

GROVE

by **Manitowoc**

**LOAD CHARTS
RT9130E-2**

**85% STABILITY
ON OUTRIGGERS**

**75% STABILITY
ON RUBBER**

232215

SERIAL NUMBER

REVOARD

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LEAD PARTS
REVISIONS

DATE: 10/10/10
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ON RUBBER - PICK & CARRY 22

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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 shall not be exceeded. Do not attempt to tip the machine to determine allowable loads. For clamshell, grapple, magnet 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 85% of the tipping load on outriggers fully extended. Capacities on outriggers 50% extended and 0% extended (fully retracted) correspond to SAE J1289 (Test Load = $1.25P + 0.1A$). 0.1A represents one-tenth (0.10) of the total boom weight reduced to the boom point. Loads are also determined by SAE J765 Crane Stability Test Code.
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 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 in-service wind speed is 20 m.p.h. It is recommended when wind velocity is above 20 m.p.h., rated loads and boom lengths shall be appropriately reduced. For machines not in-service, the main boom should be retracted and lowered with swing brake set in wind velocities over 30 m.p.h.
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, 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 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 appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
16. Capacities for the 42 ft. boom length shall be lifted with boom fully retracted. If boom is not fully retracted, capacities shall not exceed those shown for the 57 ft. boom length.
17. When operating in the "On Outriggers 50% Extended (19' 9" spread)" mode, the outrigger beam pins must be engaged. When operating in the "On Outriggers 0% Extended (11' 8" 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.
18. Do not lift loads when boom is fully lowered. The Load Moment Indicator (LMI) senses pressure and will not provide warnings or lockout. The crane can become overloaded if lift cylinder(s) is fully retracted.
19. The maximum outrigger pad load is 166,000 lb.

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.

WEIGHT REDUCTIONS FOR LOAD HANDLING DEVICES

36 FT. - 59 FT. FOLDING BOOM EXTENSION	
*36 ft. Extension (erected) -	5,260 lb
*59 ft. Extension (erected) -	9,860 lb
FOLDING EXT. WITH 26 FT. INSERT	
*59 ft. Extension (erected) -	14,100 lb
FOLDING EXT. WITH 52 FT. INSERT	
*59 ft. Extension (erected) -	19,400 lb

*Reduction of main boom capacities

(no deduct required for stowed boom extension)

When lifting over main boom nose with 36 ft. or 59 ft. extension erected, the outriggers must be fully extended or 50% extended (19' 9" spread).

When lifting over main boom nose with 26 ft. or 52 ft. insert erected, the outriggers must be fully extended.

AUXILIARY BOOM NOSE	120 lb
HOOKBLOCKS and HEADACHE BALLS:	
80 ton, 5 sheave	1,600 lb+
130 ton, 8 sheave	2,400 lb+
10 ton overhaul ball	680 lb+

+Refer to rating plate for actual weight.

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: 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.

LINE PULLS AND REEVING INFORMATION

HOISTS	CABLE SPECS.	PERMISSIBLE LINE PULLS	NOMINAL CABLE LENGTH
Main Model 35	3/4" (19 mm) 6x37 Class EIPS IWRC Special Flexible Min. Breaking Str. 58,800 lb	16,800 lb	950 ft.
Main Model 35	3/4" (19 mm) 35x7 Class Rotation Resistant (non-rotating) Min. Breaking Str. 85,800 lb	16,800 lb	950 ft.
Auxiliary Model 35	3/4" (19 mm) 35x7 Class Rotation Resistant (non-rotating) Min. Breaking Str. 85,800 lb	16,800 lb	700 ft.

The approximate weight of 3/4" wire rope is 1.5 lb/ft.

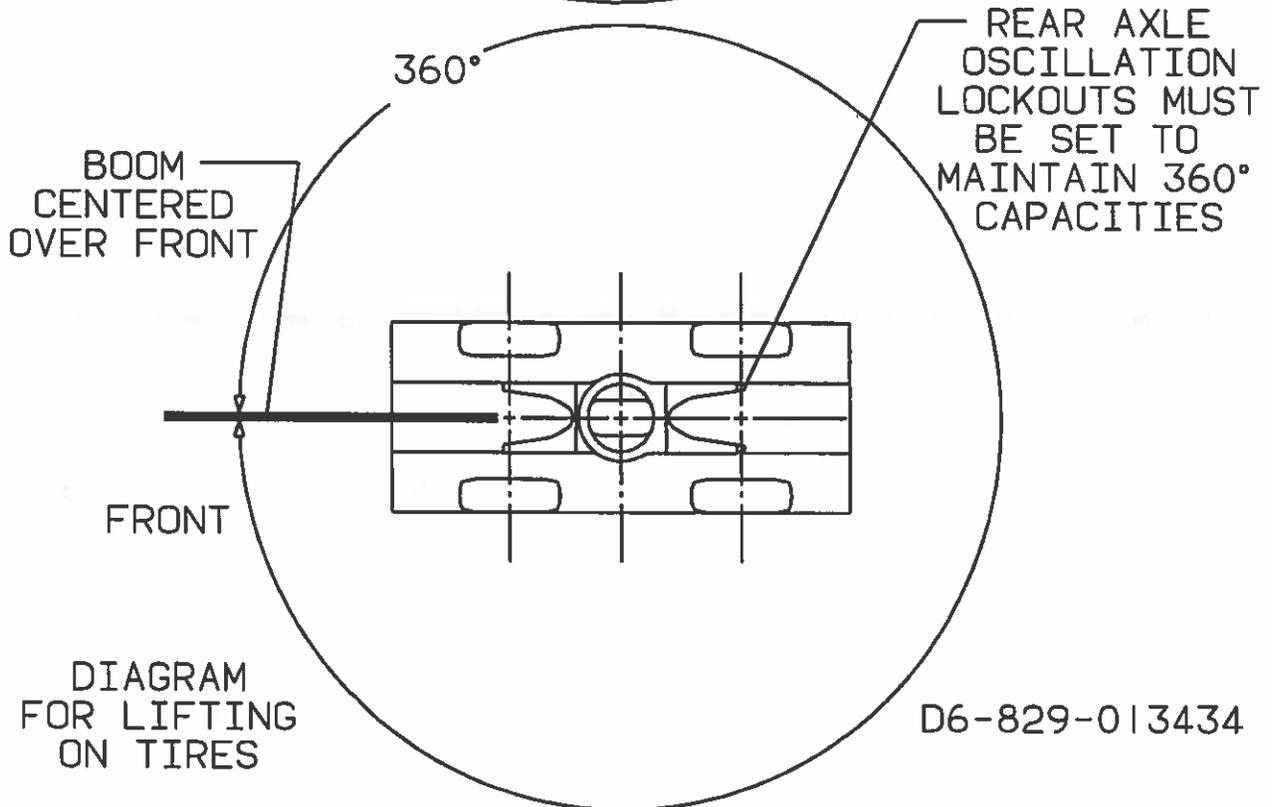
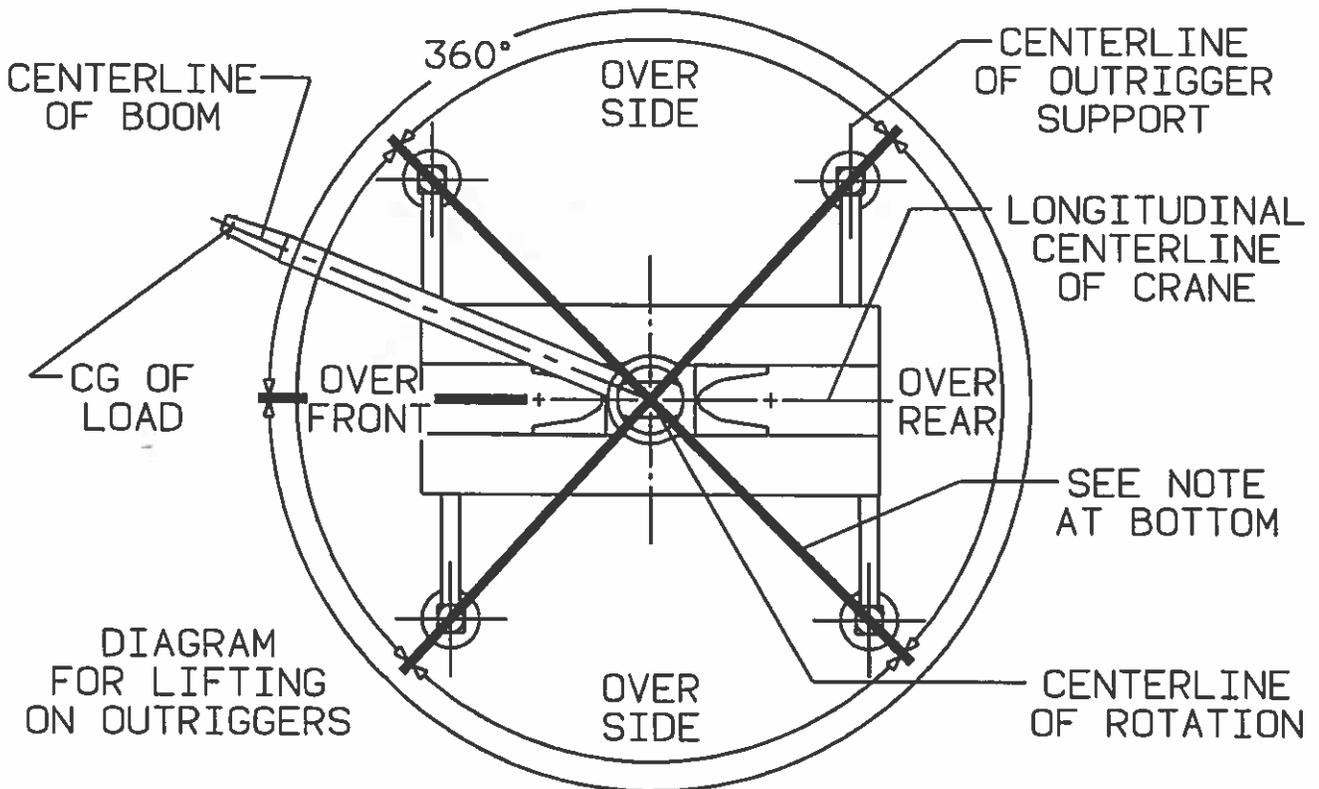
HOIST PERFORMANCE

Wire Rope Layer	Hoist Line Pulls		Drum Rope Capacity (ft.)	
	Two Speed Hoist		Layer	Total
	Low	High		
	Available lb*	Available lb*		
1	19,267	11,094	136	136
2	17,709	10,197	148	285
3	16,384	9,434	160	445
4	15,243	8,777	172	618
5	14,251	8,206	184	802
6	13,380	7,705	196	998

*Max. lifting capacity: 6x37 and 35x7 class = 16,800 lb

BOOM LENGTHS vs. SECTION EXTENSION PERCENTAGES

	Main Boom Length in Feet								
	42	57	72	86	100	115	130	145	160
Boom sections:	Percent Extension								
Inner-mid	0	50	75	75	100	100	100	100	100
Center-mid	0	0	25	75	100	100	100	100	100
Outer-mid	0	0	0	0	0	25	50	75	100
Fly	0	0	0	0	0	25	50	75	100



