



**LOAD
CHARTS
GRT765**

**85% STABILITY
ON OUTRIGGERS
75% STABILITY
ON RUBBER**

SERIAL NUMBER

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NOTES FOR LIFTING CAPACITIES

GENERAL:

1. Rated loads as shown on lift chart 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 and Safety Handbook, Service Manual, and Parts Manual supplied with this machine. If these manuals are missing, order replacements from the manufacturer through the distributor.
3. The operator and other personnel associated with machine shall fully acquaint themselves with the latest American National Safety Standards (ASME/ANSI) for cranes.

SETUP:

1. The machine shall be level and on a firm supporting surface. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger floats or tires to spread the load to a larger bearing surface.
2. For outrigger operation, all outriggers shall be properly extended with tires raised free of crane weight before operating the boom or lifting loads.
3. When machine is equipped with center front stabilizer, the front stabilizer shall be set in accordance with instructions in Operator's & Safety Handbook.
4. When equipped with removable and/or extendible counterweight, the proper counterweight shall be installed and fully extended before and during operation.
5. Tires shall be inflated to the recommended pressure before lifting on rubber.
6. With certain boom and hoist tackle combinations, maximum capacities may not be obtainable with standard cable lengths.
7. Unless approved by the crane manufacturer, do not travel with boom extension or jib erected. Refer to Operator's and Safety Handbook for job-site travel information.

OPERATION:

1. Rated loads at rated radius and at rated slew range while in MAXbase operation shall not be exceeded. Do not attempt to tip the machine to determine allowable loads. For clamshell, grapple, mag net or concrete bucket operation, weight of component and load must not exceed 80% of rated lifting capacities.
2. All rated loads have been tested to and meet the requirements of SAE J1063 - Cantilevered Boom Crane Structures - Method of test and do not exceed ASME B30.5 5-1.1.1 Mobile crane Stability ratings, 85% of tipping on outriggers fully extended and $[1.25P \leq (T-0.1F)]$ on outriggers 50% and 0% extended (fully retracted) as determined by SAE J765 - Crane Stability Test Code. All the percentages are from ASME B30.5 5-1.1.1.
3. Rated loads include the weight of hookblock, slings and auxiliary lifting devices and their weights shall be subtracted from the listed rating to obtain the net load to be lifted. When more than the minimum required parts of line needed to pick the load are used, the additional rope weight as measured from the lower sheaves of the main boom nose shall be considered part of the load to be lifted. When both the hook block and headache ball are reeved, the lifting device that is NOT in use, including the line as measured from the lower sheave(s) of the nose supporting the unused device shall be considered part of the load.
4. Load ratings are based on freely suspended loads. No attempt shall be made to move a load horizontally on the ground in any direction.
5. The "maximum permissible wind speed" referenced in the capacity charts is the "3-second wind gust speed" measured at the boom tip height. These permissible wind speeds are based on the "wind resistance area of load" equal to 0.0059 square feet per pound (0.0012 square meters per kilogram) of load. For larger "wind resistance area of load" refer to Operator's Manual for allowable reduced wind speeds. The maximum permissible in-service wind speed is 30 mph (13.4 m/s). Only with main boom on fully extended outriggers, is lifting the load allowed at appropriately reduced capacity when the wind speed is greater than 30 mph (13.4 m/s) and less than or equal to 45 mph (20.1 m/s). Refer to Capacity Reduction Factors on page 6. For machines not in-service, the main boom should be retracted and lowered with the swing brake set when wind speeds (3-second gust speed at boom tip height) exceed 45 mph (20.1 m/s).
6. Rated loads are for lift crane service only.
7. Do not operate at a radius or boom length where capacities are not listed. At these positions, the machine may overturn without any load on the hook.
8. The maximum load which can be telescoped is not definable because of variations in loadings and crane maintenance, but it is safe to attempt retraction and extension of the boom within the limits of the capacity chart.
9. When the boom length or lift radius or both are between values listed, the smallest load shown at either the next larger radius or next longer or shorter boom length shall be used.
10. For safe operation, the user shall make due allowances for his particular job conditions, such as: soft or uneven ground, out of level conditions, high winds, side loads, pendulum action, jerking or sudden stopping of loads, experience of personnel, two machine (tandem) lifts, traveling with loads, electric wires, obstacles, hazardous conditions, changes in capacity while slewing when using MAXbase, etc. Side pull on boom or jib is extremely dangerous.
11. Regardless of counterweight and outrigger spread configuration, no deduct is required from the main boom charts for a stowed boom extension.
12. Never handle personnel with this machine unless the requirements of the applicable national, state, and local regulations and safety codes are met.
13. Keep load handling devices a minimum of 42 inches (107 cm) below boom head at all times.
14. The boom angle before loading should be greater than the loaded boom angle to account for deflection.
15. Capacities for the 39.2 ft. (11.9 m) boom length shall be lifted with boom fully retracted. If boom is not fully retracted, capacities shall not exceed those shown for the 48.9 ft. (14.9 m) boom length.
16. When operating the machine in the "On Outriggers 50% Extended 15.7 ft (4.9 m) spread" mode, the outrigger beams shall be equally extended between 50% - 53%. The operator shall do a visual check to ensure that all four outrigger beams are extended to the mid-extend stripe (decal) shown on the side of the beam. Operations shall not begin until correct location of beams is confirmed. When operating in the "On Outriggers 0% Extended 9.2 ft (2.8 m) spread" mode, the outrigger beams must be fully retracted. Failure to follow these precautions could result in structural damage or loss of stability of the machine.
17. Do not lift loads when boom is fully lowered. The Rated Capacity Limiter (RCL) senses pressure and will not provide warnings or lockout. The crane can become overloaded if lift cylinder(s) is fully retracted.
18. WARNING: Lifting with the 33 ft (10 m) extension base, with the 23 ft (7 m) extension fly either erected or folded along side of extension base, is strictly prohibited.
19. The maximum outrigger pad load is 93800 lb (42547 kg). Ground bearing pressure for specific configurations can be estimated using the online tool found at www.manitowoc.com.

NOTES FOR LIFTING CAPACITIES (continued)

DEFINITIONS:

1. **Operating Radius:** Horizontal distance from a projection of the axis of rotation to the supporting surface before loading to the center of the vertical hoist line or tackle with load applied.
2. **Loaded Boom Angle:** (Shown in Parenthesis on Main Boom Capacity Chart): is the angle between the boom base section and the horizontal, after lifting the rated load at the rated radius with the rated boom length.
3. **Working Area:** Areas measured in a circular arc about the center line of rotation as shown on the working area diagram.
4. **Freely Suspended Load:** Load hanging free with no direct external force applied except by the lift cable.
5. **Side Load:** Horizontal force applied to the lifted load either on the ground or in the air.

CAPACITY REDUCTION FACTORS FOR WIND SPEED, $V(z)$, GREATER THAN 30 mph

(Only for lifting with Main Boom on Fully Extended Outriggers, with or without Stowed Extension)

For wind speed (3-second gust speed at boom tip height), $V(z) > 30 \text{ mph} \leq 45 \text{ mph}$, the *Reduced Capacity* shall be calculated by multiplying the *Published Rated Capacity* by the following factors:

$V(z) > 30 \text{ mph}$ $\leq 45 \text{ mph}$	Main Boom Length in Feet										
	39.2	48.9	53.7	58.5	63.3	68.2	68.2	73	77.8	77.8	82.7
Tele Sec I	0%	0%	50%	0%	50%	100%	0%	50%	100%	0%	50%
Tele Sec II	0%	17%	0%	33%	17%	0%	50%	33%	17%	67%	50%
Tele Sec III	0%	17%	0%	33%	17%	0%	50%	33%	17%	67%	50%
Mode	A, X, B	A	X, B	A	X	B	A	X	B	A	X
Factor	0.90	0.80	0.80	0.80	0.80	0.80	0.80	0.70	0.70	0.70	0.70

$V(z) > 30 \text{ mph}$ $\leq 45 \text{ mph}$	Main Boom Length in Feet									
	87.5	87.5	92.3	97.2	97.2	102	106.8	111.7	116.5	126.2
Tele Sec I	100%	0%	50%	100%	0%	50%	100%	50%	100%	100%
Tele Sec II	33%	83%	67%	50%	100%	83%	67%	100%	83%	100%
Tele Sec III	33%	83%	67%	50%	100%	83%	67%	100%	83%	100%
Mode	B	A	X	B	A	X	B	A, X	B	A, X, B
Factor	0.70	0.70	0.70	0.60	0.60	0.60	0.60	0.60	0.60	0.60

Wind Resistance Area of Load, **$A_{wr}(\text{load})$** , shall not exceed Maximum Allowable Wind Resistance Area, **$A_{wr}(\text{allow})$** .

