

GROVE®

**LOAD CHARTS
RT875**

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

**73837
SERIAL NUMBER**

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 and 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 the 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 or concrete bucket operation, weight of bucket 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 as 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 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 the 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, hazardous conditions, experience of personnel, two machine lifts, traveling with loads, electric wires, etc. Side pull on boom or jib is extremely dangerous.
11. If machine is equipped with individually controlled powered boom sections, the boom sections must be extended equally at all times.
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 36 ft. boom length shall be lifted with boom fully retracted. If boom is not fully retracted, capacities shall not exceed those shown for the 44 ft. boom length.
17. For boom lengths less than 114 ft. with power pinned fly extended, the rated loads are determined by boom angle in the column headed by 114 ft. boom (power fly extended). For boom angles not shown, use rating of next lower boom angle. For this load column, the extended power pinned operational mode is to be selected on the LMI.
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.

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.

RATED LIFTING CAPACITIES IN POUNDS 36 FT. - 114 FT. POWER PINNED BOOM

ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet	#0001 or #01								#0002 or #02
	Main Boom Length in Feet (Power Pinned Fly Retracted)								Power Pin. Fly Ext. & 88 ft.
	36	44	52	60	68	76	82	88	114
10	150,000 (67)	106,700 (71.5)	101,600 (74.5)	100,000 (77)	96,700 (79)				See Note 17
12	120,000 (63)	106,700 (68.5)	101,600 (72)	96,500 (75)	87,850 (77)	84,700 (78.5)			
15	103,450 (57.5)	103,450 (64)	95,300 (68.5)	84,900 (72)	79,180 (74.5)	77,550 (76)	70,250 (77.5)	64,500 (79)	
20	80,650 (47)	80,650 (56.5)	80,650 (62.5)	70,550 (66.5)	64,310 (70)	63,800 (72)	59,400 (74)	55,000 (75.5)	38,750 (80)
25	62,200 (34)	62,200 (48)	62,200 (55.5)	60,150 (61)	54,000 (65.5)	49,700 (67.5)	47,150 (70.5)	45,600 (72)	34,000 (77)
30		48,450 (38)	48,450 (48.5)	48,450 (55.5)	46,650 (60.5)	42,750 (63.5)	40,450 (66.5)	39,150 (68.5)	30,300 (74.5)
35		39,500 (24.5)	39,500 (40.5)	39,500 (49.5)	39,500 (55.5)	37,300 (58.5)	35,200 (62.5)	34,050 (65)	27,250 (71.5)
40	See Note 16		31,220 (30.5)	31,220 (42.5)	31,220 (50)	31,220 (54)	31,000 (58.5)	29,550 (61.5)	24,750 (69)
45			24,800 (14.5)	24,800 (34.5)	24,800 (44)	24,800 (49)	24,800 (54)	24,800 (57.5)	22,650 (66)
50				19,880 (24)	19,880 (37.5)	19,880 (43.5)	19,880 (49.5)	19,880 (53.5)	20,800 (63)
60					13,280 (17.5)	13,280 (30.5)	13,280 (39)	13,280 (44)	17,050 (57)
70							9,200 (24.5)	9,200 (33)	12,480 (50.5)
80								6,180 (14)	9,100 (43)
90									6,670 (34.5)
100									4,710 (23)
Minimum boom angle (deg.) for indicated length (no load)								0	0
Maximum boom length (ft.) at 0 deg. boom angle (no load)								88	114

Note: () Boom angles are in degrees.

A6-829-008400 & -004988

#LMI operating code. Two or four digit code depends on LMI system. Refer to LMI manual for instructions.

**RATED LIFTING CAPACITIES IN POUNDS
36 FT. - 114 FT. POWER PINNED BOOM**

ON OUTRIGGERS FULLY EXTENDED - OVER FRONT

Radius in Feet	#0001 or #01								#0002 or #02
	Main Boom Length in Feet (Power Pinned Fly Retracted)								Power Pin. Fly Ext. & 88 ft.
	36	44	52	60	68	76	82	88	114
10	150,000 (67)	106,700 (71.5)	101,600 (74.5)	100,000 (77)	96,700 (79)				See Note 17
12	120,000 (63)	106,700 (68.5)	101,600 (72)	96,500 (75)	87,850 (77)	84,700 (78.5)			
15	103,450 (57.5)	103,450 (64)	95,300 (68.5)	84,900 (72)	79,180 (74.5)	77,550 (76)	70,250 (77.5)	64,500 (79)	
20	80,650 (47)	80,650 (56.5)	80,650 (62.5)	70,550 (66.5)	64,310 (70)	63,800 (72)	59,400 (74)	55,000 (75.5)	38,750 (80)
25	62,200 (34)	62,200 (48)	62,200 (55.5)	60,150 (61)	54,000 (65.5)	49,700 (67.5)	47,150 (70.5)	45,600 (72)	34,000 (77)
30		48,450 (38)	48,450 (48.5)	48,450 (55.5)	46,650 (60.5)	42,750 (63.5)	40,450 (66.5)	39,150 (68.5)	30,300 (74.5)
35		39,500 (24.5)	39,500 (40.5)	39,500 (49.5)	39,500 (55.5)	37,300 (58.5)	35,200 (62.5)	34,050 (65)	27,250 (71.5)
40	See Note 16		34,400 (30.5)	34,400 (42.5)	34,400 (50)	32,900 (54)	31,000 (58.5)	29,550 (61.5)	24,750 (69)
45			29,250 (14.5)	29,250 (34.5)	29,250 (44)	29,250 (49)	27,500 (54)	26,550 (57.5)	22,650 (66)
50				24,350 (24)	24,350 (37.5)	24,350 (43.5)	24,350 (49.5)	23,750 (53.5)	20,800 (63)
60					17,060 (17.5)	17,060 (30.5)	17,060 (39)	17,060 (44)	17,900 (57)
70							12,000 (24.5)	12,000 (33)	14,550 (50.5)
80								8,560 (14)	11,250 (43)
90									8,670 (34.5)
100									6,560 (23)
Minimum boom angle (deg.) for indicated length (no load)								0	0
Maximum boom length (ft.) at 0 deg. boom angle (no load)								88	114

Note: () Boom angles are in degrees.

