

38

39,500

(67.5)

(59)

(49)

37,500

41,300 37,000 36,000 35,000 32,400 (68.5)

(71)

(64)

(56)

(37)

Minimum boom angle (deg.) for indicated length (no load)

Maximum boom length (ft.) at 0 deg. boom angle (no load)

(47.5)

11,400

(21.5)

24,050 24.050 24,050 24,050

56,000

(58.5)

(63)

(52)

(38)

See

NOTE: Boom angles are in degrees.

Radius

Feet

30

40

45

50

55

60

65

70

RT5

28 TON C 32 ft. - 80 (FULL PO

PCSA CLA 85% OF TIPPING - 0 75% OF TIPPING

RATED LIFTING CAPA 32 ft. - 80

14.00x24 TIRES

State nate of the section			_
Radius	Stationary Capacity	Stationary Capacity	P
in Feet	Defined Arc (3) Over Front	360° Arc	6
10	23,100 (a)	19,850 (a)	
12	21,250 (a)	17,100 (a)	
15	18,750 (a)	12,900 (a)	
20	14,850 (b)	7,970 (b)	
25	10,100 (c)	4,890 (c)	
30	7,410 (d)	3,310 (d)	
35	5,480 (d)	2,230 (d)	
40	4,080 (e)	1,470 (e)	
45	3,120 (f)	930 (f)	
50	2,470 (g)		
55	1,920 (h)		
60	1,420 (i)		
65	990 (i)		

A6-829-00

Мах	cin	nun	n P	erm	issi	ble	
		32				(f)	
1 8	b	38	0.1	ft.		(9)	į
346	(c)	44	.0	ft.		(h)	١
. 1:. ((d) 50	0.0	ft.		(i)	
. 'n	(e)	5.6	0.	ft.			

9	Front	Min. boom angle (deg.)	fo
	(No Load)	Max. boom length (ft.)	at
	3600	Min. boom angle (deg.)	fo
87		Max. boom length (ft.)	

80

19,000

(70.5)

14,550

11,400

(62.5)

(58)

8,970

7,210

5,890

4,850

4,020

3,350

2,780 (20)

(37.5)

(30)

0

80

(53.5)

(48.5)

(43.5)

(74)

17,650 16,600

į.	Front	Min. boom angle (deg.) fo
		Max. boom length (ft.) at
		Min. boom angle (deg.) fo
	(No Load)	May boom length (ft) at

GENERAL:

1. Rated loads as shown on capacity c manufactured and equipped. Modifica equipment other than that specified can the jib or boom extension supplied with

extensions without the written approval o 2. Construction equipment can be hazardo Operation and maintenance shall be in Operator's and Safety Handbooks, Serv crane. If these manuals are missing, order

3. The operator and other personnel association themselves with the latest applicable Am Safety Standards for cranes.

SETUP:

1. The crane shall be leveled on a firm supp the supporting surface, it may be necessa strength under the outrigger floats or ti

2. For outrigger operation, outriggers shall crane weight before operating the boom o

3. When equipped with front jack cylinde accordance with the written procedure. 4. When equipped with extendable counte

extended before operation. 5. Tires shall be inflated to the recommended

6. With certain boom and hoist tackle comb obtainable with standard cable lengths. 7. Rotation resistant wire rope is best suite

the wire rope manufacturer for specific i reeving.

8. Do not transport crane with boom extensi OPERATION: 1. Rated loads at rated radius shall not b

determine allowable loads. For clamshell 80% of rated lifting capacities. 2. All rated loads have been tested to and me Cantilevered Boom Crane Structures - Me

of the tipping load as determined by SAE 3. Rated loads include the weight of hook b their combined weights shall be subtracted load which may be lifted.

4. Load ratings are based on freely suspende a load horizontally on the ground in any of

Maximum boom length (ft.) at 0 deg. boom angle (no load) A6-829-006817 & -006832 NOTE: Boom angles are in degrees.

