

# 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)

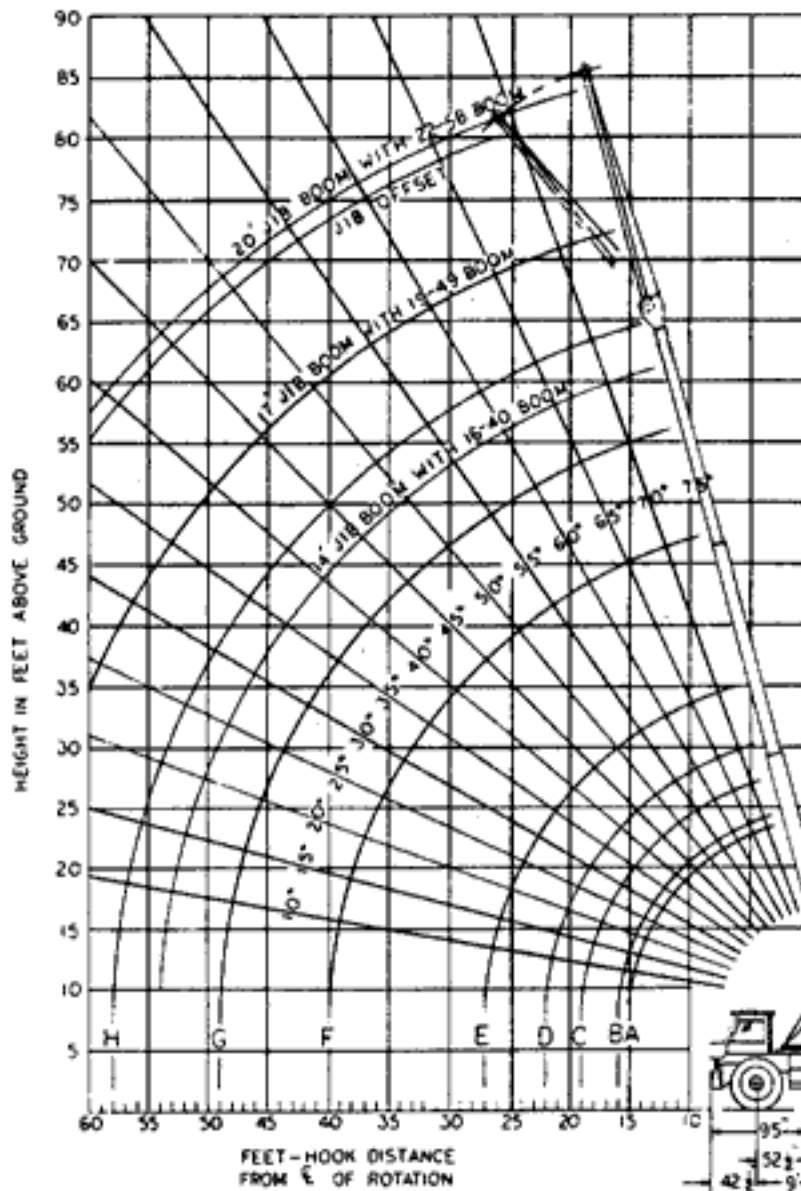
Radius in Feet	ON OUTRIGGERS		ON RUBBER	
	Over Front	360°	Over Front	360°
10	28,000	28,000	21,500	15,300
12	27,750	23,500	17,500	10,350
15	25,500	17,400	13,500	7,500
20	15,900	11,700	8,250	4,500
25	11,700	8,500	5,700	3,200
30	8,500	5,950	3,900	2,100
35	6,500	4,675	3,000	1,300
40	5,100	3,550	2,100	850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

# GROVE RT58



PL10010

## NOTES

1. Rated lifting capacities, with or without outriggers, are the maximum loads covered by the manufacturer's warranty with the machine standing on a firm, level and uniform supporting surface. Capacities do not exceed 85% of tipping.
2. For certain conditions, capacities are controlled by machinery strength. In these cases machine tipping must not be relied upon as the capacity limitation.
3. For clamshell and concrete bucket operation, weight of bucket and load should not exceed 90% of outrigger lifting capacities.
4. The weights of all load-handling devices are considered part of the load lifted and suitable allowances for them should be made.
5. Boom jib extensions may be used as straight gooseneck extensions, and for lifting crane service only.

6. With jib installed, lifting capacities over main boom-head must be reduced as follows:

JIB LENGTH	REDUCED CAPACITY
14 ft.	500 lbs.
17 ft.	600 lbs.
20 ft.	700 lbs.