A6-829-008399 & -004988

#LMI operating code. Two or four digit code depends on LMI system. Refer to LMI manual for instructions.

ON RUBBER CAPACITIES WITH 33.25x 29 (26 ply) TIRES

STATIONARY CAPACITIES - 360°

Radius in Feet	#9005 or #05				
	Main Boom Length in Feet				
	36	44	52	60	68
10	64,800 (67)				
12	52,400 (63)				
15	39,850 (57.5)				
20	24,030 (47)	21,200 (56.5)	21,200 (62.5)		
25	16,680 (34)	16,680 (48)	15,350 (55.5)	15,350 (61)	15,350 (65.5)
30		11,160 (38)	11,150 (48.5)	11,150 (55.5)	11,150 (60.5)
35		7,770 (24.5)	7,770 (40.5)	7,770 (49.5)	7,770 (55.5)
40			5,210 (30.5)	5,210 (42.5)	5,210 (50)
45			3,170 (14.5)	3,170 (34.5)	3,170 (44)
50				1,780 (24)	1,780 (37.5)

Note: () Boom angles are in degrees.

A6-829-009521C

#LMI operating code. Two or four digit code depends on LMI system.
Refer to LMI manual for instructions.

1. Capacities are in pounds and do not exceed 75 % of tipping loads as determined by test in accordance with SAE J-765.
2. Capacities are applicable to machines equipped with 33.25x29 (26 ply) bias ply tires, at 65 psi cold inflation pressure (55 psi for 2.5 mph pick & carry capacities).
3. Defined Arc - Over front includes 6° on either side of longitudinal centerline of machine.
4. Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
5. Capacities are applicable only with machine on firm level surface.
6. Axle lockouts must be functioning when lifting on rubber.
7. All rubber 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. 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.
9. On rubber lifting with boom extension or jib is not permitted.
10. Creep - not over 200 ft. of movement in any 30 min. period and not exceeding 1 mph.

	No Load Stability Data	Main Boom 88 ft.	Main Boom 114 ft.
Front (No Load)	Min. boom angle (deg.) for indicated length	0	19
	Max. boom length (ft.) at 0 deg. boom angle	88	105
360 Deg. (No Load)	Min. boom angle (deg.) for indicated length	46	52
	Max. boom length (ft.) at 0 deg. boom angle	60	75

ON RUBBER CAPACITIES WITH 33.25 x 29 (26 ply) TIRES

PICK & CARRY CAPACITIES - UP TO 2.5 MPH
BOOM CENTERED OVER FRONT (See note 8)

Radius in Feet	#9006 or #06						
	Main Boom Length in Feet						
	36	44	52	60	68	76	82
10	89,880 (67)						
12	78,630 (63)						
15	65,770 (57.5)						
20	50,940 (47)	33,200 (56.5)	33,200 (62.5)				
25	39,060 (34)	32,020 (48)	25,700 (55.5)	25,700 (61)	25,700 (65.5)		
30		28,250 (38)	20,300 (48.5)	20,300 (55.5)	20,300 (60.5)		
35		15,930 (24.5)	15,900 (40.5)	15,900 (49.5)	15,900 (55.5)	15,900 (58.5)	
40			12,720 (30.5)	12,700 (42.5)	12,700 (50)	12,700 (54)	12,700 (58.5)
45			10,330 (14.5)	10,300 (34.5)	10,300 (44)	10,300 (49)	10,300 (54)
50				8,360 (24)	8,190 (37.5)	8,190 (43.5)	8,190 (49.5)
60					5,140 (17.5)	4,860 (30.5)	4,860 (39)
70							2,730 (24.5)

Note: () Boom angles are in degrees.

A6-829-009522C

#LMI operating code. Two or four digit code depends on LMI system. Refer to LMI manual for instructions.

(See page 5 for rubber notes.)

33 FT. FIXED LENGTH EXTENSION

ON OUTRIGGERS FULLY EXTENDED - 360°

Main Boom Angle (deg.)	#0051 or #51	#0052 or #52	#0053 or #53
	2° OFFSET	15° OFFSET	30° OFFSET
	Capacity in Pounds (Reference Radii in feet)		
80	23,000 (24.8)	15,700 (30.4)	11,500 (37.9)
75	17,250 (36.9)	12,150 (42.3)	9,430 (49.3)
70	14,300 (48.6)	9,780 (53.9)	7,940 (60.3)
65	11,650 (59.9)	8,100 (65.1)	6,810 (70.8)
60	9,640 (70.8)	6,860 (75.7)	5,940 (80.8)
55	7,940 (81.1)	5,920 (85.7)	5,250 (90.1)
50	6,350 (90.8)	5,190 (95.1)	4,700 (98.7)
45	4,550 (99.8)	3,860 (103.7)	3,410 (106.5)
40	3,210 (108.0)	2,690 (111.5)	2,420 (113.4)
35	2,180 (115.3)	1,790 (118.4)	1,650 (119.4)

A6-829-007805

#LMI operating code. Two or four digit code depends on LMI system. Refer to LMI manual for instructions.

1. All capacities above the bold line are based on structural strength of boom extension.
2. 33 ft. fixed length boom extension may be used for double or single line lifting service.
3. Rated load is based on loaded main boom angle with reference to horizontal, regardless of main boom length. (Ref. radius is for fully extended boom length only.)
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. Capacities listed are with fully extended outriggers only.
6. **BOOM EXTENSION WARNING:** For main boom length greater than 96 ft. with 33 ft. fixed length boom extension in working position, the boom angle must not be less than 30° since loss of stability will occur causing a tipping condition. The boom angle is not restricted for main boom length equal to or less than 96 ft. This warning applies for boom extension erection purposes also.

RT875 - S/N 73837

WEIGHT REDUCTIONS FOR LOAD HANDLING DEVICES

33 FT. BOOM EXTENSION	
*Stowed -	785 lbs.
*Erected -	6,267 lbs.
33 FT. - 58 FT. BOOM EXTENSION	
*Stowed -	1,084 lbs.
*Erected (Retracted) -	9,322 lbs.
*Erected (Extended) -	12,860 lbs.
36 FT. - 114 FT. BOOM with	
*46 ft. Jib Erected -	12,059 lbs.
*60 ft. Jib Erected -	18,014 lbs.
*74 ft. Jib Erected -	25,077 lbs.
*88 ft. Jib Erected -	33,236 lbs.
*Fixed Jib Accessories -	327 lbs.