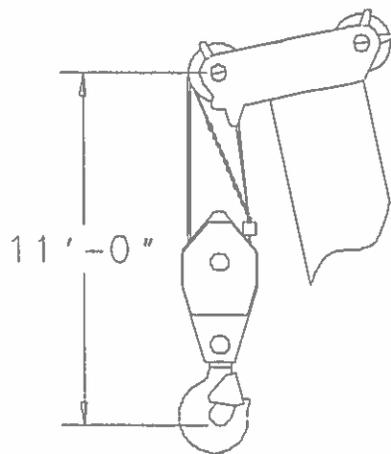
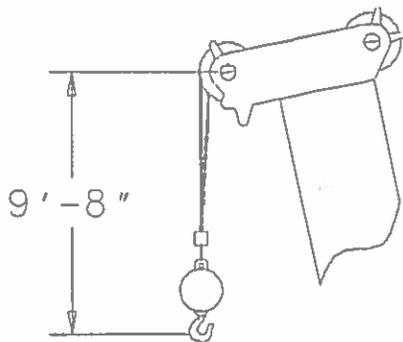
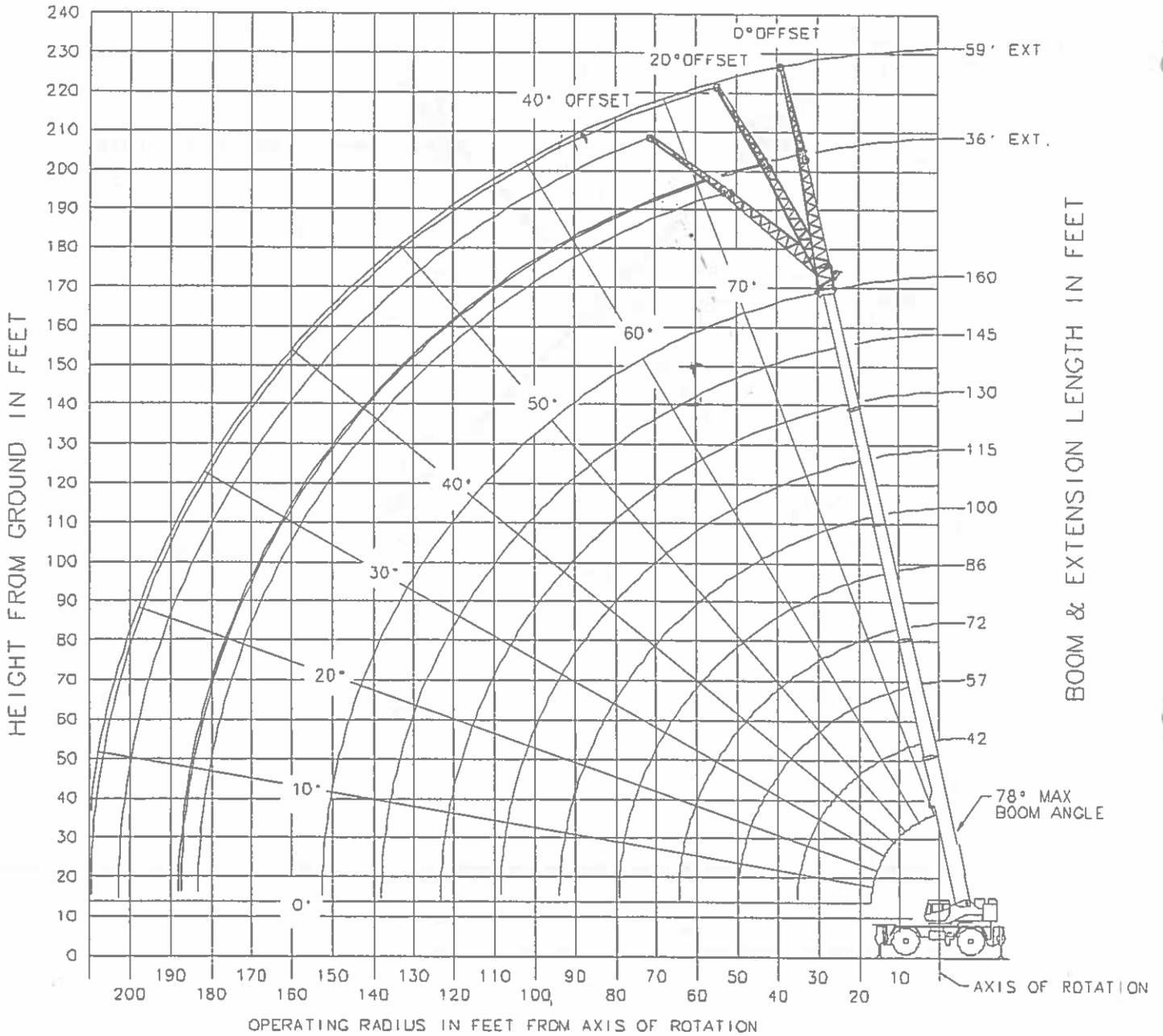
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BOLD LINES DETERMINE THE LIMITING POSITION OF ANY LOAD FOR OPERATION WITHIN WORKING AREAS INDICATED

WORKING AREA DIAGRAM

WORKING RANGE DIAGRAM
(BOOM DEFLECTION NOT SHOWN)

D6-829-101960

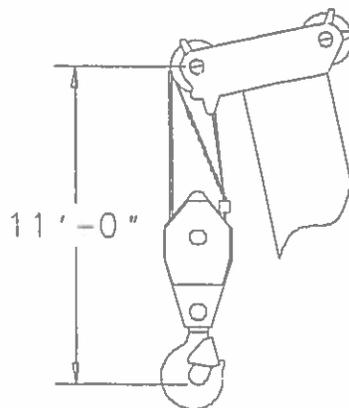
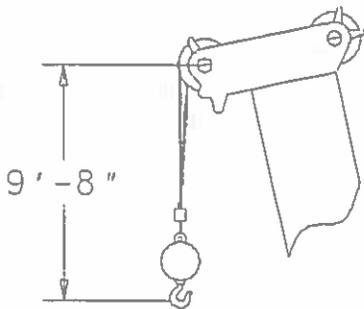
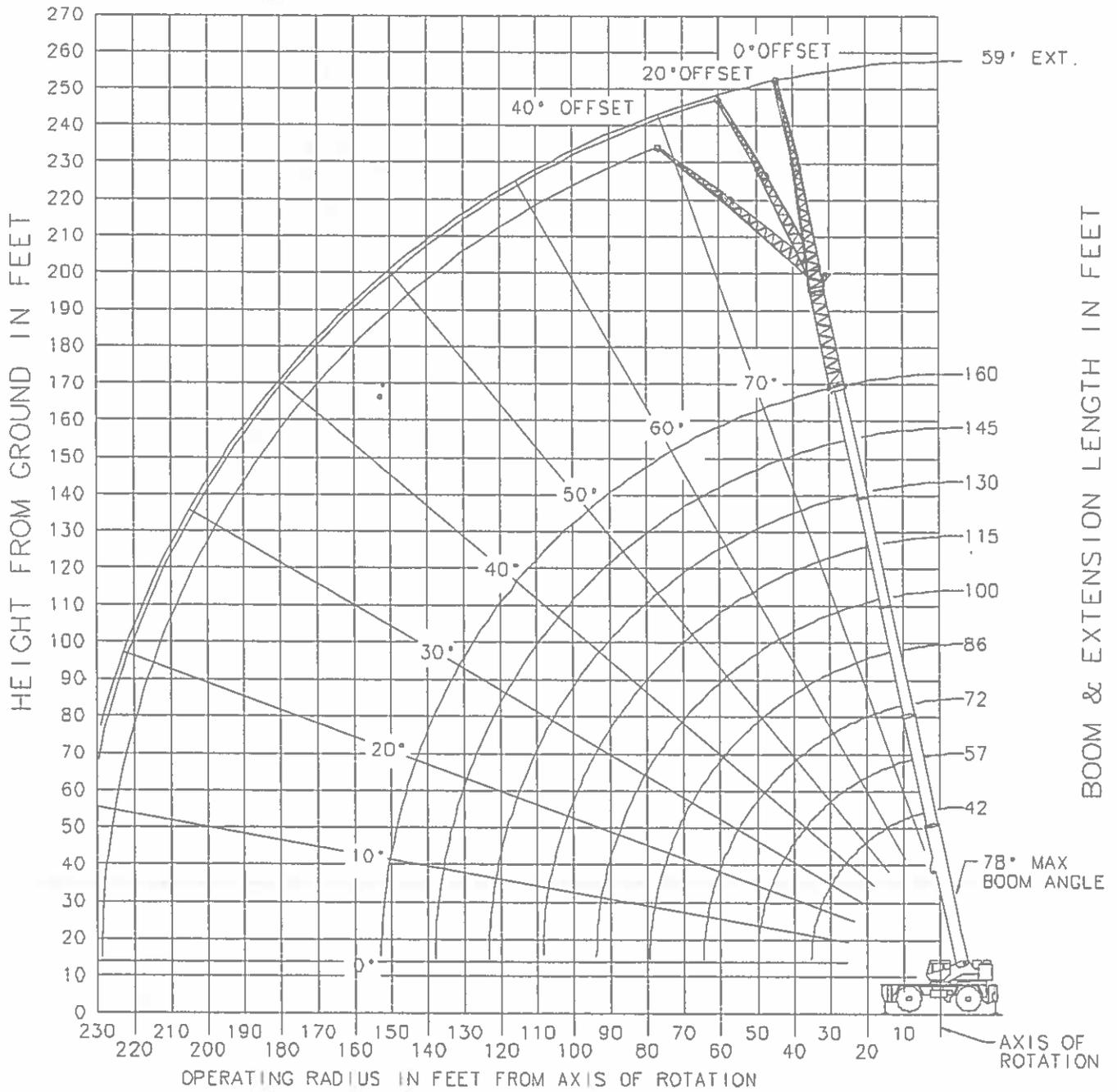


Dimensions are for largest Grove furnished hookblock and headache ball, with anti-two block activated.

WORKING RANGE DIAGRAM WITH ONE 26' INSERT

(BOOM DEFLECTION NOT SHOWN)

D6-B29-101975

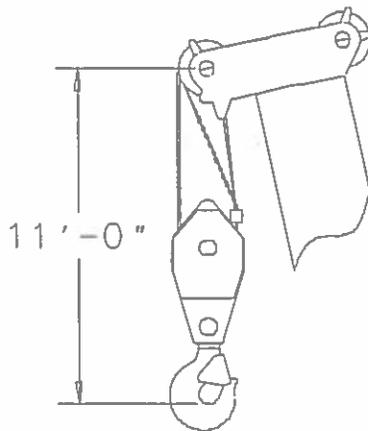
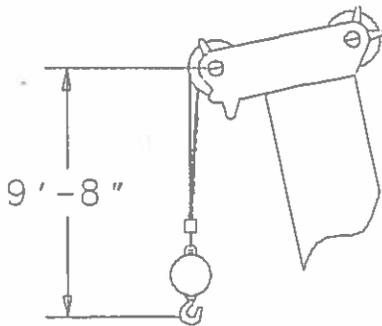
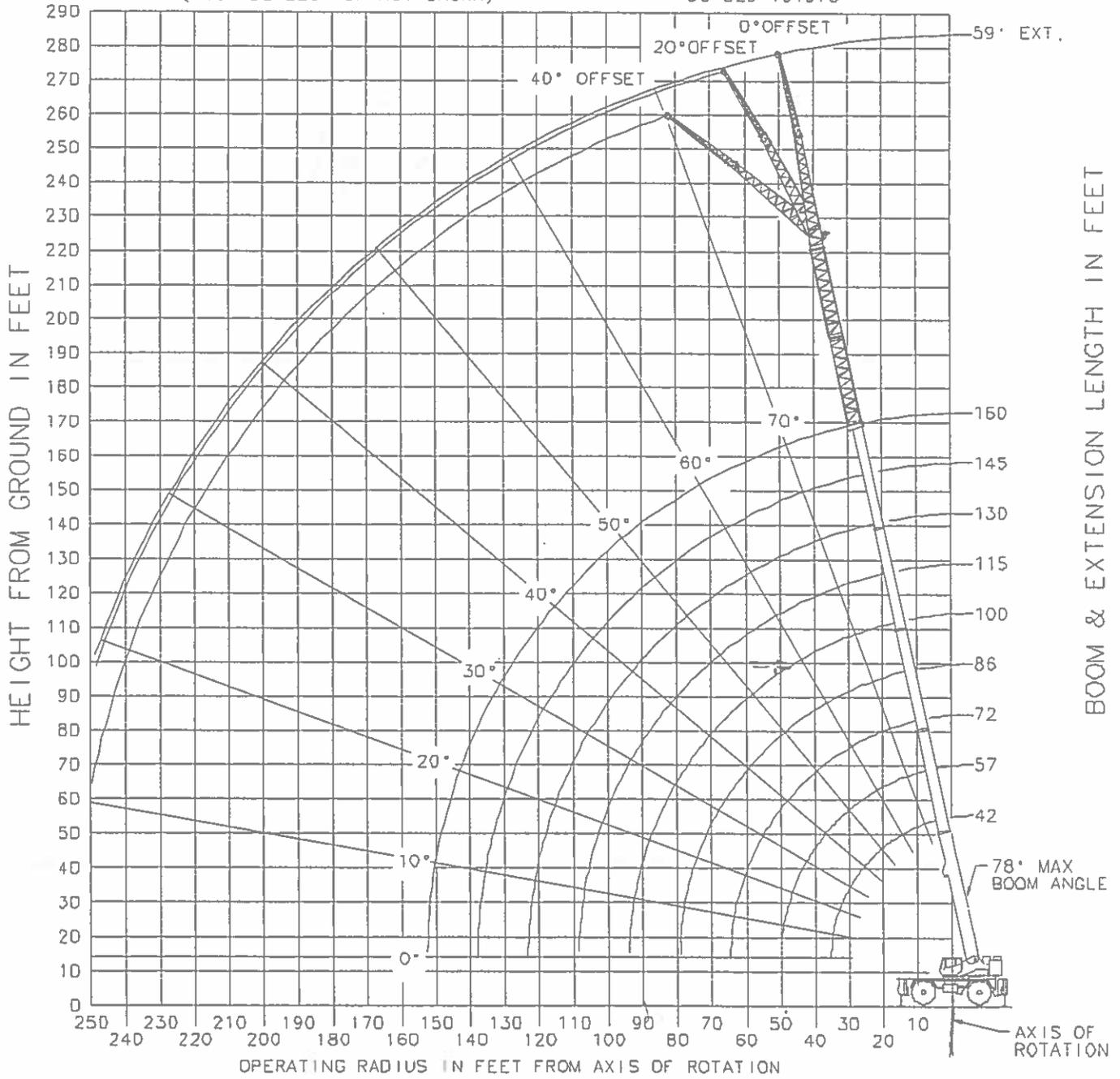


Dimensions are for largest Grove furnished hookblock and headache ball, with anti-two block activated.

