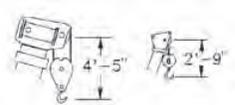




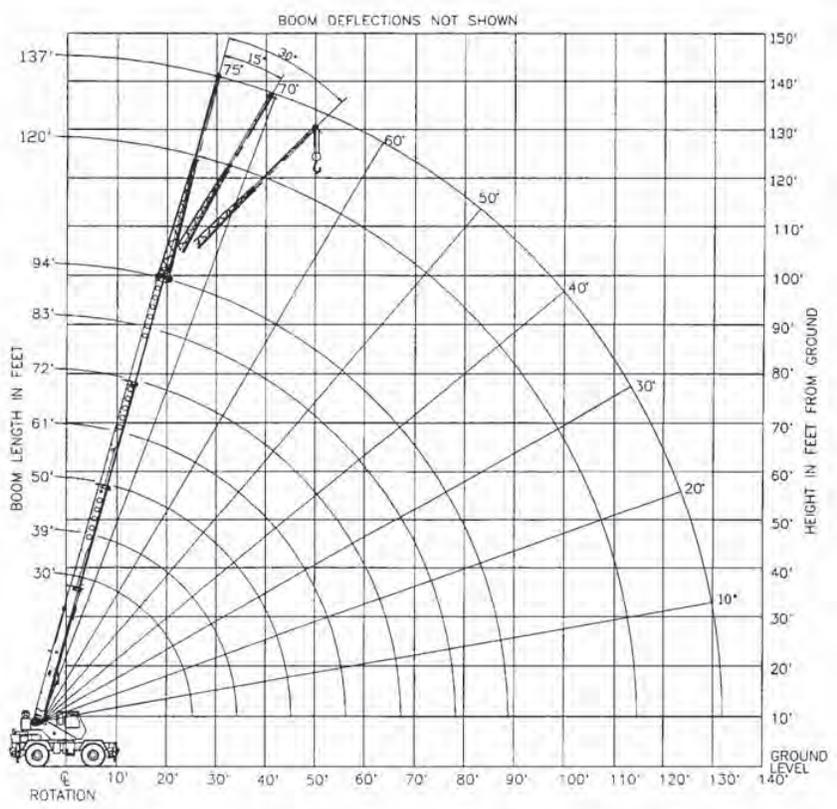
Range Diagram and Lifting Capacity | RT230

**30 TON LIFTING CAPACITY
RANGE DIAGRAM 30' - 94' BOOM**

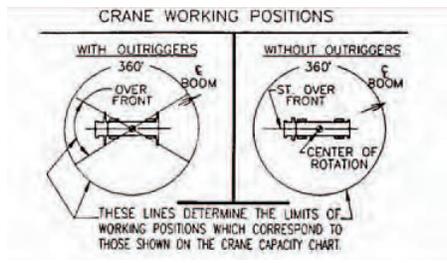


Dimensions are for largest factory furnished hook block and hook & ball, with anti-two block activated

COUNTER WEIGHT	W/AUX. WINCH 8,900 LB W/O AUX. WINCH 10,000 LB
BOOM LENGTH	30'-94'
OUTRIGGER SPREAD	19'
STABILITY PERCENTAGE	ON OUTRIGGERS 85% ON TIRES 75%
PCSA CLASS	10-118



CRANE WORKING CONDITIONS



REDUCTION IN MAIN BOOM CAPACITY

All jib in stowed position	0 lb
ax. boom in head sheave	100lb

HOOK BLOCK WEIGHTS

Hook and ball	240 lb
Hook block (2 sheave)	680 lb
Hook block (3 sheave)	670 lb
Hook block (4 sheave)	653 lb



