

GROVE

FULL HYDRAULIC

SELF-PROPELLED CRANE



RATED LIFTING CAPACITIES IN POUNDS

17 - 29 ft. BOOM

Radius in Feet	ON OUTRIGGERS		ON RUBBER	
	Over Front	360°	Over Front	360°
10	28,000	28,000	22,100	15,800
12	28,000	24,000	18,050	10,870
15	26,000	18,000	14,600	8,540
20	16,500	12,300	8,900	5,970
25	12,500	9,500	6,500	4,340

18 - 42 ft. BOOM

Radius in Feet	ON OUTRIGGERS		ON RUBBER	
	Over Front	360°	Over Front	360°
10	28,000	28,000	21,500	15,300
12	27,750	23,500	17,500	10,350
15	25,500	17,400	14,000	8,000
20	15,900	11,700	8,330	5,400
25	11,700	8,700	5,860	3,700
30	8,925	6,700	4,250	2,465
35	6,800	5,250	3,140	1,600
40	5,350	4,250	2,360	1,300

24 - 60 ft. BOOM

PCSA CLASS (10-33)

Radius in Feet	ON OUTRIGGERS		ON RUBBER	
	Over Front	360°	Over Front	360°
10	28,000	28,000	21,500	15,300
12	27,750	23,500	17,500	10,350
15	25,500	17,400	12,900	7,000
20	15,900	11,700	8,100	3,950
25	11,700	8,200	5,450	2,600
30	8,300	5,750	3,600	1,700
35	6,100	4,500	2,400	1,000
40	4,900	3,300	1,500	500
45	3,600	2,600	1,000	
50	2,750	1,900	500	
55	2,400	1,200		
58	2,000	500		

21 - 51 ft. BOOM

PCSA CLASS (10-35)

Radius in Feet	ON OUTRIGGERS		ON RUBBER	
	Over Front	360°	Over Front	360°
10	28,000	28,000	21,500	15,300
12	27,750	23,500	17,500	10,350
15	25,500	17,400	13,500	7,500
20	15,900	11,700	8,250	4,500
25	11,700	8,500	5,700	3,200
30	8,500	5,950	3,900	2,100
35	6,500	4,675	3,000	1,300
40	5,100	3,550	2,100	850
45	4,000	3,000	1,700	
49	3,175	2,450	1,000	

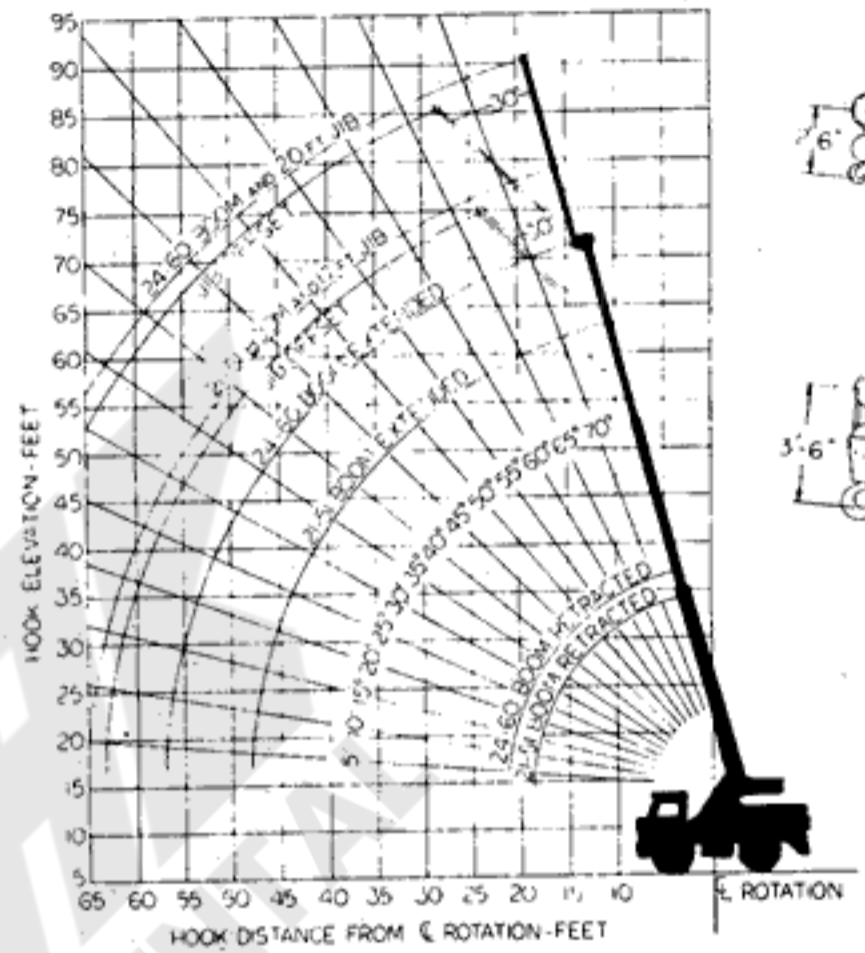
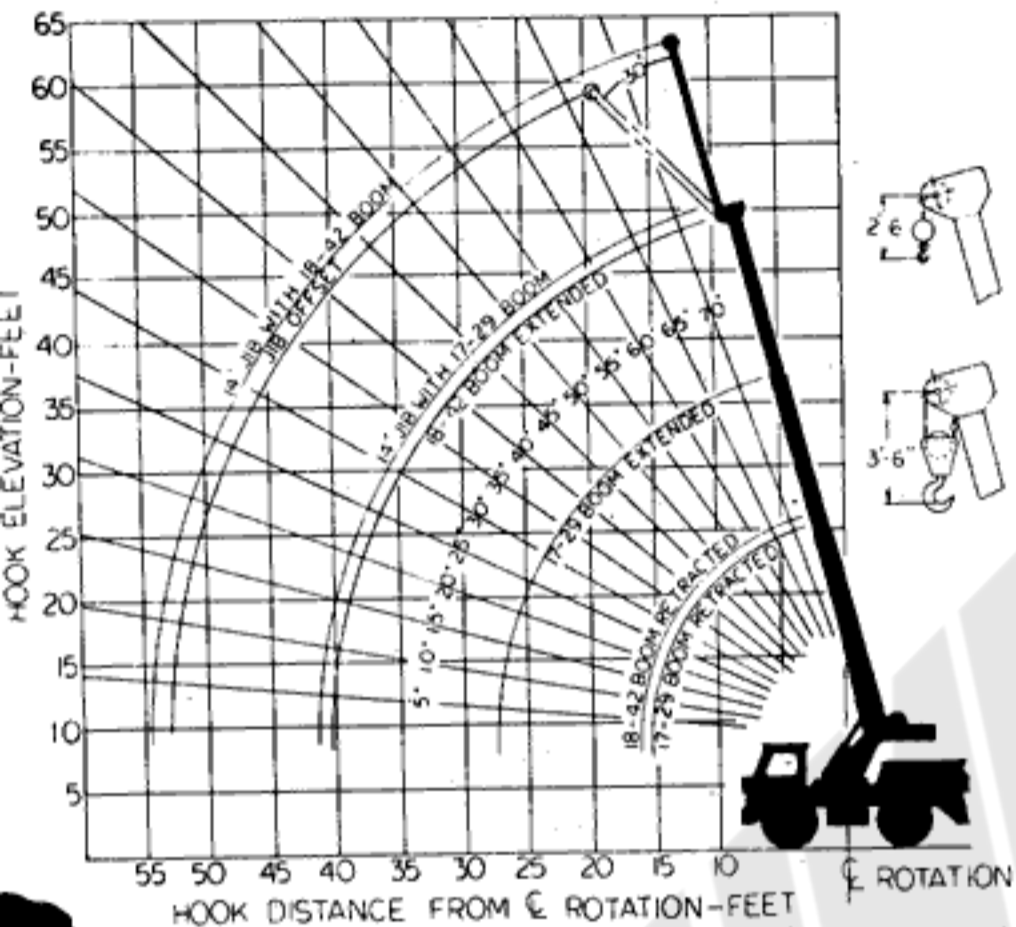
Capacities appearing in shaded area are based on structural strength and stability should not be relied upon as a capacity limitation. Capacities do not exceed 85% of tipping loads as determined by test in accordance with SAE recommended practice - Crane Load Stability Test Code - SAE J-765.

NOTES

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 lifting crane service only. Jib capacities are based on structural strength of jib or main boom and on main boom angle regardless of boom length.
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 7,000 lbs. of load.
14. All load handling devices and/or boom attachments are considered part of the load and suitable allowances must be made.

RANGE DIAGRAM
17 - 29 ft. and 18 - 42 ft. BOOMS

RANGE DIAGRAM
21 - 51 ft. and 24 - 60 ft. BOOMS



14 & 17 ft. JIB CAPACITIES

Min. Boom Angle	No Offset	Max. Offset 30°
75	6,200	3,600
70	5,000	3,000
65	4,300	2,500
60	3,700	2,100
55	3,300	1,850
50	2,600	1,700
45	2,400	1,575
40	2,200	1,500
30	1,900	

20 ft. JIB CAPACITIES

Min. Boom Angle	No Offset	Max. Offset 30°
75	6,200	2,600
70	5,000	2,400
65	4,300	2,300
60	3,700	2,150
55	3,300	2,100
50	2,600	1,650
45	2,400	1,500
40	2,200	1,460
30	1,900	1,200



GROVE MANUFACTURING COMPANY

A DIVISION OF WALTER KIDDE & COMPANY, INC.

SHADY GROVE • PENNSYLVANIA 17256

MEMBER: POWER CRANE & SHOVEL ASSOCIATION

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