*Reduction of main boom capacities

AUXILIARY BOOM HEAD	312 lbs.
HOOKBLOCKS and HEADACHE BALLS:	
80 Ton, 6 Sheave	1,970 lbs.+
15 Ton, 1 Sheave	650 lbs.+
7 1/2 Ton Headache Ball	338 lbs.+
10 Ton Headache Ball	560 lbs.+

+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

HOSTS	CABLE SPECS.	PERMISSIBLE LINE PULLS
Main & Aux. Model 30	3/4" (19 mm) 18x19 Class or 35x7 Rotation Resistant Min. Breaking Str. 64,600 lbs.	12,920 lbs.
Main & Aux. Model 30	3/4" (19 mm) 6x37 Class EIPS IWRC Special Flexible Min. Breaking Str. 58,800 lbs.	12,920 lbs.

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

33 FT. - 58 FT. TELE. EXTENSION ON OUTRIGGERS FULLY EXTENDED - 360°

Main Boom Angle (deg.)	33 ft. LENGTH			48 FT. LENGTH			58 FT. LENGTH		
	#0021 or #21	#0022 or #22	#0023 or #23	#0031 or #31	#0032 or #32	#0033 or #33	#0041 or #41	#0042 or #42	#0043 or #43
	2° OFFSET	15° OFFSET	30° OFFSET	2° OFFSET	15° OFFSET	30° OFFSET	2° OFFSET	15° OFFSET	30° OFFSET
Capacity in Pounds (Reference Radii in feet)									
80	22,500 (24.8)	15,150 (30.4)	10,950 (37.9)	15,500 (28.1)	10,000 (37.9)	7,140 (47.8)	10,300 (31.0)	7,780 (43.2)	5,530 (54.4)
75	16,700 (36.9)	11,600 (42.3)	8,890 (49.3)	11,250 (41.4)	7,840 (51)	5,890 (60.3)	8,840 (45.2)	6,130 (56.9)	4,590 (67.4)
70	13,750 (48.6)	9,240 (53.9)	7,400 (60.3)	8,530 (54.4)	6,300 (63.6)	4,950 (72.2)	6,760 (59.1)	4,960 (70.2)	3,870 (79.9)
65	11,100 (59.9)	7,560 (65.1)	6,270 (70.8)	6,720 (67.0)	5,190 (75.8)	4,220 (83.6)	5,350 (72.5)	4,100 (82.9)	3,300 (91.7)
60	9,100 (70.8)	6,320 (75.7)	5,400 (80.8)	5,440 (79.0)	4,350 (87.3)	3,640 (94.3)	4,340 (85.3)	3,440 (95.1)	2,860 (102.9)
55	7,400 (81.1)	5,380 (85.7)	4,710 (90.1)	4,500 (90.4)	3,700 (98.2)	3,190 (104.3)	3,590 (97.5)	2,920 (106.4)	2,500 (113.2)
50	5,580 (90.8)	4,650 (95.1)	3,980 (98.7)	3,790 (101.2)	3,200 (108.3)	2,820 (113.5)	3,020 (108.9)	2,520 (117.0)	2,210 (122.6)
45	3,780 (99.8)	3,110 (103.7)	2,660 (106.5)	3,240 (111.1)	2,340 (117.6)	1,830 (121.7)	2,580 (119.5)	2,060 (126.6)	1,580 (131.0)
40	2,430 (108.0)	1,920 (111.5)	1,660 (113.4)	2,020 (120.1)	1,340 (125.9)	1,000 (129.0)	1,790 (129.1)	1,170 (135.2)	
35	1,410 (115.3)	1,020 (118.4)		1,090 (128.2)					

