

## TMS300B

**40 TON CAPACITY** 34 ft. - 136 ft. BOOM

> (POWER PINNED) 85% OF TIPPING

### RATED LIFTING CAPACITIES I

#### ON OUTRIGGERS FULLY EXTENDED - OVER SIDE

Radius in					n Boom er Pinne					Power Pin. Fly & 81 ft.	32 ft. Ext. & 81 ft.	32 ft. Ext. & 104 f
Feet	*34	38	44	50	56	62	68	74	81	104	113	136
10	80,000 (69)	68,000 (71.5)	64,000 (74.5)	60,000 (76.5)	***		111			See Warning Note 4	See Warning Note 5	See Warning Note 6
12	65,000 (65)	62,500 (68)	57,500 (71.5)	54,000	51,000 (76)	49,000 (77.5)					philips of the second	
15	57,000 (59.5)	55,000 (63)	50,000 (67.5)	46,500 (70.5)	43,900 (73)	41,900 (74.5)	40,000 (76.5)	38,600 (77.5)				
20	46,890 (48.5)		39,500 (60)	36,500 (64)	34,500 (67.5)	32,700 (70)	31,400 (72)	30,000 (73.5)	28,700 (76)			
25	29,450 (35.5)	0 29,450 29,450 29,450		26,500 (65)	25,300 (67.5)	24,200 (69.5)	23,100 (72)	20,000	17,500 (77.5)			
30	20,560	20,560	20,560 (43)	20,560 (50)	20,560 (55.5)	20,560 (59.5)	20,560 (62.5)		19,000	17,750	15,400	
35	(1-7)	(31)	15,450	15,450	15,450	15,450	15,450	15,450	15,450	15,600	13,700	9,600
40			(31.5)	11,410	(49)	11,410	(57.5)	(61)	(64.5)	13,100	12,200	(77.5) 8,750
45			(13.5)	8,450	(41.5) 8,450	8,450	(52.5) 8,450	(56.5) 8,450	(60) 8,450	10,990	10,800	7,900
50				(18)	(32.5) 6,630	6,630	(47) 6,630	(51.5) 6,630	(56) 6,630	(65.5) 8,750	(67.5) 8,970	7,050
55				000 000 (1000 000 000 000 000 000 000 000 000 00	(20.5)	(33) 5,280	5,280	5,280	5,280	7,130	7,300	(71) 6,350
60				[전기] 및 6 ] 14 1 ] 보기 (제 14 ] 1 ] 1 ]		(22.5)	4,090	4,090	4,090	(59) 5,650	(61.5) 5,890	(68.5) 5,800
65							3,060	(33.5)	3,060	(55.5) 4,500	(58.5) 4,760	(66) 5,190
70					A STATE OF THE STA	1 12.71(1	(3)	(25) 2,150	(35) 2,150	(52) 3,600	(55.5)	(63.5) 4,440
75							77 77	(11.5)	1,300	(48) 2,840	(52.5)	(61.5) 3,690
80									(17)	(44) 2,150	(49) 2,340	(58.5)
85				N 2	\$ 37		V. 1 11			(40)	(45)	(56)
										1,550	1,740	2,370 (53.5)
90										1,020 (29.5)	1,170 (37)	1,930 (50.5)
95		e e e										1,530 (47.5)
100							- ,-				10 3 A	1,130 (44.5)

NOTE:Boom angles are in degrees.

A6-829-006311 & -002137D

Radius	T 200	
in		
Feet	*34	38
10	80,000	68,00
	(69)	(71.5
12	65,000	62,50
	(65)	(68)
1.5	57,000	55,00
	(59.5)	(63)
20	47,000	43,00
	(48.5)	(54)
25	35,675	33,30
	(35.5)	(44)
30	25,200	25,20
	(14)	(31)
35	<b>建筑是农业</b> 。	1,000,000
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#### NOTES FOR ON OUTRIGGERS

- 1. Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a cap tipping loads as determined by test in accordance with SAE recommended practice-crane load stability test code - SA
- 2. Boom angle is the included angle between horizontal and the axis of the boom base section after lifting rated load.
- 3. For boom lengths less than 104 ft. with power pinned fly extended, the rated loads are determined by boom angle only angles not shown, use rating of next lower boom angle.
- 4. For boom lengths less than 113 ft. with power pinned fly retracted and 32 ft. boom ext. erected, the rated loads are deter by 113 ft. boom. For boom angles not shown, use rating of next lower boom angles.
- 5. For boom lengths less than 136 ft. with power pinned fly extended and 32 ft. boom ext. erected, the rated loads are deter by 136 ft. boom. For boom angles not shown, use rating of next lower boom angle.

