



RT775 SERIES

Rough Terrain Cranes



FEATURES

- **75 tons (68.2 mt) maximum lifting capacity**
- **126 ft. (38.4 m) maximum boom length**
- **134 ft. (40.8 m) maximum tip height**
- 275 horsepower engine
- Electro Proportional Joystick Controls
- Swingaway jib offsettable to 0°, 15° or 30°
- Two-speed main and auxiliary winches
- Quick reeving boom head and hook block
- Fully independent multi-position out and down outriggers
- Environmental operator's cab optimizes load visibility and productivity
- RCI 510 load system Rated Capacity Indicator
- 12 month or 2,000 hour crane warranty and 5 year or 10,000 hour warranty on major weldments

**Simple, Available
and Cost Effective™**

Machines shown may have optional equipment

RT775 Series

70-75 ton Rough Terrain Crane

126 ft (38.4 m) FOUR SECTION, FULL POWER BOOM WITH FOOT PEDAL CONTROL

High strength, four plate construction welded inside and out with embossed side plate holes to reduce weight and increase strength.

Single boom hoist cylinder provides boom elevation of -4° to 78° for easier reeving changes and close radius operation.

Quick reeving boom head; no need to remove wedge from socket.

360° house lock standard.

ENVIRONMENTAL OPERATOR'S CAB

Rated Capacity Indicator (RCI) system including anti-two block system with automatic function disconnects.

Deluxe six-way adjustable operator's seat has mechanical suspension and head and arm rests.

Sound and weather insulated for comfort.

Removable front window, hinged tinted glass skylight, and sliding right-hand window.

Armrest mounted dual axis controls for winch(s), swing, and boom elevation; foot control pedals for swing brake, boom telescope, and throttle.

Complete instrumentation. Environmentally-sealed rocker switches.

Circuit breakers in cab.

RUGGED, EASY-TO-MANEUVER CARRIER

Box-type chassis construction with reinforcing cross members.

Chassis is Terex designed and built with 4x 4 X 4 drive.

For more information, product demonstration, or details on purchase, lease and rental plans, please contact your local Terex Cranes Distributor.

Full power-shift transmission with integral torque converter; neutral safety start; 6 speeds forward and reverse.

Hydraulic four-wheel power steering for 2-wheel, 4-wheel or crab steer.

Split system air brakes on all four wheels (disc)

Fully independent hydraulic outriggers may be utilized fully extended to 26 ft. (7.92 m), in their 1/2 extended position, or fully retracted.

Tail Swing only 11.9' (3.62m)

Standard Cummins QSB5.9 275 horsepower engine. (205 kW)

Earthmover style 29.50 x 25 28 P.R. tires

POWERFUL, TWO-SPEED WINCHES

489 fpm (149.0 m/min) maximum line speed, 18,450 lbs. (8369 kg) maximum line pull. Armrest mounted control.

Integral automatic brake.

Electronic drum rotation indicators.

Winch drum rollers, tapered drum flanges.

HIGH CAPACITY, DEPENDABLE HYDRAULIC SYSTEM

Three gear type pumps, one single and two in tandem, driven off the transmission. Combined system capability is 120 gpm (455 lpm). Includes pump disconnect on tandem pump. Hydraulic reservoir with 174 gal. (674 L) capacity and full flow oil filtration system.



OPTIONS INCLUDE:

32 ft. or 33 to 57 ft. (9.68 or 10.15 to 17.30 m) swing-on jib. Both offset to 0° , 15° or 30° .

Heater/Defroster, air conditioner for operator's cab.

Auxiliary winch with rope.

Work lights.

Cold weather kit for cab.

Independent rear wheels steering.

AM/FM cassette radio.

Terex reserves the right to amend these specifications at any time without notice. The only warranty applicable is our standard written warranty applicable to the particular product and sale. We make no other warranty, expressed or implied.