ON OUTRIGGERS FULLY EXTENDED - OVER FRONT

ON OUTRIGGERS FULLY EXTENDED - 360°

(74)

(65)

(52.5)

11,400

8,970

7,210

(45)

(37)

15,050 | 15,050 | 15,050 | 15,050 | 15,050 | 15,050

 $(70.5) \cdot (73)$

62

(68)

(57.5)

11,400

(51.5)

8,970

7,210

5,890

(37.5)

(45)

23,800 | 23,400 | 22,250 | 20,500

(70.5)

(61)

(56)

11,400

8,970

(50.5)

(44)

7,210

5,890

4,850 (28.5)

4,020

A6-829-006824 & -006832

(72.5)

(68)

14,900

11,400

(59.5)

(54.5)

(49.5)

(43.5)

(37)

(29)

8,970

7,210

5,890

4,850

4,020

3,350

(17.5)

Main Boom Length in Feet

50

36,950

(71.5)

(67.5)

(61)17,950 17,950 17,950 17,950 17,950 17,950 17,950

(54)

(46)

(37)

(24)

11,400

8,970

31,750 31,500 30,950 30,300 29,750 29,150

(74)

Radius	Main Boom Length in Feet													
in														
Feet	32 38 44			50	56	62	68	74	80					
10	56,000	39,500	37,500	36,950										
	(63)	(67.5)	(71)	(74)		P .								
12	41,300	37,000	36,000	35,000	32,400									
	(58.5)	(64)	(68.5)	(71.5)	(74)									
15	31,750	31,500	30,950	30,300	29,750	29,150								
	(52)	(59)	(64)	(67.5)	(70.5)	(73)								
20	24,050	24,050	24,050	24,050	23,800	23,400	22,250	20,500	19,000					
	(38)	(49)	(56)	(61)	(65)	(68)_	(70.5)	(72.5)	(74)					
25	17,950	17,950	17,950	17,950	17,950	17,950	17,950	17,650	16,600					
	(9.5)	(37.5)	(47.5)	(54)	(59)	(63)	(66)	(68)	(70.5)					
30		15,350	15,350	15,350	15,350	15,350	15,350	14,900	14,550					
		(18.5)	(37)	(46)	(52.5)	(57.5)	(61)	(64)	(66.5)					
35	See		12,850	12,850	12,850	12,850	12,850	12,850	12,500					
	Note 16		(21.5)	(37)	(45)	(51.5)	(56)	(59.5)	(62.5)					
40				10,550	10,550	10,550	10,550	10,550	10,550					
				(24)	(37)	(45)	(50.5)	(54.5)	(58)					
45					8,590	8,590	8,590	8,590	8,590					
-					(25.5)	(37.5)	(44)	(49.5)	(53.5)					
50						7,070	7,070	7,070	7,070					
						(28)	(37)	(43.5)	(48.5)					
55							5,880	5,880	5,880					
							(28.5)	(37)	(43.5)					
60			l	1	l		4,930	4,930	4,930					
							(14)	(29)	(37.5)					
65								4,150	4,150					
								(17.5)	(30)					
70									3,490					
				L					(20)					
	m boom								0					
Asvimi	ım boom	length (f	t hat 0 de	ea boom	anale (no	(bead)			80					