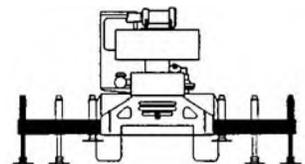
**ROUGH TERRAIN CRANE
RT230**

LIFTING CAPACITIES 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 30'			BOOM LENGTH 39'			BOOM LENGTH 50'			LOAD RADIUS (FT)
	LOADED BOOM ANGLE (DEG)	OVER FRONT (LB)	360° (LB)	LOADED BOOM ANGLE (DEG)	OVER FRONT (LB)	360° (LB)	LOADED BOOM ANGLE (DEG)	OVER FRONT (LB)	360° (LB)	
10	63.0	60,000*	60,000*	69.4	46,600*	46,600*				10
12	58.5	50,100*	50,100*	55.2	46,600*	46,600*	71.7	44,500*	44,500*	12
15	51.4	40,100*	40,100*	61.2	40,000*	40,000*	68.0	38,500*	38,500*	15
20	37.4	30,100*	30,100*	52.3	30,000*	30,000*	61.6	30,000*	30,000*	20
25	13.7	22,800*	22,900*	42.0	23,600*	23,600*	54.8	24,000*	24,000*	25
30	**			28.8	18,600*	18,600	47.3	19,100*	19,100*	30
35				**			38.7	15,500	15,100	35
40							27.9	12,100	11,800	40
45							7.9	9,600	9,300	45
50							**			50
55										55
60										60
65										65
70										70
75										75
80										80
85										85

USE THESE CHARTS ONLY WHEN ALL OUTRIGGERS ARE FULLY EXTENDED





TEREX

ROUGH TERRAIN CRANE

RT230

LIFTING CAPACITIES 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

Table with columns for Boom Length (61', 72', 83', 94') and rows for Load Radius (10-85 FT). Each cell contains Load Front (LB), Over (LB), and 360° (LB) values.

**MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

Table with columns for Boom Length (30', 39', 50', 61', 72', 83', 94') and rows for Load Radius (25.6-85 FT). Each cell contains Load Front (LB), Over (LB), and 360° (LB) values.



ROUGH TERRAIN CRANE RT230

LIFTING CAPACITIES

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

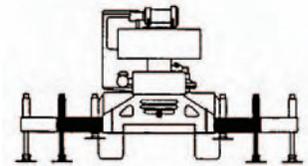
ON OUTRIGGERS - MID POSITION

LOAD RADIUS (FT)	BOOM LENGTH 30'		BOOM LENGTH 39'		BOOM LENGTH 50'		BOOM LENGTH 61'		BOOM LENGTH 72'		BOOM LENGTH 83'		BOOM LENGTH 94'		LOAD RADIUS (FT)
	LOADED BOOM ANGLE (DEG.)	360° (LB)													
10	63.0	60,000*	69.4	46,600*											10
12	58.5	50,100*	66.2	46,600*	71.7	44,500*									12
15	51.4	38,000	61.2	38,700	68.0	38,500*	72.1	36,000*							15
20	37.4	21,500	52.3	22,300	61.6	22,700	67.1	23,000	70.8	23,100					20
25	13.7	13,800	42.0	14,700	54.8	15,200	61.9	15,400	66.5	15,600	69.8	15,700	72.2	15,300*	25
30	**		28.8	10,300	47.3	10,900	56.3	11,100	62.0	11,200	66.0	11,400	69.0	11,400	30
35			**		38.7	8,000	50.4	8,300	57.4	8,400	62.2	8,500	65.7	8,600	35
40					27.9	5,900	43.9	6,300	52.5	6,500	58.1	6,600	62.2	6,600	40
45					7.9	4,400	36.5	4,800	47.2	5,000	53.9	5,100	58.7	5,200	45
50					**		27.3	3,600	41.4	3,800	49.5	4,000	55.1	4,100	50
55							13.0	2,600	34.8	2,900	44.7	3,100	51.2	3,200	55
60							**		26.9	2,100	39.5	2,300	47.2	2,400	60
65									15.5	1,500	33.6	1,700	42.8	1,800	65
70											26.6	1,100	38.0	1,300	70

**MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE

BOOM LENGTH 30'		BOOM LENGTH 39'		BOOM LENGTH 50'		BOOM LENGTH 61'		BOOM LENGTH 72'		BOOM LENGTH 83'		BOOM LENGTH 94'	
LOAD RADIUS (FT)	360° (LB)												
25.6	12,900	34.3	7,600	45.3	4,200	56.3	2,400	67.3	1,200				