Maximum Allowable Wind Resistance Area in ft^2 , **$A_{wr}(\text{allow}) = 0.0059 \times \text{Calculated Reduced Capacity in lb.}$**

Wind Resistance Area of load, **$A_{wr}(\text{load}) = \text{Projected Wind Area } (A_p) \times \text{Wind Drag Coefficient } (C_d) \text{ for the load.}$**

For Wind Resistance Area of load, **$A_{wr}(\text{load}) > \text{Maximum Allowable Wind Resistance Area, } A_{wr}(\text{allow})$** refer to guidance in the Crane Operator's Manual.

LINE PULLS AND REEVING INFORMATION			
Hoists	Cable Specs.	Permissible Line Pulls	Nominal Cable Length
Main	3/4 in. (19 mm) 35x7 Class EEIPS+ Rotation Resistant (non-rotating) Min. Breaking Strength 85,800 lb (38918 kg)	17,160 lb (7784 kg)*	581 ft (177 m)
Auxiliary	3/4 in. (19 mm) 35x7 Class EEIPS+ Rotation Resistant (non-rotating) Min. Breaking Strength 85,800 lb (38918 kg)	17,160 lb (7784 kg)*	452 ft (138 m)
Main and Auxiliary	3/4 in. (19 mm) 35x7 Class EEIPS+ Rotation Resistant (non-rotating) Min. Breaking Strength 85,800 lb (38918 kg)	17,160 lb (7784 kg)*	702 ft (214 m)

The approximate weight of 3/4 in. (19 mm) wire rope is 1.3 lb/ft (1.93 kg/m).

*With certain boom and hoist tackle combinations, the allowable line pull may be limited by hoist performance. Refer to Hoist Performance table for lift planning to ensure adequate hoist performance on drum rope layer required.

WEIGHT REDUCTIONS FOR LOAD HANDLING DEVICES

33 FT - 56 FT (10 m - 17 m) FOLDING BOOM EXTENSION		
	Without Overhaul Ball or Block	With 648 lb (294 kg) Overhaul Ball
*33 ft (10 m) - Erected	3,900 lb (1769 kg)	6,300 lb (2858 kg)
*56 ft (17 m) - Erected	7,600 lb (3447 kg)	11,700 lb (5307 kg)

* Reduction of main boom capacities

When lifting over swingaway and/or jib combinations, deduct total weight of all load handling devices reeved over main boom nose directly from swingaway or jib capacity.

NOTE: When operating at temperatures below -40°F, capacities shall be derated 3.6% of rated load for each degree Fahrenheit below -40°F without shock load.

AUXILIARY BOOM NOSE	115 lb (52 kg)
HOOKBLOCKS and OVERHAUL WEIGHTS:	
66 USt (60 t), 5 sheave	1281 lb (581 kg) +
50 USt (45 t), 3 Sheave	1235 lb (560 kg) +
29 USt (26 t), 1 sheave	983 lb (446 kg) +
12 USt (11 t), overhaul weight	648 lb (294 kg) +
12 USt (11 t), overhaul ball	575 lb (261 kg) +

NOTE: All load handling devices and boom attachments are considered part of the load and suitable allowances MUST BE MADE for their combined weights. Weights are for Grove furnished equipment.

+Refer to rating plate for actual weight.

HOIST PERFORMANCE				
Wire Rope Layer	Hoist Line Pulls		Drum Rope Capacity	
	Two Speed Hoist			
	Low	High		
	Available*	Available*	Layer	Total
1	21,300 lb (9662 kg)	10,100 lb (4581 kg)	95 ft (29,0 m)	95 ft (29,0 m)
2	19,500 lb (8845 kg)	9,300 lb (4218 kg)	103 ft (31,4 m)	198 ft (60,4 m)
3	18,100 lb (8210 kg)	8,600 lb (3901 kg)	112 ft (34,1 m)	310 ft (94,5 m)
4	16,900 lb (7666 kg)	8,000 lb (3629 kg)	120 ft (36,6 m)	430 ft (131,1 m)
5	15,800 lb (7167 kg)	7,500 lb (3402 kg)	128 ft (39,0 m)	558 ft (170,1 m)
6	14,800 lb (6713 kg)	7,000 lb (3175 kg)	136 ft (41,5 m)	694 ft (211,5 m)

*Refer to Line Pulls and Reeving Information table for max lifting capacity of wire rope.

**RATED LIFTING CAPACITIES IN POUNDS
FOR INSTALLING COUNTERWEIGHT**

39.19 FT. - 126.15 FT. BOOM

WITH NO COUNTERWEIGHT

ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet	#0801			
	Main Boom Length in Feet			
	39.2	48.9	58.5	68.2
Tele Sec I	0%	0%	0%	0%
Tele Sec II	0%	17%	33%	50%
Tele Sec III	0%	17%	33%	50%
Mode	A	A	A	A
8	130,000 (73)	60,700 (77)	60,250 (79.5)	
10	130,000 (70)	60,700 (74.5)	60,250 (77.5)	60,150 (79.5)
12	116,000 (67)	60,700 (72)	60,250 (75.5)	60,150 (78)
15	95,450 (61.5)	60,700 (68)	60,250 (72)	60,150 (75)
20	64,850 (52.5)	60,700 (61.5)	60,250 (67)	60,150 (70.5)
25	37,900 (42)	41,100 (54)	42,500 (61.5)	40,000 (66)
30	24,900 (27)	27,650 (46.5)	28,650 (55.5)	27,800 (61)
35		19,750 (36.5)	20,600 (49)	20,700 (56)
40		14,450 (23)	15,350 (41.5)	16,100 (51)
45			11,550 (32.5)	12,850 (45)
50			8,690 (19.5)	10,350 (38)
55				8,430 (29.5)
60				6,860 (17)
Min. boom angle for indicated length (no load)				0°
Max. boom length at 0° boom angle (no load)				68.2 ft.

#RCL operating code. Refer to RCL manual for operating instructions.

NOTE: () Boom angles are in degrees.

Boom Angle	Main Boom Length in Feet			
	39.2	48.9	58.5	68.2
Tele Sec I	0%	0%	0%	0%
Tele Sec II	0%	17%	33%	50%
Tele Sec III	0%	17%	33%	50%
Mode	A	A	A	A
0°	20,200 (32.8)	12,400 (42.4)	7,690 (52.1)	6,380 (61.8)

NOTE: () Reference radii in feet.

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**RATED LIFTING CAPACITIES IN POUNDS - LOAD AND
UNLOAD FROM TRANSPORT**

39.19 FT. - 126.15 FT. BOOM

WITH NO COUNTERWEIGHT

ON RUBBER - BOOM CENTERED OVER FRONT

Radius in Feet	#9806
	Main Boom Length in Feet
	39.2
Tele Sec I	0%
Tele Sec II	0%
Tele Sec III	0%
Mode	A
12	5,400 (67)
15	5,400 (62)
20	5,400 (53.5)
25	5,400 (43)
30	5,400 (29)
Min. boom angle for indicated length (no load)	0°
Max. boom length at 0° boom angle (no load)	39.2 ft.

#RCL operating code. Refer to RCL manual for operating instructions.

NOTE: () Boom angles are in degrees.

Boom Angle	Main Boom Length in Feet
	39.2
Tele Sec I	0%
Tele Sec II	0%
Tele Sec III	0%
Mode	A
0°	5,400 (32.8)

NOTE: () Reference radii in feet.