RT528B

28 TON CAPACITY 32 ft. - 80 ft. BOOM

(FULL POWER) PCSA CLASS 10-89 85% OF TIPPING - ON OUTRIGGERS 75% OF TIPPING - ON RUBBER



RATED LIFTING CAPACITIES IN POUNDS 32 ft. - 80 ft. BOOM

14.00x24 TIRES

Radius in Feet Stationary Capacity Stationary Capacity Pick&CarryCap. Up to 2.5 MPH 10 Defined Arc (3) Over Front 360° Arc Boom Centered (7) Over Front 10 23,100 (a) 19,850 (a) 27,100 (a) 12 21,250 (a) 17,100 (a) 23,250 (a) 15 18,750 (a) 12,900 (a) 18,900 (a) 20 14,850 (b) 7,970 (b) 15,150 (a) 25 10,100 (c) 4,890 (c) 10,100 (a) 30 7,410 (d) 3,310 (d) 7,110 (b) 35 5,480 (d) 2,230 (d) 5,480 (c) 40 4,080 (e) 1,470 (e) 4,080 (d) 45 3,120 (f) 930 (f) 3,120 (e) 50 2,470 (g) 2,470 (f) 55 1,920 (h) 1,920 (g) 60 1,420 (i) 990 (h)	2 1 2 3 3 3 3 3 3			
Feet Over Front (3) Over F				Pick&CarryCap. Up to 2.5 MPH
12 21,250 (a) 17,100 (a) 23,250 (a) 15 18,750 (a) 12,900 (a) 18,900 (a) 20 14,850 (b) 7,970 (b) 15,150 (a) 25 10,100 (c) 4,890 (c) 10,100 (a) 30 7,410 (d) 3,310 (d) 7,110 (b) 35 5,480 (d) 2,230 (d) 5,480 (c) 40 4,080 (e) 1,470 (e) 4,080 (d) 45 3,120 (f) 930 (f) 3,120 (e) 50 2,470 (g) 2,470 (f) 55 1,920 (h) 1,420 (g)		Defined Arc (3) Over Front	360° Arc	
15	10	23,100 (a)	19,850 (a)	27,100 (a)
20	12	21,250 (a)	17,100 (a)	23,250 (a)
25	15	18,750 (a)	12,900 (a)	18,900 (a)
30 7,410 (d) 3,310 (d) 7,110 (b) 35 5,480 (d) 2,230 (d) 5,480 (c) 40 4,080 (e) 1,470 (e) 4,080 (d) 45 3,120 (f) 930 (f) 3,120 (e) 50 2,470 (g) 2,470 (f) 55 1,920 (h) 1,920 (g) 60 1,420 (i) 1,420 (g)	20	14,850 (b)	7,970 (b)	15,150 (a)
35 5,480 (d) 2,230 (d) 5,480 (c) 40 4,080 (e) 1,470 (e) 4,080 (d) 45 3,120 (f) 930 (f) 3,120 (e) 50 2,470 (g) 2,470 (f) 55 1,920 (h) 1,920 (g) 60 1,420 (i) 1,420 (g)	25	10,100 (c)	4,890 (c)	10,100 (a)
40 4,080 (e) 1,470 (e) 4,080 (d) 45 3,120 (f) 930 (f) 3,120 (e) 50 2,470 (g) 2,470 (f) 55 1,920 (h) 1,920 (g) 60 1,420 (i) 1,420 (g)	30	7,410 (d)	3,310 (d)	7,110 (b)
45 3,120 (f) 930 (f) 3,120 (e) 50 2,470 (g) 2,470 (f) 55 1,920 (h) 1,920 (g) 60 1,420 (i) 1,420 (g)	35	5,480 (d)	2,230 (d)	5,480 (c)
50 2,470 (g) 2,470 (f) 55 1,920 (h) 1,920 (g) 60 1,420 (i) 1,420 (g)	40	4,080 (e)	1,470 (e)	4,080 (d)
55 1,920 (h) 1,920 (g) 60 1,420 (i) 1,420 (g)	45	3,120 (f)	930 (f)	3,120 (e)
60 1,420 (i) 1,420 (g)	50	2,470 (g)		2,470 (f)
11.20	55	1,920 (h)		1,920 (g)
65 990 (i) 990 (h)		1,420 (i)		1,420 (g)
	65	990 (i)		990 (h)

(e) 56.0 ft.

A6-829-006774

Maximum Permissible Boom Length:

(f) 62.0 ft. (g) 68.0 ft. (h) 74.0 ft. (a) 32.0 ft. (b) 38.0 ft. (c) 44.0 ft. (d) 50.0 ft. (i) 80.0 ft.

		Main Boom 80 ft.
Front	Min. boom angle (deg.) for indicated length	0
	Max. boom length (ft.) at 0 deg. boom angle	80
360	Min. boom angle (deg.) for indicated length	23
(No Load)	Max. boom length (ft.) at 0 deg. boom angle	56

ON RUBBER CAPACITIES

16.00x25 TIRES

- 1				
	Radius	Stationary Capacity	Stationary Capacity	Pick & Carry Cap. Up to 2.5 MPH
	in Feet	Defined Arc (3) Over Front	360° Arc	Boom Centered (7) Over Front
į	10	28,750 (a)	25,450 (a)	31,750 (a)
	12	25,600 (a)	18,850 (a)	27,350 (a)
- 1	15	21,850 (a)	12,950 (a)	22,400 (a)
	20	15,400 (b)	8,010 (b)	15,400 (a)
١	25	10,400 (c)	4,990 (c)	10,400 (a)
1	30	7,580 (d)	3,510 (d)	7,580 (b)
	35	5,670 (d)	2,320 (d)	5,670 (c)
	40	4,370 (e)	1,610 (e)	4,370 (d)
	45	3,420 (f)	940 (f)	3,420 (e)
	50	2,610 (9)		2,610 (f)
	55	2,030 (g)		2,030 (g)
	60	1,530 (h)		1,530 (g)
ı	65	1,070 (i)		1,070 (h)
		The state of the s	AE-820-00	C024

A6-829-006834

NOTES FOR RUBBER CAPACITIES

1. Capacities do not exceed 75% of tipping loads as determined by tes

2. Capacities are applicable to machine equipped with:

14.00x24 (24 ply) 16.00x25 (28 ply) 20.5x25 (24 ply)

135 P 100 P 95 P

Cold Inf

3. Defined Arc - Over front includes ±6° on either side of longitudinal 4. Capacities are applicable only with machine on firm level surface.