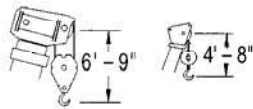


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RT775

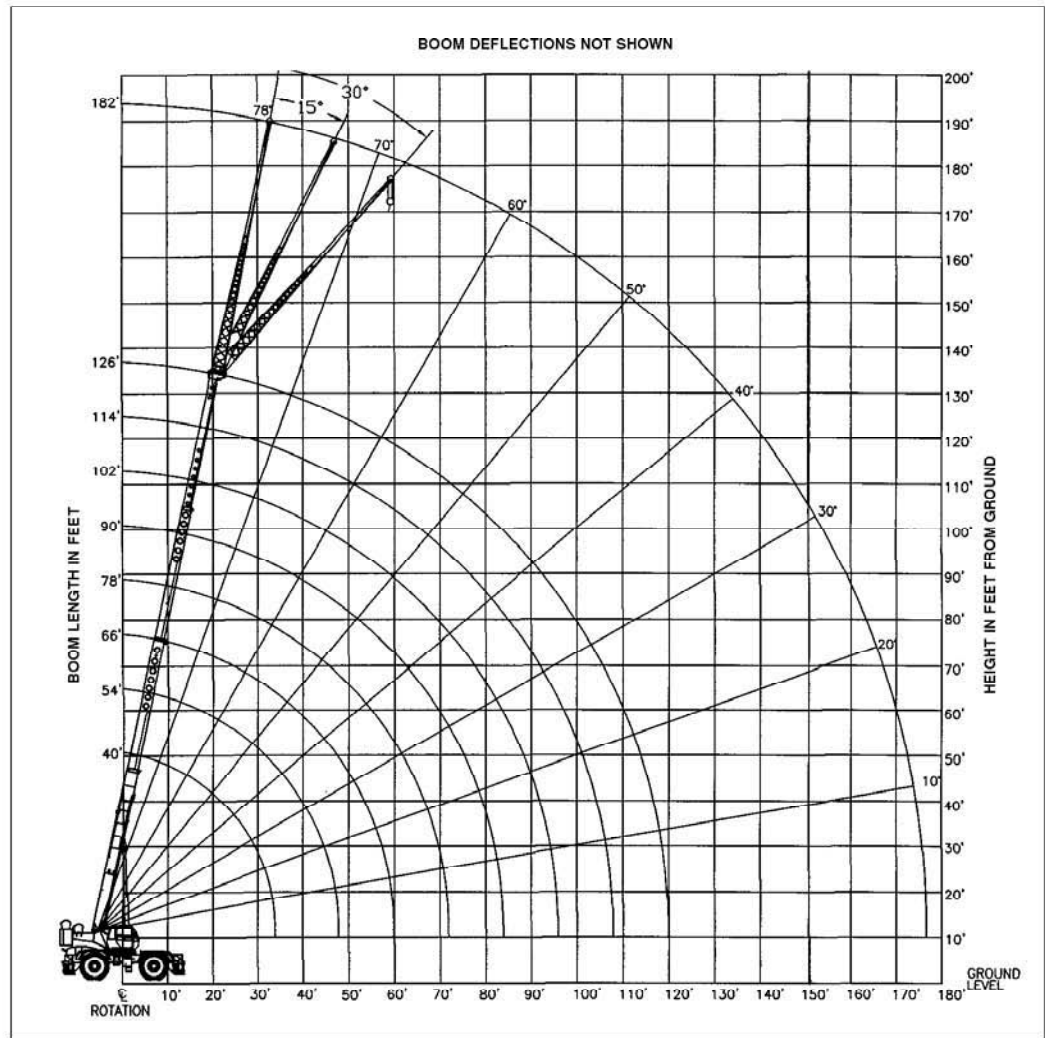
rough terrain crane
75 ton capacity

range diagram & lifting capacities

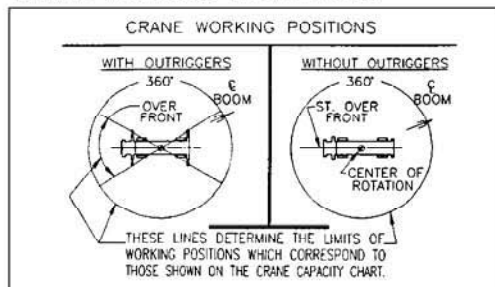


DIMENSIONS ARE FOR LARGEST FACTORY FURNISHED HOOK BLOCK AND HOOK & BALL, WITH ANTI-TWO BLOCK ACTIVATED

Range Diagram
(40' - 126' boom)



CRANE WORKING CONDITIONS



REDUCTION IN MAIN BOOM CAPACITY

All Jibs in Stowed Position _____ 0 Lbs.
Aux. Boom in Head Sheave _____ 100 Lbs.

HOOK BLOCK WEIGHTS

Hook & Ball _____ 419 Lbs.
Hook Block (5 Sheave) _____ 1608 Lbs.

Lifting Capacities – Pounds (40’ – 126’ boom)

MODEL RT775

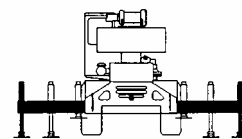
COUNTERWEIGHT:
W/AUX. WINCH 13,660 LBS.
W/O AUX. WINCH 15,200 LBS.
BOOM LENGTH 40-126 FT.
OUTRIGGER SPREAD 24 FT.

STABILITY PCT.
ON OUTRIGGERS 85%
ON TIRES 75%
PCSA CLASS 10-316

CAUTION: Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

ON OUTRIGGERS - FULLY EXTENDED AND WITH 15,200 LBS. COUNTERWEIGHT

| LOAD RADIUS (FT) | BOOM LENGTH 40 FT | | | BOOM LENGTH 54 FT | | | BOOM LENGTH 66 FT | | | BOOM LENGTH 78 FT | | | LOAD RADIUS (FT) |
|------------------|-----------------------|-----------------|-----------|-----------------------|-----------------|-----------|-----------------------|-----------------|-----------|-----------------------|-----------------|-----------|------------------|
| | BOOM ANGLE (DEG) REF. | OVER FRONT (LB) | 360° (LB) | BOOM ANGLE (DEG) REF. | OVER FRONT (LB) | 360° (LB) | BOOM ANGLE (DEG) REF. | OVER FRONT (LB) | 360° (LB) | BOOM ANGLE (DEG) REF. | OVER FRONT (LB) | 360° (LB) | |
| 10 | 69.4 | 150,000* | 150,000* | 75.0 | 102,600* | 102,600* | | | | | | | 10 |
| 12 | 66.2 | 125,700* | 125,700* | 72.8 | 102,600* | 102,600* | | | | | | | 12 |
| 15 | 61.3 | 108,900* | 108,900* | 69.3 | 100,600* | 100,600* | 73.3 | 80,700* | 80,700* | | | | 15 |
| 20 | 52.3 | 84,800* | 84,800* | 63.4 | 85,400* | 85,400* | 68.6 | 72,000* | 72,000* | 72.1 | 62,300* | 62,300* | 20 |
| 25 | 42.0 | 65,700* | 65,700* | 57.1 | 66,800* | 66,800* | 63.8 | 64,900* | 64,900* | 68.1 | 55,800* | 55,800* | 25 |
| 30 | 28.5 | 52,900* | 49,300* | 50.3 | 54,000* | 50,600* | 58.7 | 54,500* | 51,100* | 64.0 | 49,800* | 49,800* | 30 |
| 35 | ** | | | 42.6 | 40,600 | 37,800 | 53.3 | 41,100 | 38,300 | 59.8 | 41,300 | 38,600 | 35 |
| 40 | | | | 33.6 | 31,600 | 29,500 | 47.5 | 32,100 | 30,000 | 55.3 | 32,400 | 30,300 | 40 |
| 45 | | | | 21.0 | 25,300 | 23,600 | 41.1 | 26,000 | 24,200 | 50.6 | 26,200 | 24,500 | 45 |
| 50 | | | | ** | | | 33.6 | 21,300 | 19,900 | 45.5 | 21,700 | 20,300 | 50 |
| 55 | | | | | | | 24.0 | 17,800 | 16,500 | 39.9 | 18,200 | 17,000 | 55 |
| 60 | | | | | | | ** | | | 33.6 | 15,400 | 14,300 | 60 |
| 65 | | | | | | | | | | 25.8 | 13,100 | 12,200 | 65 |
| 70 | | | | | | | | | | 14.2 | 11,200 | 10,400 | 70 |
| 75 | | | | | | | | | | ** | | | 75 |