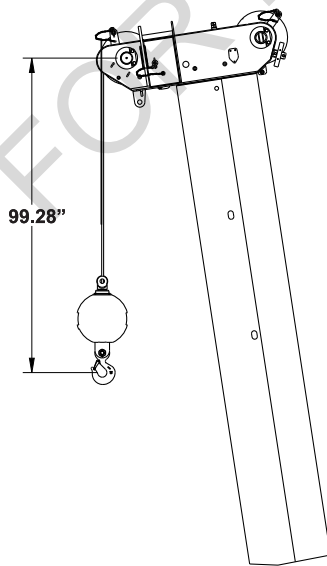
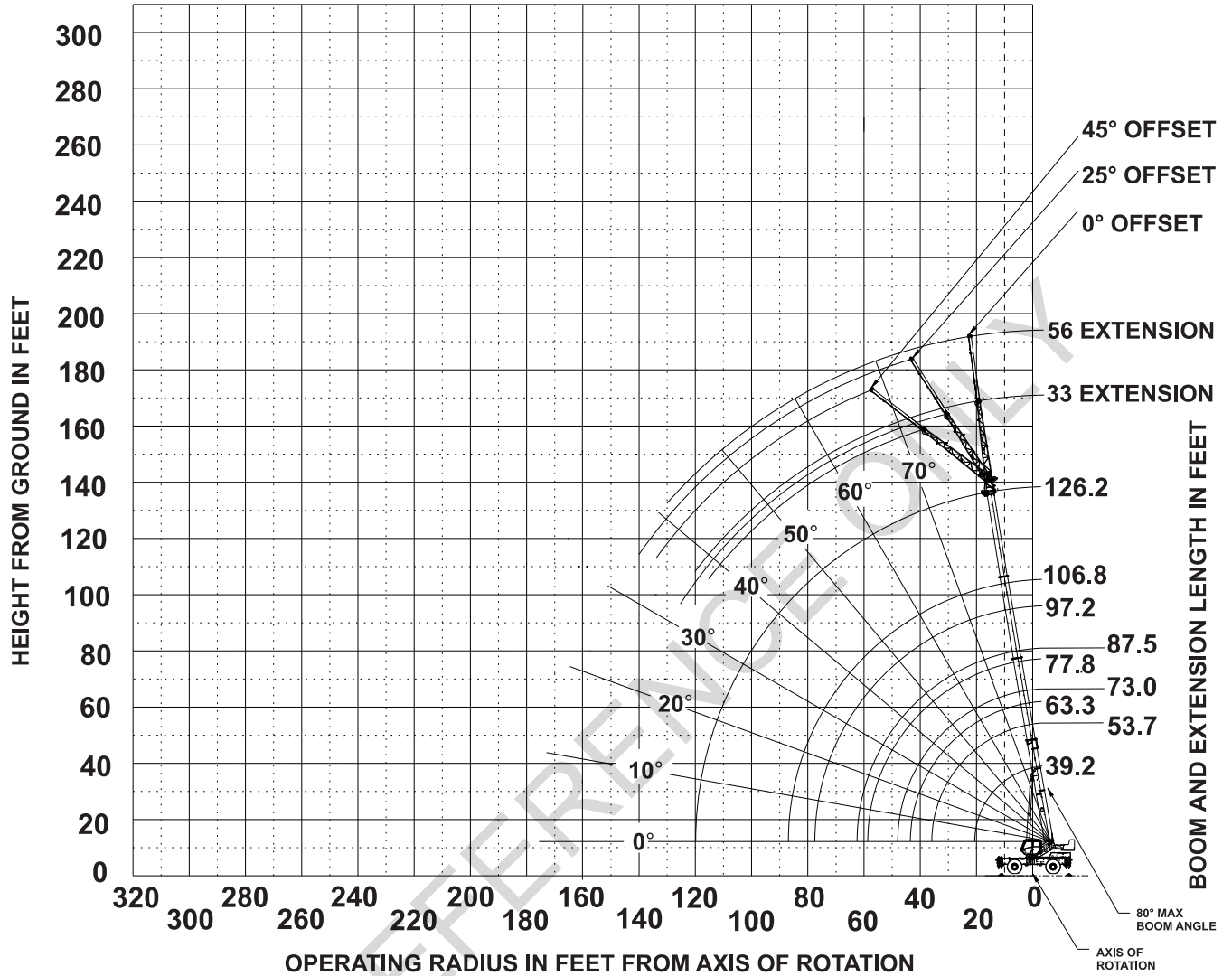
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NOTE: For loading and unloading, the boom must be centered over front of machine and mechanical swing lock engaged.

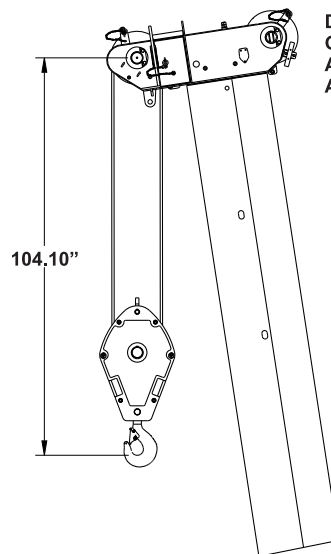
WORKING RANGE DIAGRAM WITH BI-FOLD EXTENSION

(BOOM DEFLECTION NOT SHOWN)

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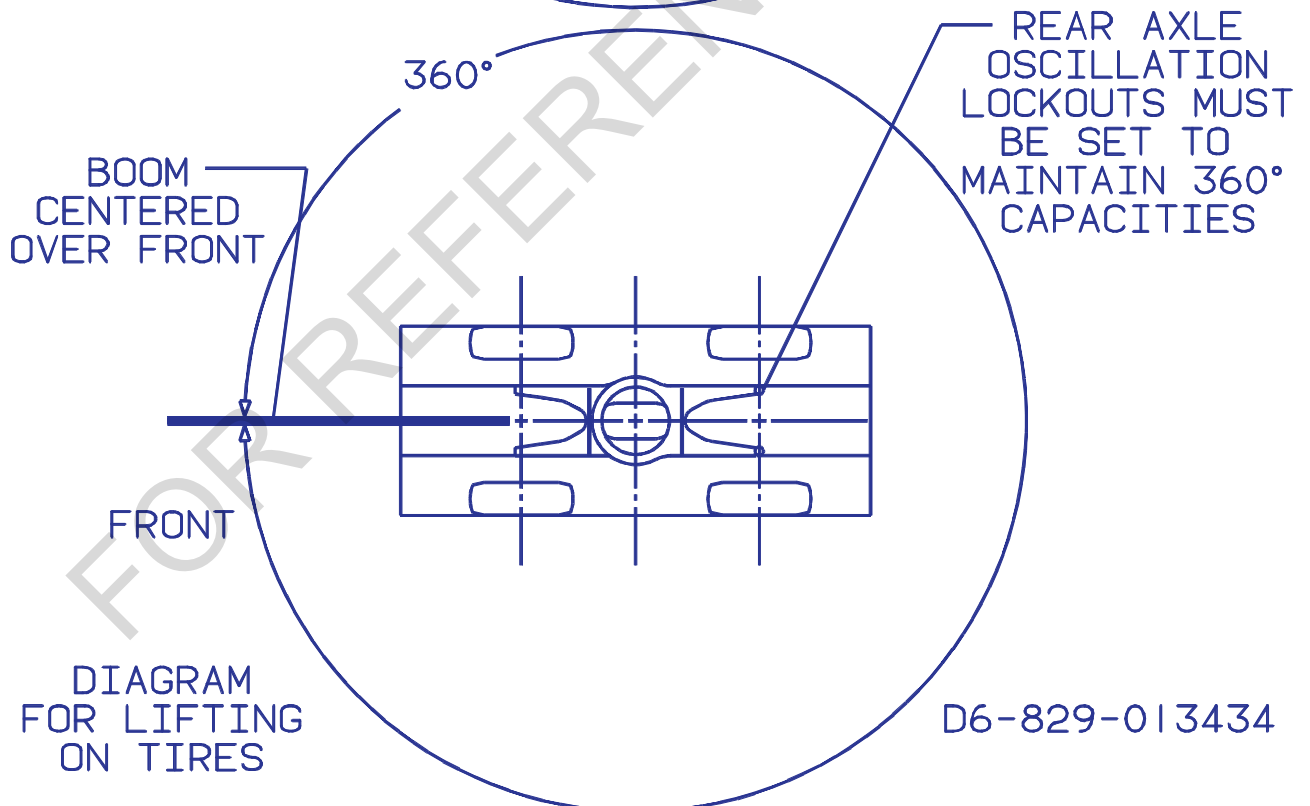
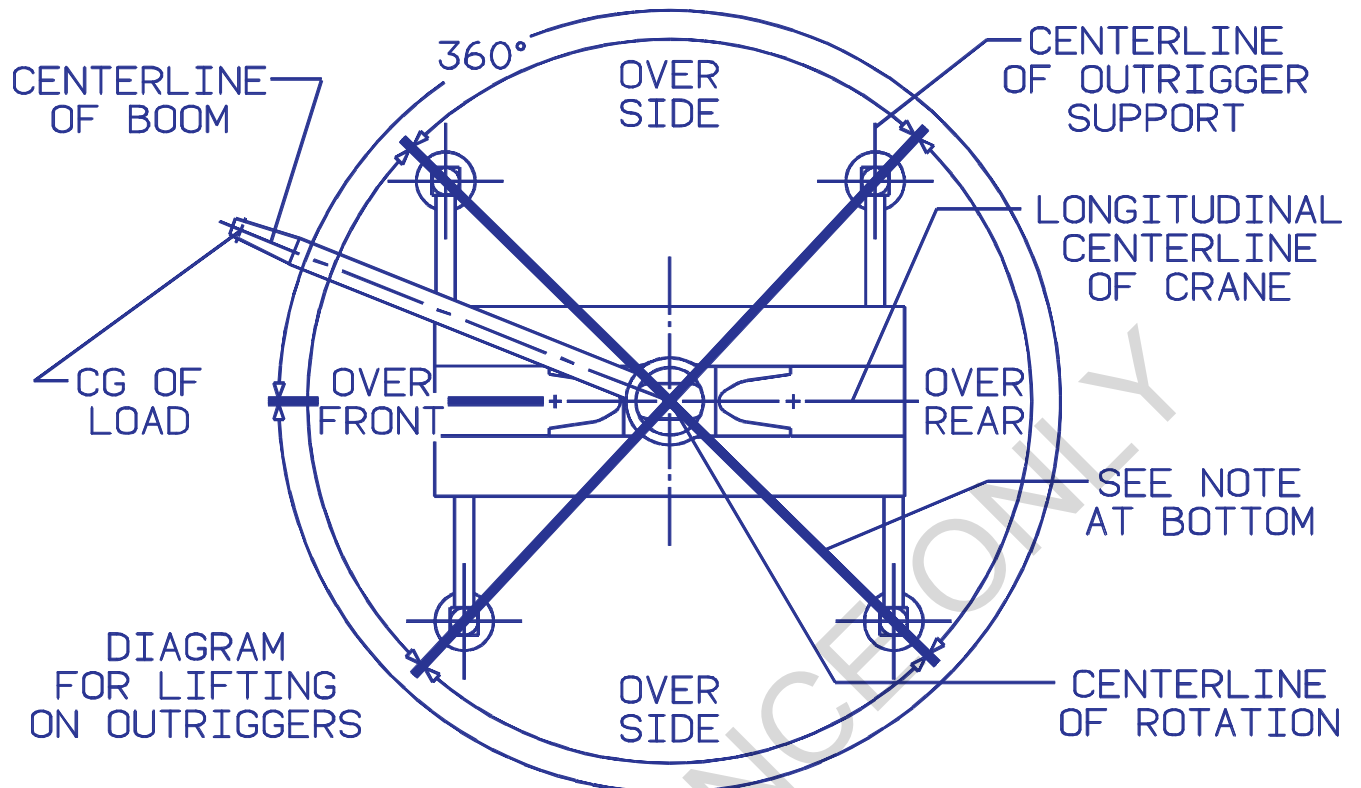