A6-829-007858

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

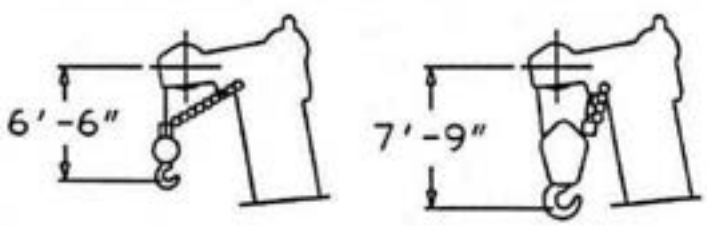
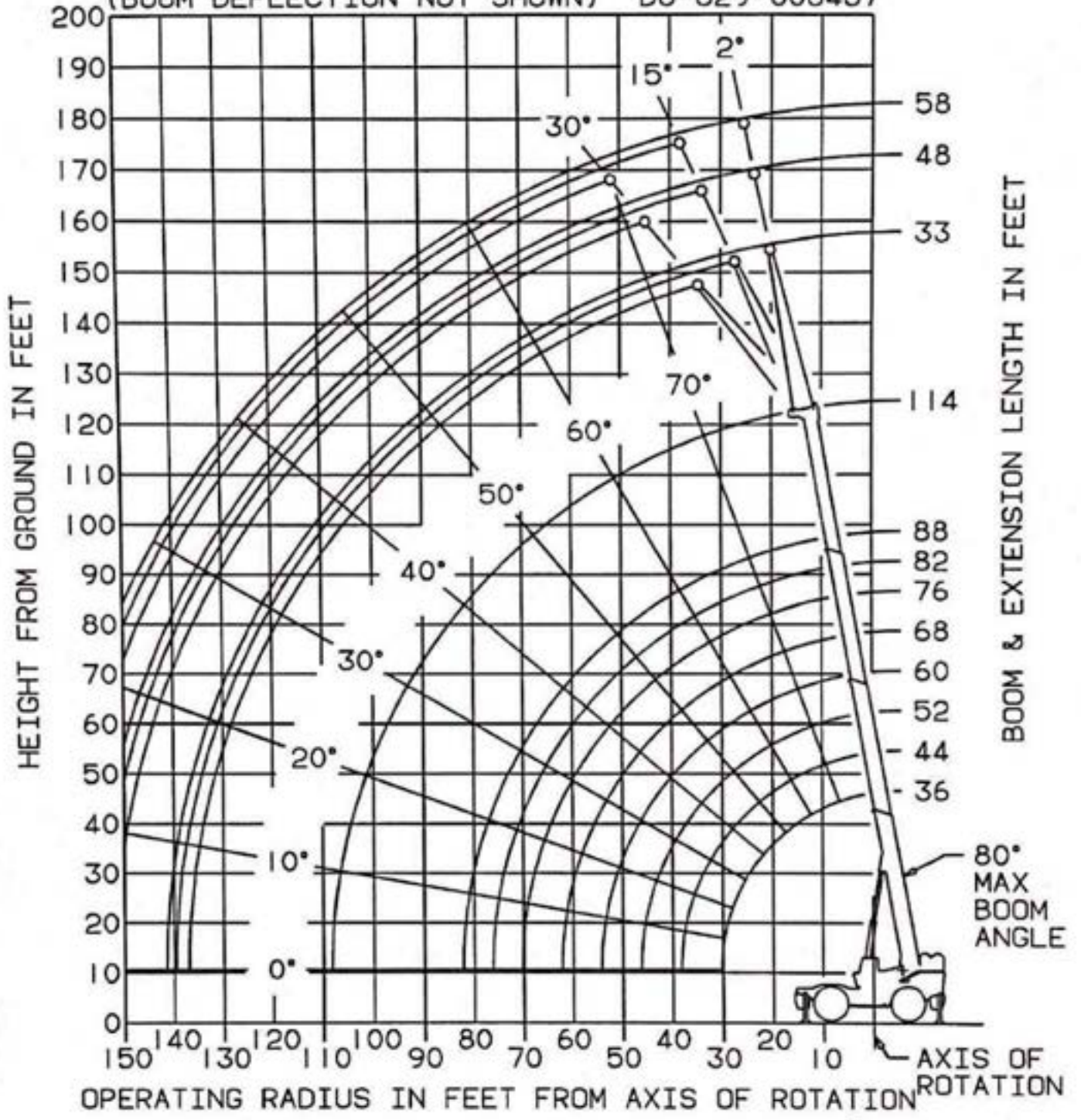
- All capacities above the bold line are based on structural strength of boom extension.
- 33 ft., 48 ft. and 58 ft. boom extension lengths may be used for double or single line lifting service.
- Rated load is based on loaded main boom angle with reference to horizontal, regardless of main boom length. (Ref. radius is for fully extended boom length only.)
- 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.
- Capacities listed are with fully extended outriggers only.
- WARNING FOR 33 FT. BOOM EXTENSION:** For main boom length greater than 96 ft. with 33 ft. tele. boom extension in working position, the boom angle must not be less than 30° since loss of stability will occur causing a tipping condition. The boom angle is not restricted for main boom length equal to or less than 96 ft. This warning applies for boom extension erection purposes also.

WARNING FOR 48 FT. BOOM EXTENSION: For main boom length greater than 87 ft. with 48 ft. tele. boom extension in working position, the boom angle must not be less than 33° since loss of stability will occur causing a tipping condition. The boom angle is not restricted for main boom length equal to or less than 87 ft. This warning applies for boom extension erection purposes also.