**USE THESE CHARTS ONLY
WHEN ALL OUTRIGGERS
ARE FULLY EXTENDED**

** MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

| BOOM LENGTH 40 FT | | | BOOM LENGTH 54 FT | | | BOOM LENGTH 66 FT | | | BOOM LENGTH 78 FT | | |
|-----------------------|-----------------|-----------|-----------------------|-----------------|-----------|-----------------------|-----------------|-----------|-----------------------|-----------------|-----------|
| BOOM LOAD RADIUS (FT) | OVER FRONT (LB) | 360° (LB) | BOOM LOAD RADIUS (FT) | OVER FRONT (LB) | 360° (LB) | BOOM LOAD RADIUS (FT) | OVER FRONT (LB) | 360° (LB) | BOOM LOAD RADIUS (FT) | OVER FRONT (LB) | 360° (LB) |
| 33.9 | 28,600* | 28,600* | 47.9 | 19,100* | 19,100* | 59.9 | 14,200* | 13,900 | 71.9 | 10,500 | 9,700 |

ON OUTRIGGERS - FULLY EXTENDED AND WITH 15,200 LBS. COUNTERWEIGHT

| LOAD RADIUS (FT) | BOOM LENGTH 90 FT | | | BOOM LENGTH 102 FT | | | BOOM LENGTH 114 FT | | | BOOM LENGTH 126 FT | | | LOAD RADIUS (FT) |
|------------------|-----------------------|-----------------|-----------|-----------------------|-----------------|-----------|-----------------------|-----------------|-----------|-----------------------|-----------------|-----------|------------------|
| | BOOM ANGLE (DEG) REF. | OVER FRONT (LB) | 360° (LB) | BOOM ANGLE (DEG) REF. | OVER FRONT (LB) | 360° (LB) | BOOM ANGLE (DEG) REF. | OVER FRONT (LB) | 360° (LB) | BOOM ANGLE (DEG) REF. | OVER FRONT (LB) | 360° (LB) | |
| 20 | 74.6 | 56,300* | 56,300* | | | | | | | | | | 20 |
| 25 | 71.2 | 48,100* | 48,100* | 73.5 | 42,000* | 42,000* | | | | | | | 25 |
| 30 | 67.7 | 41,800* | 41,800* | 70.5 | 36,500* | 36,500* | 72.6 | 31,600* | 31,600* | | | | 30 |
| 35 | 64.2 | 36,700* | 36,700* | 67.5 | 32,200* | 32,200* | 70.0 | 29,600* | 29,600* | 72.0 | 24,800* | 24,800* | 35 |
| 40 | 60.6 | 32,600 | 30,500 | 64.3 | 28,700* | 28,700* | 67.2 | 26,300* | 26,300* | 69.5 | 24,700* | 24,700* | 40 |
| 45 | 56.8 | 26,400 | 24,700 | 61.1 | 25,800* | 24,800 | 64.5 | 23,600* | 23,600* | 67.1 | 22,200* | 22,200* | 45 |
| 50 | 52.8 | 21,900 | 20,400 | 57.8 | 22,000 | 20,600 | 61.6 | 21,500* | 20,700 | 64.5 | 20,100* | 20,100* | 50 |
| 55 | 48.6 | 18,400 | 17,200 | 54.4 | 18,500 | 17,300 | 58.7 | 18,600 | 17,400 | 62.0 | 18,300* | 17,500 | 55 |
| 60 | 44.1 | 15,600 | 14,600 | 50.8 | 15,700 | 14,700 | 55.6 | 15,800 | 14,800 | 59.3 | 15,900 | 14,900 | 60 |
| 65 | 39.1 | 13,300 | 12,400 | 47.0 | 13,500 | 12,600 | 52.5 | 13,600 | 12,700 | 56.6 | 13,700 | 12,800 | 65 |
| 70 | 33.6 | 11,500 | 10,700 | 42.9 | 11,600 | 10,900 | 49.2 | 11,700 | 11,000 | 53.8 | 11,800 | 11,000 | 70 |
| 75 | 27.0 | 9,900 | 9,100 | 38.5 | 10,100 | 9,300 | 45.7 | 10,200 | 9,500 | 50.9 | 10,300 | 9,500 | 75 |
| 80 | 18.2 | 8,500 | 7,800 | 33.6 | 8,700 | 8,000 | 42.0 | 8,900 | 8,200 | 47.8 | 8,900 | 8,300 | 80 |
| 85 | ** | | | 27.9 | 7,500 | 6,900 | 38.0 | 7,700 | 7,000 | 44.6 | 7,800 | 7,200 | 85 |
| 90 | | | | 20.7 | 6,500 | 5,900 | 33.6 | 6,700 | 6,100 | 41.2 | 6,800 | 6,200 | 90 |
| 95 | | | | 8.8 | 5,600 | 5,000 | 28.5 | 5,800 | 5,200 | 37.6 | 5,900 | 5,300 | 95 |
| 100 | | | | ** | | | 22.5 | 5,000 | 4,400 | 33.6 | 5,100 | 4,500 | 100 |
| 105 | | | | | | | 13.9 | 4,200 | 3,700 | 29.1 | 4,400 | 3,800 | 105 |
| 110 | | | | | | | ** | | | 23.8 | 3,700 | 3,200 | 110 |
| 115 | | | | | | | | | | 16.9 | 3,200 | 2,600 | 115 |

** MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

| BOOM LENGTH 90 FT | | | BOOM LENGTH 102 FT | | | BOOM LENGTH 114 FT | | | BOOM LENGTH 126 FT | | |
|-----------------------|-----------------|-----------|-----------------------|-----------------|-----------|-----------------------|-----------------|-----------|-----------------------|-----------------|-----------|
| BOOM LOAD RADIUS (FT) | OVER FRONT (LB) | 360° (LB) | BOOM LOAD RADIUS (FT) | OVER FRONT (LB) | 360° (LB) | BOOM LOAD RADIUS (FT) | OVER FRONT (LB) | 360° (LB) | BOOM LOAD RADIUS (FT) | OVER FRONT (LB) | 360° (LB) |
| 83.9 | 7,500 | 6,900 | 95.9 | 5,400 | 4,800 | 107.9 | 3,800 | 3,300 | 119.9 | 2,600 | 2,100 |

Lifting Capacities – Pounds (40’ – 126’ boom)

MODEL RT775

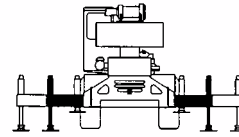
COUNTERWEIGHT:
W/AUX. WINCH 13,660 LBS.
W/O AUX. WINCH 15,200 LBS.
BOOM LENGTH 40-126 FT.
OUTRIGGER SPREAD 24 FT.

STABILITY PCT.
ON OUTRIGGERS 85%
ON TIRES 75%
PCSA CLASS 10-316

CAUTION: Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

ON OUTRIGGERS - MID POSITION AND WITH 15,200 LBS. COUNTERWEIGHT

| LOAD RADIUS (FT) | BOOM LENGTH 40 FT | | BOOM LENGTH 54 FT | | BOOM LENGTH 66 FT | | BOOM LENGTH 78 FT | | LOAD RADIUS (FT) |
|------------------|-----------------------|-----------|-----------------------|-----------|-----------------------|-----------|-----------------------|-----------|------------------|
| | BOOM ANGLE (DEG) REF. | 360° (LB) | BOOM ANGLE (DEG) REF. | 360° (LB) | BOOM ANGLE (DEG) REF. | 360° (LB) | BOOM ANGLE (DEG) REF. | 360° (LB) | |
| 10 | 69.4 | 150,000* | 75.0 | 102,600* | | | | | 10 |
| 12 | 66.2 | 125,700* | 72.8 | 102,600* | | | | | 12 |
| 15 | 63.1 | 103,100 | 69.3 | 100,600* | 73.3 | 80,700* | | | 15 |
| 20 | 52.3 | 55,100 | 63.4 | 56,200 | 68.6 | 56,700 | 72.1 | 57,000 | 20 |
| 25 | 42.0 | 35,600 | 57.1 | 36,800 | 63.8 | 37,300 | 68.1 | 37,500 | 25 |
| 30 | 28.5 | 25,000 | 50.3 | 26,300 | 58.7 | 26,800 | 64.0 | 27,000 | 30 |
| 35 | ** | | 42.6 | 19,600 | 53.3 | 20,200 | 59.8 | 20,500 | 35 |
| 40 | | | 33.6 | 15,000 | 47.5 | 15,600 | 55.3 | 16,000 | 40 |
| 45 | | | 21.0 | 11,700 | 41.1 | 12,200 | 50.6 | 12,600 | 45 |
| 50 | | | ** | | 33.6 | 9,700 | 45.5 | 10,100 | 50 |
| 55 | | | | | 24.0 | 7,700 | 39.9 | 8,100 | 55 |
| 60 | | | | | ** | | 33.6 | 6,400 | 60 |
| 65 | | | | | | | 25.8 | 5,100 | 65 |
| 70 | | | | | | | 14.2 | 3,900 | 70 |
| 75 | | | | | | | ** | | 75 |



**USE THESE CHARTS ONLY
WHEN ALL OUTRIGGERS ARE
PINNED IN MID POSITION**

** MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

| BOOM LENGTH 40 FT | | BOOM LENGTH 54 FT | | BOOM LENGTH 66 FT | | BOOM LENGTH 78 FT | |
|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|
| LOAD RADIUS (FT) | 360° (LB) | LOAD RADIUS (FT) | 360° (LB) | LOAD RADIUS (FT) | 360° (LB) | LOAD RADIUS (FT) | 360° (LB) |
| 33.9 | 19,500 | 47.9 | 10,000 | 59.9 | 6,000 | 71.9 | 3,500 |

ON OUTRIGGERS - MID POSITION AND WITH 15,200 LBS. COUNTERWEIGHT

| LOAD RADIUS (FT) | BOOM LENGTH 90 FT | | BOOM LENGTH 102 FT | | BOOM LENGTH 114 FT | | BOOM LENGTH 126 FT | | LOAD RADIUS (FT) |
|------------------|-----------------------|-----------|-----------------------|-----------|-----------------------|-----------|-----------------------|-----------|------------------|
| | BOOM ANGLE (DEG) REF. | 360° (LB) | BOOM ANGLE (DEG) REF. | 360° (LB) | BOOM ANGLE (DEG) REF. | 360° (LB) | BOOM ANGLE (DEG) REF. | 360° (LB) | |
| 20 | 74.6 | 56,300* | | | | | | | 20 |
| 25 | 71.2 | 37,800 | 73.5 | 37,900 | | | | | 25 |
| 30 | 67.7 | 27,200 | 70.5 | 27,400 | 72.6 | 27,500 | | | 30 |
| 35 | 64.2 | 20,600 | 67.5 | 20,800 | 70.0 | 20,900 | 72.0 | 21,000 | 35 |
| 40 | 60.6 | 16,100 | 64.3 | 16,300 | 67.2 | 16,400 | 69.5 | 16,400 | 40 |
| 45 | 56.8 | 12,800 | 61.1 | 13,000 | 64.5 | 13,100 | 67.1 | 13,100 | 45 |
| 50 | 52.8 | 10,300 | 57.8 | 10,500 | 61.6 | 10,600 | 64.5 | 10,600 | 50 |
| 55 | 48.6 | 8,300 | 54.4 | 8,500 | 58.7 | 8,600 | 62.0 | 8,700 | 55 |
| 60 | 44.1 | 6,700 | 50.8 | 6,900 | 55.6 | 7,000 | 59.3 | 7,100 | 60 |
| 65 | 39.1 | 5,300 | 47.0 | 5,500 | 52.5 | 5,700 | 56.6 | 5,800 | 65 |
| 70 | 33.6 | 4,200 | 42.9 | 4,400 | 49.2 | 4,600 | 53.8 | 4,700 | 70 |
| 75 | 27.0 | 3,300 | 38.5 | 3,500 | 45.7 | 3,600 | 50.9 | 3,700 | 75 |
| 80 | | | 33.6 | 2,600 | 42.0 | 2,800 | 47.8 | 2,900 | 80 |

** MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

| BOOM LENGTH 90 FT | | BOOM LENGTH 102 FT | | BOOM LENGTH 114 FT | | BOOM LENGTH 126 FT | |
|-------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|
| LOAD RADIUS (FT) | 360° (LB) | LOAD RADIUS (FT) | 360° (LB) | LOAD RADIUS (FT) | 360° (LB) | LOAD RADIUS (FT) | 360° (LB) |
| 33.9 | 19,500 | 47.9 | 10,000 | 59.9 | 6,000 | 71.9 | 3,500 |

Lifting Capacities – Pounds (40’ – 126’ boom)

MODEL RT775

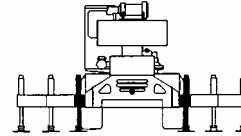
COUNTERWEIGHT:
W/AUX. WINCH 13,660 LBS.
W/O AUX. WINCH 15,200 LBS.
BOOM LENGTH 40-126 FT.
OUTRIGGER SPREAD 24 FT.

STABILITY PCT.
ON OUTRIGGERS 85%
ON TIRES 75%
PCSA CLASS 10-316

CAUTION: Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

ON OUTRIGGERS - RETRACTED AND WITH 15,200 LBS. COUNTERWEIGHT

| LOAD RADIUS (FT) | BOOM LENGTH 40 FT | | BOOM LENGTH 54 FT | | BOOM LENGTH 66 FT | | BOOM LENGTH 78 FT | | LOAD RADIUS (FT) |
|------------------|-----------------------|-----------|-----------------------|-----------|-----------------------|-----------|-----------------------|-----------|------------------|
| | BOOM ANGLE (DEG) REF. | 360° (LB) | BOOM ANGLE (DEG) REF. | 360° (LB) | BOOM ANGLE (DEG) REF. | 360° (LB) | BOOM ANGLE (DEG) REF. | 360° (LB) | |
| 10 | 69.4 | 84,600 | 75.0 | 85,700 | | | | | 10 |
| 12 | 66.2 | 59,400 | 72.8 | 60,400 | | | | | 12 |
| 15 | 61.3 | 39,400 | 69.3 | 40,500 | 73.3 | 40,900 | | | 15 |
| 20 | 52.3 | 23,300 | 63.4 | 24,400 | 68.6 | 24,900 | 72.1 | 25,100 | 20 |
| 25 | 42.0 | 15,000 | 57.1 | 16,100 | 63.8 | 16,600 | 68.1 | 16,900 | 25 |
| 30 | 28.5 | 9,900 | 50.3 | 11,000 | 58.7 | 11,500 | 64.0 | 11,900 | 30 |
| 35 | ** | | 42.6 | 7,600 | 53.3 | 8,100 | 59.8 | 8,500 | 35 |
| 40 | | | 33.6 | 5,100 | 47.7 | 5,700 | 55.3 | 6,000 | 40 |
| 45 | | | 21.0 | 3,300 | 41.1 | 3,800 | 50.6 | 4,100 | 45 |
| 50 | | | | | | | | | 50 |
| 55 | | | | | | | | | 55 |



USE THESE CHARTS WHEN ALL OUTRIGGER BEAMS ARE NOT IN EITHER THE MID OR FULLY EXTENDED POSITION

** MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

| BOOM LENGTH 40 FT | | BOOM LENGTH 54 FT | | BOOM LENGTH 66 FT | | BOOM LENGTH 78 FT | |
|-------------------|-------|-------------------|------|-------------------|------|-------------------|------|
| LOAD RADIUS | 360° | LOAD RADIUS | 360° | LOAD RADIUS | 360° | LOAD RADIUS | 360° |
| (FT) | (LB) | (FT) | (LB) | (FT) | (LB) | (FT) | (LB) |
| 33.9 | 7,000 | | | | | | |

ON OUTRIGGERS - RETRACTED AND WITH 15,200 LBS. COUNTERWEIGHT

| LOAD RADIUS (FT) | BOOM LENGTH 90 FT | | BOOM LENGTH 102 FT | | BOOM LENGTH 114 FT | | BOOM LENGTH 126 FT | | LOAD RADIUS (FT) |
|------------------|-----------------------|-----------|-----------------------|-----------|-----------------------|-----------|-----------------------|-----------|------------------|
| | BOOM ANGLE (DEG) REF. | 360° (LB) | BOOM ANGLE (DEG) REF. | 360° (LB) | BOOM ANGLE (DEG) REF. | 360° (LB) | BOOM ANGLE (DEG) REF. | 360° (LB) | |
| 10 | | | | | | | | | 10 |
| 12 | | | | | | | | | 12 |
| 15 | | | | | | | | | 15 |
| 20 | 74.6 | 25,300 | | | | | | | 20 |
| 25 | 71.2 | 17,100 | 73.5 | 17,100 | | | | | 25 |
| 30 | 67.7 | 12,100 | 70.5 | 12,100 | 72.6 | 12,200 | | | 30 |
| 35 | 64.2 | 8,700 | 67.5 | 8,700 | 70.0 | 8,900 | 72.0 | 9,000 | 35 |
| 40 | 60.6 | 6,200 | 64.3 | 6,200 | 67.2 | 6,400 | 69.5 | 6,600 | 40 |
| 45 | 56.8 | 4,400 | 61.1 | 4,400 | 64.5 | 4,600 | 67.1 | 4,800 | 45 |
| 50 | | | | | 61.6 | 3,100 | 64.5 | 3,400 | 50 |
| 55 | | | | | | | | | 55 |

** MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

| BOOM LENGTH 90 FT | | BOOM LENGTH 102 FT | | BOOM LENGTH 114 FT | | BOOM LENGTH 126 FT | |
|-------------------|------|--------------------|------|--------------------|------|--------------------|------|
| LOAD RADIUS | 360° | LOAD RADIUS | 360° | LOAD RADIUS | 360° | LOAD RADIUS | 360° |
| (FT) | (LB) | (FT) | (LB) | (FT) | (LB) | (FT) | (LB) |
| | | | | | | | |

Lifting Capacities – Pounds (40’ – 126’ boom)

MODEL RT775

COUNTERWEIGHT:
W/AUX. WINCH 13,660 LBS.
W/O AUX. WINCH 15,200 LBS.
BOOM LENGTH 40-126 FT.
OUTRIGGER SPREAD 24 FT.

STABILITY PCT.
ON OUTRIGGERS 85%
ON TIRES 75%
PCSA CLASS 10-316

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SIDE STOW JIB ON FULLY EXTENDED OUTRIGGERS AND WITH 15,200 LBS. COUNTERWEIGHT

| LOADED BOOM ANGLE (DEG) | 32 FT OFFSETABLE JIB/NO PULL OUT INSTALLED | | | | | | | | | 33 FT OFFSETABLE JIB/PULL OUT RETRACTED | | | | | | | | | LOADED BOOM ANGLE (DEG) |
|-------------------------|--------------------------------------------|-----------------|-----------|------------------------|-----------------|-----------|------------------------|-----------------|-----------|-----------------------------------------|-----------------|-----------|------------------------|-----------------|-----------|------------------------|-----------------|-----------|-------------------------|
| | 0° OFFSET | | | 15° OFFSET | | | 30° OFFSET | | | 0° OFFSET | | | 15° OFFSET | | | 30° OFFSET | | | |
| | (REF) LOAD RADIUS (FT) | FRONT ONLY (LB) | 360° (LB) | (REF) LOAD RADIUS (FT) | FRONT ONLY (LB) | 360° (LB) | (REF) LOAD RADIUS (FT) | FRONT ONLY (LB) | 360° (LB) | (REF) LOAD RADIUS (FT) | FRONT ONLY (LB) | 360° (LB) | (REF) LOAD RADIUS (FT) | FRONT ONLY (LB) | 360° (LB) | (REF) LOAD RADIUS (FT) | FRONT ONLY (LB) | 360° (LB) | |
| 77 | 41 | 12,600* | 12,600* | 50 | 8,500* | 8,500* | 57 | 6,600* | 6,600* | 41 | 12,600* | 12,600* | 50 | 8,600* | 8,600* | 57 | 6,500* | 6,500* | 77 |
| 75 | 46 | 11,900* | 11,900* | 55 | 8,200* | 8,200* | 61 | 6,400* | 6,400* | 47 | 12,100* | 12,100* | 56 | 8,200* | 8,200* | 62 | 6,300* | 6,300* | 75 |
| 73 | 51 | 11,300* | 11,300* | 60 | 7,800* | 7,800* | 66 | 6,300* | 6,300* | 52 | 11,600* | 11,600* | 61 | 7,900* | 7,900* | 67 | 6,200* | 6,200* | 73 |
| 71 | 57 | 10,400* | 10,400* | 66 | 7,400* | 7,400* | 71 | 6,000* | 6,000* | 58 | 11,000* | 11,000* | 67 | 7,600* | 7,600* | 72 | 6,000* | 6,000* | 71 |
| 68 | 65 | 9,600* | 9,600* | 73 | 7,100* | 7,100* | 78 | 5,900* | 5,900* | 66 | 10,000* | 10,000* | 74 | 7,200* | 7,200* | 79 | 6,000* | 6,000* | 68 |
| 65 | 73 | 8,900* | 8,900* | 80 | 6,800* | 6,800* | 85 | 5,700* | 5,700* | 74 | 9,300* | 9,300* | 81 | 6,800* | 6,800* | 86 | 5,700* | 5,700* | 65 |
| 62 | 80 | 8,300* | 8,300* | 87 | 6,500* | 6,500* | 92 | 5,500* | 5,500* | 81 | 9,000* | 8,700* | 88 | 6,500* | 6,500* | 93 | 5,500* | 5,500* | 62 |
| 59 | 87 | 7,700* | 7,700* | 94 | 6,200* | 6,200* | 98 | 5,300* | 5,300* | 88 | 7,700* | 7,400* | 95 | 6,300* | 6,300* | 99 | 5,400* | 5,400* | 59 |
| 55 | 96 | 7,000* | 6,600* | 102 | 5,900* | 5,900* | 106 | 5,200* | 5,200* | 97 | 6,300* | 5,800* | 103 | 5,800* | 5,300* | 107 | 5,300* | 5,300* | 55 |
| 51 | 104 | 5,800* | 5,400* | 110 | 5,500* | 5,100* | 113 | 5,000* | 5,000* | 105 | 5,100* | 4,600* | 111 | 4,800* | 4,300* | 114 | 4,400* | 4,400* | 51 |
| 47 | 112 | 4,800* | 4,400* | 116 | 4,600* | 4,200* | 119 | 4,300* | 4,300* | 113 | 4,100* | 3,700* | 117 | 3,900* | 3,500* | 120 | 3,600* | 3,600* | 47 |
| 43 | 119 | 4,100* | 3,700* | 123 | 3,900* | 3,500* | 125 | 3,600* | 3,600* | 120 | 3,300* | 3,000* | 124 | 3,200* | 2,800* | 126 | 2,900* | 2,900* | 43 |
| 38 | 126 | 3,300* | 3,000* | 130 | 3,100* | 2,900* | 131 | 3,000* | 2,700* | 127 | 2,600* | 2,300* | 131 | 2,400* | 2,100* | 132 | 2,300* | 2,000* | 38 |
| 32 | 134 | 2,700* | 2,300* | 137 | 2,500* | 2,200* | 137 | 2,400* | 1,900* | 135 | 2,000* | 1,700* | 138 | 1,800* | 1,500* | 138 | 1,700* | 1,200* | 32 |
| 25 | 141 | 2,100* | 1,700* | 142 | 2,000* | 1,700* | | | | 143 | 1,400* | | 144 | 1,300* | | | | | 25 |