SCALE 0.040



SCALE 0.040

DIAGRAMS ARE FOR LARGEST GROVE FURNISHED HOOK BLOCK AND HEADACHE BALL WITH ANTI-TWO BLOCK ACTIVATED.



D6-829-013434

BOLD LINES DETERMINE THE LIMITING POSITION OF ANY LOAD FOR OPERATION WITHIN WORKING AREAS INDICATED

WORKING AREA DIAGRAM

TIRE INFLATION - PSI (BAR)			
MFG/ MODEL	SIZE (FRONT & REAR)	TRA CODE	LIFTING SERVICE, GENERAL TRAVEL, AND EXTENDED TRAVEL
			STATIC, CREEP, AND 2.5 mph (4.0 km/h)
TITAN/ ND LCM	23.5x25 (36 ply)	E-3/L-3	102 (7.0)
MAITECH/ MT212+	23.5x25 (36 ply)	E-3/L-3	102 (7.0)

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RATED LIFTING CAPACITIES IN POUNDS
39.19 FT. - 126.15 FT. BOOM
WITH 15,200 LB. COUNTERWEIGHT
ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet	#0001									
	Main Boom Length in Feet									
	39.2	48.9	53.7	58.5	63.3	68.2	68.2	73	77.8	77.8
Tele Sec I	0%	0%	50%	0%	50%	100%	0%	50%	100%	0%
Tele Sec II	0%	17%	0%	33%	17%	0%	50%	33%	17%	67%
Tele Sec III	0%	17%	0%	33%	17%	0%	50%	33%	17%	67%
Mode	A, X, B	A	X, B	A	X	B	A	X	B	A
8	130,000 (73)	60,700 (77)	119,000 (78.5)	60,250 (79.5)						
10	130,000 (70)	60,700 (74.5)	119,000 (76)	60,250 (77.5)	60,050 (78.5)	39,650 (79.5)	60,150 (79.5)	*60,050 (80)		
12	119,000 (67)	60,700 (72)	118,500 (74)	60,250 (75.5)	60,050 (76.5)	39,650 (77.5)	60,150 (78)	60,050 (79)	39,450 (79.5)	55,250 (79.5)
15	102,000 (61.5)	60,700 (68)	101,500 (70.5)	60,250 (72)	60,050 (74)	39,650 (75)	60,150 (75)	60,050 (76.5)	39,450 (77.5)	55,250 (77.5)
20	77,950 (52.5)	60,700 (61.5)	77,350 (64.5)	60,250 (67)	60,050 (69)	39,650 (70.5)	60,150 (70.5)	60,050 (72)	39,450 (73.5)	55,250 (73.5)
25	59,000 (42)	60,500 (54)	58,450 (58)	60,250 (61.5)	59,650 (64)	39,650 (66)	60,150 (66)	60,050 (68)	39,450 (69.5)	51,850 (69.5)
30	41,500 (27)	44,300 (46.5)	41,050 (51.5)	46,750 (55.5)	42,300 (58.5)	39,650 (61.5)	44,400 (61)	43,950 (63.5)	39,450 (65.5)	45,350 (65.5)
35		32,900 (36.5)	30,350 (43.5)	33,550 (49)	31,400 (53)	30,250 (56.5)	33,850 (56)	32,700 (59)	31,200 (61.5)	35,050 (61)
40		25,300 (23)	23,250 (34.5)	25,850 (41.5)	24,250 (47)	23,250 (51)	26,950 (51)	25,350 (54)	24,050 (57)	27,700 (57)
45			18,150 (21)	20,850 (32.5)	19,200 (39.5)	18,250 (45)	22,100 (45)	20,150 (49)	19,000 (52.5)	22,500 (52)
50				17,350 (19.5)	15,350 (31)	14,500 (38)	18,000 (38)	16,300 (43)	15,250 (47.5)	18,600 (47)
55					12,350 (18.5)	11,550 (30)	14,800 (29.5)	13,300 (36.5)	12,350 (41.5)	15,650 (41.5)
60						9,210 (17.5)	12,250 (17)	10,850 (28.5)	9,990 (35.5)	13,200 (35.5)
65								8,880 (16)	8,050 (27.5)	11,200 (27.5)
70									6,440 (15)	9,580 (15)
Min. boom angle for indicated length (no load)										
Max. boom length at 0° boom angle (no load)										

#RCL operating code. Refer to RCL manual for operating instructions.

NOTE: () Boom angles are in degrees.

*This capacity is based on maximum boom angle.

Boom Angle	Main Boom Length in Feet									
	39.2	48.9	53.7	58.5	63.3	68.2	68.2	73	77.8	77.8
Tele Sec I	0%	0%	50%	0%	50%	100%	0%	50%	100%	0%
Tele Sec II	0%	17%	0%	33%	17%	0%	50%	33%	17%	67%
Tele Sec III	0%	17%	0%	33%	17%	0%	50%	33%	17%	67%
Mode	A, X, B	A	X, B	A	X	B	A	X	B	A
0°	25,250 (32.8)	19,050 (42.4)	14,800 (47.3)	14,900 (52.1)	11,350 (56.9)	8,490 (61.8)	11,500 (61.8)	8,320 (66.6)	6,020 (71.4)	9,150 (71.4)

NOTE: () Reference radii in feet.

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RATED LIFTING CAPACITIES IN POUNDS (Continued)

