

# GROVE®

## FULL HYDRAULIC

### CARRIER-MOUNTED CRANE

# TMS300LP

## 35 TON CAP.

PCSA CLASS 10-114

### RATED LIFTING CAPACITIES IN POUNDS

#### 34 ft. - 136 ft. BOOM

#### ON OUTRIGGERS FULLY EXTENDED - OVER SIDE

Radius In Feet	Boom Length In Feet Power Pinned Fly Retracted									Power Pin. Fly & 81 ft. *104	32 ft. Ext. & 104 ft. *136
	34	38	44	50	56	62	68	74	81		
10	70,000	68,000	64,000	60,000							
12	65,000	62,500	57,500	54,000	51,000	49,000					
15	57,000	55,000	50,000	46,500	43,900	41,900	40,000	38,600			
20	46,890	43,000	39,500	36,500	34,500	32,700	31,400	30,000	28,700		
25	29,450	29,450	29,450	29,450	28,100	26,500	25,300	24,200	23,100	20,000	
30	20,560	20,560	20,560	20,560	20,560	20,560	20,560	20,000	19,000	17,750	
35			15,450	15,450	15,450	15,450	15,450	15,450	15,450	15,600	9,600
40			11,410	11,410	11,410	11,410	11,410	11,410	11,410	13,100	8,750
45				8,450	8,450	8,450	8,450	8,450	8,450	10,990	7,900
50					6,630	6,630	6,630	6,630	6,630	8,750	7,050
55						5,280	5,280	5,280	5,280	7,130	6,350
60							4,090	4,090	4,090	5,650	5,800
65							3,060	3,060	3,060	4,500	5,190
70								2,150	2,150	3,600	4,440
75									1,300	2,840	3,690
80										2,150	2,950
85										1,550	2,370
90										1,020	1,930
95											1,530
100											1,130

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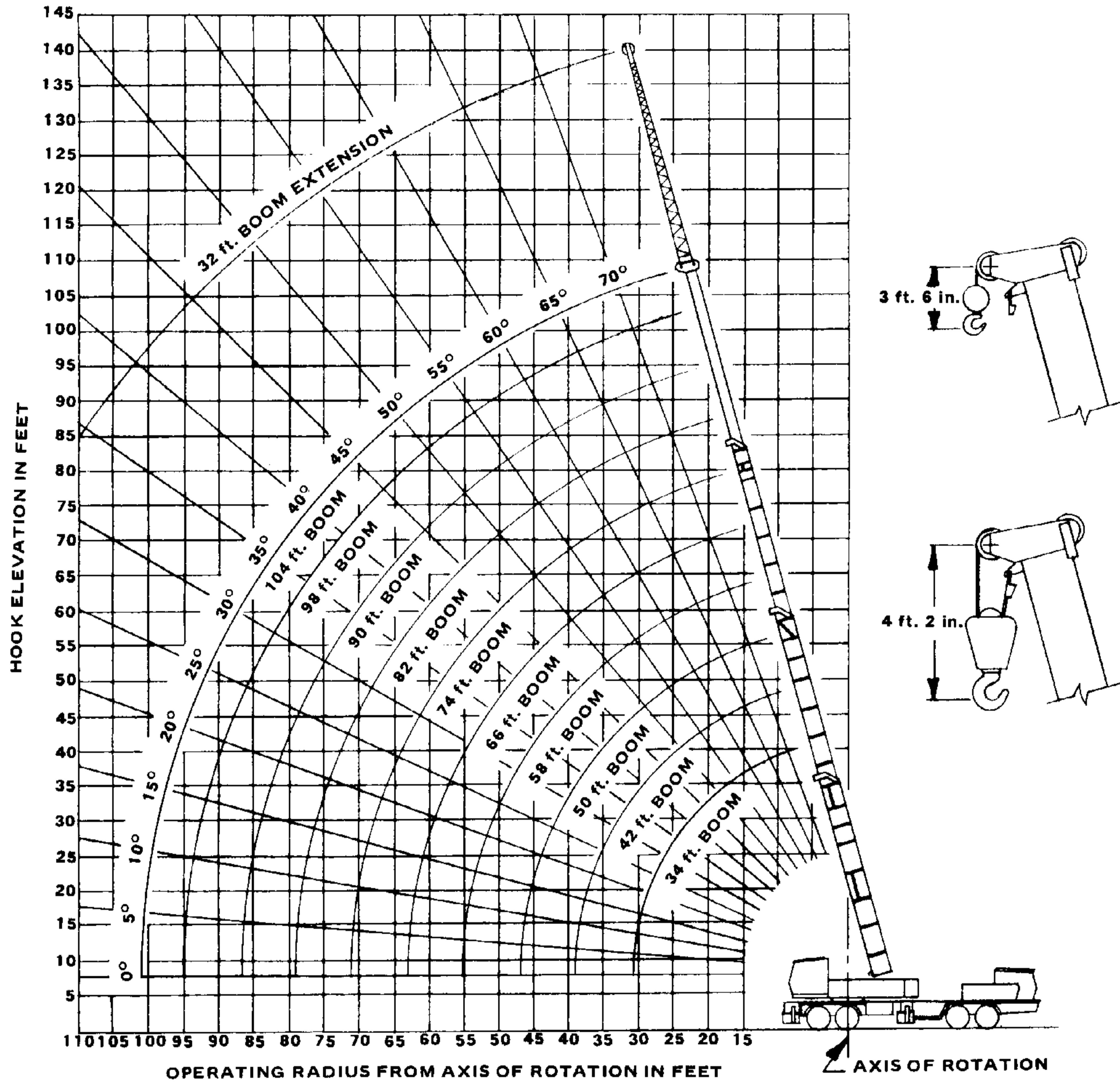
#### ON OUTRIGGERS FULLY EXTENDED - OVER REAR

