

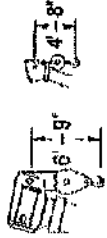
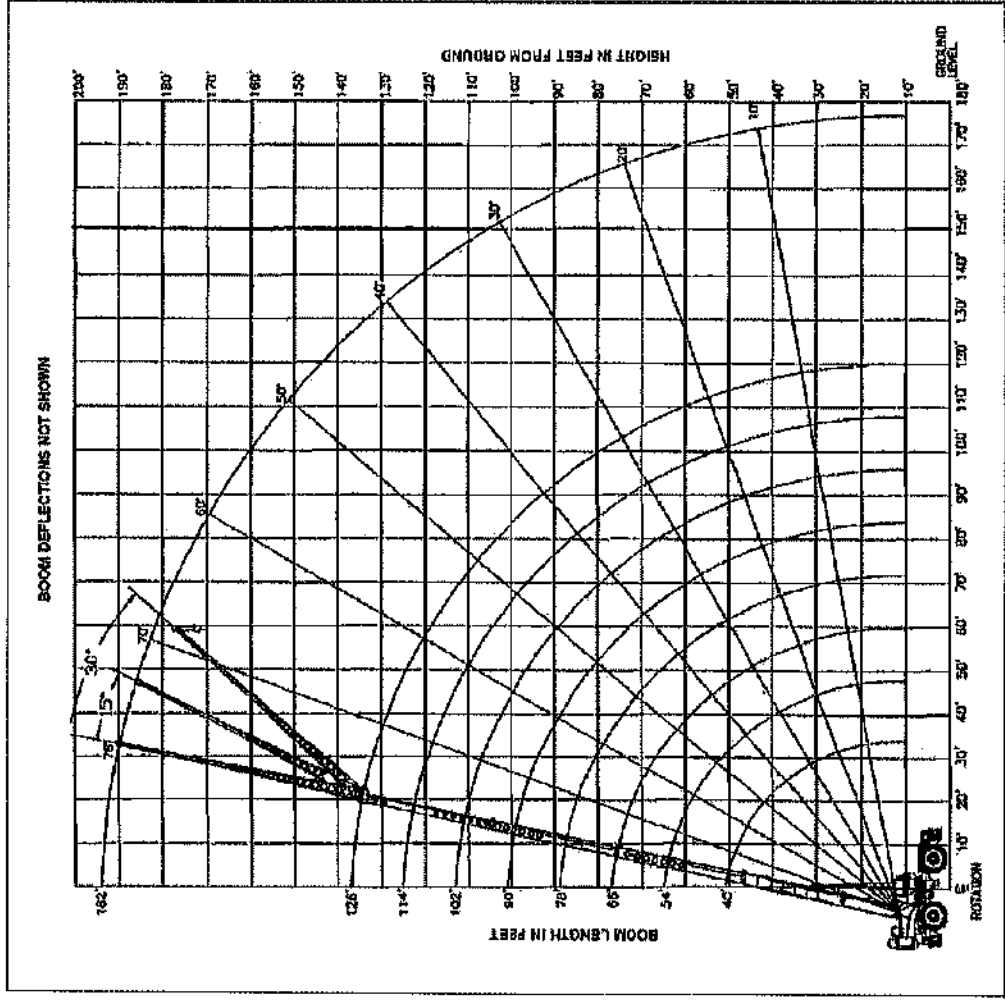


TEREX

RT775

rough terrain crane
75 ton capacity

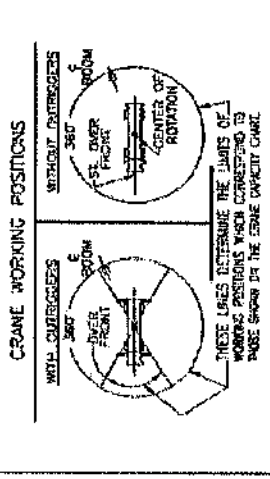
range diagram & lifting capacities



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 Slowed Position _____ 0 Lbs.
Anz. Boom in Head Sheave _____ 100 Lbs.

HOOK BLOCK WEIGHTS

Hook & Ball _____ 419 Lbs.
Hook Block (5 Sheaves) _____ 1688 Lbs.