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





ROUGH TERRAIN CRANE

RT230

LIFTING CAPACITIES

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

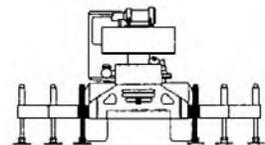
ON OUTRIGGERS - RETRACTED

LOAD RADIUS (FT)	BOOM LENGTH 30'		BOOM LENGTH 39'		BOOM LENGTH 50'		BOOM LENGTH 61'		BOOM LENGTH 72'		BOOM LENGTH 83'		BOOM LENGTH 94'		LOAD RADIUS (FT)
	LOADED BOOM ANGLE (DEG.)	360° (LB)													
10	63.0	32,800	69.4	33,400											10
12	58.5	23,600	66.2	24,200	71.7	24,600									12
15	51.4	15,800	61.2	16,500	68.0	16,900	72.1	17,100							15
20	37.4	9,100	52.3	9,800	61.6	10,300	67.1	10,500	70.8	10,600					20
25	13.7	5,300	42.0	6,200	54.8	6,700	61.9	6,900	66.5	7,100	69.8	7,200	72.2	7,200	25
30	**		28.8	3,900	47.3	4,400	56.3	4,700	62.0	4,900	66.0	5,000	69.0	5,100	30
35			**		38.7	2,900	50.4	3,200	57.4	3,400	62.2	3,500	65.7	3,600	35
40					27.9	1,700	43.9	2,100	52.5	2,300	58.1	2,400	62.2	2,500	40
45							36.5	1,200	47.2	1,400	53.9	1,500	58.7	1,600	45
50											49.5	900	55.1	1,000	50

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

LOAD RADIUS (FT)	BOOM LENGTH 30'		BOOM LENGTH 39'		BOOM LENGTH 50'		BOOM LENGTH 61'		BOOM LENGTH 72'		BOOM LENGTH 83'		BOOM LENGTH 94'	
	LOAD RADIUS (FT)	360° (LB)												
25.6	4,900	34.3	2,400											

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





ROUGH TERRAIN CRANE

RT230

LIFTING CAPACITIES 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)	26' OFFSETTABLE JIB/NO PULL OUT INSTALLED						43' OFFSETTABLE JIB/PULL OUT RETRACTED						LOADED BOOM ANGLE (DEG)
	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)	
75	35	9,100	40	7,400	45	5,600	41	5,100	50	3,400	62	2,700	75
73	39	8,600	43	6,800	49	5,300	45	4,800	54	3,300	65	2,700	73
71	43	8,100	47	6,300	52	5,000	49	4,500	58	3,200	68	2,600	71
68	49	7,300	52	5,600	56	4,500	54	4,100	64	3,000	72	2,500	68
65	60	5,500	62	4,600	61	4,100	60	3,800	70	2,900	77	2,500	65
62	60	5,500	62	4,600	66	3,700	67	3,600	74	2,800	82	2,400	62
59	64	4,800	67	4,100	71	3,400	75	3,400	81	2,700	88	2,400	59
55	70	4,100	73	3,600	78	3,000	82	3,100	89	2,600	95	2,300	55
51	76	3,500	79	3,200	84	2,800	88	2,900	96	2,500	100	2,300	51
47	82	2,800	86	2,600	89	2,500	95	2,500	101	2,100	105	2,000	47
43	87	2,300	91	2,200	93	2,300	101	2,100	107	1,700	110	1,600	43
38	93	1,800	97	1,800	98	1,800	108	1,700	113	1,300	115	1,300	38
32	100	1,400	102	1,400	104	1,400	116	1,200	119	1,000	121	1,000	32
25	106	1,000	108	1,000	108	1,000							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 extended main boom only.