Radius In Feet	Boom Length In Feet Power Pinned Fly Retracted									Power Pin. Fly & 81 ft. *104	32 ft. Ext. & 104 ft. *136
	34	38	44	50	56	62	68	74	81		
10	70,000	68,000	64,000	60,000							
12	65,000	62,500	57,500	54,000	51,000	49,000					
15	57,000	55,000	50,000	46,500	43,900	41,900	40,000	38,600			
20	47,000	43,000	39,500	36,500	34,500	32,700	31,400	30,000	28,700		
25	35,675	33,300	31,000	30,000	28,100	26,500	25,300	24,200	23,100	20,000	
30	25,200	25,200	25,200	25,200	23,500	22,100	21,000	20,000	19,000	17,750	
35			19,340	19,340	19,340	18,700	17,700	16,800	16,000	15,600	9,600
40			15,190	15,190	15,190	15,190	15,190	14,400	13,600	13,100	8,750
45				12,310	12,310	12,310	12,310	12,310	11,700	11,300	7,900
50					10,000	10,000	10,000	10,000	10,000	9,930	7,050
55						8,180	8,180	8,180	8,180	8,710	6,350
60							6,650	6,650	6,650	7,680	5,800
65							5,280	5,280	5,280	6,800	5,200
70								4,140	4,140	5,990	4,750
75									3,320	5,000	4,350
80										4,060	4,050
85										3,290	3,700
90										2,730	3,280
95										2,210	2,870
100										1,680	2,470
105											2,080
110											1,700
115											1,340
120											1,010

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Capacities appearing in the shaded area are based on structural strength and tipping should not be relied upon as a capacity limitation.  
 \*Boom must be fully extended when lifting with extended power pinned fly or with 32 ft. ext.  
 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.  
 Do not exceed any rated load when lifting regardless of whether it is based on structural strength or stability.

## RANGE DIAGRAM



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### NOTES TO LIFTING CAPACITIES

- 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.
- 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.
- Operating radius is the horizontal distance from the axis of rotation to the centerline of the hoist line or tackle with loads applied.
- "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.
- 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.
- 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.
- For clamshell or concrete bucket operation, weight of bucket and load must not exceed 90% of rated lifting capacities.
- 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.
- 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.
- With certain boom and hoist tackle combinations, maximum capacities may not be obtainable with standard rope lengths.
- 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.
- Keep load handling devices a minimum of 12 inches (30 CM) below boom head when lowering or extending boom.
- For multiple part reeving, use one part of line for each 11,700 lbs. of load.
- All load handling devices and/or boom attachments are considered part of the load and suitable allowances must be made.



**GROVE MANUFACTURING COMPANY**

A DIVISION OF WALTER KIDDE & COMPANY, INC.

SHADY GROVE • PENNSYLVANIA 17256

MEMBER: POWER CRANE & SHOVEL ASSOCIATION

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