7. The maximum boom length, including jib extension, may be raised from horizontal with outriggers set.
8. Long cantilever booms can create a tipping condition when in extended and lowered positions. Boom should be retracted proportionate to the capacity of the load chart.
9. Single line capacity 7000#. For larger capacities use multiple part reeving, (one additional line for each 7000# of capacity.)
10. Each power-telescoping boom section should be extended equally at all times. Do not operate one fully extended and another fully retracted.

## JIB CAPACITIES

Min. Boom Angle	No. Offset	Max. Offset
75°	6000#	4450#
70°	4050	3000
65°	3150	2350
60°	2600	1950
50°	1550	1150
40°	1250	950
30°	1100	800

Boom	Retracted	Extended	J
15-27'	A*	E*	6'-5"
16-40'	B*	F*	6'-11"
19-49'	C*	G*	9'-11"
22-58'	D*	H*	12'-11"

\* Indicates hook height and/or line of hook travel.

Jibs are to be used for:  
*Single Line Operations Only.*

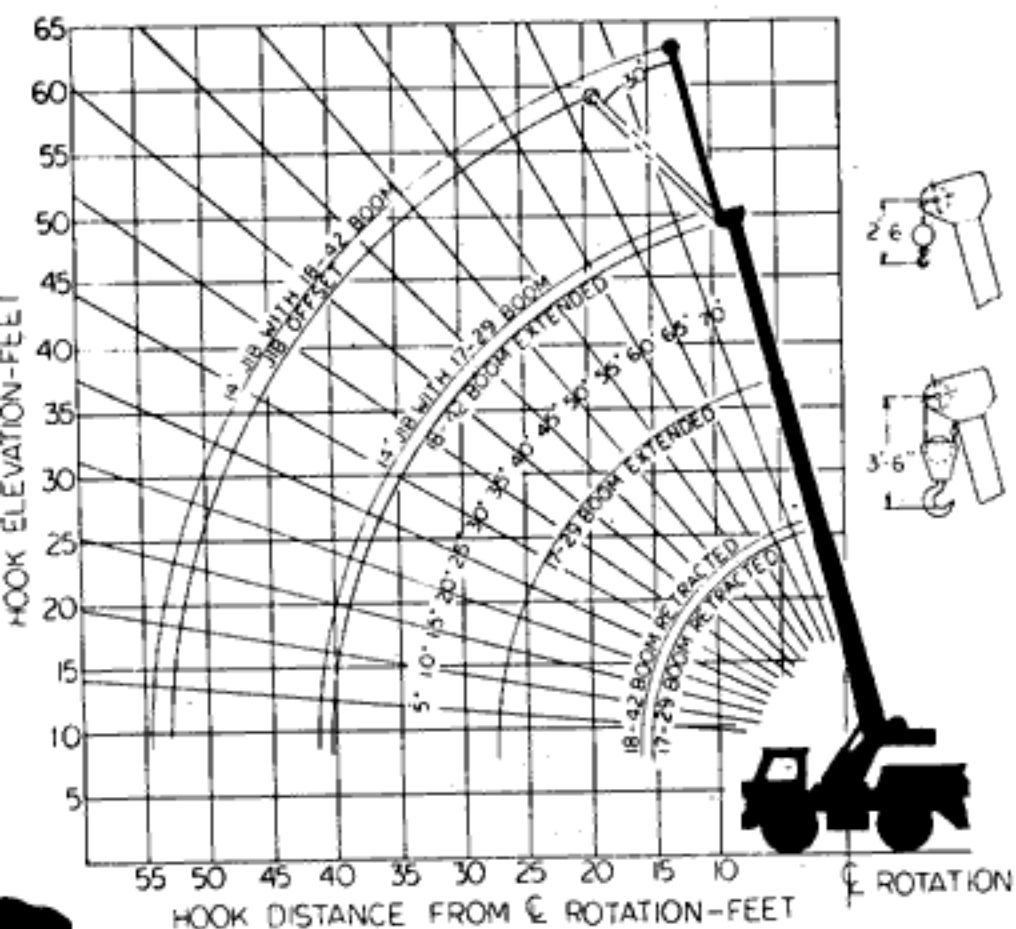
**SPECIAL NOTE:** This load chart is furnished to replace the original load chart issued when original crane was shipped from Grove Manufacturing Company. Grove Manufacturing Company assumes no responsibility, whatsoever, for any modification to original equipment shipped, in connection with stability or machinery strength of the equipment, in its present condition.

