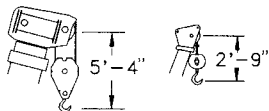


# TEREX RT 450

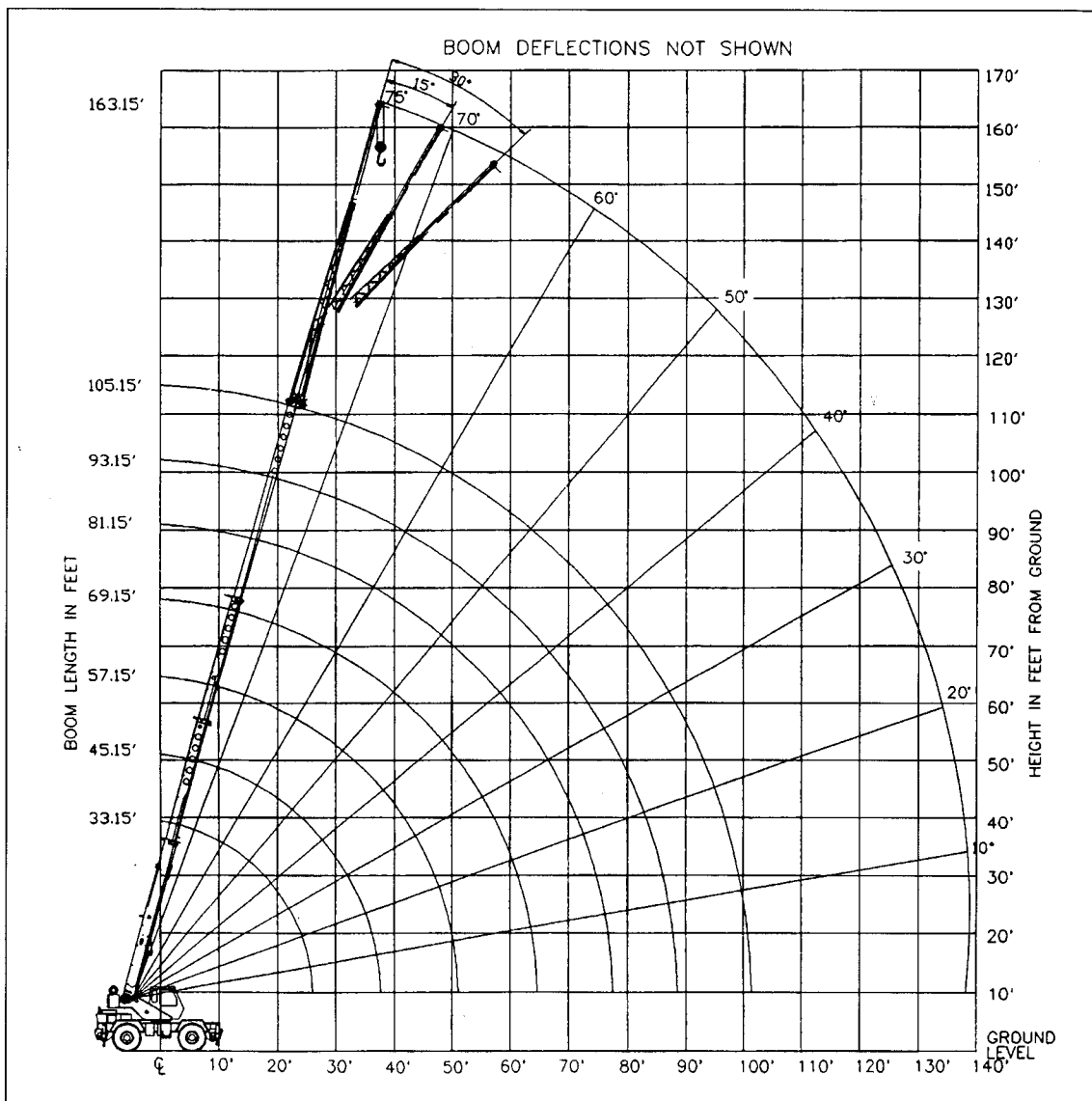
rough terrain crane  
50 ton capacity

range diagram & lifting capacities

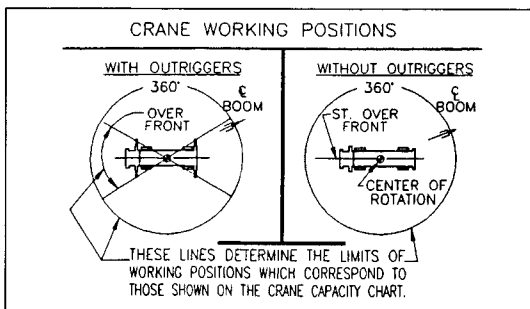


DIMENSIONS ARE FOR  
LARGEST FACTORY  
FURNISHED HOOK BLOCK  
AND HOOK & BALL,  
WITH ANTI-TWO BLOCK  
ACTIVATED

Range  
Diagram  
(33' - 105' 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	239 Lbs.
Hook Block (4 Sheave)	690 Lbs.
Hook Block (5 Sheave)	888 Lbs.
Hook Block (6 Sheave)	913 Lbs.