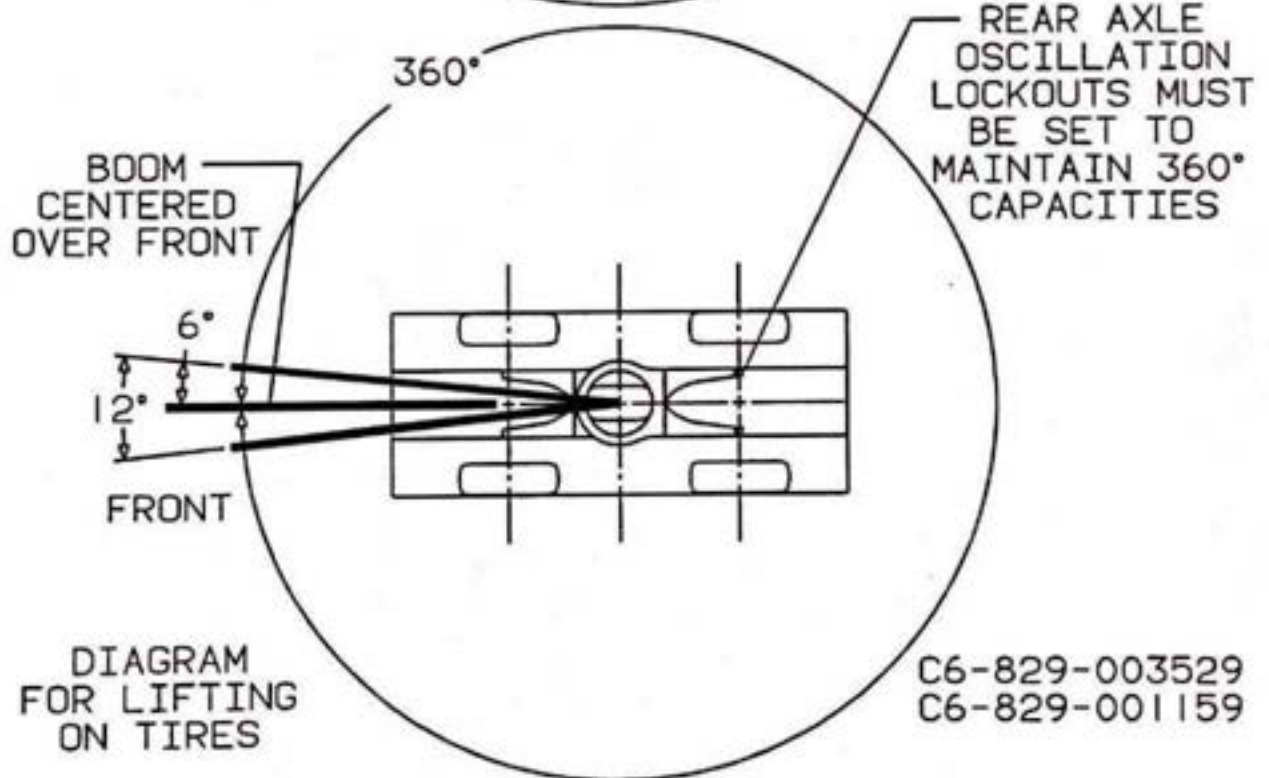
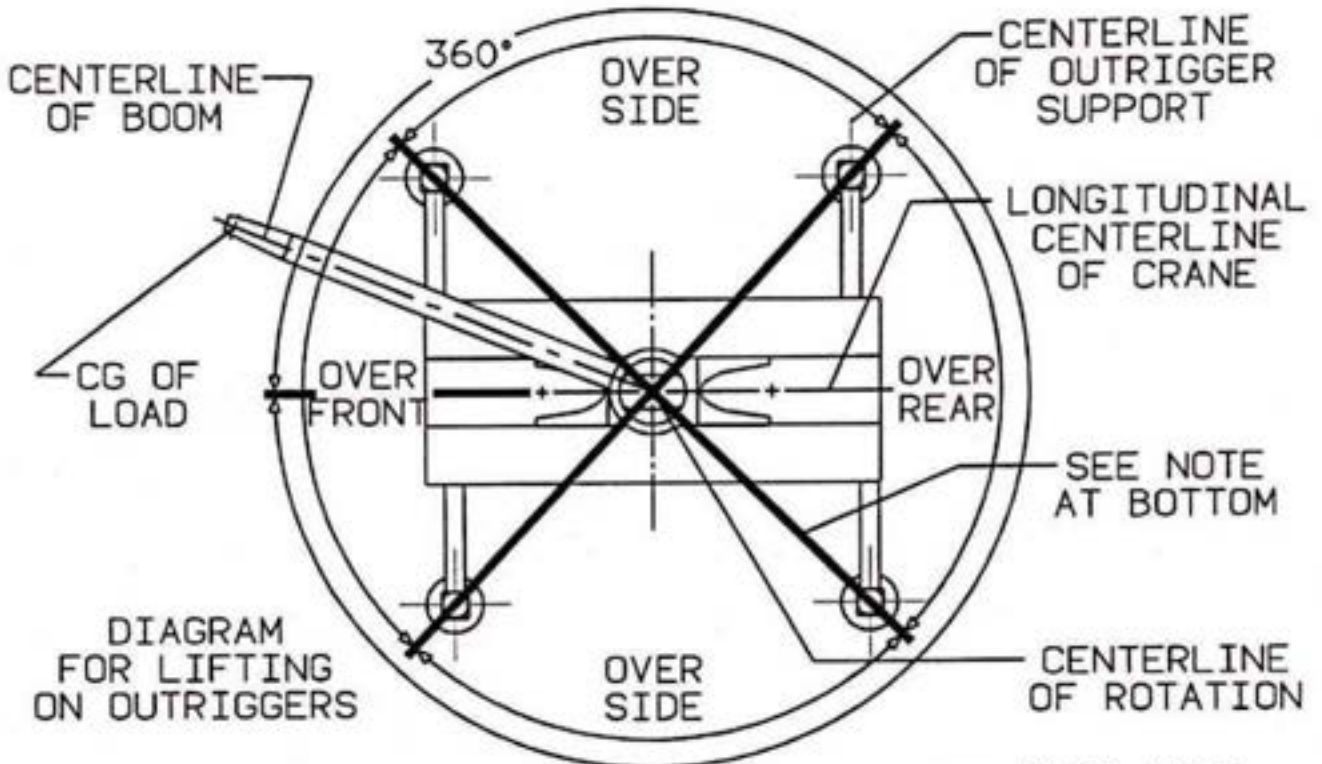
WARNING FOR 58 FT. BOOM EXTENSION: For main boom length greater than 87 ft. with 58 ft. tele. boom extension in working position, the boom angle must not be less than 35° since loss of stability will occur causing a tipping condition. The boom angle is not restricted for main boom length equal to or less than 87 ft. This warning applies for boom extension erection purposes also.

WORKING RANGE DIAGRAM

(BOOM DEFLECTION NOT SHOWN) D6-829-008437



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



C6-829-003529
C6-829-001159

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

ZERO DEGREE BOOM ANGLE CHARTS

ON OUTRIGGERS FULLY EXTENDED - 360° & OVER FRONT

Boom Angle	Main Boom Length in Feet							
	36	44	52	60	68	76	82	88
0°	25,100 (30.2)	18,350 (38.3)	13,700 (46.3)	10,300 (54.3)	7,730 (62.3)	5,670 (70.3)	4,350 (76.3)	3,260 (81.9)

ON RUBBER 33.25 x 29 TIRES

Stationary Capacity Defined Arc Over Front

Boom Angle	Main Boom Length in Feet							
	36	44	52	60	68	76	82	88
0°	25,100 (30.2)	17,150 (38.3)	11,700 (46.3)	8,070 (54.3)	5,440 (62.3)	3,480 (70.3)	2,270 (76.3)	1,150 (81.9)

Stationary Capacity 360° Arc

Boom Angle	Main Boom Length in Feet			
	36	44	52	60
0°	11,000 (30.2)	6,030 (38.3)	2,760 (46.3)	1,000 (54.3)

Pick & Carry Capacities Up to 2.5 MPH Boom Centered Over Front

Boom Angle	Main Boom Length in Feet						
	36	44	52	60	68	76	82
0°	20,300 (30.2)	13,700 (38.3)	9,810 (46.3)	6,840 (54.3)	4,520 (62.3)	2,680 (70.3)	1,490 (76.3)

A6-829-009503A

Note: () Reference radii in feet.