SIDE STOW JIB ON FULLY EXTENDED OUTRIGGERS AND WITH 15,200 LBS. COUNTERWEIGHT

| LOADED BOOM ANGLE (DEG) | 57 FT OFFSETABLE JIB | | | | | | | | | LOADED BOOM ANGLE (DEG) |
|-------------------------|------------------------|-----------------|-----------|------------------------|-----------------|-----------|------------------------|-----------------|-----------|-------------------------|
| | 0° OFFSET | | | 15° OFFSET | | | 30° OFFSET | | | |
| | (REF) LOAD RADIUS (FT) | FRONT ONLY (LB) | 360° (LB) | (REF) LOAD RADIUS (FT) | FRONT ONLY (LB) | 360° (LB) | (REF) LOAD RADIUS (FT) | FRONT ONLY (LB) | 360° (LB) | |
| 77 | 48 | 6,600* | 6,600* | 66 | 4,600* | 4,600* | 75 | 3,400* | 3,400* | 77 |
| 75 | 56 | 6,500* | 6,500* | 72 | 4,400* | 4,400* | 81 | 3,300* | 3,300* | 75 |
| 73 | 63 | 6,300* | 6,300* | 77 | 4,200* | 4,200* | 87 | 3,200* | 3,200* | 73 |
| 71 | 70 | 6,100* | 6,100* | 83 | 4,000* | 4,000* | 92 | 3,100* | 3,100* | 71 |
| 68 | 80 | 5,500* | 5,500* | 91 | 3,800* | 3,800* | 100 | 3,000* | 3,000* | 68 |
| 65 | 90 | 5,000* | 5,000* | 99 | 3,600* | 3,600* | 108 | 2,900* | 2,900* | 65 |
| 62 | 98 | 4,600* | 4,600* | 106 | 3,400* | 3,400* | 115 | 2,800* | 2,800* | 62 |
| 59 | 106 | 4,300* | 4,300* | 114 | 3,200* | 3,200* | 121 | 2,700* | 2,700* | 59 |
| 55 | 116 | 3,900* | 3,900* | 123 | 3,000* | 3,000* | 129 | 2,600* | 2,600* | 55 |
| 51 | 125 | 3,600* | 3,600* | 132 | 2,900* | 2,900* | 137 | 2,600* | 2,600* | 51 |
| 47 | 133 | 3,000* | 2,900* | 140 | 2,800* | 2,700* | 143 | 2,500* | 2,500* | 47 |
| 43 | 140 | 2,500* | 2,300* | 147 | 2,400* | 2,200* | 149 | 2,400* | 2,100* | 43 |
| 38 | 148 | 1,900* | 1,700* | 154 | 1,800* | 1,600* | 155 | 1,800* | 1,600* | 38 |
| 32 | 157 | 1,400* | 1,100* | 161 | 1,300* | 1,100* | 162 | 1,300* | 1,100* | 32 |
| 25 | 165 | 900* | | | | | | | | 25 |

NOTES FOR JIB CAPACITIES

- A. For all boom lengths less than the maximum with a jib erected, the rated loads are determined by boom angle only in the appropriate column.
- B. For boom angle not shown, use the capacity of the next lower boom angle.
- C. Listed radii are for fully extended main boom only.

ON TIRES

| RADIUS (FT) | MAX BOOM LENGTH (FT) | 29.5 X 25-28PR | | | |
|-------------|----------------------|----------------|---------------------|--------------|---------|
| | | STATIONARY | | PICK & CARRY | |
| | | 360° | STRAIGHT OVER FRONT | CREEP | 2.5 MPH |
| 10 | 40 | 48,000 | 74,100* | 56,100* | 47,100* |
| 12 | 40 | 40,600 | 65,200* | 49,100* | 41,000* |
| 15 | 40 | 30,100 | 54,300 | 40,900* | 34,000* |
| 20 | 40 | 20,200 | 36,100 | 31,400* | 25,700* |
| 25 | 54 | 13,800 | 25,000 | 24,800* | 20,000* |
| 30 | 54 | 9,400 | 18,300 | 18,300 | 15,700* |
| 35 | 54 | 6,700 | 14,300 | 14,300 | 13,900* |
| 40 | 66 | 5,000 | 11,700 | 11,700 | 11,200* |
| 45 | 66 | 3,500 | 9,700 | 9,700 | 9,100* |
| 50 | 66 | 2,400 | 8,000 | 8,000 | 8,000 |
| 55 | 78 | 1,600 | 6,400 | 6,400 | 6,400 |
| 60 | 78 | | 5,000 | 5,000 | 5,000 |
| 65 | 78 | | 3,400 | 3,400 | 3,400 |
| 70 | 90 | | 3,200 | 3,200 | 3,200 |
| 75 | 90 | | 2,800 | 2,800 | 2,800 |
| 80 | 90 | | 2,300 | 2,300 | 2,300 |

NOTES FOR ON TIRE CAPACITIES

- A. For Pick and Carry operations, boom must be centered over the front of the crane with swing brake and lock engaged. Use minimum boom point height and keep load close to ground surface.
- B. The load should be restrained from swinging. NO ON TIRE OPERATION WITH JIB ERECTED.
- C. Without outriggers, never maneuver the boom beyond listed load radii for applicable tires to ensure stability.
- D. Creep speed is crane movement of less than 200 Ft. (61m) in a 30 minute period and not exceeding 1.0 mph (1.6 km/h).
- E. Refer to General Notes for additional information.

