

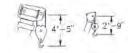
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Range Diagram and Lifting Capacity

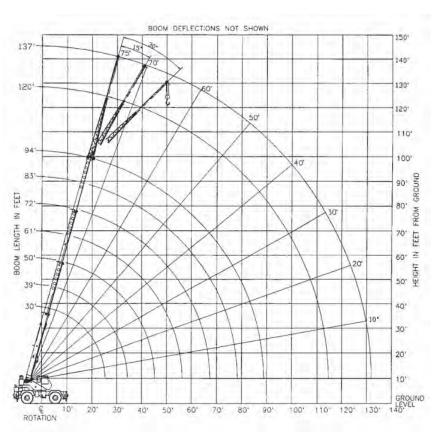
RT230

30 TON LIFTING CAPACITY Range Diagram 30' - 94' boom

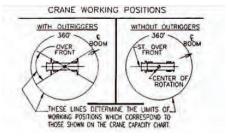


Dimensions are for largest factory furnished hook block and hook & ball, with anti-two block activated

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





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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

	B	OM LENGTH 3	D'	BC	OM LENGTH 3	9'	B	OOM LENGTH 5	0'	
	LOADED			LOADED			LOADED			
LOAD	BOOM	OVER		BOOM	OVER		BOOM	OVER		LOAD
RADIUS	ANGLE	FRONT	360°	ANGLE	FRONT	360°	ANGLE	FRONT	360°	RADIUS
(FT)	(DEG)	(LB)	(LB)	(DEG).	(LB)	(LB)	(DEG).	(LB)	(LB)	(FT)
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

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ON OUTRIGGERS - FULLY EXTENDED

	B	OOM LENGTH 6	51'	B	OM LENGTH 7	'2'	B	DOM LENGTH 8	3'	BO	OM LENGTH	94'	
LOAD	LOADED BOOM	OVER		LOADED BOOM	OVER		LOADED BOOM	OVER		LOADED BOOM	OVER		LOAD
RADIUS	ANGLE	FRONT	360°	ANGLE	FRONT	360°	ANGLE	FRONT	360°	ANGLE	FRONT	360°	RADIUS
(FT)	(DEG)	(LB)	(LB)	(DEG)	(LB)	(LB)	(DEG)	(LB)	(LB)	(DEG)	(LB)	(LB)	(FT)
10													10
12													12
15	72.1	36,000*	36,000*										15
20	67.1	29,500*	29,500*	70.8	27,400*	27,400*							20
25	61.9	24,000*	24,000*	66.5	23,100*	23,100*	69.8	19,000*	19,000*	72.2	15,300*	15,300*	25
30	56.3	19,400*	19,400*	62.0	19,600*	19,600*	66.0	15,900*	15,900*	69.0	13,100*	13,100*	30
35	50.4	15,700	15,400	57.4	15,900	15,500	62.2	13,800*	13,800*	65.7	11,400*	11,400*	35
40	43.9	12,400	12,100	52.5	12,600	12,300	58.1	12,000*	12,000*	62.2	10,000*	10,000*	40
45	36.5	10,000	9,800	47.2	10,200	9,900	53.9	10,300	10,000	58.7	8,800*	8,800*	45
50	27.3	8,200	7,900	41.4	8,400	8,100	49.5	8,500	8,300	55.1	7,900*	7,900*	50
55	13.0	6,700	6,500	34.8	7,000	6,800	44.7	7,100	6,900	51.2	7,100*	7,000	55
60	**			26.9	5,800	5,600	39.5	6,000	5,800	47.2	6,100	5,800	60
65				15.5	4,800	4,600	33.6	5,000	4,800	42.8	5,100	4,900	65
70				**			26.6	4,200	4,100	38.0	4,300	4,200	70
75							17.0	3,500	3,400	32.7	3,700	3,500	75
80							**			26.4	3,100	2,900	80
85										18.1	2,600	2,400	85

**MAXIMUM CAPACITY AT O DEGREE BOOM ANGLE

BOO	OM LENGTH	1 30'	BOO	M LENGTH	1 39'	B00	M LENGTH	50'	B00	M LENGTH	61'	B00	M LENGTH	72'	B00	M LENGTH	83'	B00	M LENGTH	194'
LOAD	OVER		LOAD	OVER		LOAD	OVER		LOAD	OVER		LOAD	OVER		LOAD	OVER		LOAD	OVER	
RADIUS	FRONT	360°	RADIUS	FRONT	360°	RADIUS	FRONT	360°	RADIUS	FRONT	360°	RADIUS	FRONT	360°	RADIUS	FRONT	360°	RADIUS	FRONT	360°
(FT)	(LB)	(LB)	(FT)	(LB)	(LB)	(FT)	(LB)	(LB)	(FT)	(LB)	(LB)	(FT)	(LB)	(LB)	(FT)	(LB)	(LB)	(FT)	(LB)	(LB)
25.6	21,900	21,900	34.3	15,200	14,900	45.3	9,400	9,100	56.3	6,300	6,100	67.3	4,400	4,200	78.3	3,100	2,900	89.3	2,100	2,000