# Lifting Capacities – Pounds (33' – 105' boom)

## MODEL RT 450

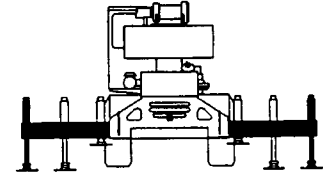
COUNTERWEIGHT:  
W/AUX. WINCH 13,100 LBS.  
W/O AUX. WINCH 14,200 LBS.  
BOOM LENGTH 33-105 FT.  
OUTRIGGER SPREAD 22 FT.

STABILITY PCT.  
ON OUTRIGGERS 85%  
ON TIRES 75%  
PCSA CLASS 10-176

**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

LOAD RADIUS (FT)	BOOM LENGTH 33.15 FT			BOOM LENGTH 45.15 FT			BOOM LENGTH 57.15 FT			LOAD RADIUS (FT)
	BOOM ANGLE (DEG)	LOADED OVER FRONT (LB)	360° (LB)	BOOM ANGLE (DEG)	LOADED OVER FRONT (LB)	360° (LB)	BOOM ANGLE (DEG)	LOADED OVER FRONT (LB)	360° (LB)	
10	65.3	100,000*	100,000*	72.2	75,100*	75,100*				10
12	61.5	76,200*	76,200*	69.5	73,100*	73,100*	73.9	59,700*	59,700*	12
15	55.4	64,300*	62,500*	65.4	61,800*	61,800*	70.8	55,100*	55,100*	15
20	44.0	46,300*	44,300*	58.1	47,200*	45,200*	65.4	47,700*	45,700*	20
25	29.6	34,800*	33,300*	50.3	35,800*	34,300*	59.7	36,300*	34,800*	25
30	**			41.5	28,100*	27,000*	53.7	28,700*	27,500*	30
35				30.7	22,700*	21,700*	47.2	23,200*	22,300*	35
40				13.9	18,500*	17,700*	39.9	19,100*	18,300*	40
45				**			31.3	15,900*	15,200*	45
50							19.6	13,300*	12,700*	50
55							**			55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100



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

### ON OUTRIGGERS - FULLY EXTENDED

LOAD RADIUS (FT)	BOOM LENGTH 69.15 FT			BOOM LENGTH 81.15 FT			BOOM LENGTH 93.15 FT			BOOM LENGTH 105.15 FT			LOAD RADIUS (FT)
	LOADED BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	LOADED BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	LOADED BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	LOADED BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	
10													10
12													12
15	74.2	44,000*	44,000*										15
20	69.8	36,200*	36,200*	72.9	33,500*	33,500*							20
25	65.4	30,400*	30,400*	69.2	28,400*	28,400*	72.0	22,200*	22,200*				25
30	60.7	26,100*	26,100*	65.4	24,300*	24,300*	68.7	19,000*	19,000*	71.2	15,100*	15,100*	30
35	55.8	22,800*	22,600*	61.4	21,100*	21,100*	65.4	16,300*	16,300*	68.3	13,400*	13,400*	35
40	50.7	19,500*	18,700*	57.3	18,700*	18,700*	61.9	14,300*	14,300*	65.4	12,000*	12,000*	40
45	45.1	16,300*	15,600*	53.0	16,500*	15,800*	58.4	12,400*	12,400*	62.3	10,800*	10,800*	45
50	38.9	13,800*	13,100*	48.4	14,000*	13,400*	54.7	10,900*	10,900*	59.2	9,600*	9,600*	50
55	31.7	11,500	10,900	43.5	11,700	11,000	50.8	9,700*	9,700*	56.0	8,600*	8,600*	55
60	22.6	9,500	8,900	38.1	9,700	9,100	46.7	8,700*	8,700*	52.6	7,600*	7,600*	60
65				32.0	8,100	7,600	42.4	7,800*	7,700	49.1	6,700*	6,700*	65
70				24.5	6,700	6,200	37.6	6,900	6,400	45.4	6,000*	6,000*	70
75				13.7	5,500	5,100	32.2	5,700	5,300	41.4	5,300*	5,300*	75
80				**			25.8	4,800	4,400	37.1	4,700*	4,500	80
85							17.5	3,900	3,500	32.3	4,000	3,700	85
90							**			26.8	3,300	2,900	90
95										20.0	2,600	2,300	95
100										9.1	2,000	1,700	100