39.19 FT. - 126.15 FT. BOOM

WITH 15,200 LB. COUNTERWEIGHT

ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet	#0001										
	Main Boom Length in Feet										
	82.7	87.5	87.5	92.3	97.2	97.2	102	106.8	111.7	116.5	126.2
Tele Sec I	50%	100%	0%	50%	100%	0%	50%	100%	50%	100%	100%
Tele Sec II	50%	33%	83%	67%	50%	100%	83%	67%	100%	83%	100%
Tele Sec III	50%	33%	83%	67%	50%	100%	83%	67%	100%	83%	100%
Mode	X	B	A	X	B	A	X	B	A, X	B	A, X, B
12	*60,050 (80)	*39,400 (80)	*29,550 (80)								
15	60,050 (78.5)	39,400 (79)	29,550 (79)	60,050 (80)	*39,350 (80)	14,600 (80)	*49,250 (80)	*39,300 (80)			
20	60,050 (74.5)	39,400 (75.5)	29,550 (75.5)	60,050 (76.5)	39,350 (77.5)	14,600 (77)	49,250 (78)	39,300 (78.5)	40,050 (79.5)	*36,200 (80)	*29,850 (80)
25	60,050 (71)	39,400 (72)	29,550 (72)	57,300 (73.5)	39,350 (74.5)	14,600 (74)	49,250 (75)	39,300 (76)	40,050 (76.5)	36,200 (77.5)	29,850 (78.5)
30	45,400 (67)	39,400 (68.5)	29,550 (68.5)	44,300 (70)	39,350 (71)	14,600 (71)	44,350 (72)	39,300 (73)	39,700 (74)	36,200 (75)	29,850 (76.5)
35	33,850 (63.5)	32,100 (65)	29,550 (65)	33,400 (66.5)	32,950 (68)	14,600 (67.5)	35,050 (69)	33,650 (70)	35,550 (71.5)	34,350 (72.5)	29,850 (74)
40	26,350 (59.5)	24,800 (61.5)	27,650 (61)	26,250 (63)	25,600 (64.5)	14,600 (64.5)	27,500 (66)	26,200 (67.5)	28,050 (68.5)	26,800 (69.5)	27,400 (71.5)
45	21,050 (55)	19,700 (57.5)	22,550 (57.5)	21,200 (59.5)	20,450 (61.5)	14,600 (61)	22,150 (63)	20,950 (64.5)	22,700 (65.5)	21,500 (67)	22,050 (69)
50	17,100 (50.5)	15,900 (53.5)	18,800 (53.5)	17,500 (56)	16,600 (58)	14,600 (57.5)	18,200 (59.5)	17,100 (61.5)	18,750 (63)	17,550 (64)	18,050 (66.5)
55	14,050 (46)	13,000 (49)	15,900 (49)	14,600 (52)	13,650 (54)	14,600 (54)	15,150 (56.5)	14,100 (58)	15,700 (60)	14,550 (61.5)	14,950 (64)
60	11,600 (40.5)	10,650 (44.5)	13,600 (44)	12,300 (47.5)	11,300 (50.5)	14,050 (50)	12,700 (53)	11,700 (55)	13,250 (56.5)	12,100 (58.5)	12,550 (61.5)
65	9,600 (34)	8,760 (39)	11,700 (39)	10,450 (43)	9,390 (46.5)	12,050 (46)	10,750 (49)	9,780 (51.5)	11,250 (53.5)	10,150 (55.5)	10,550 (59)
70	7,920 (26.5)	7,130 (33)	10,100 (33)	8,880 (38)	7,800 (41.5)	10,400 (41.5)	9,110 (45)	8,170 (48)	9,640 (50)	8,540 (52.5)	8,900 (56)
75	6,490 (14)	5,760 (25)	8,750 (25)	7,520 (32)	6,410 (36.5)	8,970 (37)	7,710 (40.5)	6,810 (44)	8,250 (46.5)	7,160 (49)	7,510 (53)
80		4,580 (13)	7,580 (13)	6,370 (24.5)	5,220 (31)	7,720 (31)	6,490 (35.5)	5,620 (39.5)	7,070 (43)	5,980 (45.5)	6,320 (50)
85				5,370 (12)	4,190 (23.5)	6,650 (23.5)	5,430 (30)	4,580 (35)	6,010 (38.5)	4,960 (42)	5,290 (47)
90					3,290 (11)	5,710 (11)	4,510 (22.5)	3,680 (29)	5,090 (34)	4,040 (37.5)	4,390 (43.5)
95							3,690 (10)	2,870 (22)	4,270 (28.5)	3,230 (33)	3,580 (40)
100								2,160 (9)	3,550 (21)	2,510 (27.5)	2,860 (36)
105									2,900 (7.5)	1,870 (20.5)	2,210 (31.5)
110										1,290 (6)	1,620 (26.5)
115											1,090 (19.5)
Min. boom angle for indicated length (no load)											18.5°
Max. boom length at 0° boom angle (no load)											116.5 ft.

#RCL operating code. Refer to RCL manual for operating instructions.

NOTE: () Boom angles are in degrees.

*This capacity is based on maximum boom angle.

Boom Angle	Main Boom Length in Feet										
	82.7	87.5	87.5	92.3	97.2	97.2	102	106.8	111.7	116.5	126.2
Tele Sec I	50%	100%	0%	50%	100%	0%	50%	100%	50%	100%	100%
Tele Sec II	50%	33%	83%	67%	50%	100%	83%	67%	100%	83%	100%
Tele Sec III	50%	33%	83%	67%	50%	100%	83%	67%	100%	83%	100%
Mode	X	B	A	X	B	A	X	B	A, X	B	A, X, B
0°	6,160 (76.3)	4,350 (81.1)	7,350 (81.1)	5,190 (85.9)	3,170 (90.8)	5,570 (90.8)	3,600 (95.6)	2,110 (100.4)	2,870 (105.2)	1,280 (110.1)	

NOTE: () Reference radii in feet.

80154194-2

RATED LIFTING CAPACITIES IN POUNDS
39.19 FT. - 126.15 FT. BOOM
WITH 15,200 LB. COUNTERWEIGHT
ON OUTRIGGERS 50% EXTENDED (15.7 FT. SPREAD) - 360°

Radius in Feet	#4001									
	Main Boom Length in Feet									
	39.2	48.9	53.7	58.5	63.3	68.2	68.2	73	77.8	77.8
Tele Sec I	0%	0%	50%	0%	50%	100%	0%	50%	100%	0%
Tele Sec II	0%	17%	0%	33%	17%	0%	50%	33%	17%	67%
Tele Sec III	0%	17%	0%	33%	17%	0%	50%	33%	17%	67%
Mode	A, X, B	A	X, B	A	X	B	A	X	B	A
8	130,000 (73)	60,700 (77)	119,000 (78.5)	60,250 (79.5)						
10	124,500 (70)	60,700 (74.5)	119,000 (76)	60,250 (77.5)	60,050 (78.5)	39,650 (79.5)	60,150 (79.5)	*60,050 (80)		
12	110,000 (67)	60,700 (72)	107,000 (74)	60,250 (75.5)	60,050 (76.5)	39,650 (77.5)	60,150 (78)	60,050 (79)	39,450 (79.5)	55,250 (79.5)
15	82,800 (61.5)	60,700 (68)	73,350 (70.5)	60,250 (72)	60,050 (74)	39,650 (75)	60,150 (75)	60,050 (76.5)	39,450 (77.5)	55,250 (77.5)
20	49,250 (52.5)	50,300 (61.5)	46,100 (64.5)	49,050 (67)	45,700 (69)	39,650 (70.5)	47,850 (70.5)	44,850 (72)	39,450 (73.5)	46,550 (73.5)
25	31,550 (42)	34,350 (54)	31,250 (58)	35,150 (61.5)	32,400 (64)	29,600 (66)	33,800 (66)	32,200 (68)	29,700 (69.5)	34,000 (69.5)
30	21,800 (27)	24,150 (46.5)	21,700 (51.5)	25,100 (55.5)	23,200 (58.5)	21,600 (61.5)	24,750 (61)	24,250 (63.5)	22,100 (65.5)	26,150 (65.5)
35		17,700 (36.5)	15,600 (43.5)	18,600 (49)	16,850 (53)	15,800 (56.5)	19,000 (56)	17,950 (59)	16,650 (61.5)	20,050 (61)
40		13,300 (23)	11,400 (34.5)	14,150 (41.5)	12,400 (47)	11,550 (51)	14,950 (51)	13,600 (54)	12,400 (57)	15,700 (57)
45			8,330 (21)	10,850 (32.5)	9,170 (39.5)	8,460 (45)	12,000 (45)	10,300 (49)	9,290 (52.5)	12,500 (52)
50				8,360 (19.5)	6,690 (31)	6,070 (38)	9,730 (38)	7,840 (43)	6,860 (47.5)	10,000 (47)
55					4,730 (18.5)	4,180 (30)	7,820 (29.5)	5,870 (36.5)	4,950 (41.5)	7,990 (41.5)
60						2,640 (17.5)	6,240 (17)	4,280 (28.5)	3,400 (35.5)	6,360 (35.5)
65								2,960 (16)	2,120 (27.5)	5,010 (27.5)
70									1,050 (15)	3,880 (15)
Min. boom angle for indicated length (no load)									14°	0°
Max. boom length at 0° boom angle (no load)									73 ft.	

#RCL operating code. Refer to RCL manual for operating instructions.

NOTE: () Boom angles are in degrees.

*This capacity is based on maximum boom angle.

Boom Angle	Main Boom Length in Feet									
	39.2	48.9	53.7	58.5	63.3	68.2	68.2	73	77.8	77.8
Tele Sec I	0%	0%	50%	0%	50%	100%	0%	50%	100%	0%
Tele Sec II	0%	17%	0%	33%	17%	0%	50%	33%	17%	67%
Tele Sec III	0%	17%	0%	33%	17%	0%	50%	33%	17%	67%
Mode	A, X, B	A	X, B	A	X	B	A	X	B	A
0°	18,000 (32.8)	11,550 (42.4)	7,170 (47.3)	7,460 (52.1)	4,060 (56.9)	2,130 (61.8)	5,750 (61.8)	2,580 (66.6)		3,590 (71.4)

NOTE: () Reference radii in feet.