# 300B

APACITY 6 ft. BOOM

PINNED) TIPPING

# GROVE FULL HYDRAULIC CARRIER-MOUNTED CRANE

### PACITIES IN POUNDS

### ON OUTRIGGERS FULLY EXTENDED - OVER REAR

Radius in					gth in Fed y Retract					PowerPin Fly & 81 ft.	32 ft. Ext. & 81 ft.	32 ft. Ext. 8 104 ft	
Feet	*34	38	44	50	56	62	68	74	81	104	113	136	
10	80,000	68,000	64,000	60,000	11.30	/25g/2 5 / 5	L 10000	Water Comme		See	Sec Warning	See	
ser Spile	(69)	(71.5)	(74.5)	(76.5)		8 ( J. ) 3 4		18 1 1 1 1 1 1		Warning Note 4	Note 5	Note	
12	65,000	62,500	57,500	54,000	51,000	49,000	1	h	s 1 (a)	2 : "."	975	1111	
	(65)	(68)	(71.5)	(74)	(76)	(77.5)	100	1 54 125	1 4 7 1	1 1	1 1	11.	
15	57,000	55,000	50,000	46,500	43,900	41,900	40,000	38,600	2.17		1. 1. 1. 1	A 4 1	
100 B	(59.5)	(63)	(67.5)	(70.5)	(73)	(74.5)	(76.5)	(77.5)		1 2 2 2 3	ľ	1	
20	47,000	43,000	39,500	36,500	34,500	32,700	31,400	30,000	28,700		,		
	(48.5)	(54)	(60)	(64)	(67.5)	(70)	(72)	(73.5)	(76)			5.715	
25	35,675	33,300	31,000	30,000	28,100	26,500	25,300	24,200	23,100	20,000	17,500	na sarah ing	
20 1 S	(35.5)	(44)	(52)	(57.5)	(61.5)	(65)	(67.5)	(69.5)	(72)	(77)	(77.5)		
30	25,200	25,200	25,200	25,200	23,500	22,100	21,000	20,000	19,000	17,750	15,400	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
20 m. X	(14)	(31)	(43)	(50)	(55.5)	(59.5)	(62.5)	(65.5)	(68)	(74.5)	(75.5)	*::4	
35	Profession 1		19,340	19,340	19,340	18,700	17,700	16,800	16,000	15,600	13,700	9.60	
			(31.5)	(42)	(49)	(54)	(57.5)	(61)	(64.5)	(71.5)	(73)	(77.5)	
40			15,190	15,190	15,190	15,190	15,190		13,600	13,100	12,200	8,75	
			(13.5)	(32)	(41.5)	(47.5)	A STREET, SALES OF SEC.	(56.5)	(60)	(68.5)	(70.5)	(75.5)	
45	500 000	100000	0.00	12,310	12.310	12,310	12,310	12,310	11,700	11,300	10,800	7,90	
	Day of	10000000000000000000000000000000000000		(18)	(32.5)	(41)	(47)	(51.5)	(56)	(65.5)	(67.5)	(73)	
50		10.0-10.0500			10,000	10,000	10,000	10,000	10,000	9,930	9,410	7,050	
					(20.5)	(33)	(40.5)	(46)	(51.5)	(62)	(64.5)	(71)	
55	garant vi eng	1907179	No limited and	Supplied Albertage	(20.0)	8,180	8,180	8,180	8,180	8,710	8,230	6,350	
						(22.5)	(33)	(40)	(46.5)	(59)	(61.5)	10 0	
60		70 100			94.1 Survivorio	(22.0)	6,650	6,650	6,650			(68.5)	
							(24)	(33.5)	(41)	(55.5)	7,240	5,800 (66)	
65		549.11.11	TA (780) 50000		90 V S (NOS)	Maria Maraja dan	5,280	5,280	5.280	6,800	(58.5) 6,380	5,200	
	5 20 3	To the season of					(3)	(25)	(35)	0.000			
70	3.7	POT REGAL	Control of the second		Y-1741 W 150	5,885 (10.6)	(3)	4,140	4,140	(52) 5,990	(55.5) 5,640	(63.5) 4,750	
								(11.5)	(27.5)	Control of the Contro	and the second second		
75	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10.00			90 14 JULY 4			(4114.3)	3,320		(52.5)	(61.5) 4,350	
							- Form Dre		(17)	5,000	4,910		
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	1.0				A page 1 and 1	na gila			18.00	3,290	3,420	3,700	
90	· ·	to and the party	alto diliberation	Commentered	VI Magazina ya sa	on to steel at	78 1/2 19 19	Annual Control	V #157.1	(35)	(41)	(53.5)	
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										2,210	2,330	2,870	
100	7 7 7 7		AND ALL HOUSE	pala Pota Mario. Na isang manggalan	\$100 DAG AT						(32)	(47.5)	
		THE POST		Carles o				1.00	10 h	1,680	1,890	2,470	
105	. 12	1 7 7	Seria Militario de la compansión de la c		7 B 555	10. 10.			7.71	(10.5)	(26.5)	(44.5)	
103	- >								11 3x 11		1,470	2,080	
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1:00				10 May 19 19 19 19 19 19 19 19 19 19 19 19 19	1000			V 7 1 1 7 7	1		a managa	(33.5)	
120											1 Y. 1	1,010	
		to a south		A Anna Contra	A11 A11 1 1	VI (9 1	1.5					(29)	