### \*\* MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

BOOM LENGTH 33.15 FT			BOOM LENGTH 45.15 FT			BOOM LENGTH 57.15 FT			BOOM LENGTH 69.15 FT			BOOM LENGTH 81.15 FT			BOOM LENGTH 93.15 FT			BOOM LENGTH 105.15 FT		
LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)	LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)	LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)	LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)	LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)	LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)	LOAD RADIUS (FT)	OVER FRONT (LB)	360° (LB)
29.3	17,100*	17,100*	41.3	10,700*	10,700*	53.3	6,900*	6,900*	65.3	4,500*	4,500*	77.3	2,700*	2,700*	89.3	1,500*	1,500*	101.3	500*	500*

# Lifting Capacities – Pounds (33’ – 105’ boom)

## MODEL RT 450

COUNTERWEIGHT:  
 W/AUX. WINCH 13,100 LBS.  
 W/O AUX. WINCH 14,200 LBS.  
 BOOM LENGTH 33-105 FT.  
 OUTRIGGER SPREAD 22 FT.

STABILITY PCT.  
 ON OUTRIGGERS 85%  
 ON TIRES 75%  
 PCSA CLASS 10-176

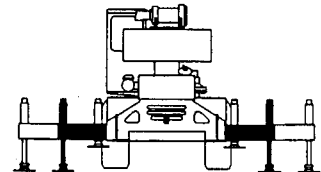
**CAUTION:** Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

### ON OUTRIGGERS - MID POSITION

LOAD RADIUS (FT)	BOOM LENGTH 33.15 FT		BOOM LENGTH 45.15 FT		BOOM LENGTH 57.15 FT		BOOM LENGTH 69.15 FT		BOOM LENGTH 81.15 FT		BOOM LENGTH 93.15 FT		BOOM LENGTH 105.15 FT		LOAD RADIUS (FT)
	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	
10	65.3	87,000*	72.2	75,100*											10
12	61.5	70,900*	69.5	71,800*	73.9	59,700*									12
15	55.4	54,800*	65.4	55,700*	70.8	55,100*	74.2	44,000*							15
20	44.0	38,600*	58.1	39,500*	65.4	39,900*	69.8	36,200*	72.9	33,500*					20
25	29.6	25,300	50.3	26,400	59.7	26,700	65.4	26,900	69.2	27,000	72.0	22,200*			25
30	**		41.5	18,600	53.7	19,000	60.7	19,200	65.4	19,300	68.7	19,000*	71.2	15,100*	30
35			30.7	13,500	47.2	14,000	55.8	14,200	61.4	14,400	65.4	14,400	68.3	13,400*	35
40			13.9	9,800	39.9	10,600	50.7	10,800	57.3	10,900	61.9	11,000	65.4	11,100	40
45			**		31.3	8,000	45.1	8,300	53.0	8,500	58.4	8,500	62.3	8,600	45
50					19.6	5,900	38.9	6,300	48.4	6,600	54.7	6,600	59.2	6,700	50
55					**		31.7	4,800	43.5	5,000	50.8	5,100	56.0	5,200	55
60							22.6	3,500	38.1	3,800	46.7	3,900	52.6	4,000	60
65							**		32.0	2,700	42.4	2,900	49.1	3,000	65
70									24.5	1,800	37.6	2,000	45.4	2,100	70
75											32.2	1,300	41.4	1,400	75

### \*\* MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

BOOM LENGTH 33.15 FT		BOOM LENGTH 45.15 FT		BOOM LENGTH 57.15 FT		BOOM LENGTH 69.15 FT		BOOM LENGTH 81.15 FT		BOOM LENGTH 93.15 FT		BOOM LENGTH 105.15 FT	
LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)
29.3	17,100*	41.3	8,900	53.3	4,700	65.3	2,300						



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

# Lifting Capacities – Pounds (33' – 105' boom)

## MODEL RT 450

COUNTERWEIGHT:  
 W/AUX. WINCH 13,100 LBS.  
 W/O AUX. WINCH 14,200 LBS.  
 BOOM LENGTH 33-105 FT.  
 OUTRIGGER SPREAD 22 FT.

STABILITY PCT.  
 ON OUTRIGGERS 85%  
 ON TIRES 75%  
 PCSA CLASS 10-176

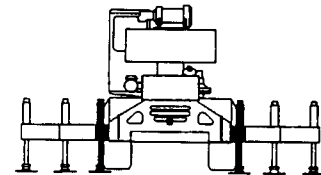
**CAUTION:** Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

### ON OUTRIGGERS - RETRACTED

LOAD RADIUS (FT)	BOOM LENGTH 33.15 FT		BOOM LENGTH 45.15 FT		BOOM LENGTH 57.15 FT		BOOM LENGTH 69.15 FT		BOOM LENGTH 81.15 FT		BOOM LENGTH 93.15 FT		BOOM LENGTH 105.15 FT		LOAD RADIUS (FT)
	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	LOADED BOOM ANGLE (DEG)	360° (LB)	
10	65.3	70,000	72.2	70,700											10
12	61.5	48,900	69.5	49,500	73.9	49,800									12
15	55.4	32,300	65.4	33,000	70.8	33,300	74.2	33,400							15
20	44.0	18,700	58.1	19,700	65.4	20,000	69.8	20,100	72.9	20,200					20
25	29.6	11,700	50.3	12,700	59.7	13,100	65.4	13,300	69.2	13,400	72.0	13,500			25
30	**		41.5	8,400	53.7	8,900	60.7	9,200	65.4	9,300	68.7	9,300	71.2	9,400	30
35			30.7	5,500	47.2	6,000	55.8	6,300	61.4	6,500	65.4	6,600	68.3	6,600	35
40			13.9	3,300	39.9	3,900	50.7	4,300	57.3	4,500	61.9	4,600	65.4	4,600	40
45			**		7.9	2,300	45.1	2,700	53.0	2,900	58.4	3,000	62.3	3,100	45
50					19.6	1,100	38.9	1,500	48.4	1,700	54.7	1,800	59.2	1,900	50

### \*\* MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

BOOM LENGTH 33.15 FT		BOOM LENGTH 45.15 FT		BOOM LENGTH 57.15 FT		BOOM LENGTH 69.15 FT		BOOM LENGTH 81.15 FT		BOOM LENGTH 93.15 FT		BOOM LENGTH 105.15 FT	
LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)
29.3	7,500	41.3	2,700										



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

# Lifting Capacities – Pounds (33' – 105' boom)

## MODEL RT 450

COUNTERWEIGHT: STABILITY PCT.  
 W/AUX. WINCH 13,100 LBS. ON OUTRIGGERS 85%  
 W/O AUX. WINCH 14,200 LBS. ON TIRES 75%  
 BOOM LENGTH 33-105 FT. PCSA CLASS 10-176  
 OUTRIGGER SPREAD 22 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

LOADED BOOM ANGLE (DEG)	33 FT OFFSETABLE JIB/NO PULL OUT INSTALLED						33 FT OFFSETABLE JIB/PULL OUT RETRACTED						58 FT OFFSETABLE JIB						LOADED BOOM ANGLE (DEG)
	0° OFFSET		15° OFFSET		30° OFFSET		0° OFFSET		15° OFFSET		30° OFFSET		0° OFFSET		15° OFFSET		30° OFFSET		
	LOAD RADIUS (REF) (FT)	360° (LB)	LOAD RADIUS (REF) (FT)	360° (LB)	LOAD RADIUS (REF) (FT)	360° (LB)	LOAD RADIUS (REF) (FT)	360° (LB)	LOAD RADIUS (REF) (FT)	360° (LB)	LOAD RADIUS (REF) (FT)	360° (LB)	LOAD RADIUS (REF) (FT)	360° (LB)	LOAD RADIUS (REF) (FT)	360° (LB)	LOAD RADIUS (REF) (FT)	360° (LB)	
75	38	9,100*	46	7,300*	52	6,100*	38	9,100*	46	7,300*	52	6,100*	50	5,100*	64	4,100*	75	3,400*	75
73	43	7,800*	50	6,700*	57	5,600*	43	7,800*	50	6,700*	57	5,600*	55	4,800*	69	3,900*	79	3,300*	73
70	50	7,600*	56	6,400*	63	5,500*	50	7,400*	56	6,000*	63	5,100*	63	4,600*	76	3,600*	86	3,000*	70
67	57	7,400*	63	6,000*	69	5,200*	57	6,800*	63	5,500*	69	4,700*	71	4,500*	83	3,300*	92	2,800*	67
64	63	6,400*	69	5,300*	75	4,700*	63	5,800*	69	4,800*	75	4,100*	78	4,400*	90	3,000*	98	2,600*	64
61	70	5,600*	76	4,800*	81	4,200*	70	5,000*	76	4,200*	81	3,700*	86	4,000*	97	2,900*	104	2,300*	61
58	76	5,000*	81	4,300*	86	3,800*	76	4,300*	81	3,700*	86	3,300*	93	3,600*	103	2,700*	110	2,300*	58
54	83	4,300*	88	3,800*	93	3,400*	83	3,600*	88	3,100*	93	2,800*	102	3,100*	111	2,600*	117	2,200*	54
50	90	3,800*	95	3,300*	99	3,100*	90	3,100*	95	2,700*	99	2,500*	110	2,700*	118	2,300*	123	2,000*	50
46	97	3,300*	101	2,900*	105	2,700*	97	2,600*	101	2,300*	105	2,100*	117	2,000*	124	1,900*	128	1,800*	46
42	103	2,900*	107	2,700*	110	2,500*	103	2,200*	107	2,000*	110	1,900*	123	1,400*	130	1,300*	133	1,300*	42
38	109	2,200*	112	2,000*	115	1,800*	109	1,500*	112	1,400*	115	1,300*	129	1,100*					38
32	117	1,500*	116	1,400*	121	1,400*													32

