GRO **FULL HYDRAULIC**

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

RATED LIFTING CAPACITIES IN POUNDS

ON OUTRIGGERS FULLY EXTENDED

OVER SIDE 28-70 ft. BOOM

Radius	Boom Length in Feet									
in Feet	28	34	40	46	52	58	64	70		
10	36,000	34,000	31,900	29,800	and state of the s	and the state of				
12	32,000	31,000	30,000	29,800	27,800					
15	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	20,250		
25		16,500	16,500	16,200	15,900	15,600	15,300	15,000		
30	i	11,850	11,850		11,850	11,850				
35	i		8,900	8,900	8,900	8,900	8,900	8,900		
40				6,900	6,900	5,900	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		-			ļ		2,900	2,900		
65			ł		i			2,300		
66.5			ŀ					2,100		

OVER SIDE 24-78 ft. BOOM

Radius		Manual Fly Extd.						
Feet	24	30	36	42	48	54	60	*78
10	36,000	34,500	32,700	30,800	14431 (1818)	1500 F0810 F900	sales se sales e défende d	
12	32,000	32,000	31,000	29,900	Z8,000			
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		14,000	14,000	14,000	14,000	14,000	14,000	13,000
30		· ·	10,500	10,500	10,500	10,500	10,500	11,000
35				7,600	7,600	7,600	7,600	8,500
40	1				6,000	6,000	6,000	7,000
45	1		i			4,500	4,500	5,400
50	1					3,250	3,250	4,200
55		1					2,600	3,200
60	1]		1	1	2,300
65			1]				1,700
70	1	i				•		1,200
74.8	İ			ł			i	800

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

OVER REAR 28-70 ft. BOOM

Radius	Boom Length in Feet									
in Feet	28	34	40	46	52	58	64	70		
10	36,000	34,000	31,900	29,800	44 44 A 18	Sand 1 198				
12	32,000	31,000	30,000	29,800	27,800			rices in the		
15	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	20,250		
25		16,500	16,500	16,200	15,900	15,600	15,300	15,000		
30		12,250					11,900			
35		'	9.250	9,250	9,250	9,250	9,250	9,250		
40			l '	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	3,950		
60							3,200	3,200		
65	l							2,550		
66.5		i				i	1	2,350		

OVER REAR 24-78 ft. BOOM

Radius]	Manual Fly Extd.						
Feet	24	30	36	ength ii 42	48	54	60	*78
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	43.00
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	T1,175	11,175	11,000
35	1	i	1	8,450	8,450	8,450	8,450	9,250
40			ļ	i	6,400	6,400	6,400	7,675
45						4,975	4,975	5,975
50					1	3,850	3,850	4,800
55				1			2,900	3,925
60								3,135
65	!			<u> </u>	<u> </u>		ľ	2,425
70]				1,875
74.8								1,435

ON RUBBER

29-70 ft BOOM

20-70 Tt. BOOM				
Radius	Over	Over		
in Feet	Rear	Side		
10		15,750 (a)		
12	18,000 (a)	11,450 (b)		
15	13,075 (ь)	7,800 (c)		
20	7,600 (c)	4,425		
25	5,250 (d)	2,475		
30	3,775	1,250		
35	2,650	550		
40	1,825	i i		
45	1,200			
50	680			

24-78 ft. BOOM

Radius	Over	Over
in Feet	Rear	Side
10		15,000 (a)
12	17,125 (a)	10,800 (b)
15	12,100 (b)	7,050 (c)
20	7,150 (c)	3,575
25	4,800 (d)	1,825
30	3,200	650
35	2,050	•
40	1,175	
45	550	

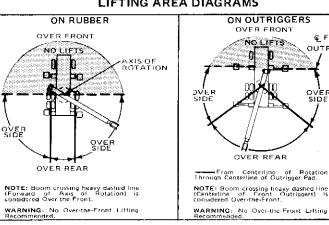
(a) 28 ft.

(b) 34 ft. (d) 56 ft.

Maximum Permissible Boom Length: (c) 46 ft.

LIFTING AREA DIAGRAMS

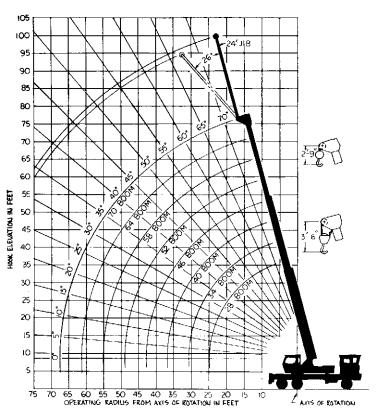
€ FRONT OUTRIGGERS



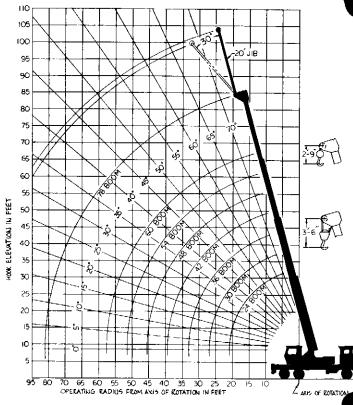
Maximum Permissible Boom Length: (a) 28 ft. (c) 46 ft. (d) 58 ft. (b) 34 ft.

28 ft. - 70 ft. BOOM





24 ft. - 78 ft. BOOM



24 ft. JIB for 28-70 ft. Boom

MIN. BOOM ANGLE	NO OFFSET	MAX. OFFSET (26°)
75	5400	3100
70	5150	2850
65	4350	2650
60	3700	2450
55	3300	2275
50	2950	2170
45	2650	2125
40	2550	2085
35	2475	2040
30	2400	2000
26	2300	1950

JIB CAPACITIES

20 ft. JIB for 24-78 ft. Boom

MIN. BOOM ANGLE	NO OFFSET	MAX. OFFSET (20°)		
75	6200	2600		
70	5000	2400		
65	4300	2300		
60	3700	2150		
55	3300	2100		
50	2600	1650		
45	2400	1500		
40	2200	1460		
30	1900	1200		

NOTES TO LIFTING CAPACITIES

Company

- 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

- surrace only. Jib capacities are based on structural strength of jib or main boom. Jib loads must not exceed main boom lifting capacities for the actual operating radius. 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 loa must not exceed 90% of rated lifting capacities.

 8. Power-telescoping boom sections must be extended equally at all time Long cantilever booms can create a tipping condition when in extende and lowered position.

 9. The maximum load which may be telescoped is limited by hydraul pressure, boom angle, boom lubrication, etc. It is safe to attempt 1 telescope any load within the limits of rated lifting capacity chart.

 10. With certain boom and holst tackle combinations, maximum capacitie 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 the condition.
- condition.

 12. Keep load handling devices a minimum of 12 inches (30 CM) below book head when lowering or extending boom.

 3. 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 to the load and suitable allowances must be made.



GROVE MANUFACTURING CUR

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

MEMBER: POWER CRANE & SHOVEL ASSOCIATION

Form No. 6271074-10M

Printed in U.S.A.

Distributed by: