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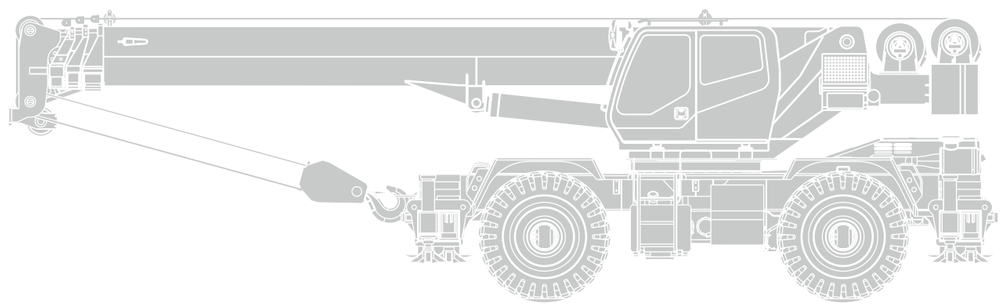
# LOAD CHART MANUAL FOR RT55 ROUGH TERRAIN CRANE



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# RT55 ROUGH TERRAIN CRANE

# LOAD RATINGS

**Edition 1**

Dec. 2013

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# 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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# 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:

**Danger**

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

**Warning**

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

**Caution**

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

**Attention**

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

**Note**

Refers to a tip or hint in the operation instructions.

**Important**

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.

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# LOAD RATINGS FOR ROUGH TERRAIN CRANE

## Chapter 1 Informational data

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### 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 Line Parts**

| MAXIMUM PERMISSIBLE HOIST LINE LOAD | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **LINE PARTS** | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| **MAXIMUM PERMISSIBLE HOIST LINE LOAD (KG)** | 5500 | 11000 | 16500 | 22000 | 27500 | 33000 | 38500 | 44000 | 49500 | 55000 |
| **MAXIMUM PERMISSIBLE HOIST LINE LOAD (LBS)** | 12125 | 24250 | 36375 | 48500 | 60625 | 72750 | 84875 | 97000 | 109125 | 121250 |

Wire rope: 19NAT-15×K7-IWRC-1960Mpa（3/4″ROTATION RESISTANT 15×K7 COMPACTED STRAND, GRADE 1960）

Weight: 160kg/100m (1.1LBS/FT) Minimum breaking strength: 31.1T (30.61TONS)

### 1.2 TIRE INFLATION CHART

**Table 01 – 2 Tire Inflation Chart**

| RECOMMENDED TIRE PRESSURE | | | |
|---|---|---|---|
| **TIRE SIZE** | **STATIONARY** | **CREEP（21/2MPH）** | **TRAVEL** |
| 26.50-25-32PR | 580kpa（85 PSI） | 580kpa（85 PSI） | 450kpa（65 PSI） |

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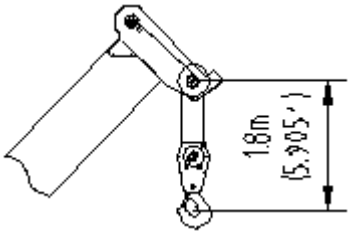
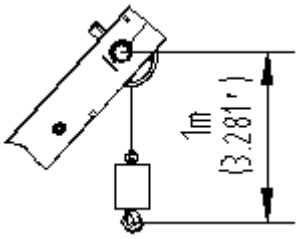
## 1.3 WEIGHTS

**Table 01 – 3 Weights**

| | |
|---|---|
| **HOOK BLOCK WEIGHTS** | DIMENSIONS ARE FOR MAIN HOOK AND AUXILIARY HOOKS. |
| Main hook weight: 650kg（1433 LBS） |  |
| Auxiliary hook weight: 120kg（265 LBS） | |
| **MACHINE EQUIPMENT** | |
| 1. COUNTERWEIGHT: 5000kg（1102 LBS）。 | |
| 2. OUTRIGGER SPREAD: 6.9 m（22.6 ft） from center of outrigger float to center of outrigger float across the longitudinal axis of the machine; 6.9 m（22.6 ft） from center of outrigger float to center of outrigger float across the transversal axis of the machine |  |
| 3. Powered boom length 10.8 m (35.43 ft) retracted to 34 m (111.55ft) extended | |
| 4. Crane height 3.75m (12 ft-3.5 in), length 13.1m (43 ft), width 3.3m (10 ft-10 in), wheelbase 3.95m (8 ft-6.6 in) | |

## 1.4 MAXIMUM OUTRIGGER FLOAT LOAD

When lifting loads shown in these capacity charts, no single float load will exceed 50000 kg (88,000 lb).

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# WARNING

## 1.5 GENERAL

1.5.1 Rated loads as shown on Lifting 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.

1.5.2 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.

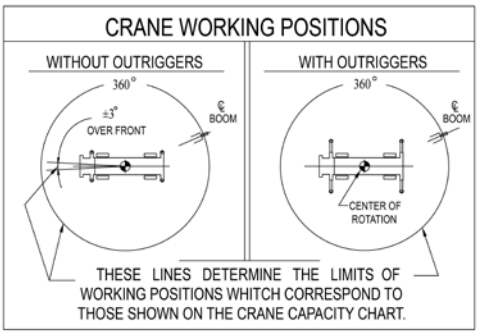
1.5.3 These warnings do not constitute all of the operating conditions for the crane. The operator and job site supervision must read the *Operator's Manual*.

1.5.4 This crane and its load ratings are in accordance with ASME/ANSI B30.5.

## 1.6 DEFINITIONS

1.6.1. 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.

1.6.2. 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.




1.6.3. WORKING AREA – Areas measured in a circular arc about the centerline of rotation as shown in the diagram.

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

1.6.5. Side load – Horizontal force applied to the lifted load either on the ground or in the air.

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

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

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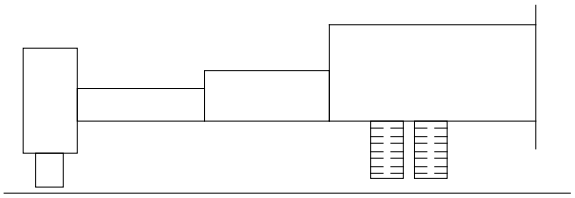
# WARNING

## 1.7 SET-UP

1.7.1. Crane load ratings are based on the crane being leveled and standing on a firm and uniform supporting surface.

1.7.2. Crane load ratings on outriggers are based 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.



1.7.3. Crane load ratings on tires depend on appropriate inflation pressure and the tire conditions. Caution must be exercised when increasing air pressures in tires. Consult Operator's Manual for precautions.

1.7.4. Consult appropriate section of the Operator's Manual for more exact description of hoist line reeving.

1.7.5. 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.

1.7.6. Properly maintained wire rope is essential for safe crane operation. Consult Operator's Manual for proper maintenance and inspection requirements.

1.7.7. 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.

## 1.8 OPERATION

1.8.1. CRANE LOAD RATINGS MUST NOT BE EXCEEDED. DO NOT ATTEMPT TO TIP THE CRANE TO DETERMINE ALLOWABLE LOADS.

1.8.2. When either radius or boom length, or both, are between listed values, the smaller of the two listed load ratings shall be used.

1.8.3. Do not operate at longer radii than those listed on the applicable Lift Chart (cross hatched areas shown on range diagrams) as tipping can occur without a load on the hook.

1.8.4. The boom angles shown on the Lift Charts give an approximation of the operating radius for a specified boom length. The boom angle, before loading, should be

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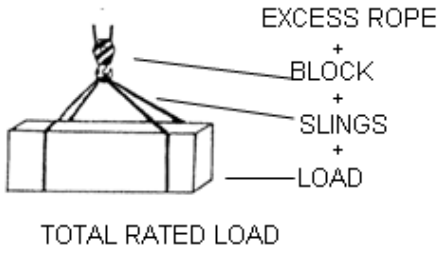
greater to account for boom deflection. It may be necessary to retract the boom if maximum boom angle is insufficient to maintain rated radius.

1.8.5. All telescopic sections must be extended synchronically.

**WARNING**

1.8.6. 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.




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

1.8.8. 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.

1.8.9. 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: 952 kg (2099 lbs)).

1.8.10. Rated loads do not exceed 85% on outriggers or 75% on tires, of the tipping load as determined by ASME/ANSI B30.5.

1.8.11. Rated loads are based on freely suspended loads. No attempt shall be made to drag a load horizontally on the ground in any direction.

1.8.12. The user 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 off 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 higher than the maximum permissible value (45 ft/s (13.8 m/s), grade 6) or it is fulminous during crane operation, stop working and completely retract the boom and place it on the boom support for traveling.

1.8.13. Load ratings are dependent upon the crane being maintained according to manufacturer’s specifications.

1.8.14. It is recommended that load handling devices, including hooks, and hook blocks, be kept away from boom head at all times.