#### 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 extended main boom only.

### ON TIRES

RADIUS (FT)	MAX BOOM LENGTH (FT)	21:00 X 25-28PR				26:5 x 25-26PR				RADIUS (FT)
		STATIONARY		PICK & CARRY		STATIONARY		PICK & CARRY		
		360°	STRAIGHT OVER FRONT	360°	STRAIGHT OVER FRONT	360°	STRAIGHT OVER FRONT	360°	STRAIGHT OVER FRONT	
10	33	36,000	70,000*	53,100*	47,200*	39,500*	61,800*	47,200*	39,800*	10
12	33	30,600	64,900*	49,400*	43,700*	32,100*	57,000*	43,300*	36,300*	12
15	33	22,900	53,500	41,800*	35,900*	23,000	48,800*	36,600*	30,200*	15
20	45	14,000	31,800	31,800	27,000*	14,700	33,200	27,500*	22,500*	20
25	45	9,300	21,700	22,000	21,000	10,500	21,500	21,200	17,100*	25
30	45	6,100	15,300	15,300	15,300	7,500	15,400	15,400	13,000*	30
35	45	4,000	12,000	12,000	12,000	5,200	11,900	11,900	10,300*	35
40	57	2,400	9,400	9,400	9,400	3,500	9,500	9,500	8,200*	40
45	57		7,400	7,400	7,400	2,000	7,600	7,600	6,500*	45
50	57		6,000	6,000	6,000		6,000	6,000	5,100*	50
55	69		4,700	4,700	4,700		4,700	4,700	4,000*	55
60	69		3,600	3,600	3,600		3,600	3,600	3,000*	60

#### 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
STD. HOIST	10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000	100,000
AUX HOIST	9,080	18,160	27,240	36,320	45,400	54,480	65,560	70,000	81,270	90,000
HOOK BLOCK	7,400	14,800	22,200	29,600	37,000	44,400	51,800	59,200	66,600	74,000
WIRE ROPE: 5/8" ROTATION RESISTANT COMPACTED STRAND, 18X19 OR 19X19 MINIMUM BREAKING STRENGTH - 22.7 TONS 5/8" 6X19 OR 6X37 IWRC IPS PREFORMED RIGHT REGULAR LAY MINIMUM BREAKING STRENGTH - 17.9 TONS										

### RECOMMENDED TIRE PRESSURE

TIRE SIZE	STATIONARY	CREEP	2 1/2 MPH	TRAVEL
21:00 X 25-28 PR	85 PSI	85 PSI	85 PSI	65 PSI
26:50 X 25-26 PR	65 PSI	65 PSI	65 PSI	50 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 J765A, 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. **NO LOAD STABILITY LIMIT** – The stability limit radius shown on the range diagrams is the radius beyond which it is not permitted to position the boom, when the boom angle is less than the minimum shown on the applicable load chart, because the machine can overturn without any load.

## 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.

## OPERATION

1. **CRANE LOAD RATINGS MUST NOT BE EXCEEDED. DO NOT ATTEMPT TO TIP THE CRANE TO DETERMINE ALLOWABLE LOADS.**
2. When either radius or boom length, or both, are between listed values, the smaller of the two listed load ratings shall be used.
3. Do not operate at 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.

When jibs are erected but unused add two (2) 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 J765a. Rated loads for partially extended outriggers are determined from the formula,  $\text{Rated Load} = (\text{Tipping Load} - 0.1 \times \text{Tip Reaction}) / 1.25$ . 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, or 4 feet for a four 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 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.

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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