WORKING RANGE DIAGRAM WITH TWO 26' INSERTS

(BOOM DEFLECTION NOT SHOWN)

D6-829-101976



Dimensions are for largest Grove furnished hookblock and headache ball, with anti-two block activated.

**INSTALLATION AND REMOVAL OF COUNTERWEIGHT AND AUXILIARY HOIST
RATED LIFTING CAPACITIES IN POUNDS**

ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet	#0801
	Main Boom Length
	42 ft.*
10	65,000
12	65,000
15	65,000
20	65,000
25	65,000
30	57,000

*The boom must be fully retracted.

**INSTALLATION AND REMOVAL OF FRONT AND REAR OUTRIGGER BOXES
RATED LIFTING CAPACITIES IN POUNDS WITHOUT COUNTERWEIGHT**

ON RUBBER (STATIONARY) - 360°

Radius in Feet	#9810
	Main Boom Length
	42 ft.*
10	15,000
12	15,000
15	15,000
20	12,350

*The boom must be fully retracted.

A6-829-104266

NOTES FOR ON RUBBER:

- Capacities are applicable to machines equipped with General 33.25x29 (38 ply) tires at 85 psi cold inflation pressure or Michelin 29.5R29 tires at 90 psi cold inflation pressure. Capacities do not exceed 75% of tipping loads as determined by test in accordance with SAE J765.
- ⊕ With no load, the boom angle must not be less than 35° when over sides of machine since loss of stability will occur causing a tipping condition. To lower boom below 35° boom angle, boom must be swung over front or rear and LMI bypass activated.
- Once one outrigger box is installed, do not swing over that end of the machine while installing the other outrigger box.
- Each outrigger box assembly weighs 9500 lb including the outrigger beams and pads.
- May be used for single or double line lifting service.

RATED LIFTING CAPACITIES IN POUNDS WITH 40,000 lb COUNTERWEIGHT 42 FT. - 160 FT. BOOM

ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet	#0001								
	Main Boom Length in Feet								
	42	57	72	86	100	115	130	145	160
10	+260,000 (71.5)	147,000 (76.5)							
12	224,000 (68.5)	147,000 (74.5)	*127,000 (78)						
15	176,000 (63.5)	147,000 (71.5)	127,000 (76)	*92,600 (78)					
20	127,500 (55.5)	125,500 (65.5)	115,500 (71.5)	86,550 (75.5)	*65,000 (78)				
25	97,300 (46)	95,550 (60)	95,300 (67)	78,900 (72)	62,650 (75)	44,600 (78)			
30	76,900 (34)	75,250 (53.5)	75,050 (62.5)	68,500 (68.5)	56,800 (72)	44,600 (75.5)	43,150 (78)		
35		60,950 (46.5)	60,750 (58)	60,100 (64.5)	50,050 (69)	44,600 (73)	42,200 (76)	32,550 (78)	
40		50,300 (38.5)	50,150 (52.5)	50,550 (60.5)	44,050 (66)	41,400 (70)	38,000 (73.5)	32,550 (76)	25,100 (78)
45		42,050 (28)	41,950 (47)	42,350 (56.5)	38,950 (62.5)	37,450 (67.5)	34,150 (71)	32,550 (74)	24,800 (76.5)
50			35,400 (41)	35,850 (52.5)	34,650 (59)	33,450 (64.5)	31,350 (68.5)	29,550 (71.5)	24,500 (74.5)
55	See Note 16		30,050 (34)	30,550 (47.5)	30,050 (55.5)	30,000 (61.5)	29,200 (66)	26,850 (69.5)	24,000 (72.5)
60			25,800 (24.5)	26,100 (42.5)	25,850 (52)	26,950 (58.5)	26,350 (63.5)	24,700 (67.5)	23,200 (70.5)
65				22,400 (37)	22,150 (48)	23,800 (55.5)	23,850 (61)	22,950 (65)	21,100 (68.5)
70				19,200 (30.5)	18,950 (44)	20,800 (52.5)	21,600 (58.5)	20,850 (62.5)	19,200 (66.5)
75				16,400 (22)	16,200 (39)	18,100 (49)	19,250 (55.5)	19,000 (60.5)	17,500 (64.5)
80					13,800 (34)	15,700 (45.5)	16,900 (52.5)	17,100 (58)	15,750 (62.5)
85					11,650 (28)	13,550 (41.5)	15,000 (49.5)	15,500 (55.5)	14,300 (60)
90					9,770 (19.5)	11,700 (37)	13,100 (46.5)	13,900 (53)	13,100 (58)
95						10,000 (32)	11,450 (43)	12,250 (50)	12,150 (55.5)
100						8,490 (26.5)	9,940 (39.5)	11,000 (47)	11,400 (53)
105						5,690 (18.5)	8,630 (35.5)	9,730 (44)	10,200 (50.5)
110							7,320 (30.5)	8,460 (41)	9,020 (48)
115							6,220 (25)	7,370 (37.5)	8,100 (45.5)
120							5,120 (17.5)	6,280 (33.5)	7,190 (42.5)
125								5,350 (29.5)	6,270 (39.5)
130								4,430 (24)	5,350 (36)
135								2,560 (16.5)	4,560 (32.5)
140									3,770 (28)
Minimum boom angle (deg.) for indicated length (no load)									23
Maximum boom length (ft.) at 0 deg boom angle (no load)									145

#LMI operating code. Refer to LMI manual for instructions.
 *This capacity is based upon maximum obtainable boom angle.
 +16 parts line required to lift this capacity (using aux. boom nose) Refer to Operator's and Safety Handbook for reaving diagram.
 Note: () Boom angles are in degrees.

Lifting Capacities at Zero Degree Boom Angle									
Boom Angle	Main Boom Length in Feet								
	42	57	72	86	100	115	130	145	160
0°	41,400 (35.3)	24,650 (50)	15,350 (64.6)	9,700 (79.3)	5,250 (94)	3,650 (108.6)	2,450 (123.3)	1,450 (138)	

Note: () Reference radii in feet. A6-829-103576

**36 FT. - 59 FT. FOLDING BOOM EXTENSION
WITH 40,000 lb COUNTERWEIGHT & 100 FT. MAIN BOOM
ON OUTRIGGERS FULLY EXTENDED - 360°**

Radius in Feet	36 ft. LENGTH			59 ft. LENGTH		
	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
	#0021	#0022	#0023	#0041	#0042	#0043
25	*33,600 (78)					
30	33,600 (76.5)			*14,950 (78)		
35	32,950 (74.5)	*23,150 (78)		14,950 (77.5)		
40	31,050 (72)	22,150 (76.5)		14,950 (76)		
45	29,250 (70)	21,250 (74)	17,250 (78)	14,950 (74)		
50	27,600 (67.5)	20,450 (72)	16,850 (75.5)	14,950 (72)	12,350 (78)	
55	26,150 (65)	19,700 (69.5)	16,500 (73)	14,950 (70)	11,900 (77)	
60	24,750 (63)	19,050 (67)	16,150 (70.5)	14,800 (68)	11,500 (75)	
65	23,550 (60.5)	18,450 (65)	15,900 (68)	14,300 (66)	11,100 (73)	9,210 (78)
70	22,050 (58)	17,850 (62)	15,650 (65.5)	13,650 (64)	10,700 (71)	9,000 (76)
75	20,100 (55.5)	17,350 (59.5)	15,450 (63)	13,100 (62)	10,400 (69)	8,820 (73.5)
80	18,100 (52.5)	16,900 (57)	15,250 (60)	12,550 (60)	10,050 (66.5)	8,650 (71.5)
85	16,000 (50)	16,500 (54)	15,150 (57)	12,000 (58)	9,780 (64.5)	8,490 (69)
90	14,150 (47)	15,500 (51.5)	15,050 (54)	11,550 (55.5)	9,510 (62.5)	8,360 (66.5)
95	12,500 (44)	13,700 (48)	14,000 (50.5)	11,100 (53)	9,260 (60)	8,240 (64)
100	11,050 (40.5)	12,100 (45)	12,750 (47)	10,650 (51)	9,030 (57.5)	8,130 (61.5)
105	9,770 (37)	10,650 (41.5)		10,250 (48.5)	8,820 (55)	8,050 (59)
110	8,490 (33.5)	9,270 (37.5)		9,930 (46)	8,620 (52.5)	7,980 (56)
115	7,430 (29)	8,060 (33)		9,040 (43)	8,450 (49.5)	7,950 (53)
120	6,370 (24)	6,850 (28)		8,150 (40.5)	8,280 (47)	7,920 (50)
125				7,240 (37)	7,830 (43.5)	7,900 (46.5)
130				6,340 (34)	7,380 (40.5)	7,890 (42.5)
135				5,570 (30.5)	6,440 (36.5)	
140				4,800 (26)	5,510 (32)	
145				4,140 (21)		
150				3,480 (14)		
Min. boom angle for indicated length (no load)	0°	20°	40°	0°	20°	40°
Max. boom length at 0° boom angle (no load)	100 ft.			100 ft.		

NOTES:

1. All capacities above the bold line are based on structural strength of boom extension.
2. 36 ft. boom extension may be used for single or double line lifting service. 59 ft. boom extension may be used for single line lifting service only.

WARNING: Lifting with the 36 ft. extension base, with the 23 ft. extension fly either erected or folded along side of extension base, is strictly prohibited.

3. Radii listed are for a 100 ft. boom with the boom extension erected. For main boom lengths less than 100 ft., 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 configured. For boom angles not shown, use the 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.

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.

NOTE: () Boom angles are in degrees.

A6-829-102109

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

*This capacity is based on maximum obtainable boom angle.

**36 FT. - 59 FT. FOLDING BOOM EXTENSION
WITH 40,000 lb COUNTERWEIGHT & 130 FT. MAIN BOOM
ON OUTRIGGERS FULLY EXTENDED - 360°**

Radius in Feet	36 ft. LENGTH			59 ft. LENGTH		
	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
	#0021	#0022	#0023	#0041	#0042	#0043
35	23,350 (78)					
40	23,350 (77)			12,300 (78)		
45	23,350 (75)	21,300 (78)		12,300 (77.5)		
50	23,350 (73.5)	20,700 (76.5)		12,300 (76)		
55	23,350 (71.5)	20,100 (75)	16,600 (78)	12,300 (74.5)		
60	23,350 (69.5)	19,500 (73)	16,350 (76)	12,300 (73)	11,600 (78)	
65	22,300 (67.5)	19,000 (71)	16,100 (74)	12,300 (71.5)	11,300 (77)	
70	20,350 (66)	18,500 (69)	15,850 (72)	12,300 (69.5)	10,950 (75)	
75	18,350 (64)	18,050 (67)	15,650 (70)	12,300 (68)	10,700 (73.5)	8,940 (78)
80	16,600 (62)	17,100 (65)	15,500 (68)	12,300 (66.5)	10,400 (72)	8,790 (76)
85	15,050 (60)	15,550 (63)	15,300 (66)	12,300 (64.5)	10,150 (70)	8,650 (74.5)
90	13,700 (57.5)	14,150 (61)	14,500 (63.5)	12,300 (63)	9,910 (68.5)	8,520 (72.5)
95	12,450 (55.5)	12,900 (58.5)	13,250 (61.5)	11,900 (61)	9,680 (66.5)	8,410 (70.5)
100	11,300 (53.5)	11,750 (56.5)	12,100 (59)	11,450 (59)	9,460 (64.5)	8,300 (68.5)
105	10,300 (51)	10,750 (54)	11,050 (56.5)	10,500 (57.5)	9,260 (63)	8,210 (66.5)
110	9,390 (48.5)	9,810 (52)	10,050 (54)	9,580 (55.5)	9,060 (61)	8,120 (64.5)
115	8,570 (46)	8,970 (49.5)	9,200 (51.5)	8,790 (53.5)	8,860 (59)	8,050 (62.5)
120	7,750 (43.5)	8,140 (46.5)	8,350 (48.5)	8,010 (51.5)	8,660 (57)	7,990 (60.5)
125	6,840 (41)	7,360 (44)	7,600 (45.5)	7,340 (49.5)	7,960 (54.5)	7,820 (58)
130	5,940 (38)	6,590 (41)	6,850 (42.5)	6,680 (47.5)	7,270 (52.5)	7,660 (55.5)
135	5,170 (34.5)	5,730 (37.5)		6,100 (45)	6,660 (50.5)	7,010 (53.5)
140	4,400 (31)	4,880 (34)		5,530 (42.5)	6,050 (48)	6,360 (50.5)
145	3,730 (27.5)	4,120 (30)		4,890 (40)	5,510 (45.5)	5,770 (48)
150	3,070 (22.5)	3,360 (25.5)		4,260 (37.5)	4,970 (42.5)	5,190 (45)
155				3,670 (35)	4,360 (40)	
160				3,090 (31.5)	3,750 (36.5)	
165				2,570 (28.5)	3,120 (33)	
170				2,060 (24.5)	2,490 (29)	
Min boom angle for indicated length (no load)	20°	20°	40°	20°	20°	40°
Max boom length at 0° boom angle (no load)	100 ft.			100 ft.		