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

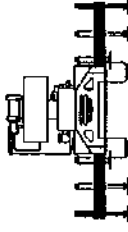
MODEL RT775

COUNTERWEIGHT: STABILITY FCI
 W/AUX. WINCH 13,660 LBS. ON OUTRIGGERS 85%
 W/O AUX. WINCH 15,200 LBS. ON TRES 75%
 BOOM LENGTH 40-126 FT. PCSA CLASS 10-316
 OUTRIGGER SPREAD 24 FT.

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	
	BOOM ANGLE (DEG) REF.	OVER FRONT (LB)	BOOM ANGLE (DEG) REF.	OVER FRONT (LB)	BOOM ANGLE (DEG) REF.	OVER FRONT (LB)	BOOM ANGLE (DEG) REF.	OVER FRONT (LB)
10	68.4	150,000*	75.0	102,600*	102,600*			10
12	66.2	123,700*	72.8	102,600*	102,600*			12
15	61.3	106,900*	69.3	100,900*	100,900*	73.3	80,700*	15
20	52.3	84,800*	63.4	85,400*	85,400*	66.8	72,000*	20
25	42.0	66,700*	56,700*	66,800*	66,800*	63.6	64,900*	25
30	28.5	52,900*	48,300*	54,000*	50,600*	58.7	54,500*	30
35	**		42.6	40,600	37,800	53.3	41,300	35
40			33.6	31,600	29,500	47.5	32,100	40
45			21.0	25,300	23,600	41.1	26,000	45
50			**			35.6	21,300	50
55						24.0	17,800	55
60						**		60
65								65
70								70
75								75



USE THESE CHARTS ONLY
 WHEN ALL OUTRIGGERS
 ARE FULLY EXTENDED

** MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

LOAD RADIUS (FT)	BOOM LENGTH 40 FT		BOOM LENGTH 54 FT		BOOM LENGTH 66 FT		BOOM LENGTH 78 FT	
	BOOM ANGLE (DEG) REF.	OVER FRONT (LB)	BOOM ANGLE (DEG) REF.	OVER FRONT (LB)	BOOM ANGLE (DEG) REF.	OVER FRONT (LB)	BOOM ANGLE (DEG) REF.	OVER FRONT (LB)
20	74.6	56,300*	29,600*	19,100*	19,100*	39.9	14,200*	13,900
25	71.2	48,100*	48,100*					71.9
30	67.7	41,800*	41,800*					10,500
35	64.2	36,700*	36,700*					8,700

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	
	BOOM ANGLE (DEG) REF.	OVER FRONT (LB)	BOOM ANGLE (DEG) REF.	OVER FRONT (LB)	BOOM ANGLE (DEG) REF.	OVER FRONT (LB)	BOOM ANGLE (DEG) REF.	OVER FRONT (LB)
20	74.6	56,300*	56,300*					20
25	71.2	48,100*	48,100*	42,000*	42,000*			25
30	67.7	41,800*	41,800*	36,500*	36,500*	72.6	31,600*	31,600*
35	64.2	36,700*	36,700*	32,200*	32,200*	70.0	29,600*	29,600*
40	60.6	32,600	30,500*	28,700*	28,700*	67.2	26,800*	26,800*
45	56.8	28,400	24,700	24,800	24,800	64.5	23,600*	23,600*
50	52.8	21,900	20,400	22,000	20,600	61.6	21,500*	20,700
55	48.6	18,400	17,200	18,500	17,300	58.7	18,600	17,400
60	44.1	15,600	14,600	15,700	14,700	55.6	16,800	14,800
65	39.1	13,300	12,400	13,500	12,600	52.5	13,600	12,700
70	33.6	11,500	10,700	11,600	10,900	49.2	11,700	11,000
75	27.0	9,900	9,100	10,100	9,300	46.7	10,200	9,500
80	18.2	8,500	7,800	8,800	8,000	42.0	8,500	8,200
85	**		27.9	7,500	6,900	38.0	7,700	7,000
90			20.7	6,500	5,900	33.6	6,700	6,100
95			8.8	5,600	5,000	28.5	5,800	5,200
100			**			22.5	5,000	4,400
105						13.9	4,200	3,700
110						**		
115								

** MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

LOAD RADIUS (FT)	BOOM LENGTH 90 FT		BOOM LENGTH 102 FT		BOOM LENGTH 114 FT		BOOM LENGTH 126 FT	
	BOOM ANGLE (DEG) REF.	OVER FRONT (LB)	BOOM ANGLE (DEG) REF.	OVER FRONT (LB)	BOOM ANGLE (DEG) REF.	OVER FRONT (LB)	BOOM ANGLE (DEG) REF.	OVER FRONT (LB)
20	74.6	56,300*	56,300*					20
25	71.2	48,100*	48,100*					25
30	67.7	41,800*	41,800*					30
35	64.2	36,700*	36,700*					35
40	60.6	32,600	30,500*					40
45	56.8	28,400	24,700					45
50	52.8	21,900	20,400					50
55	48.6	18,400	17,200					55
60	44.1	15,600	14,600					60
65	39.1	13,300	12,400					65
70	33.6	11,500	10,700					70
75	27.0	9,900	9,100					75
80	18.2	8,500	7,800					80
85	**		27.9	7,500	6,900	38.0	7,700	7,200
90			20.7	6,500	5,900	33.6	6,700	6,200
95			8.8	5,600	5,000	28.5	5,800	5,300
100			**			22.5	5,000	4,500
105						13.9	4,200	3,800
110						**		
115								

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

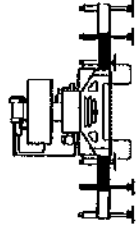
MODEL RT775

COUNTERWEIGHT: STABILITY PCT.
 W/O WINCH 13,660 LBS. ON OUTRIGGERS 85%
 W/O AUX. WINCH 15,200 LBS. ON TIRES 75%
 BOOM LENGTH 40-126 FT. PCSA CLASS 10-316
 OUTRIGGER SPREAD 24 FT.

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	
	BOOM ANGLE (DEG) REF.	360° (LB) REF.	BOOM ANGLE (DEG) REF.	360° (LB) REF.	BOOM ANGLE (DEG) REF.	360° (LB) REF.	BOOM ANGLE (DEG) REF.	360° (LB) REF.
10	89.4	150,000*	75.0	102,600*				
12	86.2	125,700*	72.8	102,600*				
15	83.1	103,100	69.3	100,600*	73.3	80,700*		15
20	52.3	85,100	65.4	56,200	68.6	56,700	72.1	57,000
25	42.0	35,600	57.1	36,600	63.8	37,300	68.1	37,500
30	38.5	25,000	50.3	25,300	58.7	25,800	64.0	27,000
35	**		42.6	19,600	53.3	20,200	58.8	20,500
40			38.6	15,000	47.5	15,500	55.3	16,000
45			21.0	11,700	41.1	12,200	50.6	12,600
50			**		33.6	9,700	45.5	10,100
55					24.0	7,700	39.9	8,100
60					**		33.6	6,400
65							25.8	5,100
70							14.2	3,900
75							**	
75								75



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

** MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

LOAD RADIUS (FT)	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	10,900	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	
	BOOM ANGLE (DEG) REF.	360° (LB) REF.	BOOM ANGLE (DEG) REF.	360° (LB) REF.	BOOM ANGLE (DEG) REF.	360° (LB) REF.	BOOM ANGLE (DEG) REF.	360° (LB) REF.
20	74.6	56,500*						
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
40	60.6	16,100	64.3	16,300	67.2	16,400	69.5	16,400
45	56.8	12,800	61.1	13,000	64.5	13,100	67.1	13,100
50	52.8	10,200	57.8	10,500	61.5	10,600	64.5	10,600
55	48.6	8,300	54.4	8,500	58.7	8,600	62.0	8,700
60	44.1	6,700	50.8	6,900	55.6	7,000	58.9	7,100
65	39.1	5,300	47.0	5,500	52.5	5,700	56.6	5,800
70	33.6	4,200	42.9	4,400	49.2	4,600	55.8	4,700
75	27.0	3,300	38.5	3,500	45.7	3,600	50.9	3,700
80			33.6	2,600	42.0	2,800	47.8	2,900
80								80

** MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

LOAD RADIUS (FT)	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)

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

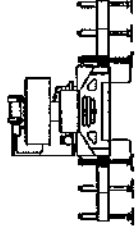
MODEL R1775

COUNTERWEIGHT: STABILITY PCT.
 W/AUX. WINCH: 13,860 LBS. ON OUTRIGGERS 85%
 W/O AUX. WINCH: 15,200 LBS. ON TIRES 75%
 BOOM LENGTH 40-125 FT. PCSA CLASS 10-316
 OUTRIGGER SPREAD 24 FT.