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

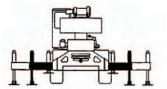
ON OUTRIGGERS - MID POSITION

	BOOM LE	NGTH 30'	BOOM LE	NGTH 39'	BOOM LE	NGTH 50'	BOOM LE	NGTH 61'	BOOM LE	NGTH 72'	BOOM LE	NGTH 83'	BOOM L	ENGTH 94'	
LOAD	LOADED BOOM		LOAD												
RADIUS	ANGLE	360°	RADIUS												
(FT)	(DEG).	(LB)	(DEG)	(LB)	(DEG).	(LB)	(DEG)	(LB)	(DEG)	(LB)	(DEG)	(LB)	(DEG)	(LB)	(FT)
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 O DEGREE BOOM ANGLE

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

USE THESE CHARTS <u>ONLY</u> WHEN ALL OUTRIGGERS ARE PINNED IN MID POSITION



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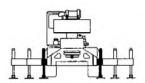
ON OUTRIGGERS - RETRACTED

	BOOM LE	NGTH 30'	BOOM LE	NGTH 39'	BOOM LE	NGTH 50'	BOOM LE	NGTH 61'	BOOM LE	NGTH 72'	BOOM LE	NGTH 83'	BOOM L	NGTH 94'	
	LOADED		LOADED		LOADED		LOADED		LOADED		LOADED		LOADED		
LOAD	BOOM		BOOM		LOAD										
RADIUS	ANGLE	360°	ANGLE	360°	ANGLE	360°	ANGLE	360°	ANGLE	360°	ANGLE	360°	ANGLE	360°	RADIUS
(FT)	(DEG).	(LB)	(DEG)	(LB)	(DEG).	(LB)	(DEG)	(LB)	(DEG)	(LB)	(DEG)	(LB)	(DEG)	(LB)	(FT)
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 O DEGREE BOOM ANGLE

BOOM LE	NGTH 30'	BOOM LE	NGTH 39'	BOOM LE	NGTH 50'	BOOM LE	NGTH 61'	BOOM LE	NGTH 72'	BOOM LE	NGTH 83'	BOOM LE	NGTH 94'
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)
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



Please

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SIDE STOW JIB ON FULLY EXTENDED OUTRIGGERS

	2	6' OFFSETT	TABLE JIB/N	0 PULL OU	T INSTALLE	D	43' 0	FFSETTABL	E JIB/PULL	OUT RETRA	ACTED		
	0° 0	FFSET	15º 01	FFSET	30° 0	FFSET	0° 0F	FSET	15º 0	FFSET	30° C	FFSET	
LOADED	LOAD		LOAD		LOAD		LOAD		LOAD		LOAD		LOADED
BOOM	RADIUS		RADIUS		RADIUS		RADIUS		RADIUS		RADIUS		BOOM
ANGLE	(REF)	360°	(REF)	360°	(REF)	360°	(REF)	360°	(REF)	360°	(REF)	360°	ANGLE
(DEG)	(FT)	(LB)	(FT)	(LB)	(FT)	(LB)	(FT)	(LB)	(FT)	(LB)	(FT)	(LB)	(DEG)
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.









LIFTING CAPACITIES

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ON TIRES

	MAX		16:00 X 25-28 P	R			20:50 >	(25-24 PR	
	BOOM			PICK &	CARRY			PICK 8	CARRY
RADIUS	LENGTH	STATI	ONARY	CREEP	2.5 MPH	STAT	IONARY	CREEP	2.5 MPH
(FT)	(FT)	360°	ST	RAIGHT OVER FRO	ONT	360°	STF	AIGHT OVER FROM	IT
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)
- 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:	STREN 5/8" 6	otation resi Igth -22.7 toi X19 or 6x37 Ar lay minim	ns Iwrc ips pref	FORMED RIGH	г	NG





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 to not constitute all of the operating conditions for the crane. The operator and job site supervision must read the OPERATORS MANUAL, CIMA SAFE-TY MANUALAPPLICABLE OSHA REGULATIONS, AND SOCIETY OF MECHANICAL ENGINEERS (ASME) SAFETY STANDINGS 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 OFFEST 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.
- 5. SIDE LOAD Horizontal force applied to he 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.
- 7. BOOM SIDE OF CRANE The side of the crane over which the boom is positions 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.
- 5. 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 save 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

- 1. CRANE LOAD RATINGS MUST NOT BE EXCEEDED. DO NOT ATTEMPT TO TIP THE CRANETO 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.
- 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.
- 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 then 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 there 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.
- 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) out rigger jack is not properly set, the work area is restricted to the over side and over rear ares 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.
- 15. Truck Cranes not equipped with equalizing (bogie) beams between the rear axles may not be used for liftingon 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'.
- 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.