NOTES:

1. All capacities above the bold line are based on structural strength of boom extension.
2. 36 ft. boom extension may be used for single or double line lifting service. 59 ft. boom extension may be used for single line lifting service only.

WARNING: Lifting with the 36 ft. extension base, with the 23 ft. extension fly either erected or folded along side of extension base, is strictly prohibited.

3. Radii listed are for a 130 ft. boom with the boom extension erected. For main boom lengths less than 130 ft., 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 configured. For boom angles not shown, use the 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.

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.

NOTE () Boom angles are in degrees.
#LMI operating code. Refer to LMI manual for operating instructions.
*This capacity is based on maximum obtainable boom angle.

A6-829-102127

**36 FT. - 59 FT. FOLDING BOOM EXTENSION
WITH 40,000 lb COUNTERWEIGHT & 160 FT. MAIN BOOM
ON OUTRIGGERS FULLY EXTENDED - 360°**

Radius in Feet	36 ft. LENGTH			59 ft. LENGTH		
	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
	#0021	#0022	#0023	#0041	#0042	#0043
45	16,000 (78)					
50	16,000 (77.5)					
55	15,900 (76)			10,100 (78)		
60	15,850 (74)	15,700 (77.5)		10,100 (77)		
65	15,800 (72.5)	15,700 (76)	15,200 (78)	10,100 (75.5)		
70	15,750 (71)	15,000 (74.5)	14,750 (77)	10,100 (74)	10,050 (78)	
75	14,950 (69.5)	14,300 (73)	14,100 (75.5)	10,100 (73)	10,050 (77.5)	
80	14,200 (68)	13,600 (71)	13,450 (74)	10,100 (71.5)	10,050 (76)	
85	13,450 (66)	12,950 (69.5)	12,850 (72)	10,100 (70)	10,050 (74.5)	8,600 (78)
90	12,800 (64.5)	12,350 (68)	12,250 (70.5)	10,100 (68.5)	9,870 (73)	8,500 (77.5)
95	11,700 (63)	11,750 (66)	11,700 (68.5)	10,100 (67)	9,680 (72)	8,400 (75.5)
100	10,650 (61)	11,200 (64.5)	11,200 (67)	9,710 (65.5)	9,450 (70)	8,310 (74)
105	9,710 (59.5)	10,250 (62.5)	10,400 (65)	9,280 (64)	9,050 (68.5)	8,220 (72.5)
110	8,780 (57.5)	9,310 (61)	9,680 (63)	8,850 (62.5)	8,850 (67)	8,140 (71)
115	7,990 (55.5)	8,500 (59)	8,840 (61)	8,110 (61)	8,280 (65.5)	7,920 (69.5)
120	7,210 (53.5)	7,690 (57)	8,010 (59)	7,370 (59.5)	7,920 (64)	7,700 (67.5)
125	6,540 (52)	7,000 (55)	7,290 (57)	6,720 (57.5)	7,360 (62.5)	7,440 (66)
130	5,880 (49.5)	6,310 (53)	6,580 (55)	6,070 (57)	6,810 (60.5)	7,190 (64)
135	5,300 (47.5)	5,710 (51)	5,950 (53)	5,510 (54.5)	6,210 (59)	6,630 (62.5)
140	4,730 (45.5)	5,110 (49)	5,330 (50.5)	4,950 (52.5)	5,620 (57)	6,080 (60.5)
145	4,190 (43)	4,580 (48.5)	4,770 (48)	4,460 (50.5)	5,100 (55.5)	5,520 (58.5)
150	3,650 (41)	4,060 (44)	4,220 (45.5)	3,980 (49)	4,580 (53.5)	4,970 (56.5)
155	3,070 (38.5)	3,500 (41.5)	3,660 (43)	3,550 (47)	4,120 (51.5)	4,470 (54.5)
160	2,490 (35.5)	2,940 (38.5)		3,130 (45)	3,660 (49.5)	3,970 (52)
165	1,970 (32.5)	2,370 (36)		2,710 (43)	3,240 (47.5)	3,510 (50)
170	1,460 (29.5)	1,800 (32.5)		2,300 (40.5)	2,830 (45)	3,060 (47.5)
175				1,840 (38.5)	2,420 (43)	2,640 (45)
180				1,390 (36)	2,010 (40)	2,220 (42)
185					1,530 (37.5)	
Min. boom angle (°) for indicated length (no load)	26	28	40	34	35	40
Max. boom length (ft.) at 0° boom angle (no load)	100			100		

NOTES:

1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J765.
2. 36 ft. boom extension may be used for single or double line lifting service. 59 ft. boom extension may be used for single line lifting service only.

WARNING: Lifting with the 36 ft. extension base, with the 23 ft. extension fly either erected or folded along side of extension base, is strictly prohibited.

3. Radii listed are for a 160 ft. boom with the boom extension erected. For main boom lengths less than 160 ft., 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 configured. For boom angles not shown, use the 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.

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.

NOTE () Boom angles are in degrees
#LMI operating code. Refer to LMI manual for operating instructions
*This capacity is based on maximum obtainable boom angle.

A6-829-101980A

**59 FT. FOLDING BOOM EXTENSION WITH ONE (26') OR TWO (52') INSERT(S)
WITH 40,000 lb COUNTERWEIGHT & 160 FT. MAIN BOOM
ON OUTRIGGERS FULLY EXTENDED - 360°**

Radius in Feet	59 ft. LENGTH WITH 26 FT. INSERT			59 ft. LENGTH WITH 52 FT. INSERT		
	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
	#0084	#0085	#0086	#0084	#0085	#0086
60	7,070 (78)					
65	7,070 (77.5)					
70	7,070 (76.5)			4,400 (78)		
75	7,070 (75)			4,400 (77.5)		
80	7,070 (74)	6,610 (78)		4,400 (76.5)		
85	7,070 (72.5)	6,610 (77.5)		4,400 (75.5)		
90	7,070 (71.5)	6,610 (76)		4,400 (74.5)	4,230 (78)	
95	7,070 (70)	6,610 (75)	6,400 (78)	4,400 (73)	4,230 (77.5)	
100	7,070 (69)	6,610 (73.5)	6,400 (77)	4,400 (72)	4,230 (76.5)	
105	7,070 (67.5)	6,610 (72.5)	6,400 (76)	4,400 (71)	4,230 (75.5)	4,000 (78)
110	7,070 (66)	6,610 (71)	6,400 (74.5)	4,400 (69.5)	4,230 (74)	4,000 (77)
115	6,735 (65)	6,545 (69.5)	6,315 (73)	4,400 (68.5)	4,230 (73)	4,000 (75.5)
120	6,400 (63.5)	6,480 (68)	6,230 (71.5)	4,400 (67.5)	4,230 (72)	4,000 (74.5)
125	5,940 (62)	6,170 (67)	5,955 (70)	4,400 (66)	4,230 (70.5)	4,000 (73)
130	5,480 (60.5)	5,860 (65.5)	5,680 (68.5)	4,400 (65)	4,230 (69.5)	4,000 (72)
135	4,930 (59.5)	5,510 (64)	5,440 (67)	4,110 (63.5)	4,195 (68)	4,000 (70.5)
140	4,380 (58)	5,160 (62.5)	5,200 (65.5)	3,820 (62.5)	4,160 (67)	4,000 (69)
145	3,900 (56.5)	4,645 (61)	4,910 (64)	3,350 (61)	3,885 (65.5)	3,785 (68)
150	3,420 (55)	4,130 (59.5)	4,620 (62.5)	2,880 (60)	3,610 (64)	3,570 (66.5)
155	3,000 (53.5)	3,680 (58)	4,140 (60.5)	2,470 (58.5)	3,205 (63)	3,365 (65)
160	2,580 (51.5)	3,230 (56.5)	3,660 (59)	2,060 (57)	2,800 (61.5)	3,160 (63.5)
165	2,210 (50)	2,825 (54.5)	3,220 (57.5)	1,690 (56)	2,405 (60)	2,810 (62.5)
170	1,840 (48.5)	2,420 (53)	2,780 (55.5)		2,010 (59)	2,460 (61)
175	1,515 (46.5)	2,060 (51)	2,385 (53.5)		1,655 (57.5)	2,075 (59.5)
180		1,700 (49.5)	1,990 (51.5)			1,690 (58)
185		1,370 (47.5)	1,625 (49.5)			
Min. boom angle (°) for indicated length (no load)	45	46	48	54	56	56
Max. boom length (ft.) at 0° boom angle (no load)		57			57	

NOTE () Boom angles are in degrees.
#LMI operating code. Refer to LMI manual for operating instructions.

A6-829-101983A

1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765.
2. 59 ft. folding boom extension length may be used for single line lifting service only.
NOTE: Lifting with 36 ft. extension base with either one or two 26 ft. insert sections installed is not permitted.
3. For main boom lengths less than 160 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.
4. **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.
5. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
6. Capacities listed are with outriggers properly extended and vertical jacks set only.

RATED LIFTING CAPACITIES IN POUNDS WITH 40,000 lb COUNTERWEIGHT 42 FT. - 160 FT. BOOM

ON OUTRIGGERS 50% EXTENDED (19 ft. 9 in. spread) - 360°

Radius in Feet	#4001								
	Main Boom Length in Feet								
	42	57	72	86	100	115	130	145	160
10	+241,500 (71.5)	147,000 (76.5)							
12	215,500 (68.5)	147,000 (74.5)	*127,000 (78)						
15	176,000 (63.5)	147,000 (71.5)	127,000 (76)	*92,600 (78)					
20	127,500 (55.5)	125,500 (65.5)	115,500 (71.5)	86,550 (75.5)	*65,000 (78)				
25	95,750 (46)	92,650 (60)	88,600 (67)	78,900 (72)	62,650 (75)	44,600 (78)			
30	68,500 (34)	65,500 (53.5)	64,650 (62.5)	63,950 (68.5)	56,800 (72)	44,600 (75.5)	43,150 (78)		
35		48,900 (46.5)	48,250 (58)	49,850 (64.5)	47,750 (69)	44,600 (73)	42,200 (76)	32,550 (78)	
40		37,800 (38.5)	37,250 (52.5)	38,550 (60.5)	38,400 (66)	39,250 (70)	38,000 (73.5)	32,550 (76)	25,100 (78)
45		29,850 (28)	29,250 (47)	30,450 (56.5)	30,350 (62.5)	32,000 (67.5)	33,000 (71)	32,550 (74)	24,800 (76.5)
50			23,250 (41)	24,300 (52.5)	24,200 (59)	25,850 (64.5)	27,450 (68.5)	28,200 (71.5)	24,500 (74.5)
55			18,600 (34)	19,450 (47.5)	19,450 (55.5)	21,050 (61.5)	22,600 (66)	23,750 (69.5)	24,000 (72.5)
60	See Note 16		14,850 (24.5)	15,550 (42.5)	15,550 (52)	17,200 (58.5)	18,750 (63.5)	19,850 (67.5)	20,950 (70.5)
65				12,400 (37)	12,350 (48)	14,050 (55.5)	15,550 (61)	16,650 (65)	17,750 (68.5)
70				9,790 (30.5)	9,690 (44)	11,350 (52.5)	12,900 (58.5)	14,000 (62.5)	15,050 (66.5)
75				7,550 (22)	7,440 (39)	9,090 (49)	10,650 (55.5)	11,750 (60.5)	12,800 (64.5)
80					5,500 (34)	7,140 (45.5)	8,720 (52.5)	9,830 (58)	10,850 (62.5)
85					3,830 (28)	5,450 (41.5)	7,010 (49.5)	8,130 (55.5)	9,170 (60)
90					2,360 (19.5)	3,970 (37)	5,520 (46.5)	6,620 (53)	7,690 (58)
95						2,670 (32)	4,210 (43)	5,300 (50)	6,360 (55.5)
100						1,510 (26.5)	3,040 (39.5)	4,120 (47)	5,170 (53)
105							1,990 (35.5)	3,070 (44)	4,110 (50.5)
110							1,050 (30.5)	2,120 (41)	3,160 (48)
115								1,260 (37.5)	2,290 (45.5)
120									1,510 (42.5)
0.1A (lb.)	1,850	2,020	2,070	2,040	2,080	1,910	1,790	1,690	1,600
Minimum boom angle (deg) for indicated length (no load)						0	18	30	33
Maximum boom length (ft.) at 0 deg. boom angle (no load)						115			

#LMI operating code. Refer to LMI manual for instructions

*This capacity is based upon maximum obtainable boom angle

Note: () Boom angles are in degrees.

+16 parts line required to lift this capacity (using aux. boom nose). Refer to Operator's & Safety Handbook for reeving diagram.

Lifting Capacities at Zero Degree Boom Angle									
Boom Angle	Main Boom Length in Feet								
	42	57	72	86	100				
0°	41,400 (35.3)	23,800 (50)	12,000 (64.6)	5,870 (79.3)	1,300 (94)				

Note: () Reference radii in feet

A6-829-103577

**36 FT. - 59 FT. FOLDING BOOM EXTENSION
WITH 40,000 lb COUNTERWEIGHT & 100 FT. MAIN BOOM
ON OUTRIGGERS 50% EXTENDED (19 ft. 9 in. spread) - 360°**

Radius in Feet	36 ft. LENGTH			59 ft. LENGTH		
	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
	#4021	#4022	#4023	#4041	#4042	#4043
25	*33,600 (78)					
30	33,600 (76.5)			*14,950 (78)		
35	32,950 (74.5)	*23,150 (78)		14,950 (77.5)		
40	31,050 (72)	22,150 (76.5)		14,950 (76)		
45	29,250 (70)	21,250 (74)	17,250 (78)	14,950 (74)		
50	27,600 (67.5)	20,450 (72)	16,850 (75.5)	14,950 (72)	12,350 (78)	
55	23,650 (65)	19,700 (69.5)	16,500 (73)	14,950 (70)	11,900 (77)	
60	19,750 (63)	19,050 (67)	16,150 (70.5)	14,800 (68)	11,500 (75)	
65	16,550 (60.5)	18,450 (65)	15,900 (68)	14,300 (66)	11,100 (73)	9,210 (78)
70	13,850 (58)	15,700 (62)	15,650 (65.5)	13,650 (64)	10,700 (71)	9,000 (76)
75	11,600 (55.5)	13,200 (59.5)	14,850 (63)	13,100 (62)	10,400 (69)	8,820 (73.5)
80	9,650 (52.5)	11,100 (57)	12,400 (60)	11,750 (60)	10,050 (66.5)	8,650 (71.5)
85	7,960 (50)	9,270 (54)	10,300 (57)	10,050 (58)	9,780 (64.5)	8,490 (69)
90	6,490 (47)	7,650 (51.5)	8,480 (54)	8,600 (55.5)	9,510 (62.5)	8,360 (66.5)
95	5,180 (44)	6,230 (48)	6,860 (50.5)	7,300 (53)	9,260 (60)	8,240 (64)
100	4,020 (40.5)	4,960 (45)	5,410 (47)	6,150 (51)	8,180 (57.5)	8,130 (61.5)
105	2,990 (37)	3,830 (41.5)		5,120 (48.5)	6,920 (55)	8,050 (59)
110	2,050 (33.5)	2,810 (37.5)		4,190 (46)	5,800 (52.5)	6,930 (56)
115	1,210 (29)	1,880 (33)		3,350 (43)	4,780 (49.5)	5,750 (53)
120		1,040 (28)		2,580 (40.5)	3,850 (47)	4,680 (50)
125				1,880 (37)	3,000 (43.5)	3,700 (46.5)
130				1,240 (34)	2,220 (40.5)	2,810 (42.5)
135					1,510 (36.5)	
0.1A (lb.)	1,760	1,640	1,540	1,580	1,450	1,380
Min. boom angle for indicated length (no load)	18°	20°	40°	22°	27°	40°
Max. boom length at 0° boom angle (no load)	86 ft.			72 ft.		

NOTES:

1. All capacities above the bold line are based on structural strength of boom extension.
2. 36 ft. boom extension may be used for single or double line lifting service. 59 ft. boom extension may be used for single line lifting service only.

WARNING: Lifting with the 36 ft. extension base, with the 23 ft. extension fly either erected or folded along side of extension base, is strictly prohibited.

3. Radii listed are for a 100 ft. boom with the boom extension erected. For main boom lengths less than 100 ft., 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 configured. For boom angles not shown, use the 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.

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.

NOTE: () Boom angles are in degrees.
#LMI operating code. Refer to LMI manual for operating instructions.
*This capacity is based on maximum obtainable boom angle.

A6-829-102110

**36 FT. - 59 FT. FOLDING BOOM EXTENSION
WITH 40,000 lb COUNTERWEIGHT & 130 FT. MAIN BOOM
ON OUTRIGGERS 50% EXTENDED (19 ft. 9 in. spread) - 360°**

Radius in Feet	36 ft. LENGTH			59 ft. LENGTH		
	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
	#4021	#4022	#4023	#4041	#4042	#4043
35	23,350 (78)					
40	23,350 (77)			12,300 (78)		
45	23,350 (75)	*21,300 (78)		12,300 (77.5)		
50	23,350 (73.5)	20,700 (76.5)		12,300 (76)		
55	23,350 (71.5)	20,100 (75)	16,600 (78)	12,300 (74.5)		
60	20,650 (69.5)	19,500 (73)	16,350 (76)	12,300 (73)	11,600 (78)	
65	17,850 (67.5)	19,000 (71)	16,100 (74)	12,300 (71.5)	11,300 (77)	
70	15,150 (66)	17,500 (69)	15,850 (72)	12,300 (69.5)	10,950 (75)	
75	12,900 (64)	14,950 (67)	15,650 (70)	12,300 (68)	10,700 (73.5)	8,940 (78)
80	11,000 (62)	12,800 (65)	14,100 (68)	12,050 (66.5)	10,400 (72)	8,790 (76)
85	9,320 (60)	10,900 (63)	12,050 (66)	10,400 (64.5)	10,150 (70)	8,650 (74.5)
90	7,850 (57.5)	9,280 (61)	10,300 (63.5)	9,010 (63)	9,910 (68.5)	8,520 (72.5)
95	6,550 (55.5)	7,830 (58.5)	8,730 (61.5)	7,750 (61)	9,680 (66.5)	8,410 (70.5)
100	5,400 (53.5)	6,540 (56.5)	7,330 (59)	6,630 (59)	8,910 (64.5)	8,300 (68.5)
105	4,360 (51)	5,390 (54)	6,070 (56.5)	5,620 (57.5)	7,690 (63)	8,210 (66.5)
110	3,440 (48.5)	4,350 (52)	4,940 (54)	4,720 (55.5)	6,600 (61)	8,120 (64.5)
115	2,600 (46)	3,410 (49.5)	3,920 (51.5)	3,900 (53.5)	5,610 (59)	7,020 (62.5)
120	1,830 (43.5)	2,550 (46.5)	2,990 (48.5)	3,160 (51.5)	4,710 (57)	5,930 (60.5)
125	1,130 (41)	1,770 (44)	2,140 (45.5)	2,480 (49.5)	3,880 (54.5)	4,930 (58)
130		1,060 (41)	1,360 (42.5)	1,860 (47.5)	3,130 (52.5)	4,010 (55.5)
135				1,290 (45)	2,440 (50.5)	3,170 (53.5)
140					1,800 (48)	2,390 (50.5)
145					1,200 (45.5)	1,670 (48)
150						1,000 (45)
0.1A (lb.)	1,640	1,540	1,490	1,510	1,410	1,340
Min. boom angle for indicated length (no load)	35°	34°	40°	40°	40°	40°
Max. boom length at 0° boom angle (no load)	86 ft.			72 ft.		

NOTES:

1. All capacities above the bold line are based on structural strength of boom extension.
2. 36 ft. boom extension may be used for single or double line lifting service. 59 ft. boom extension may be used for single line lifting service only.

WARNING: Lifting with the 36 ft. extension base, with the 23 ft. extension fly either erected or folded along side of extension base, is strictly prohibited.

3. Radii listed are for a 130 ft. boom with the boom extension erected. For main boom lengths less than 130 ft., 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 configured. For boom angles not shown, use the 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.

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.

NOTE: () Boom angles are in degrees.

A6-829-102128

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

*This capacity is based on maximum obtainable boom angle.

**36 FT. - 59 FT. FOLDING BOOM EXTENSION
WITH 40,000 lb COUNTERWEIGHT & 160 FT. MAIN BOOM
ON OUTRIGGERS 50% EXTENDED (19 ft. 9 in. spread) - 360°**

Radius in Feet	36 ft. LENGTH			59 ft. LENGTH		
	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
	#4021	#4022	#4023	#4041	#4042	#4043
45	16,000 (78)					
50	16,000 (77.5)					
55	15,900 (76)			10,100 (78)		
60	15,850 (74)	15,700 (77.5)		10,100 (77)		
65	15,800 (72.5)	15,700 (76)	*15,200 (78)	10,100 (75.5)		
70	15,750 (71)	15,000 (74.5)	14,750 (77)	10,100 (74)	10,050 (78)	
75	13,600 (69.5)	14,300 (73)	14,100 (75.5)	10,100 (73)	10,050 (77.5)	
80	11,700 (68)	13,600 (71)	13,450 (74)	10,100 (71.5)	10,050 (76)	
85	10,050 (66)	12,000 (69.5)	12,050 (72)	10,100 (70)	10,050 (74.5)	8,600 (78)
90	8,610 (64.5)	10,500 (68)	10,450 (70.5)	9,880 (68.5)	9,870 (73)	8,500 (77.5)
95	7,330 (63)	9,140 (66)	9,070 (68.5)	8,670 (67)	9,680 (72)	8,400 (75.5)
100	6,190 (61)	7,810 (64.5)	7,820 (67)	7,570 (65.5)	9,450 (70)	8,310 (74)
105	5,170 (59.5)	6,620 (62.5)	6,690 (65)	6,580 (64)	8,440 (68.5)	8,220 (72.5)
110	4,260 (57.5)	5,550 (61)	5,680 (63)	5,680 (62.5)	7,420 (67)	8,140 (71)
115	3,430 (55.5)	4,580 (59)	4,770 (61)	4,840 (61)	6,480 (65.5)	7,810 (69.5)
120	2,670 (53.5)	3,700 (57)	3,940 (59)	4,040 (59.5)	5,620 (64)	6,800 (67.5)
125	1,990 (52)	2,890 (55)	3,180 (57)	3,300 (57.5)	4,830 (62.5)	5,810 (66)
130	1,350 (49.5)	2,160 (53)	2,480 (55)	2,630 (56)	4,030 (60.5)	4,910 (64)
135		1,480 (51)	1,840 (53)	2,000 (54.5)	3,280 (59)	4,070 (62.5)
140			1,250 (50.5)	1,430 (52.5)	2,580 (57)	3,310 (60.5)
145					1,930 (55.5)	2,600 (58.5)
150					1,330 (53.5)	1,940 (56.5)
155						1,320 (54.5)
0.1A (lb.)	1,550	1,460	1,450	1,460	1,360	1,360
Min. boom angle (°) for indicated length (no load)	46	46	46	50	50	50
Max. boom length (ft.) at 0° boom angle (no load)		86			72	

NOTES:

1. All capacities above the bold line are based on structural strength of boom extension.
2. 36 ft. boom extension may be used for single or double line lifting service. 59 ft. boom extension may be used for single line lifting service only.

WARNING: Lifting with the 36 ft. extension base, with the 23 ft. extension fly either erected or folded along side of extension base, is strictly prohibited.

3. Radii listed are for a 160 ft. boom with the boom extension erected. For main boom lengths less than 160 ft., 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 configured. For boom angles not shown, use the 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.

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.

NOTE: () Boom angles are in degrees.

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

*This capacity is based on maximum obtainable boom angle.

A6-829-102141

ON RUBBER CAPACITIES WITH 40,000 lb COUNTERWEIGHT

PICK & CARRY CAPACITY BOOM CENTERED OVER FRONT UP TO 2.5 MPH (See note 7)

Radius in Feet	#9006 (40k cwt) or #9106 (24k cwt)			
	Main Boom Length in Feet			
	42	57	72	86
10	61,750 (71.5)			
12	61,750 (68.5)			
15	49,000 (63.5)	34,600 (71.5)		
20	34,750 (55.5)	34,600 (65.5)		
25	34,750 (46)	34,600 (60)		
30	29,250 (34)	28,150 (53.5)	28,300 (62.5)	
35	23,400 (13)	22,350 (46.5)	22,500 (58)	24,100 (64.5)
40		17,750 (38.5)	17,800 (52.5)	19,250 (60.5)
45		14,000 (28)	13,950 (47)	15,200 (56.5)
50		10,950 (7.5)	10,800 (41)	11,850 (52.5)
55			8,150 (34)	9,020 (47.5)
60			5,880 (24.5)	6,600 (42.5)
65				4,520 (37)
70				2,700 (30.5)
75				1,110 (22)
Min. boom angle (deg.) for indicated length (no load)			0	20
Max. boom length (ft.) at 0° boom angle (no load)			72	

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

Note: () Boom angles are in degrees.

Lifting Capacities at Zero Degree Boom Angle				
Boom Angle	Main Boom Length in Feet			
	42	57		
0°	23,000 (35.3)	10,900 (50)		

Note: () Reference radii in feet.

A6-829-102108A

- Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J765.
- Capacities are applicable to machines equipped with 33.25x29 (38 ply) bias ply tires, at 85 psi cold inflation pressure.
- Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
- Capacities are applicable only with machine on firm level surface.
- On rubber lifting with boom extension not permitted.
- Axle lockouts must be functioning when lifting on rubber.
- For pick and carry operation, boom must be centered over front of machine, mechanical swing lock engaged and load restrained from swinging. When handling loads in the structural range with capacities close to maximum ratings, travel should be reduced to creep speeds.
- 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.
- Creep - not over 200 ft. of movement in any 30 minute period and not exceeding 1 mph.