5. Axle lockouts must be functioning before lifting on rubber. (Ch functioning: Refer to "Operation and Maintenance Manual" for lockout system).

6. All rubber lifting depends on proper tire inflation, capacity and lower tire inflation pressures. See lifting capacity chart for tire operation of crane.

7. For pick and carry operation, boom must be centered over front and load restrained from swinging. When handling loads in the maximum ratings, travel should be reduced to creep speeds.

appropriately reduced.

8. On rubber lifting with boom extension is not permitted. 9. Creep - not over 200 ft. (61 m) of movement in any 30 minute period

LIFTING CAPACITY NOTES

GENERAL:

 Rated loads as shown on capacity chart pertain to this crane as originally manufactured and equipped. Modifications to the crane or use of optional equipment other than that specified can result in a reduction of capacity. Use only the jib or boom extension supplied with this crane, do not substitute jibs or boom extensions without the written approval of Grove Mfg. Co.

 Construction equipment can be hazardous if improperly operated or maintained.
 Operation and maintenance shall be in compliance with the information in the Operator's and Safety Handbooks, Service and Parts Manuals supplied with this crane. If these manuals are missing, order replacements from the manufacturer.

3. The operator and other personnel associated with this crane shall fully acquaint themselves with the latest applicable American National Standards Institute (ANSI) Safety Standards for cranes.

1. The crane shall be leveled on a firm supporting surface. Depending on the nature of the supporting surface, it may be necessary to have structural supports of sufficient strength under the outrigger floats or tires to spread the load to a larger bearing

2. For outrigger operation, outriggers shall be fully extended with tires raised free of

crane weight before operating the boom or lifting loads.

3. When equipped with front jack cylinder, the front jack cylinder shall be set in accordance with the written procedure.

When equipped with extendable counterweight, the counterweight shall be fully extended before 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. Rotation resistant wire rope is best suited for single line lifting operations. Consult the wire rope manufacturer for specific recommendations concerning multiple part

8. Do not transport crane with boom extension or jib erected.

OPERATION: 1. Rated loads at rated radius shall not be exceeded. Do not tip the machine to determine allowable loads. For clamshell operation, weight of load must not exceed 80% of rated lifting capacities.

2. All rated loads have been tested to and meet minimum requirements of SAE J-1063 -Cantilevered Boom Crane Structures - Method of Test, and do not exceed of the tipping load as determined by SAE J-765a Crane Stability Test Code.

3. Rated loads include the weight of hook block, slings and auxiliary lifting devices and their combined weights shall be subtracted from the listed ratings to obtain the net load which may be lifted.

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. Rated loads do not account for wind or when wind velocity is above 20 MPH (3

6. Rated loads are for lift crane service only. 7. Do not operate at a radius or boom leng positions, the crane may overturn without 8. The maximum load which can be telescor

loadings and crane maintenance, but it i within the limits of the capacity chart.

9. When either boom length or radius or b load shown at either the next larger radius

10. For safe operation, the user shall make conditions, such as: soft or uneven groun loads, pendulum action, jerking or sudder experience of personnel, two machine lif Side pull on boom or jib is extremely dang

11. Power telescoping boom sections must be 12. Handling of personnel from the boom furnished and installed by Grove Manufact

13. Keep load handling devices a minimum of all times.

14. The boom angle before loading should b account for deflection.

15. Capacities appearing above the bold line a

should not be relied upon as a capacity lim 16. Capacities for the 32 ft. (9.8 m) boom

retracted. If boom is not fully retracted, the 38 ft. (11.6 m) boom length. **DEFINITIONS:**

1. Operating Radius: Horizontal distance fro the supporting surface before loading to the with load applied. 2. Loaded Boom Angle (Shown in Parenther angle between the boom base section and

at the rated radius with the rated boom len 3. Working Area: Areas measured in a circula

shown on the working area diagram. Freely Suspended Load: Load hanging freezept by the lift cable.