ROUGH TERRAIN CRANE
RT230

LIFTING CAPACITIES 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 TIRES

RADIUS (FT)	MAX BOOM LENGTH (FT)	16:00 X 25-28 PR				20:50 X 25-24 PR			
		STATIONARY		PICK & CARRY		STATIONARY		PICK & CARRY	
		360°	STRAIGHT OVER FRONT	CREEP	2.5 MPH	360°	STRAIGHT OVER FRONT	CREEP	2.5 MPH
10	30	23,600	45,900	36,100	26,500	24,000	44,200	34,700	23,700
12	30	17,300	39,700	31,100	22,600	19,000	35,300	29,900	20,200
15	39	13,000	27,400	25,400	18,200	14,100	27,400	24,400	16,100
20	39	8,000	16,200	16,200	13,200	8,400	16,600	16,600	11,500
25	50	5,200	11,000	11,000	9,700	5,400	11,200	11,200	8,300
30	50	3,200	7,900	7,900	7,500	3,400	8,100	8,100	6,300
35	50	1,900	6,100	6,100	6,000	2,000	6,100	6,100	5,000
40	61	1,200	4,900	4,900	4,800	1,300	4,900	4,900	3,900
45	61		3,800	3,800	3,800		3,900	3,900	3,100
50	61		2,700	2,700	2,700		2,800	2,800	2,400
55	61		2,000	2,000	2,000		2,100	2,100	1,800
60	72		1,500	1,500	1,500		1,500	1,500	1,300
65	72		1,100	1,100	1,100		1,200	1,200	900

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' (61 m) in a 30 minute period and not exceeding 1.0 mph (1.6 km/h).
- E. Refer to General Notes for additional information.

RECOMMENDED TIRE PRESSURE

TIRE SIZE	STATIONARY	CREEP	2 1/2 MPH	TRAVEL
16:00 x 25-28 PR	115 PSI	115 PSI	95 PSI	95 PSI
20:50 x 25-24 PR	95 PSI	95 PSI	70 PSI	70 PSI

MAXIMUM PERMISSIBLE HOIST LINE LOAD

LINE PARTS	1	2	3	4	5	6	7
MAX LOAD	9,080	18,160	27,240	36,320	45,400	54,480	63,560
BOOM HEAD	2	3-D	2-3	1-4-D	2-3-4	2-3-4-D	1-2-3-4
HOOK BLOCK	D	3	3-D	1-4	2-3-D	2-3-4	2-3-4-D
WIRE ROPE:	5/8" ROTATION RESISTANT 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						



General Notes | RT200

GENERAL

- 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 or other than that specified can result in a reduction of capacity.
- 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
- 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 STANDINGS FOR CRANES.
- 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

- 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.
- 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.
- WORKING AREA** - Areas measured in a circular arc about the centerline of rotation as shown in the diagram.
- FREELY SUSPENDED LOAD** - Load hanging free with no direct external force applied except by the hoist rope.
- SIDE LOAD** - Horizontal force applied to the lifted load either on the ground or in the air.
- 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.
- BOOM SIDE OF CRANE** - The side of the crane over which the boom is positioned when in OVER SIDE working position.

SET-UP

- Crane load ratings are based on the crane being leveled and standing on a firm, uniform supporting surface.
- 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.
- 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.
- Use of jibs, lattice-type boom extensions, or fourth section pullouts extended is not permitted for pick and carry operations.
- Consult appropriate section of the Operator's and Service Manual for more exact description of hoist line reeving.
- 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.
- Properly maintained wire rope is essential for safe crane operation. Consult Operator's Manual for proper maintenance and inspection requirements.
- 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
- Do not elevate the boom above 60° unless the boom is positioned in-line with the crane's chassis or the outrigger are extended. Failure to observe this warning may result in loss of stability.

OPERATION

- CRANE LOAD RATINGS MUST NOT BE EXCEEDED. DO NOT ATTEMPT TO TIP THE CRANETO DETERMINE ALLOWABLE LOADS.**
- When either radius or boom length, or both, are between listed values, the smaller of the two listed load ratings shall be used.
- Do not operate at longer radii than those listed on the applicable load rating chart (cross hatched areas shown on range diagrams.)
- 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.
- Power telescoping boom sections must be extended equally.
- 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.
- 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. 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.
- 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" off the center line of the base boom section due to the effects of wind, inertia, or any combination of the two.
**Use 2' off the center line of the base boom for a two section boom, 3' for a three section boom, or 4' for a four section boom.
- 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.
- Load ratings are dependent upon the crane being maintained according to manufacturer's specifications.
- It is recommended that load handling devices, including hooks, and hook blocks, be kept away from boom head at all times.
- 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.
- Do not lift with outrigger beams positioned between the fully extended and intermediate (pinned) positions.
- 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

- Maximum boom length for clamshell and magnet service is 50'.
- Weight of clamshell or magnet, plus contents are not to exceed 6,000 lb 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.