**RATED LIFTING CAPACITIES IN POUNDS WITH 24,000 lb COUNTERWEIGHT
42 FT. - 160 FT. BOOM**

ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet	#0101								
	Main Boom Length in Feet								
	42	57	72	86	100	115	130	145	160
10	+250,000 (71.5)	147,000 (76.5)							
12	209,000 (68.5)	147,000 (74.5)	*127,000 (78)						
15	164,000 (63.5)	147,000 (71.5)	127,000 (76)	*92,600 (78)					
20	117,500 (55.5)	115,500 (65.5)	115,500 (71.5)	86,550 (75.5)	*65,000 (78)				
25	88,800 (46)	87,050 (60)	86,800 (67)	78,900 (72)	62,650 (75)	44,600 (78)			
30	69,850 (34)	68,250 (53.5)	68,000 (62.5)	68,450 (68.5)	56,800 (72)	44,600 (75.5)	43,150 (78)		
35		54,950 (46.5)	54,800 (58)	55,200 (64.5)	50,050 (69)	44,600 (73)	42,200 (76)	32,550 (78)	
40		45,100 (38.5)	44,950 (52.5)	45,350 (60.5)	44,050 (66)	41,400 (70)	38,000 (73.5)	32,550 (76)	25,100 (78)
45		37,450 (28)	37,300 (47)	37,750 (56.5)	37,450 (62.5)	37,450 (67.5)	34,150 (71)	32,550 (74)	24,800 (76.5)
50			31,250 (41)	31,700 (52.5)	31,450 (59)	33,350 (64.5)	31,350 (68.5)	29,550 (71.5)	24,500 (74.5)
55	See Note 16		26,300 (34)	26,750 (47.5)	26,500 (55.5)	28,400 (61.5)	29,200 (66)	26,850 (69.5)	24,000 (72.5)
60			22,150 (24.5)	22,650 (42.5)	22,400 (52)	24,300 (58.5)	25,750 (63.5)	24,700 (67.5)	23,200 (70.5)
65				19,200 (37)	18,950 (48)	20,850 (55.5)	22,300 (61)	22,950 (65)	21,100 (68.5)
70				16,250 (30.5)	16,000 (44)	17,900 (52.5)	19,350 (58.5)	20,500 (62.5)	19,200 (66.5)
75				13,650 (22)	13,450 (39)	15,350 (49)	16,800 (55.5)	17,950 (60.5)	17,500 (64.5)
80					11,100 (34)	12,950 (45.5)	14,550 (52.5)	15,700 (58)	15,750 (62.5)
85					9,010 (28)	10,850 (41.5)	12,600 (49.5)	13,650 (55.5)	14,300 (60)
90					7,190 (19.5)	9,030 (37)	10,800 (46.5)	11,800 (53)	12,550 (58)
95						7,410 (32)	9,210 (43)	10,200 (50)	10,950 (55.5)
100						5,980 (26.5)	7,760 (39.5)	8,800 (47)	9,530 (53)
105						4,710 (18.5)	6,460 (35.5)	7,520 (44)	8,260 (50.5)
110							5,310 (30.5)	6,350 (41)	7,130 (48)
115							4,260 (25)	5,300 (37.5)	6,100 (45.5)
120							3,320 (17.5)	4,340 (33.5)	5,150 (42.5)
125								3,470 (29.5)	4,280 (39.5)
130								2,680 (24)	3,490 (36)
135								1,950 (16.5)	2,760 (32.5)
140									2,090 (28)
Minimum boom angle (deg) for indicated length (no load)									23
Maximum boom length (ft.) at 0 deg. boom angle (no load)									145

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

*This capacity is based upon maximum obtainable boom angle.

Note: () Boom angles are in degrees

+16 parts line required to lift this capacity (using aux. boom nose) Refer to Operator's & Safety Handbook for reeving diagram.

Boom Angle	Lifting Capacities at Zero Degree Boom Angle								
	Main Boom Length in Feet								
	42	57	72	86	100	115	130	145	160
0°	41,400 (35.3)	24,650 (50)	15,350 (64.6)	9,700 (79.3)	5,250 (94)	3,650 (108.6)	2,450 (123.3)	1,450 (138)	

Note: () Reference radii in feet.

A6-829-103578

**36 FT. - 59 FT. FOLDING BOOM EXTENSION
WITH 24,000 lb COUNTERWEIGHT & 100 FT. MAIN BOOM
ON OUTRIGGERS FULLY EXTENDED - 360°**

Radius in Feet	36 ft. LENGTH			59 ft. LENGTH		
	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
	#0121	#0122	#0123	#0141	#0142	#0143
25	*33,600 (78)					
30	33,600 (76.5)			*14,950 (78)		
35	32,950 (74.5)	*23,150 (78)		14,950 (77.5)		
40	31,050 (72)	22,150 (76.5)		14,950 (76)		
45	29,250 (70)	21,250 (74)	17,250 (78)	14,950 (74)		
50	27,600 (67.5)	20,450 (72)	16,850 (75.5)	14,950 (72)	12,350 (78)	
55	26,150 (65)	19,700 (69.5)	16,500 (73)	14,950 (70)	11,900 (77)	
60	24,750 (63)	19,050 (67)	16,150 (70.5)	14,800 (68)	11,500 (75)	
65	23,050 (60.5)	18,450 (65)	15,900 (68)	14,300 (66)	11,100 (73)	9,210 (78)
70	20,150 (58)	17,850 (62)	15,650 (65.5)	13,650 (64)	10,700 (71)	9,000 (76)
75	17,600 (55.5)	17,350 (59.5)	15,450 (63)	13,100 (62)	10,400 (69)	8,820 (73.5)
80	15,400 (52.5)	16,900 (57)	15,250 (60)	12,550 (60)	10,050 (66.5)	8,650 (71.5)
85	13,350 (50)	14,650 (54)	15,150 (57)	12,000 (58)	9,780 (64.5)	8,490 (69)
90	11,500 (47)	12,650 (51.5)	13,650 (54)	11,550 (55.5)	9,510 (62.5)	8,360 (66.5)
95	9,920 (44)	10,900 (48)	11,650 (50.5)	11,100 (53)	9,260 (60)	8,240 (64)
100	8,500 (40.5)	9,380 (45)	9,950 (47)	10,650 (51)	9,030 (57.5)	8,130 (61.5)
105	7,230 (37)	8,000 (41.5)		9,480 (48.5)	8,820 (55)	8,050 (59)
110	6,100 (33.5)	6,760 (37.5)		8,300 (46)	8,620 (52.5)	7,980 (56)
115	5,080 (29)	5,650 (33)		7,230 (43)	8,160 (49.5)	7,950 (53)
120	4,160 (24)	4,630 (28)		6,260 (40.5)	7,560 (47)	7,920 (50)
125				5,380 (37)	6,510 (43.5)	7,080 (46.5)
130				4,580 (34)	5,560 (40.5)	6,040 (42.5)
135				3,840 (30.5)	4,690 (36.5)	
140				3,160 (26)	3,880 (32)	
145				2,530 (21)		
150				1,950 (14)		
Min. boom angle for indicated length (no load)	0°	20°	40°	0°	20°	40°
Max. boom length at 0° boom angle (no load)	100 ft.			100 ft.		

NOTES:

1. All capacities above the bold line are based on structural strength of boom extension.
2. 36 ft. boom extension may be used for single or double line lifting service. 59 ft. boom extension may be used for single line lifting service only.

WARNING: Lifting with the 36 ft. extension base, with the 23 ft. extension fly either erected or folded along side of extension base, is strictly prohibited.

3. Radii listed are for a 100 ft. boom with the boom extension erected. For main boom lengths less than 100 ft., 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 configured. For boom angles not shown, use the 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.

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.

NOTE: () Boom angles are in degrees. A6-829-102111
 #LMI operating code. Refer to LMI manual for operating instructions
 *This capacity is based on maximum obtainable boom angle.

**36 FT. - 59 FT. FOLDING BOOM EXTENSION
WITH 24,000 lb COUNTERWEIGHT & 130 FT. MAIN BOOM
ON OUTRIGGERS FULLY EXTENDED - 360°**

Radius in Feet	36 ft. LENGTH			59 ft. LENGTH		
	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
	#0121	#0122	#0123	#0141	#0142	#0143
35	23,350 (78)					
40	23,350 (77)			12,300 (78)		
45	23,350 (75)	*21,300 (78)		12,300 (77.5)		
50	23,350 (73.5)	20,700 (76.5)		12,300 (76)		
55	23,350 (71.5)	20,100 (75)	16,600 (78)	12,300 (74.5)		
60	23,350 (69.5)	19,500 (73)	16,350 (76)	12,300 (73)	11,600 (78)	
65	22,300 (67.5)	19,000 (71)	16,100 (74)	12,300 (71.5)	11,300 (77)	
70	20,350 (66)	18,500 (69)	15,850 (72)	12,300 (69.5)	10,950 (75)	
75	18,350 (64)	18,050 (67)	15,650 (70)	12,300 (68)	10,700 (73.5)	8,940 (78)
80	16,600 (62)	17,100 (65)	15,500 (68)	12,300 (66.5)	10,400 (72)	8,790 (76)
85	14,950 (60)	15,550 (63)	15,300 (66)	12,300 (64.5)	10,150 (70)	8,650 (74.5)
90	13,050 (57.5)	14,150 (61)	14,500 (63.5)	12,300 (63)	9,910 (68.5)	8,520 (72.5)
95	11,400 (55.5)	12,700 (58.5)	13,250 (61.5)	11,900 (61)	9,680 (66.5)	8,410 (70.5)
100	9,970 (53.5)	11,100 (56.5)	11,950 (59)	11,450 (59)	9,460 (64.5)	8,300 (68.5)
105	8,670 (51)	9,710 (54)	10,350 (56.5)	10,300 (57.5)	9,260 (63)	8,210 (66.5)
110	7,510 (48.5)	8,440 (52)	9,000 (54)	9,120 (55.5)	9,060 (61)	8,120 (64.5)
115	6,460 (46)	7,290 (49.5)	7,740 (51.5)	8,010 (53.5)	8,860 (59)	8,050 (62.5)
120	5,510 (43.5)	6,250 (46.5)	6,600 (48.5)	7,010 (51.5)	8,600 (57)	7,990 (60.5)
125	4,640 (41)	5,300 (44)	5,570 (45.5)	6,100 (49.5)	7,560 (54.5)	7,820 (58)
130	3,850 (38)	4,430 (41)	4,620 (42.5)	5,260 (47.5)	6,600 (52.5)	7,450 (55.5)
135	3,130 (34.5)	3,640 (37.5)		4,490 (45)	5,730 (50.5)	6,440 (53.5)
140	2,460 (31)	2,910 (34)		3,790 (42.5)	4,920 (48)	5,520 (50.5)
145	1,840 (27.5)	2,230 (30)		3,140 (40)	4,180 (45.5)	4,660 (48)
150	1,270 (22.5)	1,610 (25.5)		2,530 (37.5)	3,490 (42.5)	3,860 (45)
155				1,970 (35)	2,850 (40)	
160				1,450 (31.5)	2,260 (36.5)	
165					1,700 (33)	
170					1,180 (29)	
Min boom angle for indicated length (no load)	21°	20°	40°	29°	28°	40°
Max boom length at 0° boom angle (no load)	100 ft.			100 ft.		

NOTES:

1. All capacities above the bold line are based on structural strength of boom extension.
2. 36 ft. boom extension may be used for single or double line lifting service. 59 ft. boom extension may be used for single line lifting service only.

WARNING: Lifting with the 36 ft. extension base, with the 23 ft. extension fly either erected or folded along side of extension base, is strictly prohibited.

3. Radii listed are for a 130 ft. boom with the boom extension erected. For main boom lengths less than 130 ft., 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 configured. For boom angles not shown, use the 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.

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.

NOTE: () Boom angles are in degrees.
#LMI operating code Refer to LMI manual for operating instructions.
*This capacity is based on maximum obtainable boom angle.