MAXIMUM PERMISSIBLE HOIST LINE LOAD

| LINE PARTS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| MAIN & AUX. HOIST | 13,800 | 27,600 | 41,400 | 55,200 | 69,000 | 82,800 | 96,600 | 110,400 | 124,200 | 138,000 | 150,000 |
| | WIRE ROPE: 3/4" ROTATION RESISTANT 34 x 7 COMPACTED STRAND, GRADE 2160, MINIMUM BREAKING STRENGTH - 34.5 TONS. WEIGHT 1.24 LBS./FT. 3/4" 6 X 19 OR 6 X 37, IPS, IWRG, PREFORMED RIGHT REGULAR LAY MINIMUM BREAKING STRENGTH - 25.6 TONS. WEIGHT 1.04 LBS/FT. | | | | | | | | | | |

RECOMMENDED TIRE PRESSURE

| TIRE SIZE | STATIONARY | CREEP | 2 1/2 MPH | TRAVEL |
|-----------------|------------|--------|-----------|--------|
| 29.5 X 25-28 PR | 62 PSI | 62 PSI | 62 PSI | 54 PSI |

GENERAL NOTES

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, Parts and Safety Manuals 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 OPERATORS MANUAL, CIMA SAFETY MANUAL, APPLICABLE OSHA REGULATIONS, AND SOCIETY OF MECHANICAL ENGINEERS (ASME) SAFETY STANDARDS FOR CRANES.
4. This crane and its load ratings are in accordance with POWER CRANE & SHOVEL ASSOCIATION, STANDARD NO. 4, SAE CRANE LOAD STABILITY TEST CODE J765, SAE METHOD OF TEST FOR CRANE STRUCTURE J1063 AND APPLICABLE SAFETY CODE FOR CRANES, DERRICKS AND HOISTS, ASME/ANSI B30.5.

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. **LOADED 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 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.
4. **FREELY SUSPENDED LOAD** – Load hanging free with no direct external force applied except by the hoist rope.
5. **SIDE LOAD** – Horizontal force applied to the lifted load either on the ground or in the air.
6. **EXTRA-CAUTION ZONE** – Tipping can occur with some boom/jib combinations at radii within this area without any load on the hook.
7. **BOOM SIDE OF CRANE** – The side of the crane over which the boom is positioned when in an OVER SIDE working position.

SET-UP

1. Crane load ratings are based on the crane being leveled and standing on a firm, uniform supporting surface.
2. Crane load ratings on outriggers are based on all outrigger beams being fully extended or in the case of partial extension ratings mechanically pinned in the appropriate position, and the tires free of the supporting surface.
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.
4. Use of jibs, lattice-type boom extensions, or fourth section pullouts extended is not permitted for pick and carry operations.
5. Consult appropriate section of the Operator's and Service Manual for more exact description of hoist line reeving.
6. 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.
7. Properly maintained wire rope is essential for safe crane operation. Consult Operator's Manual for proper maintenance and inspection requirements.
8. 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.
9. The boom angle must be below 73° unless the boom is positioned in-line with the crane's chassis or the outriggers are extended. Failure to observe this warning may result in loss of stability.

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.

OPERATION (continued)

3. Do not operate at longer radii than those listed on the applicable load rating chart (cross hatched areas shown on range diagrams).
4. The boom angles shown on the Capacity 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. Power telescoping boom sections must be extended equally.
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. Deduction must be made for excessive reeving. Any reeving over the minimum required, (see Hoist Tackle Chart), is considered excessive and must be accounted for. Use Working Range Diagram to estimate the extra feet (meters) of wire rope. Deduct for each foot of excessive wire rope before attempting to lift a load. When jibs are erected but unused add three (3) times the weight of any hook block, slings, and auxiliary lifting devices at the jib head to the load.
7. Rated loads do not exceed 85% on outriggers or 75% on tires, of the tipping load as determined by SAE Crane Stability Test Code J765. Structural strength ratings in chart are indicated with an asterisk (*).
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 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 of loads, hazardous conditions, experience of personnel, two machine lifts, traveling with loads, electric wires, etc., (side pull on boom or jib is hazardous). Derating of the cranes lifting capacity is required when wind speed exceeds 20 MPH. The center of the lifted load must never be allowed to move more than 3" feet off the center line of the base boom section due to the effects of wind, inertia, or any combination of the two.
**Use 2 feet off the center line of the base boom for a two section boom, 3 feet for a three section boom, 4 feet for a four section boom, or 5 feet for a five section boom.
10. The maximum load which can be telescoped is not definable, because of variations in loadings and crane maintenance, but it is permissible to attempt retraction and extension if load ratings are not exceeded.
11. Load ratings are dependent upon the crane being maintained according to manufacturer's specifications.
12. It is recommended that load handling devices, including hooks, and hook blocks, be kept away from boom head at all times.
13. **FOR TRUCK CRANES ONLY:** 360° capacities apply only to machines equipped with a front outrigger jack and all five (5) outrigger jacks properly set. If the front (5th) outrigger jack is not properly set, the work area is restricted to the over side and over rear areas as shown on the Crane Working Positions diagram. Use the 360° load ratings in the overside work areas.
14. Do not lift with outrigger beams positioned between the fully extended and intermediate (pinned) positions.
15. Truck Cranes not equipped with equalizing (bogie) beams between the rear axles may not be used for lifting "on tires". Truck Cranes equipped with equalizing beams and rear air suspension should "dump" the air before lifting "on tires".

CLAMSHELL, MAGNET, AND CONCRETE BUCKET SERVICE

1. Maximum boom length for clamshell and magnet service is 50 feet.
2. Weight of clamshell or magnet, plus contents are not to exceed 6,000 pounds or 90% of rated lifting capacities, whichever is less. For concrete bucket operation, weight of bucket and load must not exceed 90% of rated lifting capacity.

WE RESERVE THE RIGHT TO AMEND THESE SPECIFICATIONS AT ANY TIME WITHOUT NOTICE. THE ONLY WARRANTY APPLICABLE IS OUR STANDARD WRITTEN WARRANTY APPLICABLE TO THE PARTICULAR PRODUCT AND SALE. WE MAKE NO OTHER WARRANTY, EXPRESSED OR IMPLIED.



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