5. Side Load: Horizontal force applied to the

FULL HYDRAULIC SELF-PROPELLED CHANE

OUNDS

ON RUBBER CAPACITIES

16.00x25 TIRES

onary Pick&CarryCap, acity Up to 2.5 MPH
Arc Boom Centered (7) Over Front
50 (a) 31,750 (a)
50 (a) 27,350 (a)
50 (a) 22,400 (a)
10 (b) 15,400 (a)
90 (c) 10,400 (a)
10 (d) 7,580 (b)
20 (d) 5,670 (c)
10 (e) 4,370 (d)
40 (f) 3,420 (e)
2,610 (f)
2,030 (9)
1,530 (g)
1,070 (h)

A6-829-006834

20.5x25 TIRES

e i			The second second second second second	THE RELEASE THE RESIDENCE OF THE PARTY OF TH
	Radius	Stationary Capacity	Stationary Capacity	Pick & Carry Cap. Up to 2.5 MPH
	in	Defined Arc	360° Arc	Boom Centered
	Feet	(3) Over Front		(7) Over Front
	10	30,800 (a)	23,400 (a)	32,300 (a)
	12	28,100 (a)	18,000 (a)	27,850 (a)
ì	15	24,800 (a)	12,150 (a)	22,850 (a)
	20	15,500 (b)	7,970 (b)	15,500 (a)
	25	10,200 (c)	5,120 (c)	10,200 (a)
	30	7,240 (d)	3,350 (d)	6,770 (b)
	35	5,490 (d)	2,470 (d)	5,400 (c)
	40	4,280 (e)	1,800 (e)	4,280 (d)
	45	3,300 (f)	1,410 (f)	3,300 (e)
	50	2,670 (g)		2,670 (f)
100	55	2,100 (g)		2,100 (g)
	60	1,640 (h)		1,640 (h)
1	65	1,210 (i)		1,210 (i)

A6-829-006809

NOTES FOR RUBBER CAPACITIES

- 1. Capacities do not exceed 75% of tipping loads as determined by test in accordance with SAE J-765.
- 2. Capacities are applicable to machine equipped with:

14.00x24 (24 ply) 16.00x25 (28 ply) 20.5x25 (24 ply)

Cold Inflation 2.5 MPH 135 PSI 135 PSI 100 PSI 100 PSI 95 PSI 80 PSI

- Defined Arc Over front includes ±6° on either side of longitudinal centerline of machine.
- 4. Capacities are applicable only with machine on firm level surface.
- 5. Axle lockouts must be functioning before lifting on rubber. (Check automatic lockout system for proper functioning: Refer to "Operation and Maintenance Manual" for description of a proper functioning axle lockout system).
- 6. 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.
- 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. On rubber lifting with boom extension is not permitted.
- 9. Creep not over 200 ft. (61 m) of movement in any 30 minute period and not exceeding 1 mph (1.6 kph).

LIFTING CAPACITY NOTES

as originally e of optional acity. Use only e jibs or boom

or maintained. mation in the plied with this facturer.

fully acquaint stitute (ANSI)

n the nature of ts of sufficient larger bearing

raised free of

shall be set in

shall be fully

ubber. es may not be

tions. Consult multiple part

e machine to ust not exceed

f SAE J-1063 ceed 85% Code.

ing devices and obtain the net

made to move

5. Rated loads do not account for wind on lifted load or boom. It is recommended when wind velocity is above 20 MPH (32 km/h), rated loads and boom lengths be

appropriately reduced. 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 crane 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 within the limits of the capacity chart.
- 9. 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.

 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. Power telescoping boom sections must be extended equally at all times.
- 12. Handling of personnel from the boom is not authorized except with equipment furnished and installed by Grove Manufacturing Company 13. Keep load handling devices a minimum of 18 inches (45.7 cm) below boom head at
- all times. 14. The boom angle before loading should be greater than the loaded boom angle to account for deflection.
- 15. Capacities 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 32 ft. (9.8 m) boom length shall be lifted with boom fully retracted. If boom is not fully retracted, capacities shall not exceed those shown for the 38 ft. (11.6 m) boom length.
- **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.