⚠ 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	
	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	84,850	75.0	85,700				10
12	66.2	59,400	72.8	60,400				12
15	61.8	39,400	69.3	40,500	73.3	40,900		15
20	52.9	23,300	63.4	24,400	68.6	34,900	72.1	25,100
25	42.0	15,000	57.1	16,100	63.8	16,600	68.1	16,900
30	28.5	9,900	60.3	11,000	58.7	11,600	64.0	11,900
35	**		42.6	7,600	53.3	8,100	59.8	8,500
40			33.6	5,100	47.7	5,700	55.3	6,000
45			21.0	3,300	41.1	3,800	50.6	4,100
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

LOAD RADIUS (FT)	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		7,800						

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	
	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	74.8	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
40	60.8	6,200	64.3	6,200	67.2	6,400	69.5	6,600
45	56.8	4,400	61.1	4,400	64.5	4,600	67.1	4,800
50					61.6	3,100	64.5	3,400
55								55

** MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

LOAD RADIUS (FT)	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)

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

MODEL RT775

COUNTERWEIGHT: STABILITY PCT:
 W/AUX. WINCH 13,560 LBS. ON OUTRIGGERS 85%
 W/O AUX. WINCH 15,200 LBS. ON TIRES 75%
 BOOM LENGTH 40-126 FT. PCSA CLASS 10-318
 OUTRIGGER SPREAD 24 FT.

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.

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

LOADED BOOM ANGLE (DEG)	33 FT OFFSETABLE JIB/PULL OUT RETRACTED														
	0° OFFSET			15° OFFSET			30° OFFSET			90° OFFSET					
	FRONT RADIUS ONLY (LB)	FRONT RADIUS ONLY (LB)	FRONT RADIUS ONLY (LB)	FRONT RADIUS ONLY (LB)	FRONT RADIUS ONLY (LB)	FRONT RADIUS ONLY (LB)	FRONT RADIUS ONLY (LB)	FRONT RADIUS ONLY (LB)	FRONT RADIUS ONLY (LB)	FRONT RADIUS ONLY (LB)	FRONT RADIUS ONLY (LB)	FRONT RADIUS ONLY (LB)			
77	41	12,500*	12,500*	50	8,500*	8,500*	41	12,500*	12,500*	50	8,500*	8,500*	57	6,500*	6,500*
75	46	11,900*	11,900*	55	8,200*	8,200*	47	12,100*	12,100*	56	8,200*	8,200*	62	6,300*	6,300*
73	51	11,200*	11,200*	60	7,800*	7,800*	52	11,500*	11,500*	61	7,900*	7,900*	67	6,200*	6,200*
71	57	10,400*	10,400*	66	7,400*	7,400*	58	11,000*	11,000*	67	7,600*	7,500*	72	6,000*	6,000*
68	66	9,600*	9,600*	73	7,100*	7,100*	66	10,000*	10,000*	74	7,200*	7,200*	78	6,000*	6,000*
65	73	8,900*	8,900*	80	6,800*	6,800*	74	9,300*	9,300*	81	6,800*	6,800*	86	5,700*	5,700*
62	80	8,200*	8,200*	87	6,500*	6,500*	81	9,000*	9,000*	88	6,500*	6,500*	93	5,500*	5,500*
59	87	7,700*	7,700*	94	6,200*	6,200*	88	8,700*	8,700*	95	6,300*	6,300*	98	5,400*	5,400*
55	96	7,000*	6,900*	102	5,900*	5,900*	106	8,200*	8,200*	103	6,000*	5,900*	107	5,300*	5,300*
51	104	5,800*	5,600*	110	5,500*	5,100*	113	5,000*	5,000*	105	5,100*	4,600*	111	4,800*	4,400*
47	112	4,800*	4,400*	116	4,500*	4,200*	119	4,300*	4,300*	113	4,100*	3,700*	117	3,900*	3,500*
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*
38	126	3,300*	3,000*	130	3,100*	2,900*	127	2,600*	2,300*	131	2,400*	2,100*	132	2,300*	2,000*
32	134	2,700*	2,300*	137	2,500*	2,200*	137	2,400*	1,900*	145	2,000*	1,700*	138	1,800*	1,500*
25	141	2,100*	1,700*	142	2,000*	1,700*	148	1,400*	1,300*	144	1,300*	1,300*	144	1,300*	1,300*