## RATED LIFTING CAPACITIES

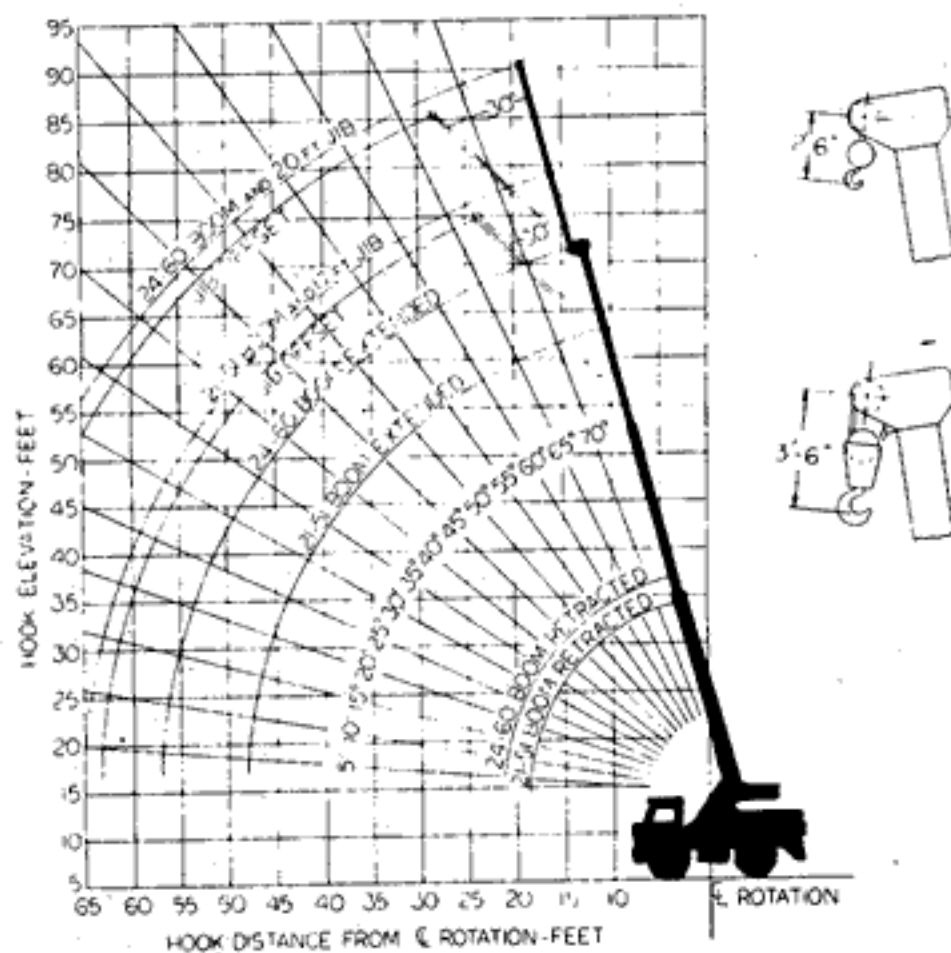
WITH OUTRIGGERS								
Radius	15-27' Boom		16-40' Boom		19-49' Boom		22-58' Boom	
	Over Front	360°	Over Front	360°	Over Front	360°	Over Front	360°
10'	28000	28000	28000	28000	28000	28000	28000	28000
12'	28000	24000	27750	23500	27750	23500	27750	23500
15'	26000	18000	25500	17400	25500	17400	25500	17400
20'	16500	12300	15900	11700	15900	11700	15900	11700
25'	12500	9500	11700	8700	11700	8500	11700	8200
30'			8925	6700	8500	5950	8300	5750
35'			6800	5250	6500	4675	6100	4500
40'			5350	4250	5100	3550	4900	3300
45'					4000	3000	3600	2600
50'					3175	2450	2750	1900
55'							2400	1200
58'							2000	500

WITHOUT OUTRIGGERS							
15-27' Boom		16-40' Boom		19-49' Boom		22-58' Boom	
Over Front	360°	Over Front	360°	Over Front	360°	Over Front	360°
22100	15800	21500	15300	21500	15300	21500	15300
18050	10870	17500	10350	17500	10350	17500	10350
14600	8540	14000	8000	13500	7500	12900	7000
8900	5970	8330	5400	8250	4500	8100	3950
6500	4340	5860	3700	5700	3200	5450	2600
		4250	2465	3900	2100	3600	1700
		3140	1600	3000	1300	2400	1000
		2360	1300	2100	850	1500	500
				1700		1000	
				1000		500	

**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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