



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 4x4 drive.

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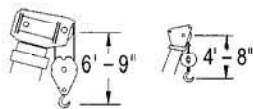
For more information, product demonstration, or details on purchase, lease and rental plans, please contact your local Terex Cranes Distributor.



RT775

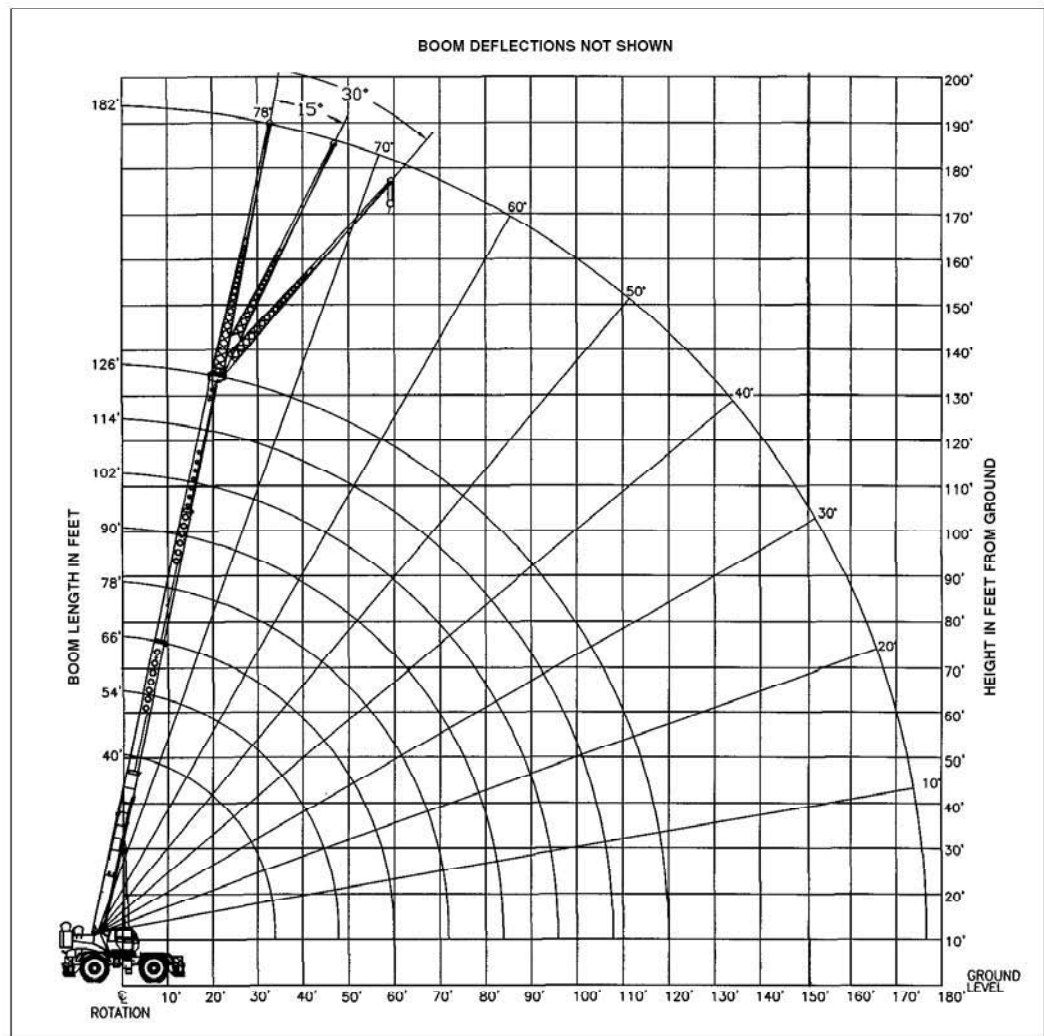
rough terrain crane
75 ton capacity

range diagram & lifting capacities

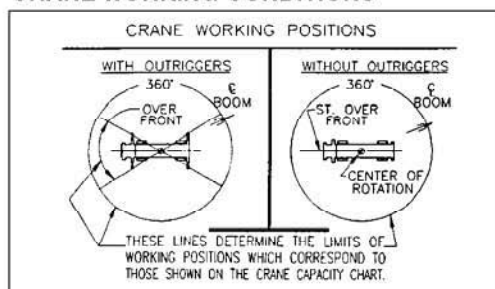


DIMENSIONS ARE FOR
LARGEST FACTORY
FURNISHED HOOK BLOCK
AND HOOK & BALL,
WITH ANTI-TWO BLOCK
ACTIVATED

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 RT 7 7 5

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

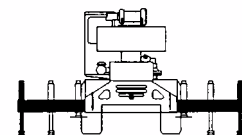
STABILITY PCT.
ON OUTRIGGERS 85%
ON TIRES 75%
PCSA CLASS 10-316



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 RT 7 7 5

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

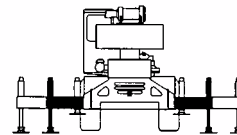
STABILITY PCT.
ON OUTRIGGERS 85%
ON TIRES 75%
PCSA CLASS 10-316



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	360°	LOAD RADIUS	360°	LOAD RADIUS	360°	LOAD RADIUS	360°
(FT)	(LB)	(FT)	(LB)	(FT)	(LB)	(FT)	(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	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



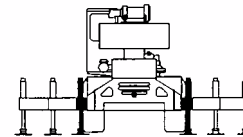
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COUNTERWEIGHT:
W/AUX. WINCH 13,660 LBS.
W/O AUX. WINCH 15,200 LBS.
BOOM LENGTH 40-126 FT.
OUTRIGGER SPREAD 24 FT.

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

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 RT 7 7 5

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	
		STATIC	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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