80154198-1

RATED LIFTING CAPACITIES IN POUNDS (Continued)
39.19 FT. - 126.15 FT. BOOM
WITH 15,200 LB. COUNTERWEIGHT
ON OUTRIGGERS 50% EXTENDED (15.7 FT. SPREAD) - 360°

Radius in Feet	#4001										
	Main Boom Length in Feet										
	82.7	87.5	87.5	92.3	97.2	97.2	102	106.8	111.7	116.5	126.2
Tele Sec I	50%	100%	0%	50%	100%	0%	50%	100%	50%	100%	100%
Tele Sec II	50%	33%	83%	67%	50%	100%	83%	67%	100%	83%	100%
Tele Sec III	50%	33%	83%	67%	50%	100%	83%	67%	100%	83%	100%
Mode	X	B	A	X	B	A	X	B	A, X	B	A, X, B
12	*60,050 (80)	*39,400 (80)	*29,550 (80)								
15	60,050 (78.5)	39,400 (79)	29,550 (79)	60,050 (80)	*39,350 (80)	14,600 (80)	*49,250 (80)	*39,300 (80)			
20	43,850 (74.5)	39,400 (75.5)	29,550 (75.5)	42,850 (76.5)	39,350 (77.5)	14,600 (77)	41,800 (78)	39,300 (78.5)	40,050 (79.5)	*36,200 (80)	*29,850 (80)
25	31,800 (71)	29,500 (72)	29,550 (72)	31,350 (73.5)	29,250 (74.5)	14,600 (74)	30,850 (75)	28,950 (76)	30,150 (76.5)	28,400 (77.5)	28,000 (78.5)
30	24,200 (67)	22,150 (68.5)	25,800 (68.5)	24,050 (70)	22,200 (71)	14,600 (71)	23,800 (72)	22,100 (73)	23,350 (74)	21,850 (75)	21,650 (76.5)
35	18,800 (63.5)	17,100 (65)	19,850 (65)	18,600 (66.5)	17,250 (68)	14,600 (67.5)	18,900 (69)	17,350 (70)	18,600 (71.5)	17,200 (72.5)	17,150 (74)
40	14,500 (59.5)	13,150 (61.5)	15,700 (61)	14,450 (63)	13,650 (64.5)	14,600 (64.5)	15,250 (66)	13,800 (67.5)	15,100 (68.5)	13,750 (69.5)	13,800 (71.5)
45	11,200 (55)	10,000 (57.5)	12,650 (57.5)	11,400 (59.5)	10,650 (61.5)	13,300 (61)	12,250 (63)	11,100 (64.5)	12,350 (65.5)	11,100 (67)	11,200 (69)
50	8,660 (50.5)	7,600 (53.5)	10,300 (53.5)	9,120 (56)	8,290 (58)	10,900 (57.5)	9,770 (59.5)	8,730 (61.5)	10,000 (63)	9,010 (64)	9,140 (66.5)
55	6,630 (46)	5,660 (49)	8,420 (49)	7,230 (52)	6,350 (54)	8,960 (54)	7,800 (56.5)	6,810 (58)	8,110 (60)	7,140 (61.5)	7,420 (64)
60	4,990 (40.5)	4,090 (44.5)	6,890 (44)	5,710 (47.5)	4,760 (50.5)	7,360 (50)	6,150 (53)	5,220 (55)	6,580 (56.5)	5,630 (58.5)	5,900 (61.5)
65	3,640 (34)	2,800 (39)	5,630 (39)	4,450 (43)	3,450 (46.5)	6,030 (46)	4,800 (49)	3,890 (51.5)	5,280 (53.5)	4,300 (55.5)	4,650 (59)
70	2,500 (26.5)	1,710 (33)	4,570 (33)	3,400 (38)	2,350 (41.5)	4,870 (41.5)	3,660 (45)	2,770 (48)	4,180 (50)	3,170 (52.5)	3,560 (56)
75	1,540 (14)		3,670 (25)	2,500 (32)	1,410 (36.5)	3,890 (37)	2,690 (40.5)	1,820 (44)	3,230 (46.5)	2,210 (49)	2,590 (53)
80			2,890 (13)	1,720 (24.5)		3,040 (31)	1,860 (35.5)	1,000 (39.5)	2,400 (43)	1,380 (45.5)	1,740 (50)
85				1,050 (12)		2,300 (23.5)	1,130 (30)		1,670 (38.5)		1,010 (47)
90						1,650 (11)			1,030 (34)		
Min. boom angle for indicated length (no load)	0°	32°	0°	11°	35.5°	0°	29°	38.5°	33°	44.5°	46°
Max. boom length at 0° boom angle (no load)	73 ft.										

#RCL operating code. Refer to RCL manual for operating instructions.

NOTE: () Boom angles are in degrees.

*This capacity is based on maximum boom angle.

Boom Angle	Main Boom Length in Feet										
	82.7	87.5	87.5	92.3	97.2	97.2	102	106.8	111.7	116.5	126.2
Tele Sec I	50%	100%	0%	50%	100%	0%	50%	100%	50%	100%	100%
Tele Sec II	50%	33%	83%	67%	50%	100%	83%	67%	100%	83%	100%
Tele Sec III	50%	33%	83%	67%	50%	100%	83%	67%	100%	83%	100%
Mode	X	B	A	X	B	A	X	B	A, X	B	A, X, B
0°	1,310 (76.3)		2,730 (81.1)			1,560 (90.8)					

NOTE: () Reference radii in feet.

80154198-2

RATED LIFTING CAPACITIES IN POUNDS

39.19 FT. - 126.15 FT. BOOM

WITH 15,200 LB. COUNTERWEIGHT

ON OUTRIGGERS 0% EXTENDED (9.2 FT. SPREAD) - 360°

Radius in Feet	#8001									
	Main Boom Length in Feet									
	39.2	48.9	53.7	58.5	63.3	68.2	68.2	73	77.8	77.8
Tele Sec I	0%	0%	50%	0%	50%	100%	0%	50%	100%	0%
Tele Sec II	0%	17%	0%	33%	17%	0%	50%	33%	17%	67%
Tele Sec III	0%	17%	0%	33%	17%	0%	50%	33%	17%	67%
Mode	A, X, B	A	X, B	A	X	B	A	X	B	A
10	70,100 (70)	60,700 (74.5)	61,100 (76)	60,250 (77.5)	58,750 (78.5)	39,650 (79.5)	60,150 (79.5)	*56,150 (80)		
12	54,100 (67)	52,300 (72)	47,700 (74)	50,250 (75.5)	46,600 (76.5)	39,650 (77.5)	48,300 (78)	45,050 (79)	39,450 (79.5)	46,350 (79.5)
15	38,900 (61.5)	38,650 (68)	34,900 (70.5)	37,650 (72)	34,650 (74)	31,600 (75)	36,650 (76.5)	33,950 (77.5)	31,250 (77.5)	35,500 (77.5)
20	23,400 (52.5)	25,400 (61.5)	22,500 (64.5)	25,400 (67)	23,050 (69)	20,500 (70.5)	24,700 (70.5)	22,950 (72)	20,700 (73.5)	24,650 (73.5)
25	14,900 (42)	17,050 (54)	14,750 (58)	17,950 (61.5)	16,000 (64)	13,850 (66)	17,200 (66)	16,350 (68)	14,350 (69.5)	18,100 (69.5)
30	9,700 (27)	11,650 (46.5)	9,620 (51.5)	12,450 (55.5)	10,850 (58.5)	9,360 (61.5)	12,450 (61)	11,700 (63.5)	10,050 (65.5)	13,650 (65.5)
35		8,030 (36.5)	6,170 (43.5)	8,810 (49)	7,230 (53)	6,150 (56.5)	9,250 (56)	8,100 (59)	6,940 (61.5)	10,250 (61)
40		5,410 (23)	3,680 (34.5)	6,160 (41.5)	4,630 (47)	3,750 (51)	6,940 (51)	5,510 (54)	4,580 (57)	7,650 (57)
45			1,810 (21)	4,170 (32.5)	2,670 (39.5)	1,890 (45)	5,200 (45)	3,560 (49)	2,730 (52.5)	5,660 (52)
50				2,620 (19.5)	1,140 (31)		3,840 (38)	2,040 (43)	1,230 (47.5)	4,090 (47)
55							2,640 (29.5)			2,820 (41.5)
60							1,620 (17)			1,780 (35.5)
Min. boom angle for indicated length (no load)					30°	44°	0°	42°	46.5°	34.5°
Max. boom length at 0° boom angle (no load)					58.5 ft.					

#RCL operating code. Refer to RCL manual for operating instructions.

NOTE: () Boom angles are in degrees.

*This capacity is based on maximum boom angle.