TIRE INFLATION - PSI (BAR)

SIZE (FRONT & REAR)	LOAD RANGE	TRA CODE	LIFTING SERVICE		TRAVEL *20 MPH
			CREEP & STATIC	2.5 MPH (4.0 KPH)	
33.25 x 29	26 PR	E-3	65 (4.5)	55 (3.8)	45 (3.1)
33.25 x 29	32 PR	E-3	65 (4.5)	65 (4.5)	65 (4.5)
29.5 x 25	28 PR	E-3	75 (5.2)	65 (4.5)	55 (3.8)

***NOTE:**

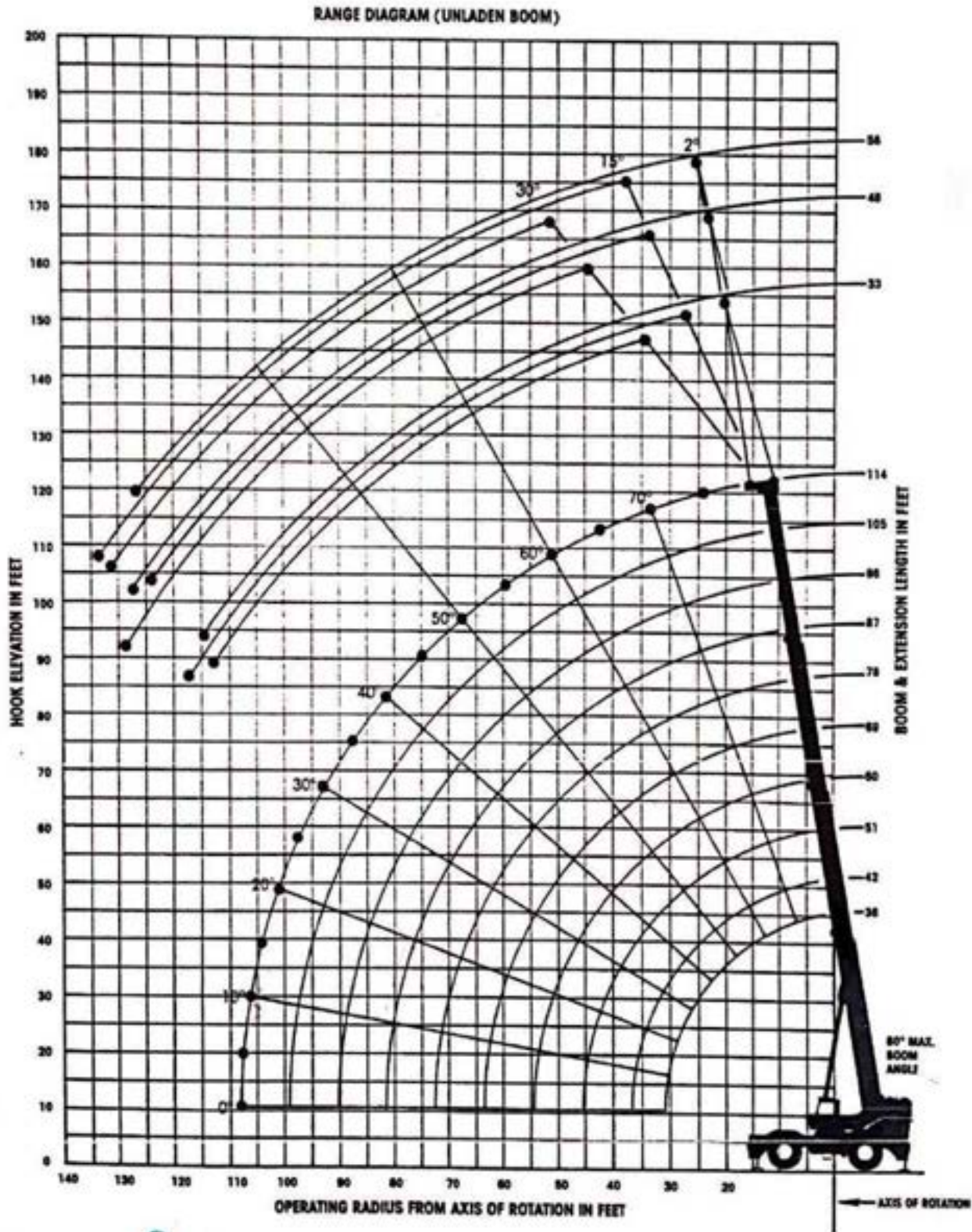
FOR RUNS LONGER THAN 3 TO 5 MILES:

1. STOP FOR 30 MINUTE COOLING PERIOD AFTER TWO HOURS OF SUSTAINED DRIVING.
2. ONE HOUR MINIMUM STOP SHOULD BE OBSERVED AFTER EACH FOUR HOURS OF OPERATION.



RT875

Rough terrain hydraulic crane/36 ft.-114 ft. full power boom



NOTES FOR LIFTING CAPACITIES

WARNING: THIS CHART IS ONLY A GUIDE. The Notes below are for illustration only and should not be relied upon to operate the crane. The individual crane's load chart, operating instructions and other instruction plates must be read and understood prior to operating the crane.

1. All rated loads have been tested to and meet minimum requirements of SAE J1063 OCT80 - Cantilevered Boom Crane Structures - Method of Test, and do not exceed 85% of the tipping load on outriggers as determined by SAE J765 OCT80 Crane Stability Test Code.
2. Capacities given do not include the weight of hookblocks, slings, auxiliary lifting equipment and load handling devices. Their weights MUST be added to the load to be lifted. When more than minimum required reeving is used, the additional rope weight shall be considered part of the load.
3. Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
4. All capacities are for crane on firm, level surface. It may be necessary to have structural supports under the outrigger floats or tires to spread the load to a larger bearing surface.
5. When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used.
6. For outrigger operation, ALL outriggers shall be fully extended with tires raised free of ground before raising the boom or lifting loads.
7. Tires shall be inflated to the recommended pressure before lifting on rubber.
8. Defined Arc $\pm 6^\circ$ on either side of longitudinal centerline of machine.
9. With tele boom extension in working position and main boom length greater than 96 ft., boom angle must not be less than 30° , since loss of stability will occur causing a tipping condition.

NOTES FOR RUBBER CAPACITIES

No Load Stability Data		Main Boom 88 ft	Main Boom 114 ft
Boom	Min. boom angle (deg) for indicated length	0	19
(No load)	Max. boom length (ft) at 0 deg boom angle	88	105
360 Deg	Min. boom angle (deg) for indicated length	46	52
(No load)	Max. boom length (ft) at 0 deg boom angle	60	75

Constant improvement and engineering progress makes it necessary that we reserve the right to make specification, equipment, and price changes without notice. Illustrations shown may include optional equipment and accessories and may not include all standard equipment.

