

PCSA CLASS NO. 10-69 (28-70 FT. BOOM) PCSA CLASS NO. 10-60 (24-78 FT, BOOM)

RATED LIFTING CAPACITIES (In Pounds) 8 Ft. WIDE CARRIER WITH 16 Ft. OUTRIGGERS **OUTRIGGERS FULLY EXTENDED**

OVER SIDE - 28-70 ft, BOOM

Radius in Feet	Boom Length in Feet								
	28	34	40	46	52	58	64	70	
10	36,000	34,000	31,900	29,800					
12	32,000	31,000		29,800					
15	27,000	27,000	27,000	27,000	27,000	25,750	23,700		
20				21,000	· · · · · · · · · · · · · · · · · · ·			*/	
25	, · · · · · · · · · · · · · · · · · · ·	16,500		16,200					
30		11,850	11,850			11,850		11,700	
35			8,900	8,900	8,900	8,900	8,900	8,900	
40			-	6,900	6,900	6,900	6,900	6,900	
45					5,600	5,600	5,600	5,600	
50					-	4,500	4,500	4,500	
55						-	3,600	3,600	
60							2,900	2,900	
65		· · · · · · · · · · · · · · · · · · ·		<u> </u>			· · · · · · · · · · · · · · · · · · ·	2,300	
66.5									

OVER REAR - 28-70 ft. BOOM

Radius in Feet	Boom Length in Feet								
	28	34	40	46	52	58	64	70	
10	36,000	34,000	31,900	29,800					
12	32,000	31,000	30,000	29,800	27,800				
<u> 15</u> _	27,000	27,000	27,000	27,000	27,000	25,750	23,700		
20	21,250	21,250	21,000	21,000	20,750	20,500	20,400	20,25	
25	100. 11111111111	16,500	16,500	16,200	15,900	15,60D	15,300	15,00	
30		12,250	12,250	12,250	12,250	12,100	11,900	11,70	
35	<u>-</u>		9,250	9,250	9,250	9,250	9,250	9,25	
40				7,400	7,400	7,400	7,400	7,400	
45		•		•	6,000	6,000	6,000	6,000	
50		-				4,900	4,900	4,900	
55							3,950	3,95	
60							3,200	3,20	
65								2,55	

OVER SIDE - 24-78 ft. BOOM

Radius in	Manual Fly Section Retracted Boom Length in Feet								
Feet	24	30	36	42	48	54	60	Fly Ext. *78	
10	36,000	34,500	32,700	30,800					
12	32,000	32,000	31,000	29,900	28,000	an nen'ndren en n. Gran verdide	e da karan Seria da Sabada Maranda da Maranda		
15	26,000	26,000	26,000	25,500	24,000	22,000	20,000		
20	20,000	20,000	20,000	20,000	20,000	19,000	17,500		
25		14,000	14,000	14,000	14,000	14,000	14,000	13,000	
30	1		10,500	10,500	10,500	10,500	10,500	11,000	
35			_	7,600	7,600	7,600	7,600	8,500	
40					6,000	6,000	6,000	7,000	
45						4,500	4,500	5,400	
50						3,250	3,250	4,200	
55							2,600	3,200	
60		<u> </u>] }			2,300	
65				 	· · · · · · · · · · · · · · · · · · ·			1,700	
70		}	ŀ	•				1,200	

OVER REAR - 24-78 ft. BOOM

Radius in Feet	Manual Fly Section Retracted Boom Length in Feet							
	24	30	36	42	48	54	60	Fly Ext
10	36,000	34,500	32,700	30,800				
12	32,000	32,000	31,000	29,900	28,000			
15	26,000	26,000	26,000	25,500	24,000	22,000	20,000	
20	20,000	20,000	20,000	20,000	20,000	19,000	17,500	
25		15,000	15,000	15,000	15,000	14,500	14,000	13,000
30			11,175	11,175	11,175	11,175	11,175	11,000
35			· · · · ·	8,450	8,450	8,450	8,450	9,250
40	:				6,400	6,400	6,400	7,675
45					'	4,975	4,975	5,975
50						3,850	3,850	4,800
55							2,900	3,925
60								3,135
65				<u> </u>	†			2,425
70								1,875

In all charts, capacities appearing in the shaded area are based on machinery strength and tipping should not be relied upon as a capacity limitation. Capacities do not exceed 85% of tipping loads as determined by test in accordance with SAE J-765. *Indicates maximum capacity of Extended Fly Section regardless of boom length.

ON RUBBER CAPACITIES

28-70 ft. BOOM

24-78 ft. BOOM

Radius in Feet	Over Rear	Over Side		
10	20,000 (a)	15,000 (a)		
12	17,500 (a)	12,000 (b)		
15	13,750 (b)	8,400 (c)		
20	9,250 (c)	5,000		
25	6,300 (d)	3,000		
30	4,200	1,750		
35	2,990	750		
40	2,200	ļ		
45	1,300	}		
50	750			

(a) 28 ft. (b) 34 ft.

(c) 46 ft. (d) 58 ft.