A6-829-102129

**36 FT. - 59 FT. FOLDING BOOM EXTENSION
WITH 24,000 lb COUNTERWEIGHT & 160 FT. MAIN BOOM
ON OUTRIGGERS FULLY EXTENDED - 360°**

Radius in Feet	36 ft. LENGTH			59 ft. LENGTH		
	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
	#0121	#0122	#0123	#0141	#0142	#0143
45	16,000 (78)					
50	16,000 (77.5)					
55	15,900 (76)			10,100 (78)		
60	15,850 (74)	15,700 (77.5)		10,100 (77)		
65	15,800 (72.5)	15,700 (76)	*15,200 (78)	10,100 (75.5)		
70	15,750 (71)	15,000 (74.5)	14,750 (77)	10,100 (74)	10,050 (78)	
75	14,950 (69.5)	14,300 (73)	14,100 (75.5)	10,100 (73)	10,050 (77.5)	
80	14,200 (68)	13,600 (71)	13,450 (74)	10,100 (71.5)	10,050 (76)	
85	13,450 (66)	12,950 (69.5)	12,850 (72)	10,100 (70)	10,050 (74.5)	8,600 (78)
90	12,800 (64.5)	12,350 (68)	12,250 (70.5)	10,100 (68.5)	9,870 (73)	8,500 (77.5)
95	11,700 (63)	11,750 (66)	11,700 (68.5)	10,100 (67)	9,680 (72)	8,400 (75.5)
100	10,650 (61)	11,200 (64.5)	11,200 (67)	9,710 (65.5)	9,450 (70)	8,310 (74)
105	9,620 (59.5)	10,250 (62.5)	10,400 (65)	9,280 (64)	9,050 (68.5)	8,220 (72.5)
110	8,450 (57.5)	9,310 (61)	9,680 (63)	8,850 (62.5)	8,650 (67)	8,140 (71)
115	7,370 (55.5)	8,430 (59)	8,840 (61)	8,110 (61)	8,280 (65.5)	7,920 (69.5)
120	6,380 (53.5)	7,420 (57)	8,010 (59)	7,370 (59.5)	7,920 (64)	7,700 (67.5)
125	5,490 (52)	6,440 (55)	6,990 (57)	6,590 (57.5)	7,360 (62.5)	7,440 (66)
130	4,680 (49.5)	5,540 (53)	6,060 (55)	5,820 (56)	6,810 (60.5)	7,190 (64)
135	3,930 (47.5)	4,710 (51)	5,210 (53)	5,100 (54.5)	6,210 (59)	6,630 (62.5)
140	3,240 (45.5)	3,950 (49)	4,420 (50.5)	4,380 (52.5)	5,610 (57)	6,080 (60.5)
145	2,600 (43)	3,250 (46.5)	3,700 (48)	3,760 (50.5)	4,910 (55.5)	5,500 (58.5)
150	2,010 (41)	2,600 (44)	3,030 (45.5)	3,130 (49)	4,210 (53.5)	4,800 (56.5)
155	1,460 (38.5)	2,000 (41.5)	2,400 (43)	2,540 (47)	3,590 (51.5)	4,060 (54.5)
160		1,440 (38.5)		2,000 (45)	2,970 (49.5)	3,370 (52)
165				1,490 (43)	2,410 (47.5)	2,720 (50)
170					1,870 (45)	2,120 (47.5)
175						1,560 (45)
Min. boom angle (°) for indicated length (no load)	36	36	40	42	43	43
Max. boom length (ft.) at 0° boom angle (no load)	100			100		

NOTE: () Boom angles are in degrees.
#LMI operating code. Refer to LMI manual for operating instructions.
*This capacity is based on maximum obtainable boom angle.

A6-829-101981A

NOTES:

1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J765.
2. 36 ft. boom extension may be used for single or double line lifting service. 59 ft. boom extension may be used for single line lifting service only.

WARNING: Lifting with the 36 ft. extension base, with the 23 ft. extension fly either erected or folded along side of extension base, is strictly prohibited.

3. Radii listed are for a 160 ft. boom with the boom extension erected. For main boom lengths less than 160 ft., 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 configured. For boom angles not shown, use the 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.

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.

**59 FT. FOLDING BOOM EXTENSION WITH ONE (26') OR TWO (52') INSERT(S)
WITH 24,000 lb COUNTERWEIGHT & 160 FT. MAIN BOOM
ON OUTRIGGERS FULLY EXTENDED - 360°**

Radius in Feet	59 ft. LENGTH WITH 26 FT. INSERT			59 ft. LENGTH WITH 52 FT. INSERT		
	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
	#0184	#0185	#0186	#0184	#0185	#0186
60	7,070 (78)					
65	7,070 (77.5)					
70	7,070 (76.5)			4,400 (78)		
75	7,070 (75)			4,400 (77.5)		
80	7,070 (74)	6,610 (78)		4,400 (76.5)		
85	7,070 (72.5)	6,610 (77.5)		4,400 (75.5)		
90	7,070 (71.5)	6,610 (76)		4,400 (74.5)	4,230 (78)	
95	7,070 (70)	6,610 (75)	6,400 (78)	4,400 (73)	4,230 (77.5)	
100	7,070 (69)	6,610 (73.5)	6,400 (77)	4,400 (72)	4,230 (76.5)	
105	7,070 (67.5)	6,610 (72.5)	6,400 (76)	4,400 (71)	4,230 (75.5)	4,000 (78)
110	7,070 (66)	6,610 (71)	6,400 (74.5)	4,400 (69.5)	4,230 (74)	4,000 (77)
115	6,735 (65)	6,545 (69.5)	6,315 (73)	4,400 (68.5)	4,230 (73)	4,000 (75.5)
120	6,400 (63.5)	6,480 (68)	6,230 (71.5)	4,400 (67.5)	4,230 (72)	4,000 (74.5)
125	5,940 (62)	6,170 (67)	5,955 (70)	4,400 (66)	4,230 (70.5)	4,000 (73)
130	5,480 (60.5)	5,860 (65.5)	5,680 (68.5)	4,400 (65)	4,230 (69.5)	4,000 (72)
135	4,930 (59.5)	5,510 (64)	5,440 (67)	4,110 (63.5)	4,195 (68)	4,000 (70.5)
140	4,380 (58)	5,160 (62.5)	5,200 (65.5)	3,820 (62.5)	4,160 (67)	4,000 (69)
145	3,900 (56.5)	4,645 (61)	4,910 (64)	3,350 (61)	3,885 (65.5)	3,785 (68)
150	3,420 (55)	4,130 (59.5)	4,620 (62.5)	2,880 (60)	3,610 (64)	3,570 (66.5)
155	2,895 (53.5)	3,680 (58)	4,140 (60.5)	2,470 (58.5)	3,205 (63)	3,365 (65)
160	2,370 (51.5)	3,230 (56.5)	3,660 (59)	2,060 (57)	2,800 (61.5)	3,160 (63.5)
165	1,890 (50)	2,775 (54.5)	3,220 (57.5)	1,690 (56)	2,405 (60)	2,810 (62.5)
170		2,320 (53)	2,780 (55.5)		2,010 (59)	2,460 (61)
175		1,830 (51)	2,290 (53.5)		1,655 (57.5)	2,075 (59.5)
180						1,690 (58)
Min. boom angle (°) for indicated length (no load)	48	49	51	54	56	56
Max. boom length (ft.) at 0° boom angle (no load)	57			57		

NOTE () Boom angles are in degrees.
#LMI operating code. Refer to LMI manual for operating instructions.

A6-829-101984A

1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765.
2. 59 ft. folding boom extension length may be used for single line lifting service only.
NOTE: Lifting with 36 ft. extension base with either one or two 26 ft. insert sections installed is not permitted.
3. For main boom lengths less than 160 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.
4. **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.
5. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
6. Capacities listed are with outriggers properly extended and vertical jacks set only.

**RATED LIFTING CAPACITIES IN POUNDS WITH 24,000 lb COUNTERWEIGHT
42 FT. - 160 FT. BOOM**

ON OUTRIGGERS 50% EXTENDED (19 ft. 9 in. spread) - 360°

Radius in Feet	#4101								
	Main Boom Length in Feet								
	42	57	72	86	100	115	130	145	160
10	+237,500 (71.5)	147,000 (76.5)							
12	209,000 (68.5)	147,000 (74.5)	*127,000 (78)						
15	164,000 (63.5)	147,000 (71.5)	127,000 (76)	*92,600 (78)					
20	117,500 (55.5)	110,000 (65.5)	101,500 (71.5)	86,550 (75.5)	*65,000 (78)				
25	76,750 (46)	74,400 (60)	70,750 (67)	67,350 (72)	62,650 (75)	44,600 (78)			
30	53,400 (34)	51,600 (53.5)	50,650 (62.5)	50,200 (68.5)	47,450 (72)	44,600 (75.5)	43,150 (78)		
35		37,600 (46.5)	37,050 (58)	38,000 (64.5)	36,600 (69)	37,400 (73)	37,750 (76)	32,550 (78)	
40		28,250 (38.5)	27,900 (52.5)	28,700 (60.5)	28,500 (66)	29,850 (70)	30,450 (73.5)	30,750 (76)	25,100 (78)
45		21,600 (28)	21,200 (47)	22,050 (56.5)	21,800 (62.5)	23,550 (67.5)	24,850 (71)	25,350 (74)	24,800 (76.5)
50	See Note 16		16,250 (41)	17,000 (52.5)	16,800 (59)	18,500 (64.5)	20,200 (68.5)	21,000 (71.5)	21,450 (74.5)
55			12,350 (34)	13,000 (47.5)	12,900 (55.5)	14,600 (61.5)	16,250 (66)	17,050 (69.5)	17,850 (72.5)
60			9,240 (24.5)	9,850 (42.5)	9,720 (52)	11,450 (58.5)	13,050 (63.5)	13,900 (67.5)	14,700 (70.5)
65				7,240 (37)	7,100 (48)	8,860 (55.5)	10,450 (61)	11,300 (65)	12,100 (68.5)
70				5,060 (30.5)	4,910 (44)	6,650 (52.5)	8,290 (58.5)	9,140 (62.5)	9,980 (66.5)
75				3,220 (22)	3,060 (39)	4,770 (49)	6,430 (55.5)	7,310 (60.5)	8,160 (64.5)
80					1,470 (34)	3,170 (45.5)	4,810 (52.5)	5,740 (58)	6,600 (62.5)
85						1,780 (41.5)	3,400 (49.5)	4,360 (55.5)	5,240 (60)
90							2,170 (46.5)	3,130 (53)	4,060 (58)
95							1,090 (43)	2,050 (50)	2,980 (55.5)
100								1,090 (47)	2,030 (53)
105									1,170 (50.5)
0.1A (lb.)	1,850	2,020	2,070	2,040	2,080	1,910	1,790	1,690	1,600
Minimum boom angle (deg.) for indicated length (no load)					28	32	40	43	46
Maximum boom length (ft.) at 0 deg. boom angle (no load)					86				

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

*This capacity is based upon maximum obtainable boom angle.

Note: () Boom angles are in degrees.

+16 parts line required to lift this capacity (using aux. boom nose). Refer to Operator's & Safety Handbook for reeving diagram.

Lifting Capacities at Zero Degree Boom Angle									
Boom Angle	Main Boom Length in Feet								
	42	57	72	86					
0°	38,600 (35.3)	16,500 (50)	6,850 (64.6)	1,840 (79.3)					

Note: () Reference radii in feet.

A6-829-103579

**36 FT. - 59 FT. FOLDING BOOM EXTENSION
WITH 24,000 lb COUNTERWEIGHT & 100 FT. MAIN BOOM
ON OUTRIGGERS 50% EXTENDED (19 ft. 9 in. spread) - 360°**

Radius in Feet	36 ft. LENGTH			59 ft. LENGTH		
	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
	#4121	#4122	#4123	#4141	#4142	#4143
25	*33,600 (78)					
30	33,600 (76.5)			*14,950 (78)		
35	32,950 (74.5)	*23,150 (78)		14,950 (77.5)		
40	30,350 (72)	22,150 (76.5)		14,950 (76)		
45	24,900 (70)	21,250 (74)	17,250 (78)	14,950 (74)		
50	20,550 (67.5)	20,450 (72)	16,850 (75.5)	14,950 (72)	12,350 (78)	
55	17,050 (65)	19,700 (69.5)	16,500 (73)	14,950 (70)	11,900 (77)	
60	13,850 (63)	16,150 (67)	16,150 (70.5)	14,800 (68)	11,500 (75)	
65	11,200 (60.5)	13,200 (65)	15,150 (68)	13,350 (66)	11,100 (73)	9,210 (78)
70	9,040 (58)	10,800 (62)	12,450 (65.5)	11,150 (64)	10,700 (71)	9,000 (76)
75	7,190 (55.5)	8,740 (59.5)	10,150 (63)	9,270 (62)	10,400 (69)	8,820 (73.5)
80	5,600 (52.5)	6,970 (57)	8,200 (60)	7,660 (60)	10,050 (66.5)	8,650 (71.5)
85	4,220 (50)	5,440 (54)	6,490 (57)	6,260 (58)	8,550 (64.5)	8,490 (69)
90	3,010 (47)	4,090 (51.5)	5,000 (54)	5,040 (55.5)	7,100 (62.5)	8,360 (66.5)
95	1,940 (44)	2,910 (48)	3,680 (50.5)	3,960 (53)	5,830 (60)	7,320 (64)
100	1,000 (40.5)	1,860 (45)	2,500 (47)	3,000 (51)	4,690 (57.5)	6,000 (61.5)
105				2,140 (48.5)	3,680 (55)	4,810 (59)
110				1,360 (46)	2,770 (52.5)	3,740 (56)
115					1,940 (49.5)	2,770 (53)
120					1,190 (47)	1,890 (50)
125						1,090 (46.5)
0.1A (lb.)	1,760	1,640	1,540	1,580	1,450	1,380
Min. boom angle for indicated length (no load)	34°	38°	40°	41°	41°	43°
Max boom length at 0° boom angle (no load)	72 ft.			57 ft.		

NOTES:

1. All capacities above the bold line are based on structural strength of boom extension.
2. 36 ft. boom extension may be used for single or double line lifting service. 59 ft. boom extension may be used for single line lifting service only.

WARNING: Lifting with the 36 ft. extension base, with the 23 ft. extension fly either erected or folded along side of extension base, is strictly prohibited.