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29.5x25 TIRES ON RUBBER (DEFINED ARC - OVER FRONT)

Radius in Feet	Main Boom Length in feet							
	36	42	51	60	69	78	87	96
10	34,000 (87)	35,000 (79.5)	36,000 (74)					
12	65,840 (63)	35,000 (67.5)	28,000 (71.5)					
15	55,600 (57.5)	35,000 (63)	28,000 (64)					
20	42,670 (47)	35,000 (54.5)	24,000 (51.5)	22,200 (56.5)	22,200 (70)			
25	34,410 (34)	34,410 (45.5)	25,000 (55)	18,000 (51)	18,000 (65.5)			
30		24,590 (34)	23,000 (47.5)	18,000 (55.5)	18,000 (51)			
35		19,830 (14.5)	19,830 (39)	14,000 (49.5)	14,000 (54)			
40			15,240 (38.5)	15,240 (42.5)	14,750 (50.5)	14,750 (56.5)		
45				11,880 (34.5)	10,700 (48)	10,700 (51.5)	10,700 (57)	
50				9,320 (24)	9,320 (38.5)	9,000 (46.5)	9,000 (52.5)	9,000 (57.5)
60					5,490 (20)	5,490 (35)	5,500 (43.5)	5,500 (48.5)
70							2,130 (32)	2,800 (40.5)
80							1,440 (12.5)	1,440 (29.5)

NOTE: Boom angles are in degrees.

AG-829-009148

ON RUBBER (STATIONARY - 360°)

Radius in Feet	Main Boom Length in feet				
	36	42	51	60	69
10	49,340 (87)	35,000 (70.5)	35,000 (74)		
12	39,340 (63)	29,000 (67.5)	28,000 (71.5)		
15	31,680 (57.5)	22,200 (63)	22,200 (64)	22,200 (72)	22,200 (74.5)
20	21,780 (47)	19,830 (54.5)	18,800 (51.5)	18,800 (56.5)	14,800 (72)
25	15,330 (34)	15,330 (45.5)	11,800 (55)	11,800 (51)	11,800 (65.5)
30		12,300 (34)	7,700 (47.5)	7,700 (55.5)	7,700 (51)
35		7,240 (14.5)	7,240 (39)	5,700 (49.5)	5,700 (54)
40			5,100 (28.5)	5,100 (42.5)	4,000 (50.5)
45				3,200 (34.5)	2,970 (45)
50				1,940 (24)	1,940 (38.5)

NOTE: Boom angles are in degrees.

AG-829-009147

ON RUBBER (PICK & CARRY - BOOM CENTERED OVER FRONT)

Radius in Feet	Main Boom Length in feet							
	36	42	51	60	69	78	87	96
10	69,670 (67)	38,000 (70.5)						
12	60,580 (63)	38,000 (67.5)						
15	50,200 (57.5)	38,000 (63)						
20	38,200 (47)	30,000 (54.5)	30,000 (61.5)					
25	30,100 (34)	28,900 (45.5)	22,350 (55)					
30		24,450 (34)	17,400 (47.5)	17,400 (55.5)				
35		19,730 (14.5)	16,800 (39)	16,800 (49.5)	16,800 (54)			
40			15,240 (28.5)	14,900 (42.5)	11,000 (50.5)	11,000 (56.5)		
45				11,880 (34.5)	8,400 (45)	8,500 (51.5)	8,500 (57)	
50				9,320 (24)	6,600 (38.5)	6,600 (46.5)	6,600 (52.5)	
60					3,200 (20)	3,000 (35)	3,000 (43.5)	

NOTE: Boom angles are in degrees.

AG-829-009148

**36 FT. - 114 FT. BOOM
(FULL POWER)
ON OUTRIGGERS FULLY EXTENDED - OVER FRONT**

Radius in Feet	Main Boom Length in Feet										
	36	42	51	60	69	78	87	96	105	114	
10	150,000 (67)	106,700 (78.5)	101,600 (74)	100,000 (77)	96,700 (79)						
12	120,000 (63)	106,700 (67.5)	101,600 (71.5)	96,500 (75)	87,850 (77)	84,700 (79)					
15	103,450 (57.5)	103,450 (63)	95,300 (68)	84,900 (72)	79,200 (74.5)	77,850 (77)	64,500 (79)				
20	80,650 (47)	80,650 (54.5)	80,650 (61.5)	70,550 (66.5)	64,350 (70)	63,800 (73)	55,000 (75.5)	51,900 (77)	48,450 (78.5)	38,750 (80)	
25	62,300 (34)	62,300 (40.5)	62,300 (48)	60,150 (56)	54,800 (64)	49,700 (69)	45,600 (72)	43,600 (74)	41,300 (76)	34,000 (77)	
30		48,450 (34)	48,450 (47.5)	48,450 (55.5)	46,650 (61)	42,750 (65)	39,150 (68.5)	38,400 (71)	35,350 (73)	30,300 (74.5)	
35		39,500 (16.5)	39,500 (29)	39,500 (49.5)	39,500 (56)	37,300 (64)	34,050 (67.5)	32,700 (70)	30,700 (72)	27,250 (72)	
40			34,400 (28.5)	34,400 (42.5)	34,400 (50.5)	32,900 (56.5)	29,550 (61)	28,850 (64.5)	27,000 (67)	24,750 (69)	
45				29,250 (24.5)	29,250 (40.5)	29,250 (51.5)	26,550 (57)	25,650 (61)	23,900 (64)	22,650 (66.5)	
50					25,750 (24)	25,750 (38.5)	25,750 (48.5)	22,750 (52.5)	21,700 (57)	20,800 (61.5)	
60						18,900 (20)	18,900 (32)	18,900 (42.5)	17,400 (49.5)	17,450 (54)	
70							13,800 (12)	13,800 (14.5)	13,800 (18.5)	13,800 (21)	
80								10,100 (12.5)	10,100 (17.5)	10,100 (23)	
90									7,200 (12.5)	7,200 (16.5)	
100										5,070 (24.5)	

Minimum boom angle (deg) for indicated length (no load): 1
 Maximum boom length (ft) at 5 deg boom angle (no load): 114
 Boom angles are in degrees. A6-829-007486 & -007501

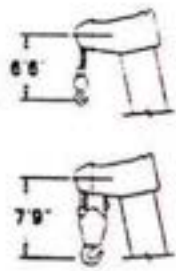
**36 FT. - 114 FT. BOOM
(FULL POWER)
ON OUTRIGGERS FULLY EXTENDED - 360°**

Radius in Feet	Main Boom Length in Feet										
	36	42	51	60	69	78	87	96	105	114	
10	150,000 (67)	106,700 (70.5)	101,600 (74)	100,000 (77)	96,700 (79)						
12	120,000 (63)	106,700 (67.5)	101,600 (71.5)	96,500 (75)	87,850 (77)	84,700 (79)					
15	103,450 (57.5)	103,450 (63)	95,300 (68)	84,900 (72)	79,200 (74.5)	77,850 (77)	64,500 (79)				
20	80,650 (47)	80,650 (54.5)	80,650 (61.5)	70,550 (66.5)	64,350 (70)	63,800 (73)	55,000 (75.5)	51,900 (77)	48,450 (78.5)	38,750 (80)	
25	62,300 (34)	62,300 (40.5)	62,300 (48)	60,150 (56)	54,800 (64)	49,700 (69)	45,600 (72)	43,600 (74)	41,300 (76)	34,000 (77)	
30		48,450 (34)	48,450 (47.5)	48,450 (55.5)	46,650 (61)	42,750 (65)	39,150 (68.5)	38,400 (71)	35,350 (73)	30,300 (74.5)	
35		39,500 (16.5)	39,500 (29)	39,500 (49.5)	39,500 (56)	37,300 (64)	34,050 (67.5)	32,700 (70)	30,700 (72)	27,250 (72)	
40			33,050 (28.5)	33,050 (42.5)	33,050 (50.5)	32,900 (56.5)	29,550 (61)	28,850 (64.5)	27,000 (67)	24,750 (69)	
45				28,350 (24.5)	28,350 (40.5)	28,350 (51.5)	26,550 (57)	25,650 (61)	23,900 (64)	22,650 (66.5)	
50					21,400 (24)	21,400 (38.5)	21,400 (48.5)	21,400 (52.5)	21,400 (57)	21,350 (61.5)	
60						14,900 (20)	14,900 (32)	14,900 (42.5)	14,900 (49.5)	14,900 (54)	
70							10,950 (12)	10,950 (14.5)	10,950 (18.5)	10,950 (21)	
80								7,820 (12.5)	7,820 (16.5)	7,820 (23)	
90									5,150 (27)	5,150 (35.5)	
100										3,240 (24.5)	

Minimum boom angle (deg) for indicated length (no load): 0
 Maximum boom length (ft) at 5 deg boom angle (no load): 114
 NOTE: Boom angles are in degrees. A6-829-007493 & -007501

**WEIGHT REDUCTIONS FOR
LOAD HANDLING DEVICES**

33' EXTENSION WITH 36' - 114' BOOM	
-Slowed -	786 lbs.
-Erected -	6,267 lbs.
33' - 58' TELE. EXTENSION WITH 36' - 114' FT. BOOM	
1-Slowed -	1,084 lbs.
1-Erected (Retracted) -	9,322 lbs.
1-Erected (Extended) -	12,860 lbs.



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

**LIFTING CAPACITIES FOR
33 FT. FIXED OFFSET EXTENSION
(ON OUTRIGGERS - 360°)**

Main Boom Angle (Deg)	2' OFFSET		15' OFFSET		30' OFFSET	
	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.	Cap. lbs.
80	24.8	23,000	30.4	15,700	37.9	11,500
75	36.9	17,250	42.3	12,150	49.3	9,430
70	48.6	14,300	53.9	9,780	60.3	7,940
65	59.9	11,650	65.1	8,100	70.8	6,810
60	70.8	9,640	75.7	6,860	80.8	5,940
55	81.1	7,940	85.7	5,920	90.1	5,250
50	90.8	6,350	95.1	5,190	98.7	4,700
45	99.8	4,550	103.7	3,860	106.5	3,410
40	108.0	3,210	111.5	2,690	113.4	2,420
35	115.3	2,180	118.4	1,790	119.4	1,650

A6-829-007805

LIFTING CAPACITIES FOR THE 33 FT. - 58 FT. TELE. BOOM EXTENSION (ON OUTRIGGERS - 360°)

Main Boom Angle (Deg)	33 R. LENGTH						48 R. LENGTH						58 R. LENGTH					
	2' OFFSET		15' OFFSET		30' OFFSET		2' OFFSET		15' OFFSET		30' OFFSET		2' OFFSET		15' OFFSET		30' OFFSET	
	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.	Cap. lbs.
80	24.8	22,500	30.4	15,150	37.9	10,950	28.1	15,500	37.9	10,000	47.8	7,140	31.0	10,300	43.2	7,780	54.4	5,530
75	36.9	16,700	42.3	11,600	49.3	8,890	41.4	11,250	51.0	7,840	60.3	5,890	45.2	8,840	56.9	6,130	67.4	4,590
70	48.6	13,750	53.9	9,240	60.3	7,400	54.4	8,530	63.6	6,300	72.2	4,950	59.1	6,760	70.2	4,960	79.9	3,870
65	59.9	11,100	65.1	7,560	70.8	6,270	67.0	6,720	75.8	5,190	83.6	4,220	72.5	5,350	82.9	4,100	91.7	3,300
60	70.8	9,100	75.7	6,320	80.8	5,400	79.0	5,440	87.3	4,350	94.3	3,640	85.3	4,340	95.1	3,640	102.9	2,860
55	81.1	7,400	85.7	5,380	90.1	4,740	90.4	4,500	98.2	3,700	104.2	2,790	97.2	3,670	106.4	2,920	113.2	2,500
50	90.8	5,580	95.1	4,650	98.7	3,980	101.2	3,790	108.3	3,200	113.5	2,820	108.9	3,020	117.0	2,520	122.6	2,210
45	99.8	3,780	103.7	3,110	106.5	2,660	111.1	3,240	117.6	2,340	121.7	1,830	119.5	2,580	126.6	2,060	131.0	1,580
40	108.0	2,430	111.5	1,920	113.4	1,660	120.1	2,020	125.9	1,340	129.0	1,000	129.1	1,790	135.2	1,170		
35	115.3	1,410	118.4	1,020			128.2	1,090										

A6-829-007858