Radius in Feet	O ver Side	Over Rear
10	13,000 (b)	20,000 (a)
12	10,500 (c)	16,750 (b)
15	7,000 (d)	12,000 (c)
20	3,800	7,300 (d)
25	2,000	4,800 (e)
30	400	3,100
35		2,000
40		1,200
45		400

Maximum Permissible Boom Length: Maximum Permissible Boom Length:

(a) 24 ft.

(d) 46 ft.

(e) 56 ft.

(c) 34 ft,

(b) 28 ft.

Use of manual fly section not recommended.

NOTES TO LIFTING CAPACITIES

- 1. Rated lifting capacities are based on freely suspended loads. They are the maximum covered by the manufacturer's warranty with the machine leveled and standing on a firm supporting surface. Ratings with outriggers are based on outriggers being extended to their maximum positions.
- 2. Practical working loads for each particular job shall be established by the user depending on operating conditions; including the supporting surface, wind and other factors affecting stability, hazardous surroundings, experience of personnel, handling of load, etc.
- 3. Operating radius is the horizontal distance from the axis of rotation to the centerline of the hoist line or tackle with loads applied.
- 4. "On Rubber" lifting (if permitted) depends on proper tire inflation, capacity, and condition. "On Rubber" loads may be transported at a maximum vehicle speed of 2.5 mi/hr. (4 km./hr.) on a smooth and level surface only.
- 5. Jibs may be used for single line lifting crane service only. Jib capacities are based on structural strength of jib or main boom. Jib loads must not exceed main boom lifting capacitles for the actual operating radius.
- 6. Operation is not intended or approved for any conditions outside of those shown hereon. Handling of personnel from the boom is not authorized except with equipment furnished and installed by Grove Manufacturing Company.
- 7. For clamshell or concrete bucket operation, weight of bucket and load must not exceed 90% of rated lifting capacities.
- 8. Power-telescoping boom sections must be extended equally at all times. Long cantilever booms can create a tipping condition when in extended
- and lowered position. 9. The maximum load which may be telescoped is limited by hydraulic pressure, boom angle, boom lubrication, etc. It is safe to attempt to telescope any load within the limits of rated lifting capacity chart.
- 10. With certain boom and hoist tackle combinations, maximum capacities
- may not be obtainable with standard rope lengths. 11. With certain boom and load combinations, raising of load with boom lift cylinders may not be possible. Operational safety is not affected by this
- condition. 12. Keep load handling devices a minimum of 12 inches (30 CM) below boom
- head when lowering or extending boom. 13. For multiple part reeving, use one part of line for each 6,000 lbs. of load.
- 14. All load handling devices and/or boom attachments are considered part of the load and suitable allowances must be made.

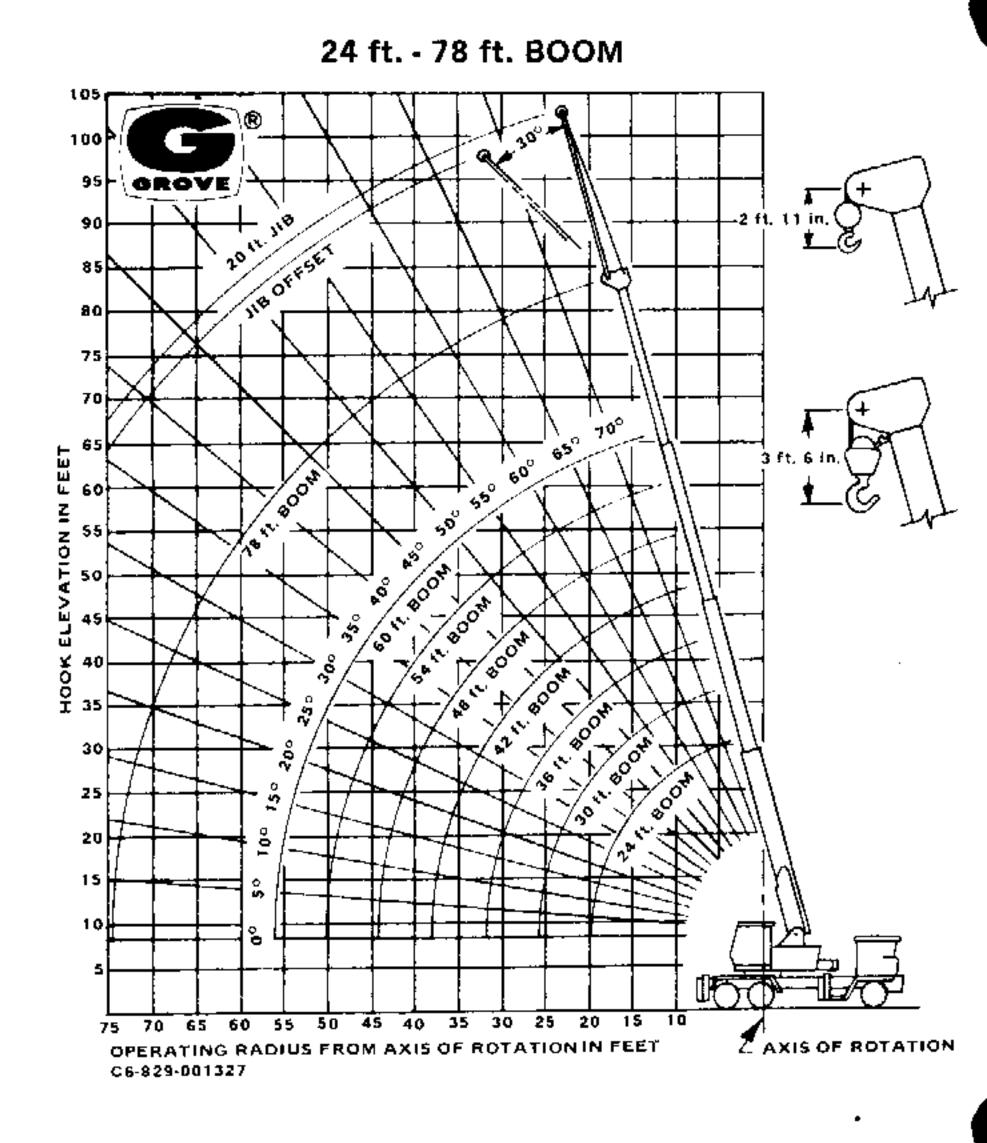


GROVE®

RANGE DIAGRAMS

28 ft. - 70 ft. BOOM

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JIB CAPACITIES

24 ft. JIB

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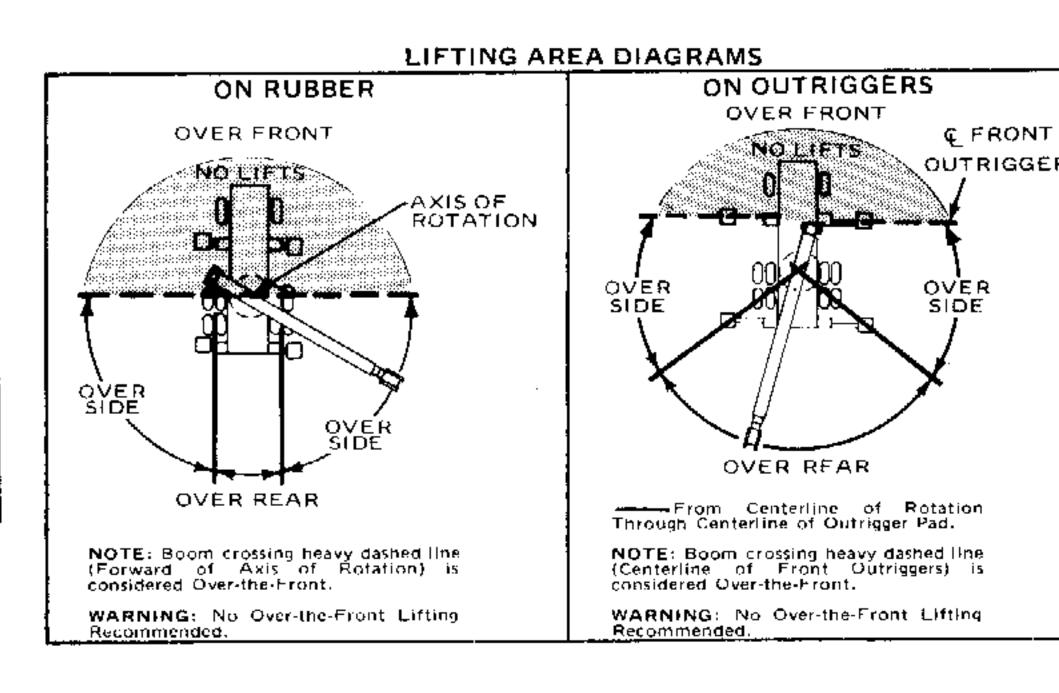
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OPERATING RADIUS FROM AXIS OF ROTATION IN FEET

24 IL. JID					
MIN. BOOM ANGLE	NO OFFSET	MAX, OFFSET (26°)			
75	6400	3100			
70	5150	2850			
65	4350	2650			
60	3700	2450			
55	3300	2275			
50	2950	2170			
45	2680	2125			
40	2550	2085			
35	2475	2040			
30	2490	2000			
26	2300	1950			

	20 ft. JIB					
MIN. BOOM ANGLE	NO OFFSET	MAX. OFFSET (30°)				
75	6200	2600				
70	5090	2400				
65	4300	2300				
60	3700	2150				
55	3300	2100				
50	2600	1650				
45	2400	1500				
40	2200	1460				
30	1900	1200				

 \mathcal{L}_{-} AXIS OF ROTATION





GROVE MANUFACTURING COMPANY

A DIVISION OF WALTER KIDDE & COMPANY, INC.
SHADY GROVE • PENNSYLVANIA 17256

MEMBER: POWER CRANE & SHOVEL ASSOCIATION

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