3. Radii listed are for a 100 ft. boom with the boom extension erected. For main boom lengths less than 100 ft., 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 configured. For boom angles not shown, use the 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.

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.

NOTE: () Boom angles are in degrees.

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

*This capacity is based on maximum obtainable boom angle.

A6-829-102112

**36 FT. - 59 FT. FOLDING BOOM EXTENSION
WITH 24,000 lb COUNTERWEIGHT & 130 FT. MAIN BOOM
ON OUTRIGGERS 50% EXTENDED (19 ft. 9 in. spread) - 360°**

Radius in Feet	36 ft. LENGTH			59 ft. LENGTH		
	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
	#4121	#4122	#4123	#4141	#4142	#4143
35	23,350 (78)					
40	23,350 (77)			12,300 (78)		
45	23,350 (75)	*21,300 (78)		12,300 (77.5)		
50	20,950 (73.5)	20,700 (76.5)		12,300 (76)		
55	17,600 (71.5)	20,100 (75)	16,600 (78)	12,300 (74.5)		
60	14,850 (69.5)	17,250 (73)	16,350 (76)	12,300 (73)	11,600 (78)	
65	12,500 (67.5)	14,500 (71)	16,100 (74)	12,300 (71.5)	11,300 (77)	
70	10,350 (66)	12,100 (69)	14,150 (72)	11,600 (69.5)	10,950 (75)	
75	8,500 (64)	10,100 (67)	12,100 (70)	9,920 (68)	10,700 (73.5)	8,940 (78)
80	6,900 (62)	8,390 (65)	10,100 (68)	8,420 (66.5)	10,400 (72)	8,790 (76)
85	5,520 (60)	6,890 (63)	8,350 (66)	7,100 (64.5)	9,590 (70)	8,650 (74.5)
90	4,310 (57.5)	5,570 (61)	6,810 (63.5)	5,930 (63)	8,230 (68.5)	8,520 (72.5)
95	3,250 (55.5)	4,410 (58.5)	5,450 (61.5)	4,880 (61)	7,010 (66.5)	8,410 (70.5)
100	2,300 (53.5)	3,380 (56.5)	4,250 (59)	3,940 (59)	5,910 (64.5)	7,120 (68.5)
105	1,450 (51)	2,460 (54)	3,170 (56.5)	3,020 (57.5)	4,910 (63)	5,960 (66.5)
110		1,630 (52)	2,190 (54)	2,180 (55.5)	3,960 (61)	4,920 (64.5)
115			1,310 (51.5)	1,430 (53.5)	3,070 (59)	3,980 (62.5)
120					2,260 (57)	3,120 (60.5)
125					1,520 (54.5)	2,330 (58)
130						1,610 (55.5)
0.1A (lb.)	1,640	1,540	1,490	1,510	1,410	1,340
Min. boom angle for indicated length (no load)	46°	47°	46°	50°	51°	51°
Max. boom length at 0° boom angle (no load)	72 ft.			57 ft.		

NOTES:

1. All capacities above the bold line are based on structural strength of boom extension.
2. 36 ft. boom extension may be used for single or double line lifting service. 59 ft. boom extension may be used for single line lifting service only.

WARNING: Lifting with the 36 ft. extension base, with the 23 ft. extension fly either erected or folded along side of extension base, is strictly prohibited.

3. Radii listed are for a 130 ft. boom with the boom extension erected. For main boom lengths less than 130 ft., 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 configured. For boom angles not shown, use the 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.

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.

NOTE: () Boom angles are in degrees.
#LMI operating code. Refer to LMI manual for operating instructions.
*This capacity is based on maximum obtainable boom angle.

A6-829-102130

**36 FT. - 59 FT. FOLDING BOOM EXTENSION
WITH 24,000 lb COUNTERWEIGHT & 160 FT. MAIN BOOM
ON OUTRIGGERS 50% EXTENDED (19 ft. 9 in. spread) - 360°**

Radius in Feet	36 ft. LENGTH			59 ft. LENGTH		
	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
	#4121	#4122	#4123	#4141	#4142	#4143
45	16,000 (78)					
50	16,000 (77.5)					
55	15,900 (76)			10,100 (78)		
60	15,100 (74)	15,700 (77.5)		10,100 (77)		
65	12,850 (72.5)	14,950 (76)	15,200 (78)	10,100 (75.5)		
70	10,900 (71)	12,800 (74.5)	14,450 (77)	10,100 (74)	10,050 (78)	
75	9,250 (69.5)	11,000 (73)	12,450 (75.5)	9,990 (73)	10,050 (77.5)	
80	7,790 (68)	9,410 (71)	10,750 (74)	8,540 (71.5)	10,050 (76)	
85	6,490 (66)	7,990 (69.5)	9,210 (72)	7,260 (70)	9,710 (74.5)	8,600 (78)
90	5,290 (64.5)	6,720 (68)	7,840 (70.5)	6,120 (68.5)	8,400 (73)	8,500 (77.5)
95	4,200 (63)	5,590 (66)	6,540 (68.5)	5,100 (67)	7,220 (72)	8,400 (75.5)
100	3,230 (61)	4,570 (64.5)	5,360 (67)	4,180 (65.5)	6,160 (70)	7,830 (74)
105	2,360 (59.5)	3,630 (62.5)	4,290 (65)	3,340 (64)	5,200 (68.5)	6,740 (72.5)
110	1,580 (57.5)	2,730 (61)	3,340 (63)	2,560 (62.5)	4,320 (67)	5,740 (71)
115		1,910 (59)	2,470 (61)	1,850 (61)	3,510 (65.5)	4,820 (69.5)
120		1,170 (57)	1,690 (59)	1,200 (59.5)	2,770 (64)	3,980 (67.5)
125					2,090 (62.5)	3,200 (66)
130					1,450 (60.5)	2,470 (64)
135						1,790 (62.5)
140						1,160 (60.5)
0.1A (lb.)	1,550	1,460	1,450	1,460	1,360	1,360
Min. boom angle (°) for indicated length (no load)	54	55	55	57	58	58
Max. boom length (ft.) at 0° boom angle (no load)	72			57		

NOTES:

- All capacities above the bold line are based on structural strength of boom extension.
- 36 ft. boom extension may be used for single or double line lifting service. 59 ft. boom extension length may be used for single line lifting service only.

WARNING: Lifting with the 36 ft. extension base, with the 23 ft. extension fly either erected or folded along side of extension base, is strictly prohibited.
- Radii listed are for a 160 ft. boom with the boom extension erected. For main boom lengths less than 160 ft., 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 configured. For boom angles not shown, use the 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.

NOTE: () Boom angles are in degrees.

A6-829-102142

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

*This capacity is based on maximum obtainable boom angle.

**RATED LIFTING CAPACITIES IN POUNDS WITH 24,000 lb COUNTERWEIGHT
42 FT. - 160 FT. BOOM**

ON OUTRIGGERS 0% EXTENDED (11 ft. 8 in. spread) - 360°

Radius in Feet	#8101								
	Main Boom Length in Feet								
	42	57	72	86	100	115	130	145	160
10	163,000 (71.5)	140,500 (76.5)							
12	122,500 (68.5)	107,500 (74.5)	*97,650 (78)						
15	87,500 (63.5)	77,750 (71.5)	71,500 (76)	*67,000 (78)					
20	53,700 (55.5)	50,200 (65.5)	46,700 (71.5)	44,400 (75.5)	*41,450 (78)				
25	35,100 (46)	33,800 (60)	31,250 (67)	31,100 (72)	29,100 (75)	29,800 (78)			
30	24,200 (34)	22,850 (53.5)	21,250 (62.5)	22,300 (68.5)	20,800 (72)	21,900 (75.5)	22,550 (78)		
35		15,650 (46.5)	14,550 (58)	15,800 (64.5)	14,850 (69)	16,200 (73)	17,050 (76)	17,600 (78)	
40		10,550 (38.5)	9,850 (52.5)	10,950 (60.5)	10,400 (66)	11,850 (70)	12,850 (73.5)	13,550 (76)	14,000 (78)
45		6,790 (28)	6,330 (47)	7,320 (56.5)	6,980 (62.5)	8,510 (67.5)	9,580 (71)	10,350 (74)	10,900 (76.5)
50	See Note 16		3,610 (41)	4,510 (52.5)	4,200 (59)	5,790 (64.5)	6,930 (68.5)	7,760 (71.5)	8,380 (74.5)
55			1,440 (34)	2,270 (47.5)	1,930 (55.5)	3,560 (61.5)	4,740 (66)	5,620 (69.5)	6,280 (72.5)
60						1,700 (58.5)	2,910 (63.5)	3,820 (67.5)	4,520 (70.5)
65							1,360 (61)	2,290 (65)	3,020 (68.5)
70									1,720 (66.5)
0.1A (lb.)	1,850	2,020	2,070	2,040	2,080	1,910	1,790	1,690	1,600
Minimum boom angle (deg.) for indicated length (no load)			25	43	52	55	58	61	63
Maximum boom length (ft.) at 0 deg. boom angle (no load)			57						

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

*This capacity is based upon maximum obtainable boom angle.

Note: () Boom angles are in degrees.

Lifting Capacities at Zero Degree Boom Angle									
Boom Angle	Main Boom Length in Feet								
	42	57							
0°	16,600 (35.3)	3,820 (50)							

Note: () Reference radii in feet.

A6-829-102098

ON RUBBER CAPACITIES WITH 24,000 lb COUNTERWEIGHT

**PICK & CARRY CAPACITY
BOOM CENTERED OVER FRONT
UP TO 2.5 MPH (See note 7)**

STATIONARY CAPACITY - 360°

Radius in Feet	#9105			
	Main Boom Length in Feet			
	42	57	72	86
10	61,750 (71.5)			
12	61,750 (68.5)			
15	49,000 (63.5)	34,600 (71.5)		
20	34,750 (55.5)	34,500 (65.5)	22,750 (71.5)	18,200 (75.5)
25	23,150 (46)	23,050 (60)	21,200 (67)	18,200 (72)
30	15,650 (34)	15,650 (53.5)	13,500 (62.5)	15,000 (68.5)
35	10,600 (13)	10,400 (46.5)	8,720 (58)	10,350 (64.5)
40		5,980 (38.5)	5,460 (52.5)	6,020 (60.5)
45		3,130 (28)	2,910 (47)	3,380 (56.5)
Min. boom angle (deg.) for indicated length (no load)		26	45	53
Max. boom length (ft.) at 0° boom angle (no load)		42		

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

Note: () Boom angles are in degrees.

Lifting Capacities at Zero Degree Boom Angle				
Boom Angle	Main Boom Length in Feet			
	42			
0°	10,250 (35.3)			

Note: () Reference radii in feet. A6-829-102107

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 33.25x29 (38 ply) bias ply tires, at 85 psi cold inflation pressure.
3. Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
4. Capacities are applicable only with machine on firm level surface.
5. On rubber lifting with boom extension not permitted.
6. Axle lockouts must be functioning when lifting on rubber.
7. For pick and carry operation, boom must be centered over front of machine, mechanical swing lock engaged and load restrained from swinging. When handling loads in the structural range with capacities close to maximum ratings, travel should be reduced to creep speeds.
8. 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.
9. Creep - not over 200 ft. of movement in any 30 minute period and not exceeding 1 mph.

RT9130E-2 - S/N 232215

Radius in Feet	#9006 (40k cwt) or #9106 (24k cwt)			
	Main Boom Length in Feet			
	42	57	72	86
10	61,750 (71.5)			
12	61,750 (68.5)			
15	49,000 (63.5)	34,600 (71.5)		
20	34,750 (55.5)	34,600 (65.5)		
25	34,750 (46)	34,600 (60)		
30	29,250 (34)	28,150 (53.5)	28,300 (62.5)	
35	23,400 (13)	22,350 (46.5)	22,500 (58)	24,100 (64.5)
40		17,750 (38.5)	17,800 (52.5)	19,250 (60.5)
45		14,000 (28)	13,950 (47)	15,200 (56.5)
50		10,950 (7.5)	10,800 (41)	11,850 (52.5)
55			8,150 (34)	9,020 (47.5)
60			5,880 (24.5)	6,600 (42.5)
65				4,520 (37)
70				2,700 (30.5)
75				1,110 (22)
Min. boom angle (deg.) for indicated length (no load)			0	20
Max. boom length (ft.) at 0° boom angle (no load)			72	

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

Note: () Boom angles are in degrees.

Lifting Capacities at Zero Degree Boom Angle				
Boom Angle	Main Boom Length in Feet			
	42	57		
0°	23,000 (35.3)	10,900 (50)		

Note: () Reference radii in feet. A6-829-102108A

TIRE INFLATION - PSI (BAR)

SIZE (FRONT & REAR)	TRA CODE	LIFTING SERVICE , GENERAL TRAVEL AND EXTENDED TRAVEL
		STATIC, CREEP & 2.5 MPH (4.0 km/h)
MICHELIN 29.5R29 XRB	—	90 (6.2)
33.25x29 (38)	E-3	85 (5.9) (SEE OPERATOR'S MANUAL FOR EXTENDED ROADING)