Boom Angle	Main Boom Length in Feet									
	39.2	48.9	53.7	58.5	63.3	68.2	68.2	73	77.8	77.8
Tele Sec I	0%	0%	50%	0%	50%	100%	0%	50%	100%	0%
Tele Sec II	0%	17%	0%	33%	17%	0%	50%	33%	17%	67%
Tele Sec III	0%	17%	0%	33%	17%	0%	50%	33%	17%	67%
Mode	A, X, B	A	X, B	A	X	B	A	X	B	A
0°	7,560 (32.8)	4,350 (42.4)	1,080 (47.3)	2,040 (52.1)			1,300 (61.8)			

NOTE: () Reference radii in feet.

80154199-1

RATED LIFTING CAPACITIES IN POUNDS (Continued)
39.19 FT. - 126.15 FT. BOOM
WITH 15,200 LB. COUNTERWEIGHT
ON OUTRIGGERS 0° EXTENDED (9.2 FT. SPREAD) - 360°

Radius in Feet	#8001										
	Main Boom Length in Feet										
	82.7	87.5	87.5	92.3	97.2	97.2	102	106.8	111.7	116.5	126.2
Tele Sec I	50%	100%	0%	50%	100%	0%	50%	100%	50%	100%	100%
Tele Sec II	50%	33%	83%	67%	50%	100%	83%	67%	100%	83%	100%
Tele Sec III	50%	33%	83%	67%	50%	100%	83%	67%	100%	83%	100%
Mode	X	B	A	X	B	A	X	B	A, X	B	A, X, B
12	*43,450 (80)	*39,400 (80)	*29,550 (80)								
15	33,100 (78.5)	30,600 (79)	29,550 (79)	32,250 (80)	*30,000 (80)	14,600 (80)	*31,400 (80)	*29,350 (80)			
20	22,650 (74.5)	20,600 (75.5)	24,200 (75.5)	22,350 (76.5)	20,500 (77.5)	14,600 (77)	22,000 (78)	20,300 (78.5)	21,450 (79.5)	*19,900 (80)	*19,600 (80)
25	16,350 (71)	14,500 (72)	17,900 (72)	16,300 (73.5)	14,650 (74.5)	14,600 (74)	16,150 (75)	14,650 (76)	15,850 (76.5)	14,450 (77.5)	14,350 (78.5)
30	12,100 (67)	10,400 (68.5)	13,600 (68.5)	12,200 (70)	10,650 (71)	13,600 (71)	12,200 (72)	10,800 (73)	12,000 (74)	10,750 (75)	10,750 (76.5)
35	8,960 (63.5)	7,390 (65)	10,200 (65)	9,220 (66.5)	7,790 (68)	10,650 (67.5)	9,320 (69)	8,000 (70)	9,230 (71.5)	8,010 (72.5)	8,090 (74)
40	6,330 (59.5)	5,080 (61.5)	7,730 (61)	6,790 (63)	5,520 (64.5)	8,350 (64.5)	7,090 (66)	5,850 (67.5)	7,090 (68.5)	5,930 (69.5)	6,050 (71.5)
45	4,340 (55)	3,280 (57.5)	5,850 (57.5)	4,800 (59.5)	3,750 (61.5)	6,540 (61)	5,310 (63)	4,110 (64.5)	5,360 (65.5)	4,260 (67)	4,440 (69)
50	2,790 (50.5)	1,830 (53.5)	4,380 (53.5)	3,250 (56)	2,330 (58)	5,010 (57.5)	3,760 (59.5)	2,700 (61.5)	3,960 (63)	2,880 (64)	3,100 (66.5)
55	1,550 (46)		3,200 (49)	2,010 (52)	1,160 (54)	3,750 (54)	2,510 (56.5)	1,550 (58)	2,800 (60)	1,740 (61.5)	1,980 (64)
60			2,230 (44)			2,720 (50)	1,480 (53)		1,830 (56.5)		1,030 (61.5)
65			1,430 (39)			1,810 (46)			1,000 (53.5)		
70						1,020 (41.5)					
Min. boom angle for indicated length (no load)	45°	52.5°	38°	51°	53°	40.5°	52°	57°	52.5°	60.5°	60.5°
Max. boom length at 0° boom angle (no load)	58.5 ft.										

#RCL operating code. Refer to RCL manual for operating instructions.

NOTE: () Boom angles are in degrees.

*This capacity is based on maximum boom angle.

Boom Angle	Main Boom Length in Feet										
	82.7	87.5	87.5	92.3	97.2	97.2	102	106.8	111.7	116.5	126.2
Tele Sec I	50%	100%	0%	50%	100%	0%	50%	100%	50%	100%	100%
Tele Sec II	50%	33%	83%	67%	50%	100%	83%	67%	100%	83%	100%
Tele Sec III	50%	33%	83%	67%	50%	100%	83%	67%	100%	83%	100%
Mode	X	B	A	X	B	A	X	B	A, X	B	A, X, B
0°											

NOTE: () Reference radii in feet.

80154199-2

RATED LIFTING CAPACITIES IN POUNDS
33 FT. - 56 FT. FOLDING OFFSETTABLE BOOM EXTENSION
WITH 15,200 LB. COUNTERWEIGHT
ON OUTRIGGERS FULLY EXTENDED - 360°
112 FT. MAIN BOOM [50-100-100] Mode X

Radius in Feet	33 ft. LENGTH			56 ft. LENGTH		
	0° OFFSET	25° OFFSET	45° OFFSET	0° OFFSET	25° OFFSET	45° OFFSET
	#0021	#0022	#0023	#0041	#0042	#0043
25	16,500 (80)					
30	16,500 (78.5)			9,500 (80)		
35	16,500 (76.5)	10,250 (80)		9,500 (79.5)		
40	16,150 (74.5)	9,940 (78)	*6,480 (80)	9,070 (78)		
45	15,250 (72.5)	9,620 (76)	6,300 (78)	8,580 (76)		
50	14,450 (70)	9,330 (73.5)	6,130 (76)	8,130 (74)	5,040 (80)	
55	13,700 (68)	9,050 (71.5)	5,970 (74)	7,720 (72.5)	4,870 (78.5)	
60	13,000 (66)	8,800 (69.5)	5,830 (72)	7,330 (70.5)	4,710 (76.5)	3,040 (80)
65	12,150 (63.5)	8,570 (67.5)	5,700 (69.5)	6,980 (68.5)	4,570 (74.5)	2,950 (78.5)
70	10,500 (61)	8,360 (65)	5,590 (67.5)	6,650 (66.5)	4,430 (72.5)	2,870 (76.5)
75	9,090 (59)	8,150 (62.5)	5,480 (65)	6,340 (64.5)	4,300 (70.5)	2,790 (74.5)
80	7,890 (56.5)	7,960 (60.5)	5,390 (62.5)	6,060 (62.5)	4,180 (68.5)	2,720 (72.5)
85	6,850 (53.5)	7,470 (58)	5,300 (60)	5,790 (60.5)	4,070 (66.5)	2,650 (70.5)
90	5,940 (51)	6,470 (55.5)	5,230 (57)	5,550 (58.5)	3,960 (64.5)	2,590 (68.5)
95	5,140 (48)	5,600 (52.5)	5,180 (54)	5,320 (56.5)	3,860 (62.5)	2,540 (66)
100	4,430 (45)	4,810 (49.5)	5,130 (51)	5,110 (54)	3,760 (60.5)	2,490 (64)
105	3,800 (42)	4,120 (46.5)	4,410 (47.5)	4,550 (52)	3,670 (58)	2,450 (61.5)
110	3,230 (39)	3,490 (43)		3,930 (49.5)	3,590 (56)	2,410 (59)
115	2,710 (35.5)	2,930 (39.5)		3,370 (47)	3,520 (53)	2,380 (56)
120	2,240 (31.5)	2,410 (35)		2,860 (44)	3,450 (50.5)	2,350 (53)
125	1,820 (27)	1,940 (30.5)		2,400 (41.5)	3,010 (47.5)	2,340 (50)
130	1,430 (21.5)			1,970 (38.5)	2,520 (44.5)	
135	1,070 (14)			1,580 (35.5)	2,060 (41.5)	
140				1,220 (32)	1,650 (38)	
145					1,260 (33.5)	
Min. boom angle for indicated length (no load)	13°	29.5°	46.5°	31°	32.5°	49°
Max. boom length at 0° boom angle (no load)	102 ft.			82.7 ft.		

#RCL operating code. Refer to RCL manual for operating instructions. 80154200

NOTE: () Boom angles are in degrees.

*This capacity is based on maximum boom angle.

- 33 ft. and 56 ft. folding boom extension lengths may be used for single line lifting service only.
- For main boom lengths less than 112 ft. with the boom extension erected, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is set up. For boom angles not shown, use rating of the next lower boom angle.
- WARNING:** Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- Capacities listed are with outriggers properly extended and vertical jacks set only.
- When lifting over the main boom nose with 33 ft. or 56 ft. extension erected, the outriggers must be fully extended.