RT528B

28 TON CAPACITY 32 ft. - 80 ft. BOOM

(FULL POWER)
PCSA CLASS 10-89
85% OF TIPPING - ON OUTRIGGERS
75% OF TIPPING - ON RUBBER

BOOM EXTENSION CAPACITIES IN POUNDS 30' FIXED EXTENSION ON OUTRIGGERS - 360°

Main	0° OF	FSET	15° O	FFSET	30° OFFSET			
Boom Angle	Rad. Cap.				Rad. Ref. ft,	Cap. Ibs.		
75°	31.8	10,350	37.2	7,660	42.8	5,310		
70	40.0	8,790	45.2	5,990	50.5	4,770		
65	48.0	6,780	53.0	4,950	57.8	4,090		
60	55.7	5,430	60.2	4,190	64.8	3,570		
55	62.8	4,080	67.1	3,450	71.2	2,950		
50	69.6	3,170	73.3	2,730	77.0	2,370		
45	75.8	2,520	79.0	2,210	82.2	1,950		
40	81.3	2,040	84.1	1,820	86.8	1,630		
35	86.2	1,680	88.4	1,530	90.6	1,380		

A6-829-007090

NOTES FOR 30' FIXED EXTENSION

- 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-765a.
- 2. 30 ft. (9.3 m) fixed length boom extension lengths 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.). 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. Capacities listed are with fully extended outrigger only.
- 5. Warning for 30 ft. (9.3 m) boom extension: For main boom length greater than 78 ft. (23.8 m) with 30 ft. (9.3 m) fixed length boom extension in working position, the boom angle must not be less than 17° 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 78 ft. (23.8 m). This warning applies for boom extension erection purposes also.

30 ft. - 54 ft. TELE. BOOM EXTENSION

		30 ft. EXTENSION						42 ft. EXTENSION					54 ft. EXTENSION					
Main	0° OF	FSET	15° O	FFSET	30° O	FFSET	0° OF	FSET	15° O	FFSET	30° O	FFSET	0° OF	FSET	15° O	FFSET	30° C	FFSET
Boom	Rad. Ref. ft.	Cap. Ibs.	Rad. Ref. ft.	Cap. Ibs.	Rad. Ref. ft.	Cap. Ibs.	Rad. Ref. ft.	Cap. Ibs.	Rad. Ref. ft.	Cap. Ibs.	Rad, Ref. ft.	Cap. Ibs.	Rad, Ref. ft.	Cap. Ibs.	Rad. Ref. ft.	Cap. Ibs.	Rad. Ref. ft.	Cap. Ibs.
75°	31.8	10,000	37.2	7,300	42.8	4,950	35.9	7,700	43.8	5,090	51.7	3,750	39.6	6,150	50.7	3,750	61.8	2,690
70	40.0	8,430	45.2	5,630	50.5	4,410	45.2	6,950	52.7	4,360	60.2	3,300	49.8	5,340	60.4	3,300	70.8	2,480
65	48.0	6,420	53.0	4,590	57.8	3,730	54.1	5,240	61.2	3,550	68.2	2,800	59.8	4,380	69.7	2,840	79.5	2,180
60	55.7	4,910	60.2	3,830	64.8	3,210	62.7	4,130	69.2	2,950	75.7	2,410	69.3	3,420	78.4	2,340	87.5	1,860
55	62.8	3,570	67.1	2,950	71.2	2,460	70.7	3,160	76.7	2,480	82.6	1,925	78.4	2,750	86.6	1,970	94.7	1,470
50	69.6	2,640	73.3	2,230	77.0	1,880	78.2	2,320	83.6	1,840	88.88	1,440	86.8	2,010	94.1	1,505		
45	75.8	1,990	79.0	1,705	82.2	1,450	85.2	1,710	89.8	1,360			94.6	1,470	100.8	1,110		
40	81.3	1,510	84.1	1,310	86.8	1,120	91.5	1,240										

A6-829-007260

NOTES WITH TELESCOPIC BOOM EXTENSION

TELE. BOOM EXTENSION CAPACITY NOTES:

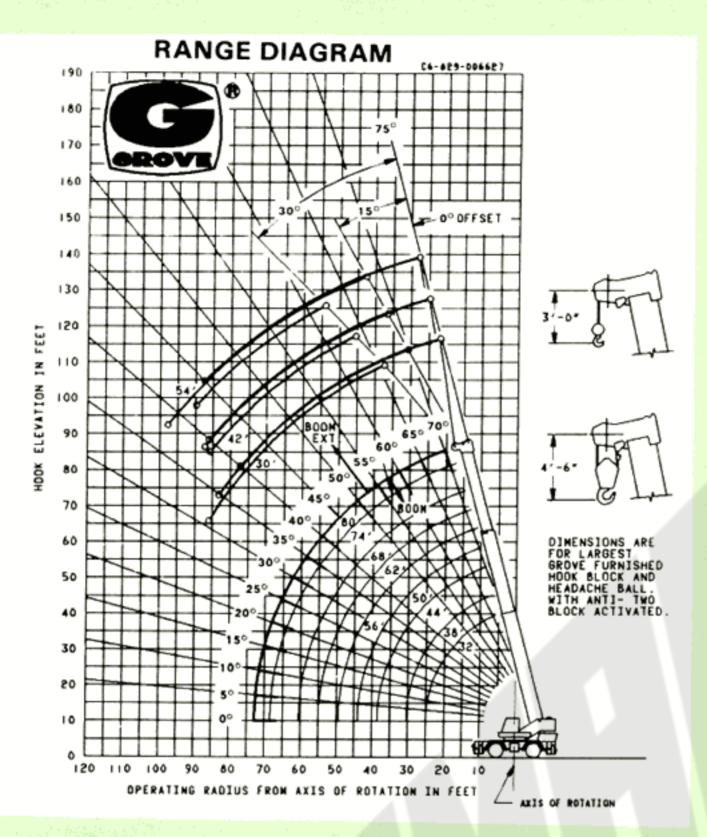
- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765a.
- 2. 30 ft. (9.3 m), 42 ft. (12.8 m) & 54 ft. (16.4 m) boom extension lengths may be used for double or single line lifting service.
- 3. Rated 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).

 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.
 *30 ft. (9.3 m) & 42 ft. (12.8 m) BOOM EXTENSION WARNING: For main boom length greater than 62 ft. (18.9 m) with 30 ft. (9.3 m) or 42 ft. (12.8 m) tele. boom extension in working position, the boom angle must not be less than 40° 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 62 ft. (18.9 m).

*54 ft. (16.4 m) BOOM EXTENSION WARNING: For main boom length greater than 55 ft. (16.8 m) with 54 ft. (16.4 m) tele. boom extension in working position, the boom angle must not be less than 45° 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 55 ft. (16.8 m). *This warning applies for boom extension erection also.

GROVE

RT528B



WEIGHT REDUCTIONS FOR LOAD HANDLING DEVICES

30 ft. TELE. EXT. with 32-80 ft. BOOM *Stowed - 296 lbs. *Erected - 3,266 lbs.

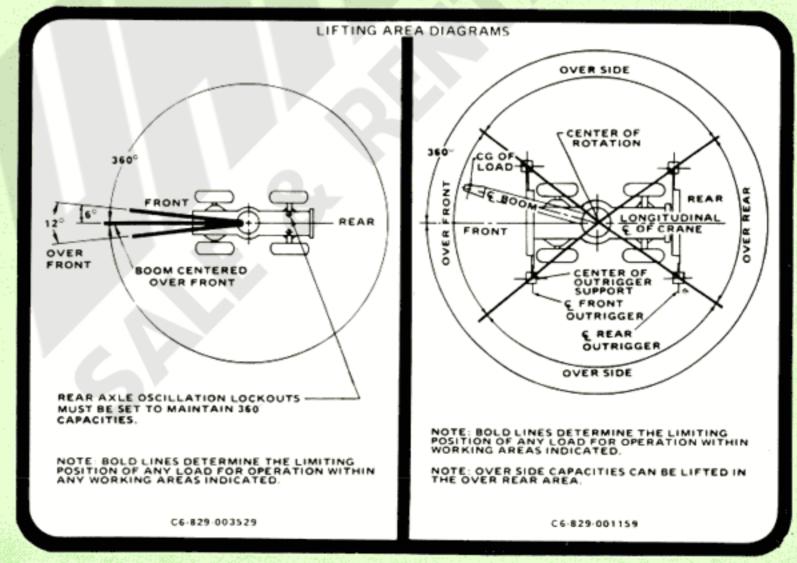
*Stowed - 417 lbs. *Erected (Retracted) - 5,045 lbs.

6,763 lbs.

*Reduction of main boom capacities.

*Erected (Extended) -

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.





GROVE MANUFACTURING COMPANY

Division of Kidde, Inc

KIDDE

Box 21, Shady Grove, Pennsylvania 17256
Phone: (717) 597-8121 Telex: 842308 Cable: GROVE MFG

DATE: 1285-10M Printed in U.S.A. Distributed by: