69.3	7740
16000					24.7	5210	50.5	6050	60.6	6150	66.4	6180
17395					0	4300						
18000							44.6	4620	56.7	4880	63.4	4960
20000							38.0	3510	52.6	3880	60.3	4000
22000							30.1	2650	48.3	3060	57.2	3200
24000							19.2	1990	43.6	2390	53.9	2550
25213							0	1790				
26000												
28000									38.5	1820	50.4	1990
30000									32.6	1350	46.8	1520
									25.6	950	42.9	1120

Lifts with outrigger
beams at mid-position



*For reference only.
Operators manual should be consulted and adhered to.*



LOAD RATINGS FOR ROUGH TERRAIN CRANE

USE THIS CHART WHEN ALL OUTRIGGERS ARE PINNED IN THE MID-POSITION

Rated loads on outriggers pinned in mid-position - 360°
(Rated load unit: lb)

BOOM LENGTH (FT)	37.73ft			50.90ft			64.06ft			89.73ft			115.34ft			141.08ft		
LOAD RADIUS (FT)	BOOM ANGLE (°)	360° (lb)	BOOM ANGLE (°)	360° (lb)	BOOM ANGLE (°)	360° (lb)	BOOM ANGLE (°)	360° (lb)	BOOM ANGLE (°)	360° (lb)	BOOM ANGLE (°)	360° (lb)	BOOM ANGLE (°)	360° (lb)	BOOM ANGLE (°)	360° (lb)	BOOM ANGLE (°)	360° (lb)
10	68.1	220000	74.1	177530														
12	64.7	188980	71.7	177530														
15	59.3	147730	68.0	143770	72.8	118140												
20	49.3	94200	61.6	90140	67.9	80090	74.5	6863										
25	37.1	60180	54.7	57710	62.9	52630	71.2	0										
30	16.7	42470	47.0	40630	57.6	37500	67.7	5056	72.9	32950								
30.8	0	35790						0										
35			38.1	3011	51.9	2792	64.1	3845	70.2	2640	74.0	2078						
40			26.3	0	45.7	0	60.5	0	67.6	0	71.8	0						
43.9			0	2303		2133		2276		2152		1935						
45				0	38.6	6540	56.6	824	64.8	778	69.7	760						
50				1922	30.1	12930	52.6	0	62.0	0	67.5	0						
55				0	17.5	10190	48.3	1476	59.1	1480	65.2	1480						
57.1					0	9530		0		0		0						
60																		
65							43.7	1201	56.1	10400	62.9	10500						
70							38.7	0	53.0	8720	60.6	8980						
75							32.9	794	49.7	7290	58.2	7590						
80							26.0	0	46.3	6060	55.8	6390						
82.7							16.2	642	42.7	5000	53.2	5360						
85							0	0										
90										516	38.7	407	50.6	444				
95										0	34.4	0	47.9	0				
100										415	29.5	325	45.0	363				
										0	23.6	0	42.0	0				
										305		254		291				
										0		0		0				
												192		227				
												0		0				



LOAD RATINGS FOR ROUGH TERRAIN CRANE

SET-UP

1. Craneloadratingsarebasedonthecranebeingleveledandstandingona firm and uniform supporting surface.
2. Craneloadratingsonoutriggersarebasedonalloutriggerbeamsbeingfullyextended/retracted, or partial extension ratings mechanically pinned in the appropriated position, and the tyres raised free of the supporting surface.

OPERATION

1. CRANE LOAD RATINGS MUST NOT BE EXCEEDED. NO ATTEMPT TO TIP THE CRANE TO DETERMINE ALLOWABLE LOADS.
2. Wheneitherradiusorboomlength,orboth,arebetweenlistedvalues,thesmalleroftwo listed load ratings shall be used. EXTRA-CAUTIONZONE–
3. Tippingcanoccurwithsomeboom/jibcombinationsatradii within this area without any load on the hook.
4. TheboomanglessshownontheLiftChartsgiveanapproximationoftheoperationradius for a specified boom length. The boom angle, before loading, should be greater to account for boom deflection. It may be necessary to retract the boom if maximum boom angle is insufficient to maintain rated radius.
5. RatedLoadsincludestheweightofhookblock,slingsandauxiliaryliftingdevices.Their weights shall be subtracted from the listed rated load to obtain the net load that can be lifted. Rated lifting capacities are based on correct reeving. Deductions must be made for excessive reeving. Any reeving over the minimum is considered excessive. Deduct for each foot of excessive wire rope before attempting to lift a load. See HOIST TACKLE CHART for rope information.
Alltelescopicsectionsmustbeextendedsynchronously.
- 6.

Lifts with outrigger
beams at mid-position



*For reference only.
Operators manual should be consulted and adhered to.*



LOAD RATINGS FOR ROUGH TERRAIN CRANE

Lifts with outrigger
beams at mid-position

Lift Height on Outriggers Pinned in the Mid-position



LOAD RATINGS FOR ROUGH TERRAIN CRANE

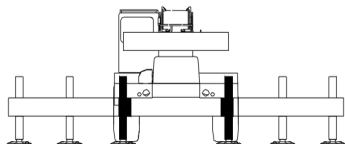
Chapter 4 Lifts with outrigger beams
fully retracted



 *For reference only.
Operators manual should be consulted and adhered to.*

ZOOMLION
LOAD RATINGS FOR ROUGH TERRAIN CRANES
4.1 MAIN BOOM RATED LOADS

USE THIS CHART WHEN ALL OUTRIGGERS ARE FULLY RETRACTED



Rated loads on outriggers are less than half extended - 360°
(Rated load unit: kg)

BOOM LENGTH (MM)	11500		15513		19525		27350		35175		43000	
LOAD RADIUS (MM)	BOOM ANGLE (°)	360° (KG)	BOOM ANGLE (°)	360° (KG)	BOOM ANGLE (°)	360° (KG)	BOOM ANGLE (°)	360° (KG)	BOOM ANGLE (°)	360° (KG)	BOOM ANGLE (°)	360° (KG)
3000	68.4	75500	74.3	70420								
3500	65.6	54060	72.3	50950								
4000	62.7	41510	70.3	39320	74.6	33700						
4500	59.7	33270	68.3	31590	73.0	27580						
5000	56.6	27440	66.3	26090	71.4	23060						
5500	53.4	23110	64.2	21970	69.9	19590						
6000	50.0	19760	62.0	18760	68.3	16840	74.7	16240				
6500	46.4	17090	59.8	16210	66.6	14610	73.6	14360				
7000	42.5	14920	57.6	14110	65.0	12770	72.5	12770				
7500	38.2	13120	55.3	12370	63.3	11210	71.4	11420				
8000	33.3	11600	52.9	10900	61.6	9890	70.3	10250	74.8	9180		
9000	19.8	9180	47.8	8560	58.1	7750	68.0	8320	73.1	7710		
9387	0	8500										
10000			42.2	6770	54.5	6100	65.7	6810	71.4	6500	74.9	6380
11000			35.9	5370	50.6	4780	63.3	5590	69.7	5510	73.5	5460
12000			28.1	4240	46.5	3720	60.9	4590	67.9	4670	72.1	4680
13389			0	3100								
14000					37.2	2100	55.9	3030	64.3	3340	69.3	3430
16000					24.7	950	50.5	1890	60.6	2320	66.4	2460
18000							44.6	1030	56.7	1530	63.4	1700
20000											60.3	1090

If the crane is fully retracted

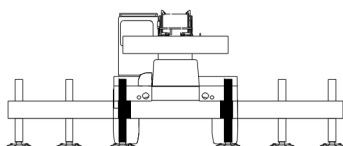


**▲ For reference only.
Operators manual should be consulted and adhered to.**



LOAD RATINGS FOR ROUGH TERRAIN CRANE

USE THIS CHART WHEN ALL OUTRIGGERS ARE FULLY RETRACTED



**Rated loads on outriggers are less than half extended - 360°
(Rated load unit: lb)**

BOOM LENGTH (FT)	37.73'ft		50.90'ft		64.06'ft		89.73'ft		115.34'ft		141.08 'ft	
LOAD RADIUS (FT)	BOOM M ANGL E(°)	360° (lb)	BOOM ANGL E(°)	360° (lb)	BOOM ANGL E(°)	360° (lb)	BOOM ANGLE (°)	360° (lb)	BOOM ANGLE (°)	360° (lb)	BOOM M ANGL E(°)	360° (lb)
10	68.1	160170	74.1	149610								
12	64.7	108790	71.7	102730								
15	59.3	71080	68.0	67520	72.8	5906						
20	49.3	42250	61.6	40110	67.9	0	74.5	3488				
25	37.1	28020	54.7	26400	62.9	3604	71.2	0				
30	16.7	19560	47.0	18200	57.6	0	67.7	2447	72.9	16540		
30.8	0	18710				2393		0				
35			38.1	12760	51.9	0	64.1	13790	70.2	12820	74.0	1265
40			26.3	8920	45.7	1647	60.5	9710	67.6	9960	71.8	0
43.9			0	6830		0						1000
45					38.6	506	56.6	710	64.8	771	69.7	789
50					30.1	0	52.6	0	62.0	0	67.5	0
55						296	48.3	504	59.1	589	65.2	617
60						0	43.7	0	56.1	0	62.9	0
65								338		440	60.6	474
								0		0		0
								202		315		354
								0		0		0
												251
												0

Lifts with outrigger
beams fully retracted



LOAD RATINGS FOR ROUGH TERRAIN CRANE

SET-UP

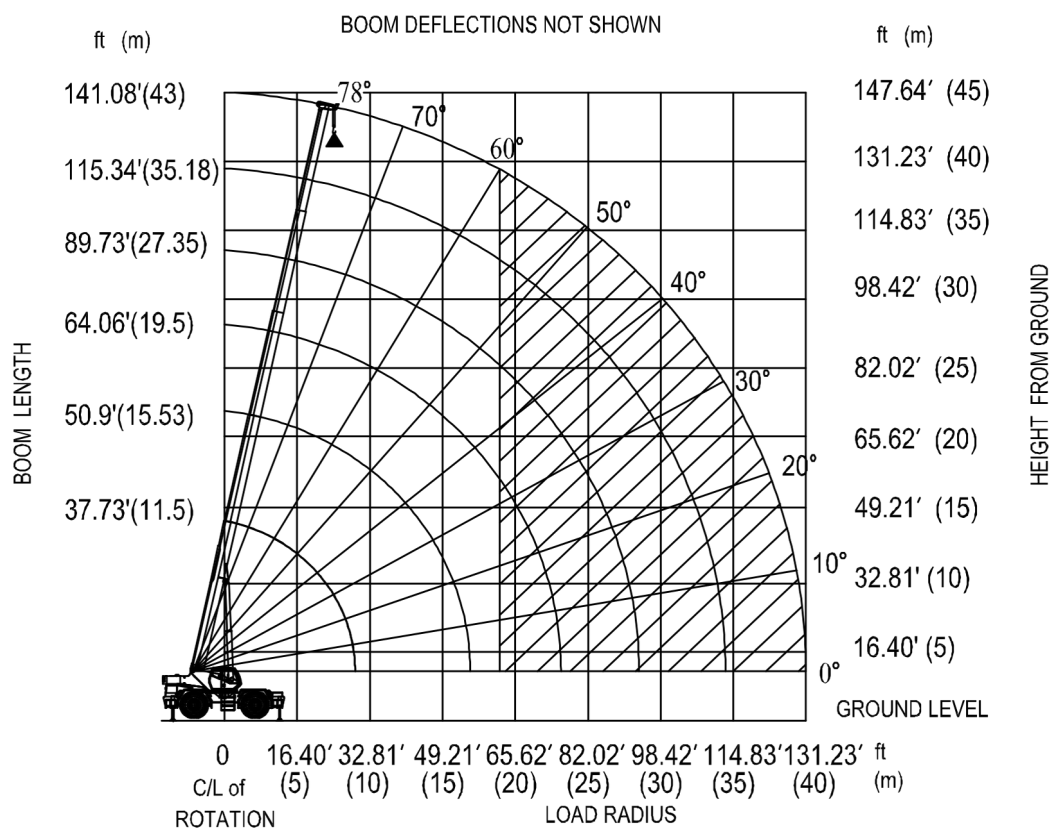
1. Craneloadratingsarebasedonthecranebeingleveledandstandingona firm and uniform supporting surface.
2. Craneloadratingsonoutriggersarebasedonalloutriggerbeamsbeingfullyextended/retracted, or partial extension ratings mechanically pinned in the appropriated position, and the tyres raised free of the supporting surface.

OPERATION

1. CRANE LOAD RATINGS MUST NOT BE EXCEEDED. NO ATTEMPT TO TIP THE CRANE TO DETERMINE ALLOWABLE LOADS.
2. Wheneitherradiusorboomlength,orboth,arebetweenlistedvalues,thesmalleroftwo listed load ratings shall be used. EXTRA-CAUTIONZONE–
3. Tippingcanoccurwithsomeboom/jibcombinationsatradii within this area without any load on the hook.
4. TheboomanglessshownontheLiftChartsgiveanapproximationoftheoperationradius for a specified boom length. The boom angle, before loading, should be greater to account for boom deflection. It may be necessary to retract the boom if maximum boom angle is insufficient to maintain rated radius.
RatedLoadsincludestheweightofhookblock,slingsandauxiliaryliftingdevices.Their
5. weights shall be subtracted from the listed rated load to obtain the net load that can be lifted. Rated lifting capacities are based on correct reeving. Deductions must be made for excessive reeving. Any reeving over the minimum is considered excessive. Deduct for each foot of excessive wire rope before attempting to lift a load. See HOIST TACKLE CHART for rope information.
Alltelescopicectionsmustbeextendedsynchronously.
- 6.

*Lifts with outrigger
beams fully retracted*

▲ For reference only.
Operators manual should be consulted and adhered to.


LOAD RATINGS FOR ROUGH TERRAIN CRANES


Lift Height on Outriggers Fully Retracted

Lifts with outrigger
beams fully retracted



LOAD RATINGS FOR ROUGH TERRAIN CRANE

Chapter 5 Lifts on tires



 *For reference only.
Operators manual should be consulted and adhered to.*



*For reference only.
Operators manual should be consulted and adhered to.*



LOAD RATINGS FOR ROUGH TERRAIN CRANE

5.1 MAINBOOMRATEDLOADS

USE THESE CHARTS ONLY WHEN LIFTING OVER THE FRONT ON TIRES.

**Rated loads on tires
(Rated load unit: kg)**

BOOM LENGTH (MM) LOAD RADIUS (MM)	11500				15513				19525			
	BOOM ANGLE (°)	360° (KG)	OVER FRONT (KG)	CREEP (KG)	BOOM ANGLE (°)	360° (KG)	OVER FRONT (KG)	CREEP (KG)	BOOM ANGLE (°)	36 0° (KG)	OVER FRONT (KG)	CREEP (KG)
3000	68.4	32900	42550	31600	74.3	31680	41500	30700	77.6	28660	38450	28350
3500	65.6	28330	38050	28050	72.3	27270	37050	27250	76.1	24770	34480	25210
4000	62.7	24640	34230	25100	70.3	23680	33370	24320	74.6	21620	31080	22620
4500	59.7	21630	31020	22610	68.3	20780	30170	21860	73.0	18990	28210	20370
5000	56.6	19100	28240	20440	66.3	18320	27450	19780	71.4	16780	25740	18390
5500	53.4	17000	25840	18580	64.2	16240	25120	17920	69.9	14900	23560	16720
6000	50.0	15180	23710	16900	62.0	14440	23060	16310	68.3	13280	21680	15230
6500	46.4	13580	21840	15460	59.8	12930	21220	14900	66.6	11600	19960	13870
7000	42.5	11950	20220	14200	57.6	11180	19560	13590	65.0	9950	18440	12710
7500	38.2	10340	18730	13010	55.3	9620	18140	12460	63.3	8560	17090	11650
8000	33.3	8980	17380	11960	52.9	8310	16780	11450	61.6	7370	15870	10660
9000	19.8	6810	15000	10180	47.8	6190	14220	9640	58.1	5440	12990	8990
9387	0	6210	13910									
10000												
11000					42.2	4570	11390	8160	54.5	3940	10410	7600
12000					35.9	3300	9220	6920	50.6	2740	8400	6370
13389					28.1	2280	7500	5890	46.5	1770	6790	5390
14000					0	1260	5780	4740				
16000									37.2	—	4390	3730
17395									24.7	—	2720	2490
									0.0	—	1990	1870

*For reference only.
Operators manual should be consulted and adhered to.*


LOAD RATINGS FOR ROUGH TERRAIN CRANE

USE THESE CHARTS ONLY WHEN LIFTING OVER THE FRONT ON TIRES.

**Rated loads on tires
(Rated load unit: lb)**

BOOM LENGTH (ft.)	LOAD RADIUS (ft.)	37.73ft				50.9ft				64.06ft			
		BOOM ANGLE (°)	360° (KG)	OVER FRONT (KG)	CREEP (KG)	BOOM ANGLE (°)	360° (KG)	OVER FRONT (KG)	CREEP (KG)	BOOM ANGLE (°)	360° (KG)	OVER FRONT (KG)	CREEP (KG)
10		68.1	71260	92620	68750	74.1	68670	90200	66660				
12		64.7	59530	80850	59620	71.7	57350	78840	57800				
15		59.3	46680	67310	49000	68.0	44800	65450	47450				
20		49.3	32640	51430	36590	61.6	31180	49890	35190	72.8	41050	61330	44140
25		37.1	22000	40430	28090	54.7	20440	39180	26830	67.9	28650	46880	32940
30		16.7	14410	31960	21940	47.0	13060	30280	20780	62.9	18180	36940	25090
30.8		0	13660	30620	21180					57.6	11440	27670	19320
35						38.1	8130	21740	16120	51.9	6850	19840	14920
40						26.3	4640	15880	12550	45.7	3530	14350	11390
43						0	2770	12720	10440				
45										38.6	1030	10310	8620
50										30.1	—	7240	6380
55										17.5	—	4900	4520
57										0.0	—	4380	4120

Lifts on tires



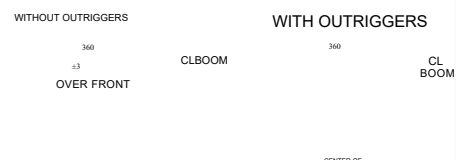
LOAD RATINGS FOR ROUGH TERRAIN CRANE

SET-UP

1. Craneloadratingsarebasedonthecranebeing leveledandstandingonafirmanduniformsupporting surface.
2. Crane load ratings on tires depend on appropriate inflationpressureandtirecondition.Cautionmustbe exercised when increasing air pressures in tires.

Consult**Operator'sManual**forprecautions.
3. Use of jib is not permitted for pick-and-carry operations.

CRANE WORKING POSITIONS



THESE LINES DETERMINE THE LIMITS OF
THOSE SHOWN ON THE CRANE CAPACITY CHART.

SET-UP

1. For pick-and-carry operations, boom must be centered over the front of the crane with swing and brake lock engaged. Use minimum boom point height and keep load close to ground surface. Travel must be on smooth level surface.
2. Theloadshouldberestrainedfromswinging. Noontireoperationwithjiberected.

OPERATION

1. CRANE LOAD RATINGS MUST NOT BE EXCEEDED. NO ATTEMPT TO TIP THE CRANE TO DETERMINE ALLOWABLE LOADS.
2. When radius is between listed values, the smaller of the two listed load ratings shall be used;
3. Do not operate at longer radii than those listed on the applicable **Lift Chart** as tipping can occur without a load on the hook.
4. All telescopic sections must be extended synchronously.
5. Without outriggers, never maneuver the boom beyond listed load radii for applicable tires used to ensure stability.
6. Creep speed is crane movement of less than 61 m (200ft) in 30-minutes period and not exceeding 1.6 KM/H (1MPH).



*For reference only.
Operators manual should be consulted and ad*



LOAD RATINGS FOR ROUGH TERRAIN CRANE

Lift Height on Tires

Lifts on tires