RATED LIFTING CAPACITIES IN POUNDS
33 FT. - 56 FT. FOLDING OFFSETTABLE BOOM EXTENSION
WITH 15,200 LB. COUNTERWEIGHT
ON OUTRIGGERS FULLY EXTENDED - 360°
126 FT. MAIN BOOM [100-100-100] Mode X (Cont.)

Radius in Feet	33 ft. LENGTH			56 ft. LENGTH		
	0° OFFSET	25° OFFSET	45° OFFSET	0° OFFSET	25° OFFSET	45° OFFSET
	#0021	#0022	#0023	#0041	#0042	#0043
30	14,500 (80)					
35	14,500 (78.5)	*10,200 (80)		8,950 (80)		
40	14,500 (76.5)	9,900 (79.5)		8,950 (79)		
45	14,500 (75)	9,620 (77.5)	6,300 (79.5)	8,610 (77.5)		
50	14,500 (73)	9,350 (75.5)	6,160 (77.5)	8,210 (76)		
55	13,950 (71)	9,110 (74)	6,030 (75.5)	7,830 (74)	4,890 (80)	
60	13,300 (69)	8,880 (72)	5,910 (74)	7,480 (72.5)	4,740 (78.5)	
65	11,300 (67)	8,670 (70)	5,790 (72)	7,150 (71)	4,600 (76.5)	2,970 (80)
70	9,680 (64.5)	8,470 (68)	5,680 (70)	6,840 (69)	4,470 (75)	2,900 (78)
75	8,280 (62.5)	8,290 (66)	5,570 (68)	6,550 (67.5)	4,350 (73)	2,830 (76.5)
80	7,100 (60)	8,120 (64)	5,480 (66)	6,280 (65.5)	4,240 (71)	2,770 (74.5)
85	6,070 (58)	7,100 (62)	5,400 (63.5)	6,030 (63.5)	4,140 (69.5)	2,700 (72.5)
90	5,170 (55.5)	6,100 (59.5)	5,320 (61.5)	5,790 (61.5)	4,040 (67.5)	2,640 (70.5)
95	4,380 (53.5)	5,210 (57.5)	5,250 (59)	5,250 (60)	3,940 (65.5)	2,590 (68.5)
100	3,680 (51)	4,430 (55)	4,700 (56.5)	4,490 (58)	3,850 (63.5)	2,540 (66.5)
105	3,050 (48.5)	3,730 (52)	3,930 (53.5)	3,810 (56)	3,770 (61.5)	2,500 (64.5)
110	2,490 (45.5)	3,080 (49.5)	3,240 (51)	3,200 (53.5)	3,700 (59.5)	2,460 (62.5)
115	1,980 (43)	2,490 (46.5)	2,610 (48)	2,650 (51.5)	3,620 (57.5)	2,420 (60)
120	1,520 (40)	1,950 (43.5)		2,150 (49)	3,070 (55.5)	2,390 (58)
125	1,100 (37)	1,460 (40.5)		1,690 (47)	2,510 (53)	2,360 (55.5)
130		1,020 (37)		1,270 (44.5)	2,000 (50.5)	2,160 (52.5)
135					1,520 (48)	1,680 (50)
140					1,080 (45)	
Min. boom angle for indicated length (no load)	36°	36°	47°	43.5°	44°	49°
Max. boom length at 0° boom angle (no load)	102 ft.			82.7 ft.		

#RCL operating code. Refer to RCL manual for operating instructions. 80160539

NOTE: () Boom angles are in degrees.

*This capacity is based on maximum boom angle.

1. 33 ft. and 56 ft. folding boom extension lengths may be used for single line lifting service only.
2. For main boom lengths less than 112 ft. with the boom extension erected, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is set up. For boom angles not shown, use rating of the next lower boom angle.
3. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
4. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
5. Capacities listed are with outriggers properly extended and vertical jacks set only.
6. When lifting over the main boom nose with 33 ft. or 56 ft. extension erected, the outriggers must be fully extended.

RATED LIFTING CAPACITIES IN POUNDS

39.19 FT. - 126.15 FT. BOOM

WITH 15,200 LB. COUNTERWEIGHT

STATIONARY ON RUBBER - 360 DEGREES

Radius in Feet	#9005			
	Main Boom Length in Feet			
	39.2	48.9	58.5	68.2
Tele Sec I	0%	0%	0%	0%
Tele Sec II	0%	17%	33%	50%
Tele Sec III	0%	17%	33%	50%
Mode	A	A	A	A
12	36,500 (67)			
15	28,700 (62)	30,000 (68.5)	26,500 (72)	23,000 (75)
20	17,750 (53.5)	19,200 (62)	20,100 (67)	20,500 (70.5)
25	11,350 (43)	12,800 (55)	13,650 (61.5)	14,300 (66)
30	7,400 (29)	8,760 (47.5)	9,610 (56)	10,200 (61)
35		5,990 (38)	6,820 (49.5)	7,400 (56)
40		3,960 (24.5)	4,770 (42.5)	5,370 (51)
45			3,210 (34)	3,840 (45)
50			1,970 (21)	2,650 (38)
55				1,700 (30)
Min. boom angle for indicated length (no load)				29°
Max. boom length at 0° boom angle (no load)				58.5 ft.

#RCL operating code. Refer to RCL manual for operating instructions.

NOTE: () Boom angles are in degrees.

Boom Angle	Main Boom Length in Feet			
	39.2	48.9	58.5	68.2
	39.2	48.9	58.5	68.2
Tele Sec I	0%	0%	0%	0%
Tele Sec II	0%	17%	33%	50%
Tele Sec III	0%	17%	33%	50%
Mode	A	A	A	A
0°	5,760 (32.8)	3,140 (42.4)	1,520 (52.1)	

NOTE: () Reference radii in feet.

80154197

1. Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J765.
2. Capacities are applicable to machines equipped with Titan ND LCM or Maitech MT212+ E-3/L-3 - 23.5x25 (36 ply) tires, at 102 psi (7.0 BAR).
3. Capacities are applicable only with machine on firm level surface.
4. On rubber lifting with boom extension not permitted.
5. For pick and carry operation, boom must be centered over front of machine, mechanical swing lock engaged and load restrained from swinging.
6. Axle lockouts must be functioning when lifting on rubber.
7. All lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. See lifting capacity chart for tire used. Damaged tires are hazardous to safe operation of crane.
8. Creep - not over 200 ft. of movement in any 30 minute period and not exceeding 1 mph.

****Danger****

Backward Stability Hazard

Do not position the boom at a radius lower than 1.0 m (3.3 ft) less than the minimum radius shown on the load chart when operating on rubber. This could result in the crane tipping over backwards causing death, serious injury, or property damage.

Always ensure the rated capacity limiter is programmed for the appropriate capacity chart based upon machine configuration.

RATED LIFTING CAPACITIES IN POUNDS
39.19 FT. - 126.15 FT. BOOM
WITH 15,200 LB. COUNTERWEIGHT
ON RUBBER PICK & CARRY CAPACITIES (CREEP SPEED)
BOOM CENTERED OVER FRONT

Radius in Feet	#9006			
	Main Boom Length in Feet			
	39.2	48.9	58.5	68.2
Tele Sec I	0%	0%	0%	0%
Tele Sec II	0%	17%	33%	50%
Tele Sec III	0%	17%	33%	50%
Mode	A	A	A	A
12	32,450 (67)	31,000 (72)	24,500 (75.5)	21,550 (77.5)
15	30,400 (62)	30,000 (68.5)	24,500 (72)	21,550 (75)
20	22,550 (53.5)	23,050 (62)	23,400 (67)	21,550 (70.5)
25	16,650 (43)	17,750 (55)	18,550 (61.5)	18,750 (66)
30	12,100 (29)	13,900 (47.5)	14,850 (56)	15,000 (61)
35		11,050 (38)	11,900 (49.5)	12,100 (56)
40		8,830 (24.5)	9,550 (42.5)	9,830 (51)
45			7,590 (34)	7,960 (45)
50			5,940 (21)	6,400 (38)
55				5,090 (30)
60				3,970 (17.5)
Min. boom angle for indicated length (no load)				0°
Max. boom length at 0° boom angle (no load)				68.2 ft.

#RCL operating code. Refer to RCL manual for operating instructions.

NOTE: () Boom angles are in degrees.

Boom Angle	Main Boom Length in Feet			
	39.2	48.9	58.5	68.2
Tele Sec I	0%	0%	0%	0%
Tele Sec II	0%	17%	33%	50%
Tele Sec III	0%	17%	33%	50%
Mode	A	A	A	A
0°	9,550 (32.8)	7,750 (42.4)	5,250 (52.1)	3,570 (61.8)

NOTE: () Reference radii in feet.

80154196