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

LOADED BOOM ANGLE (DEG)	57 FT OFFSETABLE JIB														
	0° OFFSET			15° OFFSET			30° OFFSET			90° OFFSET					
	FRONT RADIUS ONLY (LB)	FRONT RADIUS ONLY (LB)	FRONT RADIUS ONLY (LB)	FRONT RADIUS ONLY (LB)	FRONT RADIUS ONLY (LB)	FRONT RADIUS ONLY (LB)	FRONT RADIUS ONLY (LB)	FRONT RADIUS ONLY (LB)	FRONT RADIUS ONLY (LB)	FRONT RADIUS ONLY (LB)	FRONT RADIUS ONLY (LB)	FRONT RADIUS ONLY (LB)			
77	48	6,600*	6,600*	56	4,800*	4,800*	75	3,400*	3,400*	77	3,400*	3,400*			
75	56	6,500*	6,500*	72	4,400*	4,400*	81	3,300*	3,300*	87	3,200*	3,200*			
73	63	6,300*	6,300*	77	4,200*	4,200*	87	3,200*	3,200*	93	3,100*	3,100*			
71	70	6,100*	6,100*	83	4,000*	4,000*	92	3,100*	3,100*	97	3,000*	3,000*			
68	80	5,900*	5,500*	91	3,800*	3,600*	100	3,000*	3,000*	108	2,900*	2,900*			
65	90	5,000*	5,000*	99	3,600*	3,600*	108	2,900*	2,900*	116	2,800*	2,800*			
62	96	4,500*	4,600*	106	3,400*	3,400*	115	2,800*	2,800*	123	2,600*	2,600*			
59	106	4,300*	4,300*	114	3,200*	3,200*	121	2,700*	2,700*	129	2,600*	2,600*			
55	116	3,900*	3,900*	123	3,000*	3,000*	129	2,600*	2,600*	137	2,500*	2,500*			
51	125	3,500*	3,600*	132	2,900*	2,900*	137	2,500*	2,500*	145	2,500*	2,500*			
47	133	3,000*	2,900*	140	2,600*	2,700*	143	2,500*	2,500*	147	2,400*	2,400*			
43	140	2,500*	2,500*	147	2,400*	2,200*	149	2,400*	2,100*	153	2,100*	2,100*			
38	148	1,900*	1,700*	154	1,800*	1,600*	155	1,800*	1,600*	161	1,600*	1,600*			
32	157	1,400*	1,100*	161	1,300*	1,100*	162	1,300*	1,100*	168	1,100*	1,100*			
25	165	900*													

MAXIMUM PERMISSIBLE HOIST LINE LOAD

LINE PARTS	1	2	3	4	5	6	7	8	9	10	11
MAIN & AUX. HOIST	13,900	27,800	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" 5 X 19 OR 5 X 37, IPS, IMPC, PREFORMED RIGHT REGULAR LAY MINIMUM BREAKING STRENGTH - 25.8 TONS, WEIGHT 1.04 LBS./FT.

RECOMMENDED TIRE PRESSURE

TIRE SIZE	STATIONARY	CREEP	2 1/2 MPH	TRAVEL
29.5 X 25-29 PR	62 PSI	62 PSI	62 PSI	54 PSI

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

MAX BOOM RADIUS (FT)	29.5 X 25-29PR				
	STATIONARY	PICK & CARRY	CREEP	2.5 MPH	
	360°	STRAIGHT OVER FRONT	360°	STRAIGHT OVER FRONT	
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	5,400	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 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 fires 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.

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 J755, SAE METHOD OF TEST FOR CRANE STRUCTURE JOINTS AND APPLICABLE SAFETY CODE FOR CRANES, DERRICKS AND HONSTS, ASME/ANSI B30.5.

DEFINITIONS

1. **LOAD RADIUS** – The horizontal distance from the axis of rotation before leading to the center of the vertical hoist line or tackle with a load applied.
2. **LOADED BOOM ANGLE** – If is the angle between the boom base position 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-CALCULATION 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 free tie 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 leaving 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 75° 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.



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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 ϕ 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 maximum 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.
Rated loads do not exceed 85% on outriggers or 75% on tires, of the tipping load as determined by SAE Crane Stability Test Code J785.
Structural strength ratings in chart are indicated with an asterisk (*).
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 ϕ 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 TLUCK 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 fit with outrigger beams positioned between the fully extended and intermediate (pinned) positions.
15. Truck Cranes not equipped with equalizing (bogies) beams between the rear axles may not be used for lifting 'on tires'. Truck Cranes equipped with equalizing beams and rear air suspension should "clump" 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 80% 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.