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# LOAD RATINGS FOR ROUGH TERRAIN CRANE

## Chapter 2 Lifts with outrigger beams fully extended

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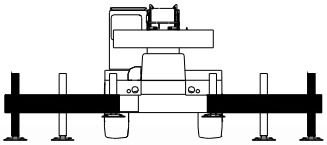
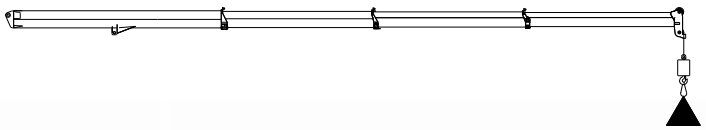
## 2.1 MAIN BOOM RATED LOADS

USE THIS CHART ONLY WHEN ALL OUTRIGGERS ARE FULLY EXTENDED





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

| Working Radius (mm) | Boom Length (mm) | | | | | | Working Radius (mm) |
|---|---|---|---|---|---|---|---|
| | 10080 | 15440 | 20080 | 24720 | 29360 | 34000 | |
| 3000 | 55000 | 27200 | | | | | 3000 |
| 3500 | 51300 | 27200 | | | | | 3500 |
| 4000 | 47550 | 27200 | | | | | 4000 |
| 4500 | 43250 | 27200 | 26300 | | | | 4500 |
| 5000 | 39200 | 27200 | 26300 | | | | 5000 |
| 5500 | 35750 | 27200 | 26300 | | | | 5500 |
| 6000 | 32790 | 27200 | 25300 | 20000 | | | 6000 |
| 6500 | 30240 | 27200 | 24300 | 19300 | | | 6500 |
| 7000 | 27950 | 26450 | 23000 | 18650 | | | 7000 |
| 7500 | 25670 | 25000 | 21800 | 18050 | 15290 | | 7500 |
| 8000 | 22510 | 23200 | 20700 | 17400 | 14750 | | 8000 |
| 8830 | 17460 | | | | | | 8830 |
| 9000 | | 18510 | 18750 | 15790 | 13850 | 10560 | 9000 |
| 10000 | | 15250 | 15530 | 14500 | 12700 | 10560 | 10000 |
| 11000 | | 12820 | 13100 | 13300 | 11700 | 10100 | 11000 |
| 12000 | | 10960 | 11220 | 11410 | 10800 | 9350 | 12000 |
| 13000 | | 9510 | 9730 | 9920 | 9930 | 8650 | 13000 |
| 13461 | | 9030 | | | | | 13461 |
| 14000 | | | 8530 | 8700 | 8720 | 8040 | 14000 |
| 16000 | | | 6720 | 6860 | 6880 | 7040 | 16000 |
| 18000 | | | 5470 | 5540 | 5550 | 5700 | 18000 |
| 18096 | | | 5460 | | | | 18096 |
| 20000 | | | | 4540 | 4550 | 4680 | 20000 |
| 22000 | | | | 3790 | 3780 | 3890 | 22000 |
| 22733 | | | | 3610 | | | 22733 |
| 24000 | | | | | 3160 | 3260 | 24000 |
| 26000 | | | | | 2680 | 2740 | 26000 |
| 27371 | | | | | 2470 | | 27371 |
| 28000 | | | | | | 2310 | 28000 |
| 30000 | | | | | | 1960 | 30000 |
| 32000 | | | | | | 1700 | 32000 |
| 32009 | | | | | | 1700 | 32009 |

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| Rated loads on outriggers fully extended - 360° (Rated load unit: lb) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Working Radius (ft) | Boom Length (ft) | | | | | | Working Radius (ft) |
| | 35 | 51 | 66 | 81 | 96 | 112 | |
| 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 |
| 28 | 38380 | | | | | | 28 |
| 30 | | 38250 | 37290 | 31570 | 27610 | 23280 | 30 |
| 35 | | 28750 | 29530 | 27610 | 24200 | 21120 | 35 |
| 40 | | 22590 | 23260 | 23830 | 21450 | 18700 | 40 |
| 44 | | 19110 | | | | | 44 |
| 45 | | | 18860 | 19370 | 19250 | 16720 | 45 |
| 50 | | | 15610 | 16070 | 16240 | 15070 | 50 |
| 55 | | | 13140 | 13530 | 13690 | 13640 | 55 |
| 59 | | | 11560 | | | | 59 |
| 60 | | | | 11520 | 11660 | 12060 | 60 |
| 65 | | | | 9890 | 10020 | 10390 | 65 |
| 70 | | | | 8570 | 8670 | 9010 | 70 |
| 74 | | | | 7640 | | | 74 |
| 75 | | | | | 7540 | 7850 | 75 |
| 80 | | | | | 6580 | 6860 | 80 |
| 85 | | | | | 5780 | 6000 | 85 |
| 89 | | | | | 5220 | | 89 |
| 90 | | | | | | 5260 | 90 |
| 95 | | | | | | 4620 | 95 |
| 100 | | | | | | 4060 | 100 |
| 105 | | | | | | 3600 | 105 |

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**SET-UP**

1. Crane load ratings are based on the crane being leveled and standing on a firm and uniform supporting surface.
2. Crane load ratings on outriggers are based on all outrigger beams being fully extended / retracted, or in the case of partial extension ratings mechanically pinned in the appropriated 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. When either radius or boom length, or both, are between listed values, the smaller of the two listed load ratings shall be used.
3. EXTRA-CAUTION ZONE – Tipping can occur with some boom/jib combinations at radii within this area without any load on the hook.
4. The boom angles shown on the Lift Charts give an approximation of the operation 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. 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. 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. All telescopic sections must be extended synchronically.

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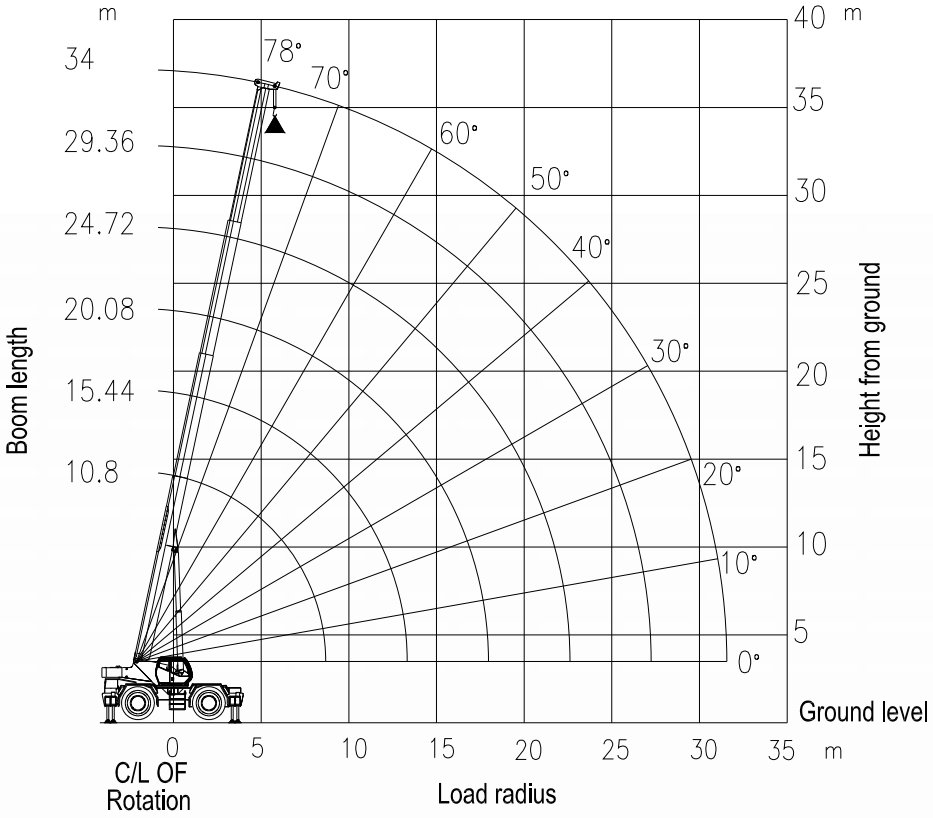
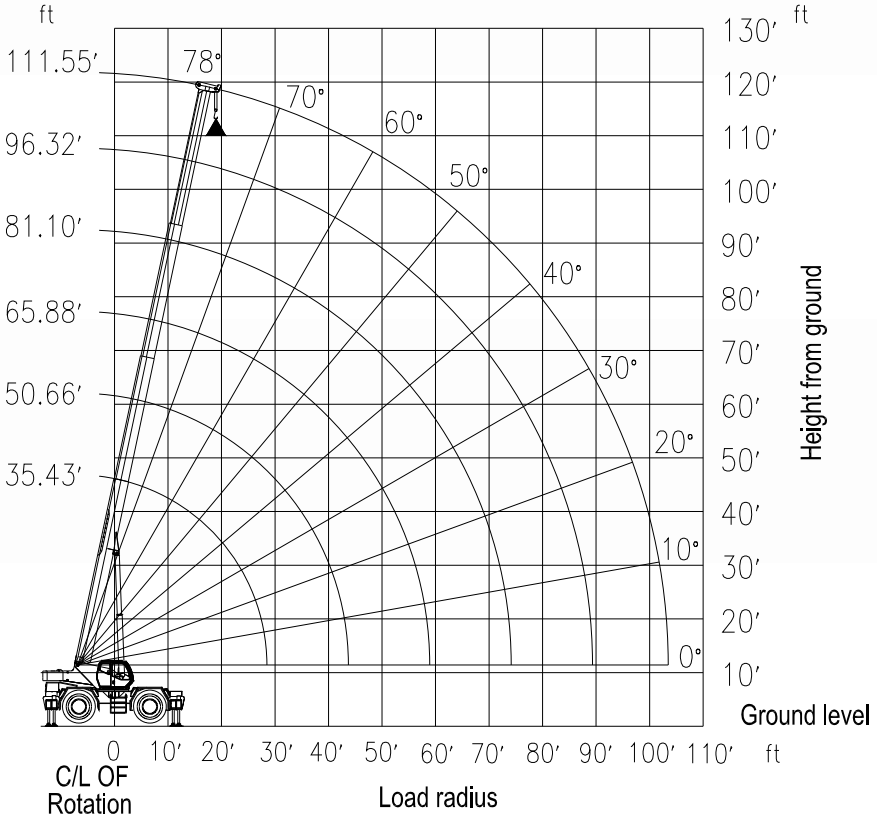
Lifts with outrigger beams fully extended

BOOM DEFLECTIONS NOT SHOWN




BOOM DEFLECTIONS NOT SHOWN




**Lift Height on Outriggers Fully Extended**

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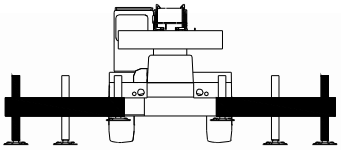
## 2.2 10 M JIB LIFTING CAPACITIES

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



**10 m jib lifting capacities - 360°**

**(Lifting capacity unit: kg Working radius unit: mm)**

| Derricking Angle (º) | 0º Offset | | 20º Offset | | 40º Offset | |
|---|---|---|---|---|---|---|
| | Working Radius (mm) | 360º (kg) | Working Radius (mm) | 360º (kg) | Working Radius (mm) | 360º (kg) |
| 76 | 8645 | 5500 | 11471 | 2850 | 13695 | 1940 |
| 74 | 10129 | 5050 | 12909 | 2700 | 15057 | 1890 |
| 72 | 11598 | 4600 | 14329 | 2550 | 16398 | 1850 |
| 70 | 13050 | 4200 | 15729 | 2450 | 17716 | 1800 |
| 68 | 14484 | 3840 | 17107 | 2350 | 19011 | 1750 |
| 66 | 15898 | 3500 | 18462 | 2250 | 20280 | 1700 |
| 64 | 17290 | 3200 | 19792 | 2150 | 21522 | 1700 |
| 62 | 18659 | 2900 | 21096 | 2050 | 22735 | 1650 |
| 60 | 20002 | 2700 | 22371 | 1990 | 23918 | 1600 |
| 58 | 21319 | 2500 | 23617 | 1940 | 25069 | 1600 |
| 56 | 22607 | 2300 | 24832 | 1850 | 26187 | 1550 |
| 54 | 23865 | 2150 | 26013 | 1800 | 27271 | 1550 |
| 52 | 25092 | 1990 | 27161 | 1750 | 28320 | 1550 |
| 50 | 26285 | 1850 | 28273 | 1650 | 29331 | 1500 |
| 48 | 27445 | 1750 | 29349 | 1550 | 30304 | 1450 |
| 46 | 28568 | 1600 | 30386 | 1450 | 31238 | 1400 |
| 44 | 29654 | 1500 | 31384 | 1400 | 32132 | 1350 |
| 42 | 30702 | 1420 | 32341 | 1300 | 32984 | 1250 |
| 40 | 31709 | 1290 | 33256 | 1230 | 33793 | 1200 |
| 38 | 32676 | 1180 | 34128 | 1120 | 34558 | 1100 |

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Lifts with outrigger beams fully extended

| 10 m jib lifting capacities - 360° (Lifting capacity unit: lb Working radius unit: ft) | | | | | | |
|---|---|---|---|---|---|---|
| Derricking Angle (°) | 0° Offset | | 20° Offset | | 40° Offset | |
| | Working Radius (ft) | 360° (lb) | Working Radius (ft) | 360° (lb) | Working Radius (ft) | 360° (lb) |
| 76 | 28 | 12100 | 37 | 6270 | 44 | 4290 |
| 74 | 33 | 11110 | 42 | 5940 | 49 | 4180 |
| 72 | 38 | 10120 | 47 | 5610 | 53 | 4070 |
| 70 | 42 | 9240 | 51 | 5390 | 58 | 3960 |
| 68 | 47 | 8470 | 56 | 5170 | 62 | 3850 |
| 66 | 52 | 7700 | 60 | 4950 | 66 | 3740 |
| 64 | 56 | 7040 | 64 | 4730 | 70 | 3740 |
| 62 | 61 | 6380 | 69 | 4510 | 74 | 3630 |
| 60 | 65 | 5940 | 73 | 4400 | 78 | 3520 |
| 58 | 69 | 5500 | 77 | 4290 | 82 | 3520 |
| 56 | 74 | 5060 | 81 | 4070 | 85 | 3410 |
| 54 | 78 | 4730 | 85 | 3960 | 89 | 3410 |
| 52 | 82 | 4400 | 89 | 3850 | 92 | 3410 |
| 50 | 86 | 4070 | 92 | 3630 | 96 | 3300 |
| 48 | 90 | 3850 | 96 | 3410 | 99 | 3190 |
| 46 | 93 | 3520 | 99 | 3190 | 102 | 3080 |
| 44 | 97 | 3300 | 102 | 3080 | 105 | 2970 |
| 42 | 100 | 3130 | 106 | 2860 | 108 | 2750 |
| 40 | 104 | 2850 | 109 | 2710 | 110 | 2640 |
| 38 | 107 | 2590 | 111 | 2480 | 113 | 2420 |

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**SET-UP**

1. Crane load ratings are based on the crane being leveled and standing on a firm and uniform supporting surface.
2. Crane load ratings on outriggers are based on all outriggers 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.

**OPERATION**

1. CRANE LOAD RATINGS MUST NOT BE EXCEEDED. NO 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. EXTRA-CAUTION ZONE – Tipping can occur with some boom/jib combinations at radii within this area without any load on the hook.
4. The boom angles shown on the Lift Chart give an approximation of the operation 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. 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. 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. When lifting over the jib, the weight of any hook block, slings, and any auxiliary lifting devices at the boom head must be added to the load.
7. For all boom lengths less than the maximum with the jib erected, the rated loads are determined by boom angle only in the appropriate column.
8. For all boom lengths less than the listed boom length, the rated load is to be determined by boom angle.

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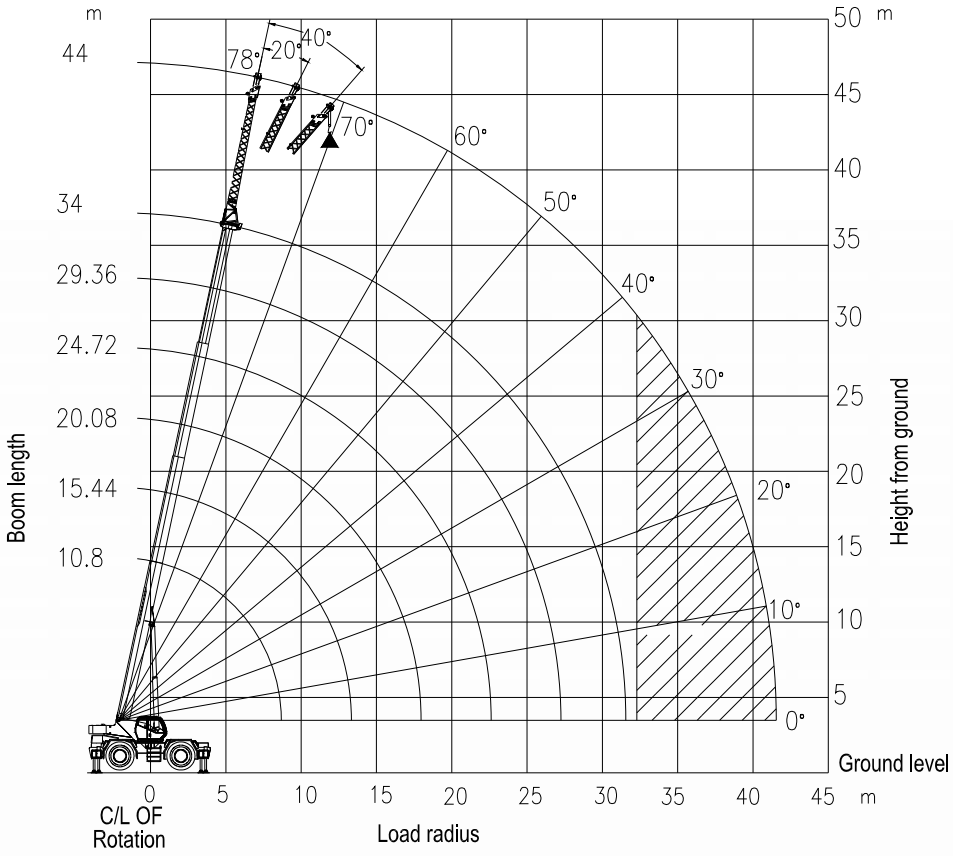
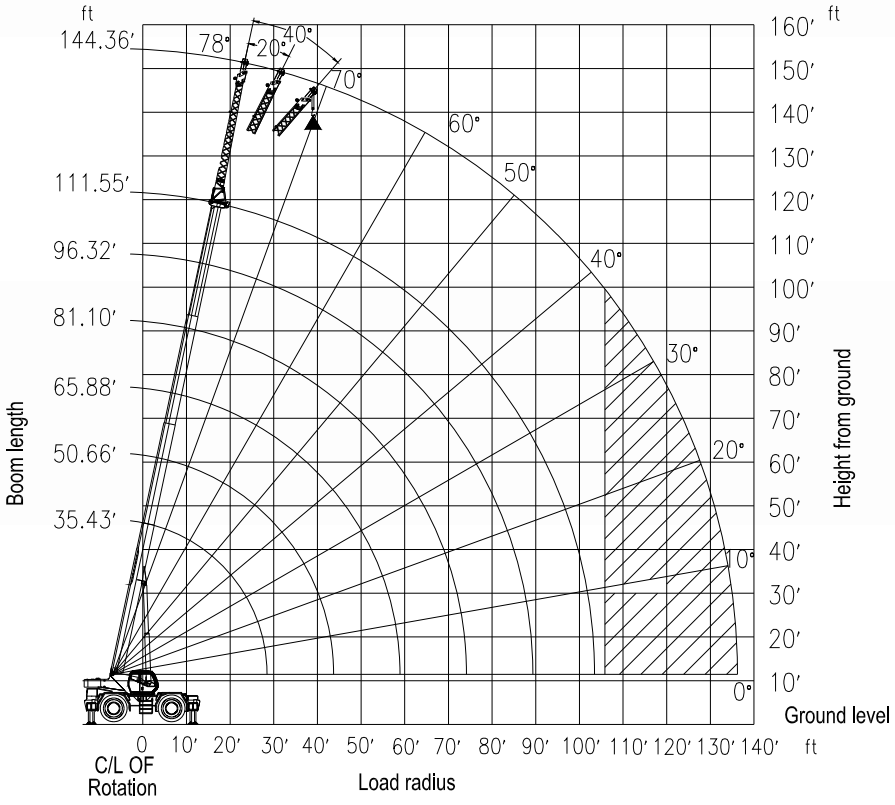
Lifts with outrigger beams fully extended

BOOM DEFLECTIONS NOT SHOWN




BOOM DEFLECTIONS NOT SHOWN




**Lift Height on Jib Section 1 Erected**

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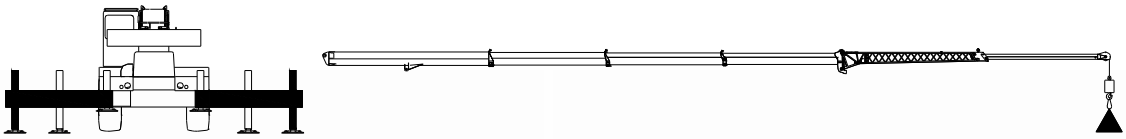
## 2.3 17 M JIB RATED LOADS

USE THIS CHART ONLY WHEN ALL OUTRIGGERS ARE FULLY EXTENDED

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



**17 m jib rated loads - 360°**
**(Rated load unit: kg Working radius unit: mm)**

| Boom Angle (°) | 0° Offset | | 20° Offset | | 40° Offset | |
|---|---|---|---|---|---|---|
| | Working Radius (mm) | 360° (kg) | Working Radius (mm) | 360° (kg) | Working Radius (mm) | 360° (kg) |
| 76 | 10338 | 3150 | 15384 | 1550 | 19357 | 1050 |
| 74 | 12058 | 2800 | 17022 | 1450 | 20858 | 990 |
| 72 | 13760 | 2550 | 18637 | 1400 | 22332 | 940 |
| 70 | 15444 | 2300 | 20227 | 1300 | 23777 | 940 |
| 68 | 17106 | 2150 | 21789 | 1250 | 25190 | 900 |
| 66 | 18744 | 1940 | 23323 | 1200 | 26569 | 900 |
| 64 | 20358 | 1850 | 24826 | 1150 | 27914 | 850 |
| 62 | 21944 | 1700 | 26296 | 1100 | 29223 | 850 |
| 60 | 23501 | 1600 | 27732 | 1050 | 30493 | 800 |
| 58 | 25027 | 1500 | 29131 | 990 | 31724 | 800 |
| 56 | 26520 | 1400 | 30493 | 940 | 32914 | 800 |
| 54 | 27978 | 1350 | 31815 | 940 | 34061 | 750 |
| 52 | 29400 | 1250 | 33096 | 900 | 35165 | 750 |
| 50 | 30784 | 1200 | 34334 | 850 | 36223 | 750 |
| 48 | 32127 | 1100 | 35527 | 850 | 37234 | 750 |
| 46 | 33429 | 990 | 36675 | 800 | 38198 | 750 |
| 44 | 34688 | 940 | 37776 | 800 | 39112 | 750 |
| 42 | 35902 | 850 | 38829 | 750 | 39977 | 700 |
| 40 | 37070 | 800 | 39831 | 700 | 40791 | 650 |
| 38 | 38190 | 750 | 40783 | 650 | 41552 | 650 |

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Lifts with outrigger beams fully extended

| 17 m jib lifting capacities - 360° (Lifting capacity unit: lb Working radius unit: ft) | | | | | | |
|---|---|---|---|---|---|---|
| Boom Angle (°) | 0° Offset | | 20° Offset | | 40° Offset | |
| | Working Radius (ft) | 360° (lb) | Working Radius (ft) | 360° (lb) | Working Radius (ft) | 360° (lb) |
| 76 | 33 | 6930 | 50 | 3410 | 63 | 2310 |
| 74 | 39 | 6160 | 55 | 3190 | 68 | 2200 |
| 72 | 45 | 5610 | 61 | 3080 | 73 | 2090 |
| 70 | 50 | 5060 | 66 | 2860 | 78 | 2090 |
| 68 | 56 | 4730 | 71 | 2750 | 82 | 1980 |
| 66 | 61 | 4290 | 76 | 2640 | 87 | 1980 |
| 64 | 66 | 4070 | 81 | 2530 | 91 | 1870 |
| 62 | 71 | 3740 | 86 | 2420 | 95 | 1870 |
| 60 | 77 | 3520 | 90 | 2310 | 100 | 1760 |
| 58 | 82 | 3300 | 95 | 2200 | 104 | 1760 |
| 56 | 87 | 3080 | 100 | 2090 | 107 | 1760 |
| 54 | 91 | 2970 | 104 | 2090 | 111 | 1650 |
| 52 | 96 | 2750 | 108 | 1980 | 115 | 1650 |
| 50 | 100 | 2640 | 112 | 1870 | 118 | 1650 |
| 48 | 105 | 2420 | 116 | 1870 | 122 | 1650 |
| 46 | 109 | 2200 | 120 | 1760 | 125 | 1650 |
| 44 | 113 | 2090 | 123 | 1760 | 128 | 1650 |
| 42 | 117 | 1870 | 127 | 1650 | 131 | 1540 |
| 40 | 121 | 1760 | 130 | 1540 | 133 | 1430 |
| 38 | 125 | 1650 | 133 | 1430 | 136 | 1430 |

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**SET-UP**

1. Crane load ratings are based on the crane being leveled and standing on a firm and uniform supporting surface.
2. Crane load ratings on outriggers are based on all outriggers 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.

**OPERATION**

1. CRANE LOAD RATINGS MUST NOT BE EXCEEDED. NO 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. EXTRA-CAUTION ZONE – Tipping can occur with some boom/jib combinations at radii within this area without any load on the hook.
4. The boom angles shown on the Lift Chart give an approximation of the operation 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. 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. 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. When lifting over the jib, the weight of any hook block, slings, and any auxiliary lifting devices at the boom head must be added to the load.
7. For all boom lengths less than the maximum with the jib erected, the rated loads are determined by boom angle only in the appropriate column.
8. For all boom lengths less than the listed boom length, the rated load is to be determined by boom angle.

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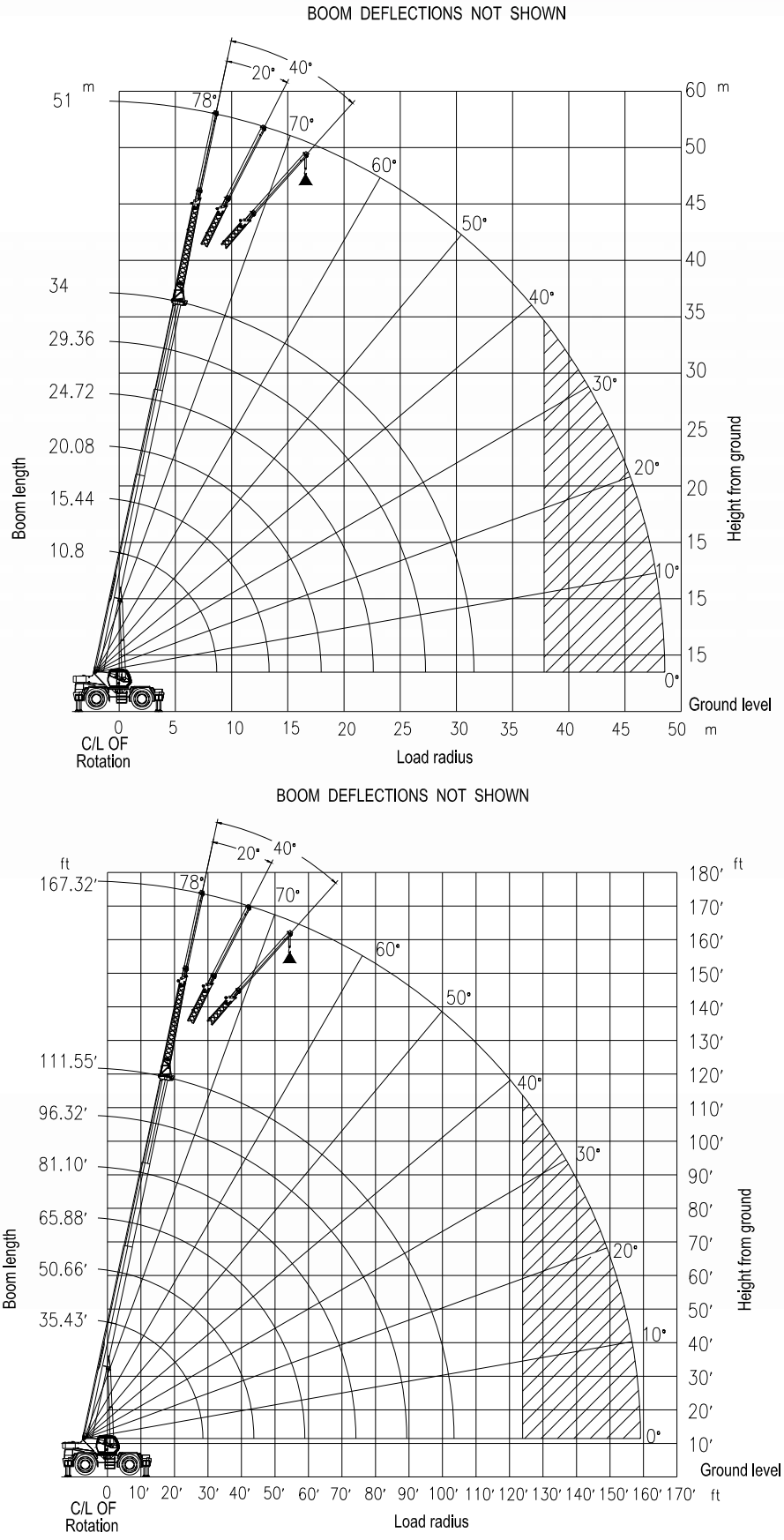
Lifts with outrigger beams fully extended




**Lift Height on Jib Section 2 Erected**

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# LOAD RATINGS FOR ROUGH TERRAIN CRANE

## Chapter 3 Lifts with outrigger beams at mid-position

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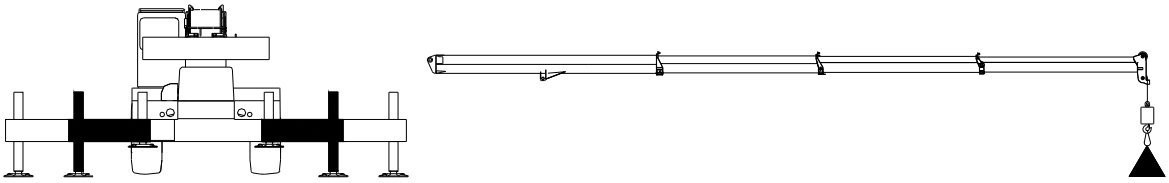
## 3.1 MAIN BOOM RATED LOADS

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)**

| Working Radius (mm) | Boom Length (mm) | | | | | | Working Radius (mm) |
|---|---|---|---|---|---|---|---|
| | 10800 | 15440 | 20080 | 24720 | 29360 | 34000 | |
| 3000 | 51750 | 27200 | | | | | 3000 |
| 3500 | 45450 | 27200 | | | | | 3500 |
| 4000 | 40350 | 27200 | | | | | 4000 |
| 4500 | 36150 | 27200 | 26300 | | | | 4500 |
| 5000 | 30380 | 27200 | 26300 | | | | 5000 |
| 5500 | 24990 | 25610 | 25880 | | | | 5500 |
| 6000 | 21110 | 21680 | 21930 | 20000 | | | 6000 |
| 6500 | 18180 | 18710 | 18950 | 19140 | | | 6500 |
| 7000 | 15870 | 16400 | 16630 | 16800 | | | 7000 |
| 7500 | 14010 | 14540 | 14760 | 14920 | 14900 | | 7500 |
| 8000 | 12490 | 13000 | 13230 | 13380 | 13370 | | 8000 |
| 8500 | 11230 | 11700 | 11940 | 12100 | 12080 | | 8500 |
| 8830 | 10610 | | | | | | 8830 |
| 9000 | | 10610 | 10830 | 11000 | 10980 | 10560 | 9000 |
| 9500 | | 9670 | 9890 | 10050 | 10030 | 10180 | 9500 |
| 10000 | | 8850 | 9070 | 9220 | 9210 | 9360 | 10000 |
| 10500 | | 8140 | 8350 | 8500 | 8500 | 8640 | 10500 |
| 11000 | | 7510 | 7710 | 7860 | 7860 | 8000 | 11000 |
| 11500 | | 6960 | 7150 | 7300 | 7300 | 7440 | 11500 |
| 12000 | | 6460 | 6650 | 6790 | 6790 | 6930 | 12000 |
| 12500 | | 6020 | 6190 | 6330 | 6340 | 6470 | 12500 |
| 13000 | | 5630 | 5780 | 5920 | 5930 | 6060 | 13000 |
| 13461 | | 5360 | | | | | 13461 |

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

| Working Radius (mm) | Boom Length (mm) | | | | | | Working Radius (mm) |
|---|---|---|---|---|---|---|---|
| | 10800 | 15440 | 20080 | 24720 | 29360 | 34000 | |
| 13500 | | | 5410 | 5550 | 5550 | 5680 | 13500 |
| 14000 | | | 5080 | 5200 | 5210 | 5340 | 14000 |
| 14500 | | | 4770 | 4890 | 4900 | 5030 | 14500 |
| 15000 | | | 4480 | 4600 | 4610 | 4740 | 15000 |
| 15500 | | | 4220 | 4340 | 4350 | 4470 | 15500 |
| 16000 | | | 3980 | 4090 | 4100 | 4220 | 16000 |
| 16500 | | | 3760 | 3860 | 3880 | 3990 | 16500 |
| 17000 | | | 3560 | 3650 | 3660 | 3780 | 17000 |
| 17500 | | | 3380 | 3460 | 3470 | 3580 | 17500 |
| 18000 | | | 3220 | 3270 | 3280 | 3390 | 18000 |
| 18096 | | | 3230 | | | | 18096 |
| 18500 | | | | 3100 | 3110 | 3220 | 18500 |
| 19000 | | | | 2940 | 2950 | 3060 | 19000 |
| 19500 | | | | 2790 | 2800 | 2900 | 19500 |
| 20000 | | | | 2650 | 2650 | 2760 | 20000 |
| 20500 | | | | 2520 | 2520 | 2620 | 20500 |
| 21000 | | | | 2390 | 2390 | 2490 | 21000 |
| 21500 | | | | 2280 | 2270 | 2370 | 21500 |
| 22000 | | | | 2180 | 2160 | 2250 | 22000 |
| 22500 | | | | 2080 | 2060 | 2140 | 22500 |
| 22733 | | | | 2070 | | | 22733 |
| 23000 | | | | | 1950 | 2040 | 23000 |
| 23500 | | | | | 1860 | 1940 | 23500 |

Lifts with outrigger beams at mid-position

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| Rated loads on outriggers pinned in mid-position - 360° (Rated load unit: lb) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Working Radius (ft) | Boom Length (ft) | | | | | | Working Radius (ft) |
| | 35 | 51 | 66 | 81 | 96 | 112 | |
| 10 | 112530 | 60200 | | | | | 10 |
| 12 | 96360 | 60200 | | | | | 12 |
| 15 | 78320 | 60200 | 58190 | | | | 15 |
| 20 | 46530 | 48300 | 49350 | 40810 | | | 20 |
| 25 | 30540 | 32020 | 32890 | 33590 | 31350 | | 25 |
| 28 | 23520 | | | | | | 28 |
| 30 | | 23140 | 23900 | 24520 | 24720 | 23280 | 30 |
| 35 | | 17560 | 18250 | 18810 | 18990 | 19510 | 35 |
| 40 | | 13770 | 14370 | 14880 | 15050 | 15530 | 40 |
| 44 | | 11600 | | | | | 44 |
| 45 | | | 11550 | 12020 | 12180 | 12630 | 45 |
| 50 | | | 9420 | 9840 | 10000 | 10420 | 50 |
| 55 | | | 7770 | 8140 | 8280 | 8680 | 55 |
| 59 | | | 6740 | | | | 59 |
| 60 | | | | 6770 | 6900 | 7280 | 60 |
| 65 | | | | 5650 | 5770 | 6120 | 65 |
| 70 | | | | 4740 | 4830 | 5160 | 70 |
| 74 | | | | 4120 | | | 74 |
| 75 | | | | | 4040 | 4340 | 75 |
| 80 | | | | | 3370 | 3630 | 80 |
| 85 | | | | | 2810 | 3030 | 85 |
| 89 | | | | | 2440 | | 89 |
| 90 | | | | | | 2500 | 90 |

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**SET-UP**

1. Crane load ratings are based on the crane being leveled and standing on a firm and uniform supporting surface.
2. Crane load ratings on outriggers are based on all outrigger beams being fully extended / 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. When either radius or boom length, or both, are between listed values, the smaller of the two listed load ratings shall be used.
3. EXTRA-CAUTION ZONE – Tipping can occur with some boom/jib combinations at radii within this area without any load on the hook.
4. The boom angles shown on the Lift Charts give an approximation of the operation 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. 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. 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.
6. All telescopic sections must be extended synchronously.

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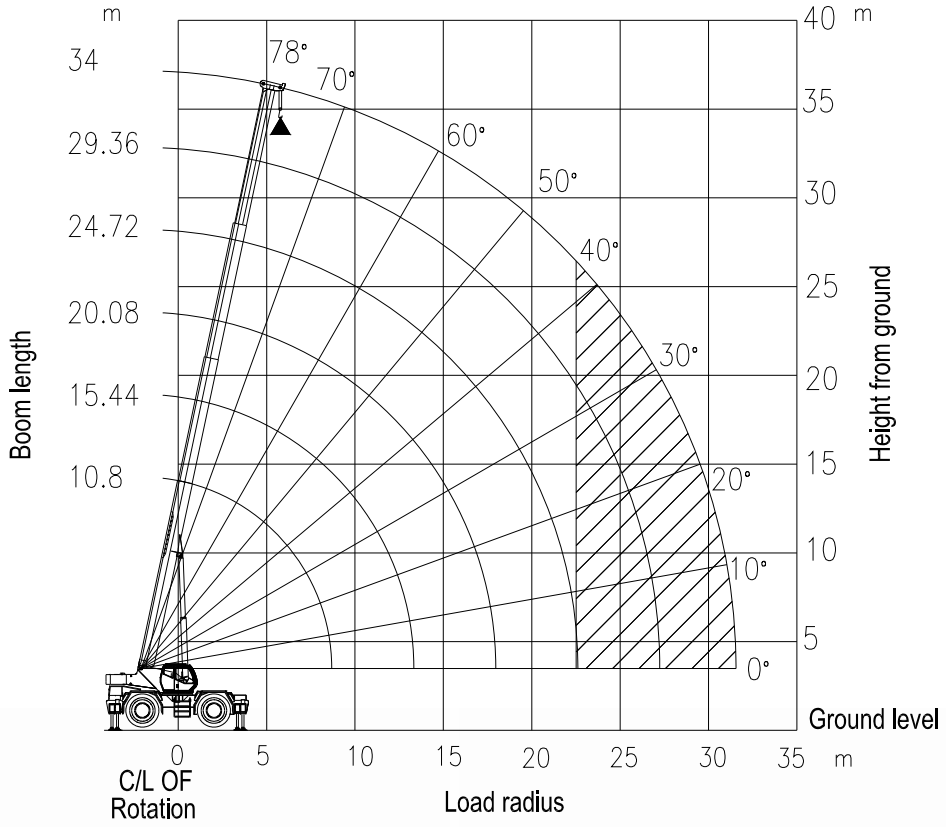
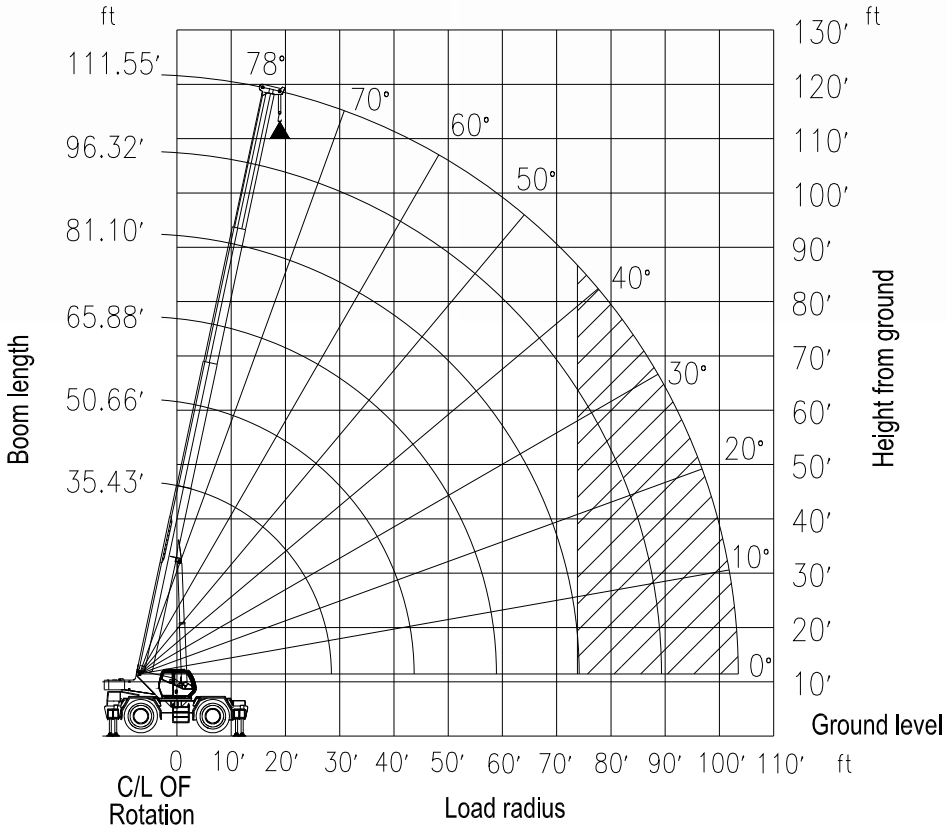
BOOM DEFLECTIONS NOT SHOWN




BOOM DEFLECTIONS NOT SHOWN




**Lift Height on Outriggers Pinned in the Mid-position**

Lifts with outrigger beams at mid-position

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ZOOMLION

# LOAD RATINGS FOR ROUGH TERRAIN CRANE

## Chapter 4 Lifts with outrigger beams fully retracted

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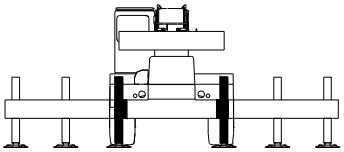
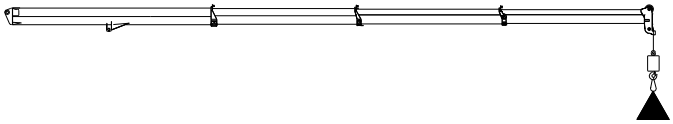
## 4.1 MAIN BOOM RATED LOADS

USE THIS CHART WHEN ALL OUTRIGGERS ARE FULLY RETRACTED





**Rated loads on outriggers are fully retracted - 360°**
**(Rated load unit: kg)**

| Working Radius (mm) | Boom Length (mm) | | | | | | Working Radius (mm) |
|---|---|---|---|---|---|---|---|
| | 10800 | 15440 | 20080 | 24720 | 29360 | 34000 | |
| 3000 | 33990 | 27200 | | | | | 3000 |
| 3500 | 25270 | 25920 | | | | | 3500 |
| 4000 | 19890 | 20470 | | | | | 4000 |
| 4500 | 16240 | 16770 | 16980 | | | | 4500 |
| 5000 | 13570 | 14090 | 14290 | | | | 5000 |
| 5500 | 11540 | 12050 | 12260 | | | | 5500 |
| 6000 | 9950 | 10440 | 10650 | 10820 | | | 6000 |
| 6500 | 8670 | 9140 | 9350 | 9510 | | | 6500 |
| 7000 | 7620 | 8080 | 8290 | 8440 | | | 7000 |
| 7500 | 6750 | 7190 | 7400 | 7540 | 7520 | | 7500 |
| 8000 | 6020 | 6440 | 6640 | 6780 | 6770 | | 8000 |
| 8500 | 5390 | 5800 | 5990 | 6130 | 6120 | | 8500 |
| 8830 | 5090 | | | | | | 8830 |
| 9000 | | 5240 | 5430 | 5570 | 5560 | 5690 | 9000 |
| 9500 | | 4750 | 4940 | 5080 | 5070 | 5200 | 9500 |
| 10000 | | 4320 | 4500 | 4640 | 4630 | 4760 | 10000 |
| 10500 | | 3930 | 4120 | 4250 | 4250 | 4370 | 10500 |
| 11000 | | 3590 | 3770 | 3900 | 3900 | 4030 | 11000 |
| 11500 | | 3290 | 3460 | 3590 | 3590 | 3710 | 11500 |
| 12000 | | 3010 | 3180 | 3310 | 3310 | 3430 | 12000 |
| 12500 | | 2770 | 2920 | 3050 | 3060 | 3180 | 12500 |
| 13000 | | 2550 | 2690 | 2820 | 2820 | 2940 | 13000 |
| 13461 | | 2420 | | | | | 13461 |
| 13500 | | | 2480 | 2600 | 2610 | 2730 | 13500 |
| 14000 | | | 2290 | 2400 | 2410 | 2530 | 14000 |
| 14500 | | | 2110 | 2220 | 2230 | 2350 | 14500 |
| 15000 | | | 1940 | 2050 | 2060 | 2180 | 15000 |

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**Rated loads on outriggers are fully retracted - 360°**
**(Rated load unit: lb)**

| Working Radius (ft) | Boom Length (ft) | | | | | | Working Radius (ft) |
|---|---|---|---|---|---|---|---|
| | 35 | 51 | 66 | 81 | 96 | 112 | |
| 10 | 76010 | 60200 | | | | | 10 |
| 12 | 53440 | 55340 | | | | | 12 |
| 15 | 35750 | 37370 | 38340 | | | | 15 |
| 20 | 21540 | 22910 | 23720 | 24380 | | | 20 |
| 25 | 14310 | 15530 | 16260 | 16840 | 17020 | | 25 |
| 28 | 10850 | | | | | | 28 |
| 30 | | 11070 | 11730 | 12270 | 12440 | 12930 | 30 |
| 35 | | 8100 | 8700 | 9200 | 9360 | 9820 | 35 |
| 40 | | 6000 | 6540 | 7000 | 7160 | 7590 | 40 |
| 44 | | 4820 | | | | | 44 |
| 45 | | | 4930 | 5350 | 5500 | 5910 | 45 |
| 50 | | | 3680 | 4070 | 4220 | 4610 | 50 |
| 55 | | | 2720 | 3050 | 3190 | 3560 | 55 |

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**SET-UP**

1. Crane load ratings are based on the crane being leveled and standing on a firm and uniform supporting surface.
2. Crane load ratings on outriggers are based on all outrigger beams being fully extended / 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. When either radius or boom length, or both, are between listed values, the smaller of the two listed load ratings shall be used.
3. EXTRA-CAUTION ZONE – Tipping can occur with some boom/jib combinations at radii within this area without any load on the hook.
4. The boom angles shown on the Lift Charts give an approximation of the operation 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. 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. 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.
6. All telescopic sections must be extended synchronously.

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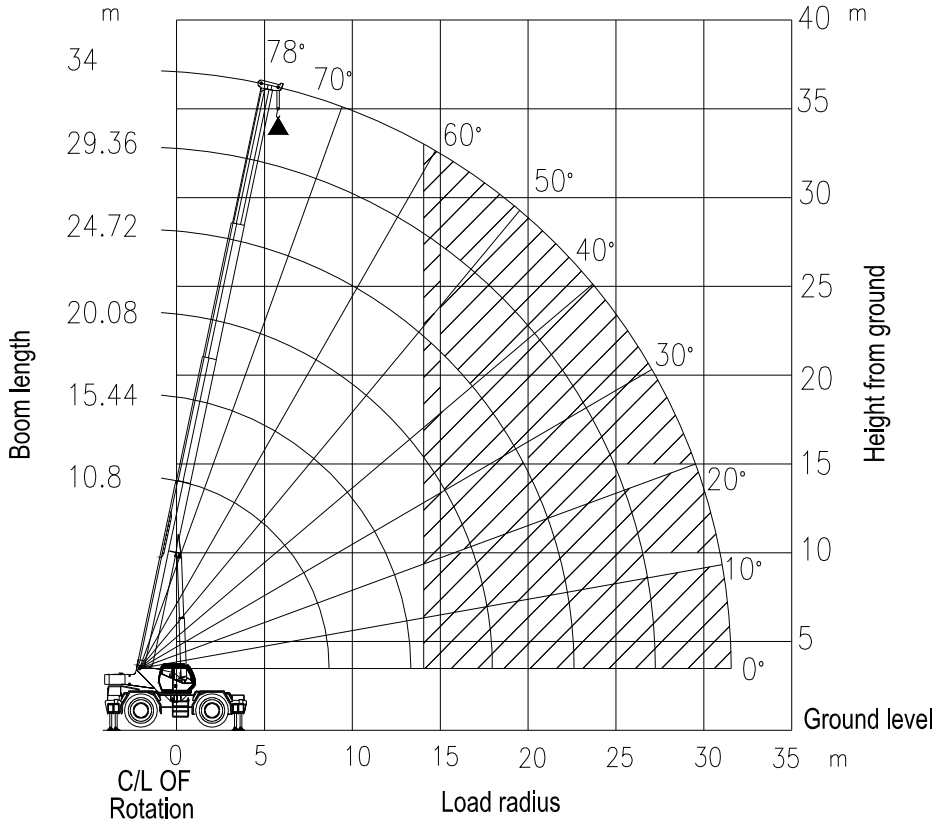
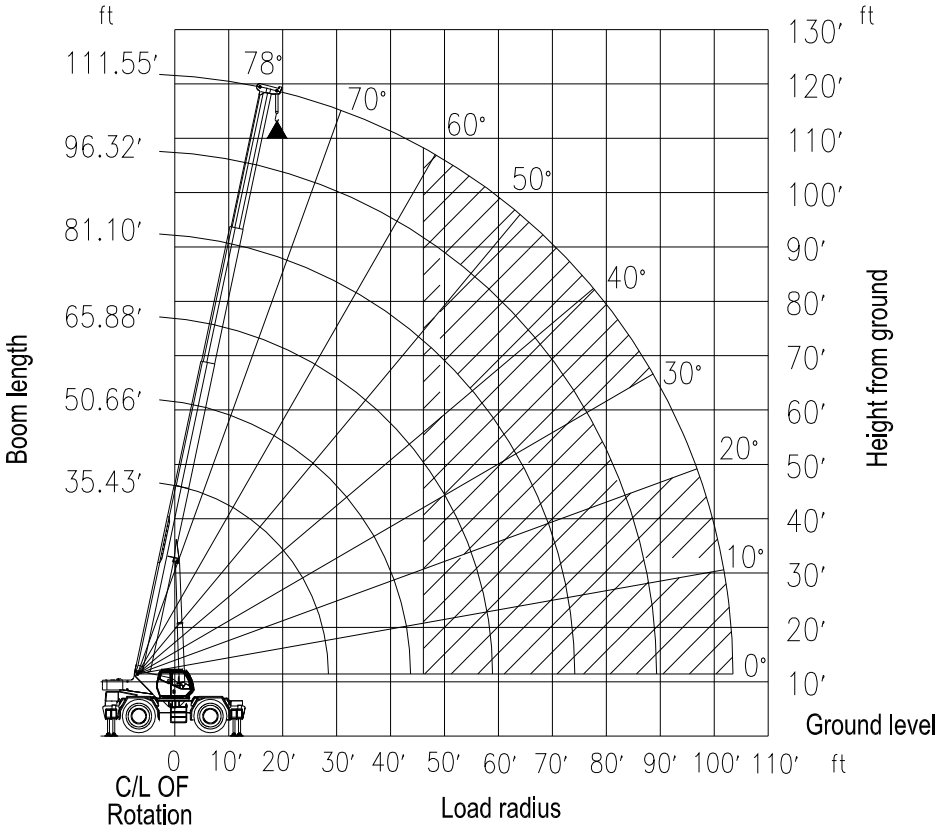
BOOM DEFLECTIONS NOT SHOWN




BOOM DEFLECTIONS NOT SHOWN




**Lift Height on Outriggers Fully Retracted**

Lifts with outrigger beams fully retracted

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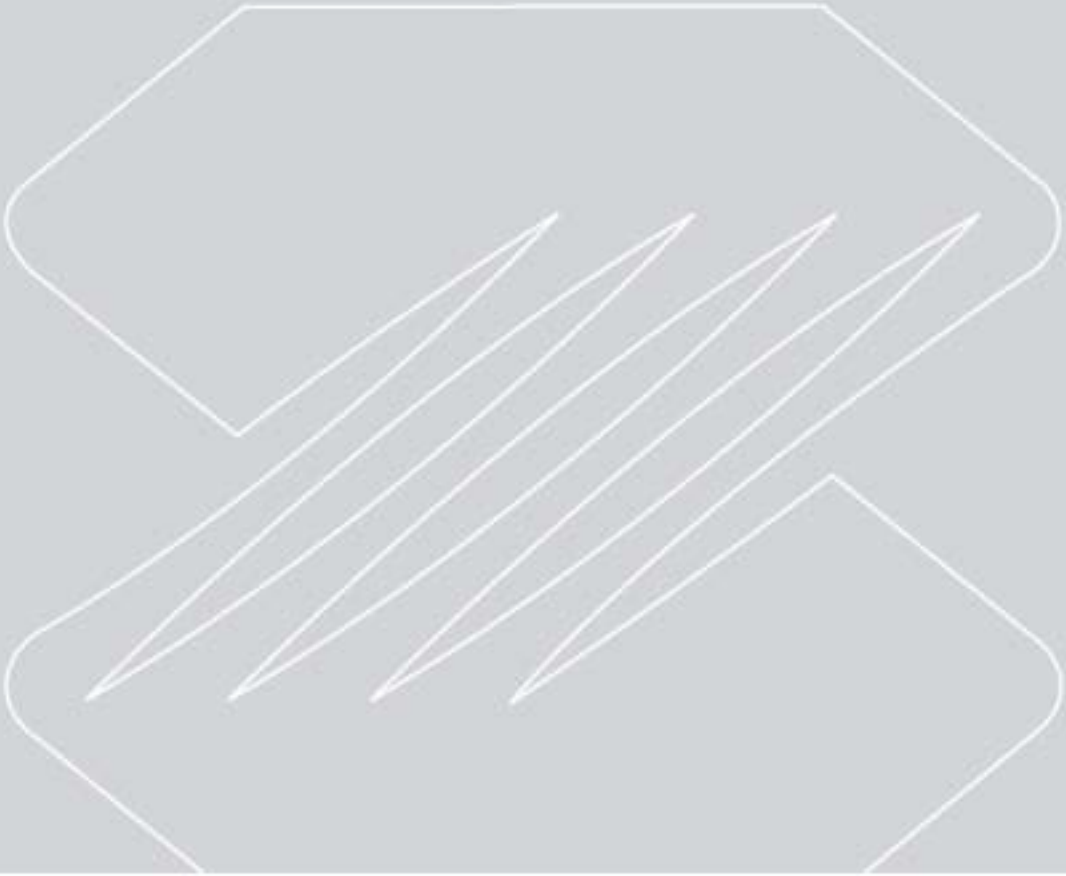
ZOOMLION

# LOAD RATINGS FOR ROUGH TERRAIN CRANE

## Chapter 5 Lifts on tires



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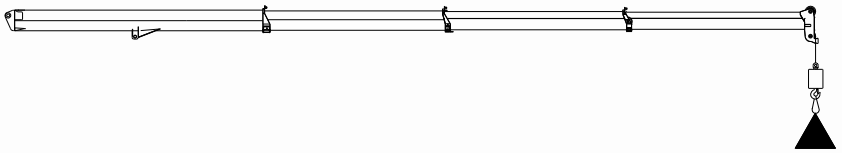
## 5.1 MAIN BOOM RATED LOADS



| Rated loads on tires (Rated load unit: kg) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Boom Length of 10800 mm | | | | | Boom Length of 15440 mm | | | |
| Working Radius (mm) | Boom Angle (°) | 360 (°) | Stationary over Front | Pick & Carry | Boom Angle (°) | 360 (°) | Stationary over Front | Pick & Carry |
| 3000 | 66.82 | 17360 | 27250 | 20200 | 74.15 | 17900 | 27520 | 20600 |
| 3500 | 63.79 | 14830 | 24200 | 17830 | 72.18 | 15360 | 24650 | 18250 |
| 4000 | 60.67 | 12800 | 21710 | 15890 | 70.18 | 13300 | 22150 | 16350 |
| 4500 | 57.43 | 11150 | 19580 | 14260 | 68.16 | 11700 | 20040 | 14710 |
| 5000 | 54.05 | 9790 | 17780 | 12850 | 66.10 | 10290 | 18210 | 13330 |
| 5500 | 50.48 | 8670 | 16220 | 11700 | 64.00 | 9140 | 16690 | 12120 |
| 6000 | 46.69 | 7670 | 14920 | 10640 | 61.86 | 8160 | 15350 | 11070 |
| 6500 | 42.61 | 6850 | 13560 | 9690 | 59.67 | 7320 | 14160 | 10140 |
| 7000 | 38.11 | 6110 | 11890 | 8920 | 57.42 | 6600 | 12460 | 9330 |
| 7500 | 33.01 | 5320 | 10520 | 8200 | 55.11 | 5850 | 11060 | 8630 |
| 8000 | 26.90 | 4620 | 9380 | 7510 | 52.72 | 5130 | 9900 | 7970 |
| 8500 | 18.51 | 4020 | 8420 | 6960 | 50.24 | 4500 | 8920 | 7390 |
| 9000 | 0 | 3720 | 7940 | 6690 | 47.66 | 3960 | 8080 | 6850 |
| 9500 | | | | | 44.96 | 3490 | 7350 | 6330 |
| 10000 | | | | | 42.11 | 3070 | 6710 | 5690 |
| 10500 | | | | | 39.07 | 2700 | 6160 | 5130 |
| 11000 | | | | | 35.79 | 2370 | 5660 | 4640 |
| 11500 | | | | | 32.19 | 2080 | 5220 | 4200 |
| 12000 | | | | | 28.13 | 1810 | 4830 | 3810 |
| 12500 | | | | | 23.33 | 1570 | 4470 | 3460 |
| 13000 | | | | | 17.05 | 1360 | 4160 | 3150 |
| 13500 | | | | | 0 | 1240 | 3940 | 2940 |

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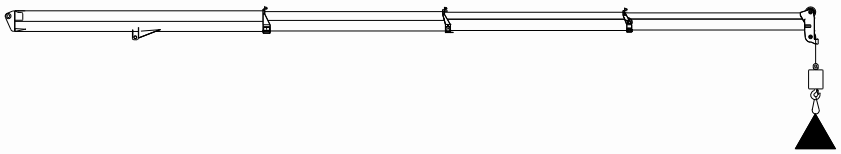

| Rated loads on tires (Rated load unit: kg) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Boom Length of 20080 mm | | | | | Boom Length of 24720 mm | | | |
| Working Radius (mm) | Boom Angle (°) | 360 (°) | Stationary over Front | Pick & Carry | Boom Angle (°) | 360 (°) | Stationary over Front | Pick & Carry |
| 3000 | 77.91 | | | | | | | |
| 3500 | 76.44 | | | | | | | |
| 4000 | 74.95 | | | | | | | |
| 4500 | 73.45 | 11970 | 20280 | 14950 | | | | |
| 5000 | 71.93 | 10630 | 18500 | 13570 | | | | |
| 5500 | 70.41 | 9460 | 16950 | 12370 | | | | |
| 6000 | 68.86 | 8460 | 15580 | 11350 | 73.02 | 8750 | 15790 | 11560 |
| 6500 | 67.30 | 7610 | 14420 | 10390 | 71.79 | 7890 | 14610 | 10640 |
| 7000 | 65.71 | 6880 | 12800 | 9620 | 70.55 | 7150 | 13070 | 9800 |
| 7500 | 64.11 | 6170 | 11390 | 8860 | 69.30 | 6420 | 11650 | 9080 |
| 8000 | 62.48 | 5430 | 10210 | 8230 | 68.04 | 5680 | 10460 | 8440 |
| 8500 | 60.82 | 4800 | 9220 | 7640 | 66.77 | 5040 | 9460 | 7840 |
| 9000 | 59.13 | 4250 | 8370 | 7090 | 65.48 | 4490 | 8600 | 7330 |
| 9500 | 57.41 | 3770 | 7630 | 6600 | 64.18 | 4000 | 7860 | 6830 |
| 10000 | 55.66 | 3350 | 6980 | 5960 | 62.86 | 3570 | 7210 | 6180 |
| 10500 | 53.86 | 2970 | 6420 | 5390 | 61.53 | 3190 | 6630 | 5610 |
| 11000 | 52.01 | 2630 | 5910 | 4890 | 60.18 | 2840 | 6120 | 5100 |
| 11500 | 50.12 | 2320 | 5460 | 4440 | 58.81 | 2530 | 5660 | 4640 |
| 12000 | 48.16 | 2050 | 5060 | 4030 | 57.41 | 2250 | 5250 | 4230 |
| 12500 | 46.14 | 1800 | 4690 | 3670 | 56.00 | 2000 | 4880 | 3860 |
| 13000 | 44.04 | 1570 | 4360 | 3340 | 54.55 | 1760 | 4550 | 3530 |
| 13500 | 41.85 | 1360 | 4060 | 3040 | 53.08 | 1550 | 4240 | 3220 |
| 14000 | 39.55 | 1170 | 3780 | 2760 | 51.58 | 1350 | 3960 | 2940 |
| 14500 | 37.13 | | 3530 | 2510 | 50.04 | 1170 | 3700 | 2680 |
| 15000 | 34.55 | | 3300 | 2280 | 48.47 | | 3460 | 2440 |
| 15500 | 31.77 | | 3080 | 2060 | 46.85 | | 3240 | 2220 |
| 16000 | 28.72 | | 2880 | 1870 | 45.19 | | 3040 | 2020 |
| 16500 | 25.31 | | 2700 | 1690 | 43.47 | | 2850 | 1830 |
| 17000 | 21.33 | | 2540 | 1520 | 41.70 | | 2670 | 1650 |
| 17500 | 16.31 | | 2380 | 1370 | 39.85 | | 2500 | 1490 |
| 18000 | 7.94 | | 2250 | 1250 | 37.93 | | 2350 | 1330 |
| 18500 | 0 | | 2250 | 1250 | 35.91 | | 2210 | 1190 |

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| Rated loads on tires (Rated load unit: lb) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Boom Length of 35 ft | | | | | Boom Length of 51 ft | | | |
| Working Radius (ft) | Boom Angle (°) | 360 (°) | Stationary over Front | Pick & Carry | Boom Angle (°) | 360 (°) | Stationary over Front | Pick & Carry |
| 10 | 66.54 | 37620 | 59290 | 43890 | 73.97 | 38720 | 60170 | 44770 |
| 12 | 62.82 | 31160 | 51470 | 37880 | 71.56 | 32270 | 52360 | 38720 |
| 15 | 56.96 | 24080 | 42530 | 30930 | 67.87 | 25260 | 43510 | 31900 |
| 20 | 45.94 | 16540 | 32280 | 23000 | 61.45 | 17610 | 33220 | 23920 |
| 25 | 31.66 | 11320 | 22500 | 17620 | 54.54 | 12470 | 23680 | 18570 |
| 30 | 0 | 8200 | 17480 | 14720 | 46.90 | 8410 | 17290 | 14820 |
| 35 | | | | | 38.00 | 5700 | 13170 | 10920 |
| 40 | | | | | 26.40 | 3790 | 10310 | 8080 |
| 45 | | | | | 0 | 2720 | 8680 | 6470 |
| Boom Length of 66 ft | | | | | Boom Length of 81 ft | | | |
| Working Radius (ft) | Boom Angle (°) | 360 (°) | Stationary over Front | Pick & Carry | Working Radius (ft) | Boom Angle (°) | 360 (°) | Stationary over Front |
| 10 | | | | | | | | |
| 12 | | | | | | | | |
| 15 | 73.24 | 25950 | 44020 | 32410 | | | | |
| 20 | 68.57 | 18270 | 33820 | 24520 | 72.78 | 18790 | 34270 | 24980 |
| 25 | 63.72 | 13160 | 24390 | 19160 | 69.00 | 13720 | 24960 | 19630 |
| 30 | 58.65 | 9040 | 17920 | 15330 | 65.11 | 9560 | 18430 | 15740 |
| 35 | 53.25 | 6270 | 13730 | 11480 | 61.08 | 6750 | 14200 | 11950 |
| 40 | 47.40 | 4290 | 10810 | 8560 | 56.87 | 4740 | 11240 | 9000 |
| 45 | 40.88 | 2810 | 8660 | 6420 | 52.44 | 3220 | 9060 | 6810 |
| 50 | 33.25 | 1670 | 7030 | 4790 | 47.70 | 2040 | 7380 | 5140 |
| 55 | 23.30 | | 5750 | 3520 | 42.54 | 1110 | 6060 | 3820 |
| 60 | | | 4970 | 2760 | 36.78 | | 4990 | 2760 |
| 65 | | | | | 30.02 | | 4120 | 1890 |

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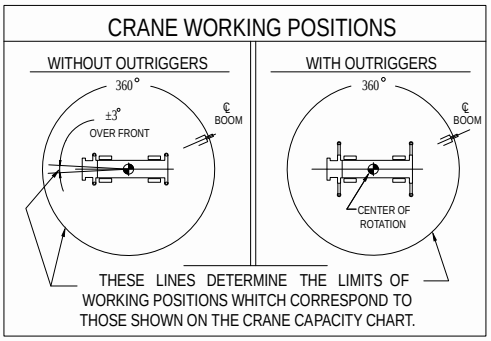
**SET-UP**

1. Crane load ratings are based on the crane being leveled and standing on a firm and uniform supporting surface.
2. Crane load ratings on tires depend on appropriate inflation pressure and tire condition. Caution must be exercised when increasing air pressures in tires. Consult *Operator's Manual* for precautions.
3. Use of jib is not permitted for pick-and-carry operations.




**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. The load should be restrained from swinging. No on tire operation with jib erected.

**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).

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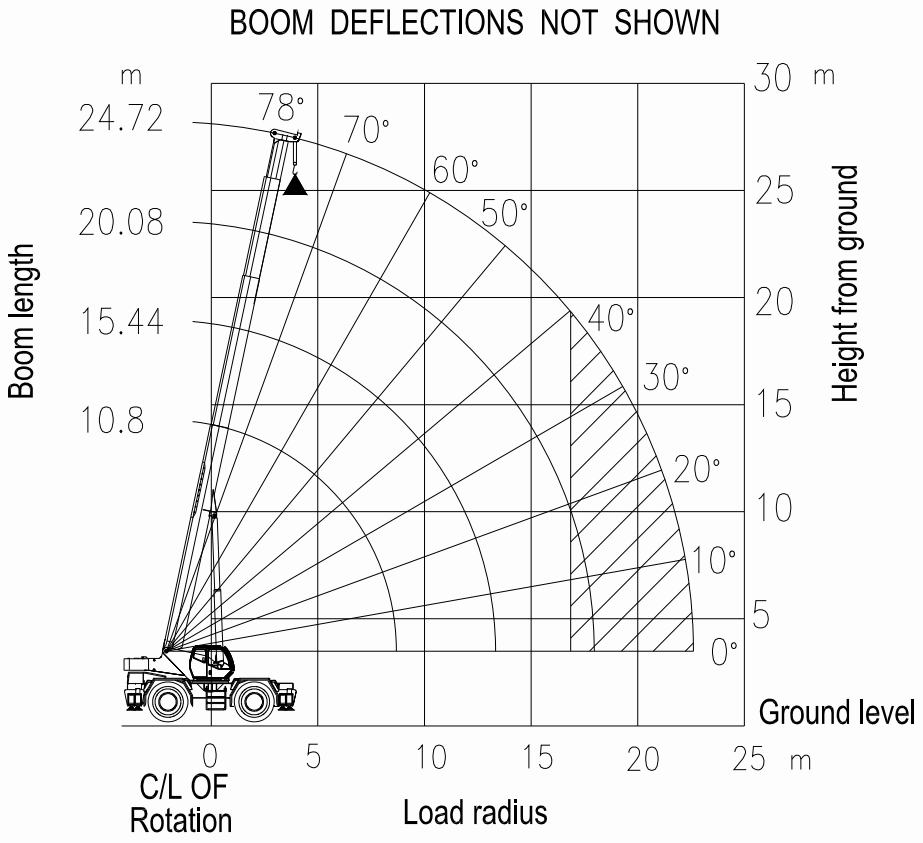


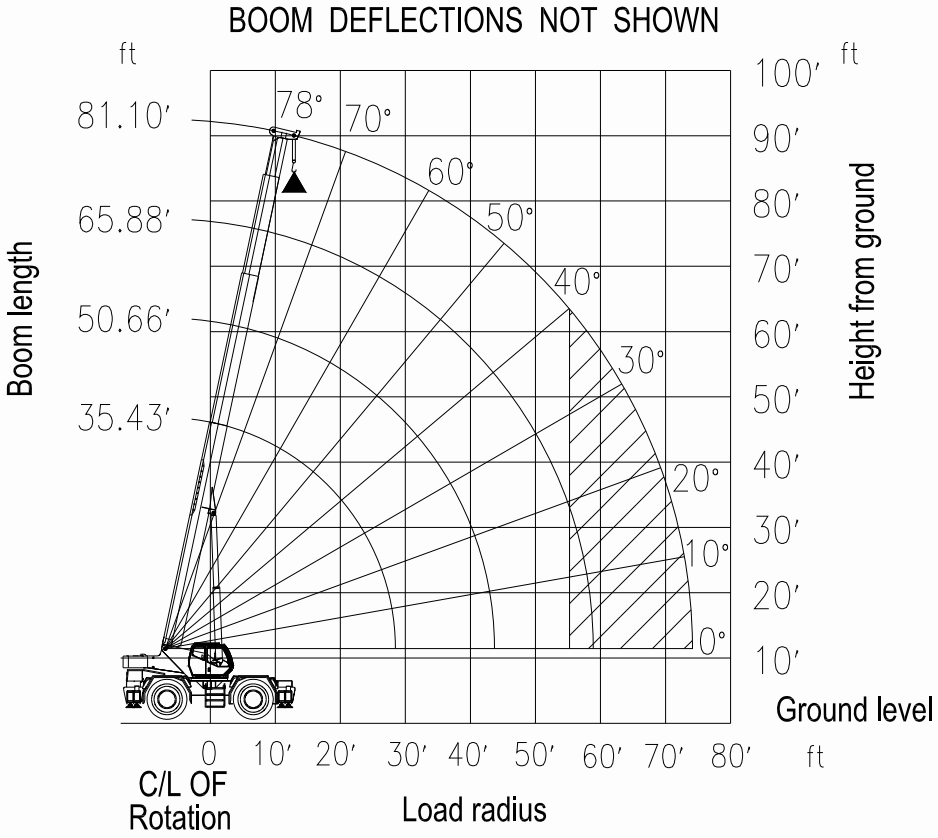


**Lift Heigth on Tires**