NOTE:Boom angles are in degrees.

A6-829-006309A & -002137D

### UTRIGGERS

should not be relied upon as a capacity limitation. Capacities do not exceed 85% of crane load stability test code - SAE J-765.

section after lifting rated load.

e determined by boom angle only in the column headed by 104 ft. boom. For boom

erected, the rated loads are determined by boom angle only in the column headed

erected, the rated loads are determined by boom angle only in the column headed

ACITIES

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### TMS300B

**40 TON CAPACITY** 34 ft. - 136 ft. BOOM

> (POWER PINNED) 85% OF TIPPING

### 32 FT. OFFSETTABLE EXTENSION (360° w/FIFTH FRONT JACK)

Main	0 OF	FSET	15° O	FFSET	30 OFFSET				
Boom Angle (Deg.)	Rad. Ref <sub>.</sub> ft.	Cap. Ibs.	Rad. Ref. ft.	Cap. Ibs.	Rad. Ref. ft.	Cap.			
	PO	WER PIN	NED FLY	RETRACT	ED.				
75	28.4	18,200	34.4	10,300	38.6	6,900			
70	37.4	14,900	43.2	9,000	47.2	6,400			
65	46.1	10,500	51.7	-8,000	55.5	6,100			
60	54.5	6,990	59.7	5,380	63.4	4,440			
- 55	62.4	4,670	67.3 3,560		70.7	2,890			
50	69.8	3,040	74.3	2,240	77.5	1,750			
45	76.7	1,850	80.7	1,260		, -			
	P(	OWER PIN	NED FLY	EXTEND	D	7 10 4			
75	37.6	11,000	43.8	8,500	47.6	6,400			
70	48.6	9,200	54.4	7,500	58.1	5,900			
65	59.3	6,220	64.7	4,620	68.2	3,760			
60	69.5	3,450	74.5	2,410	77.7 1.8				
55	79.2	1,560		*					

A6-829-008514 & -008518

### CAPACITIES FOR 32 FT. - 56 FT. TELE. OFFSETTABLE EXTENSION (360° w/FIFTH FRONT JACK)

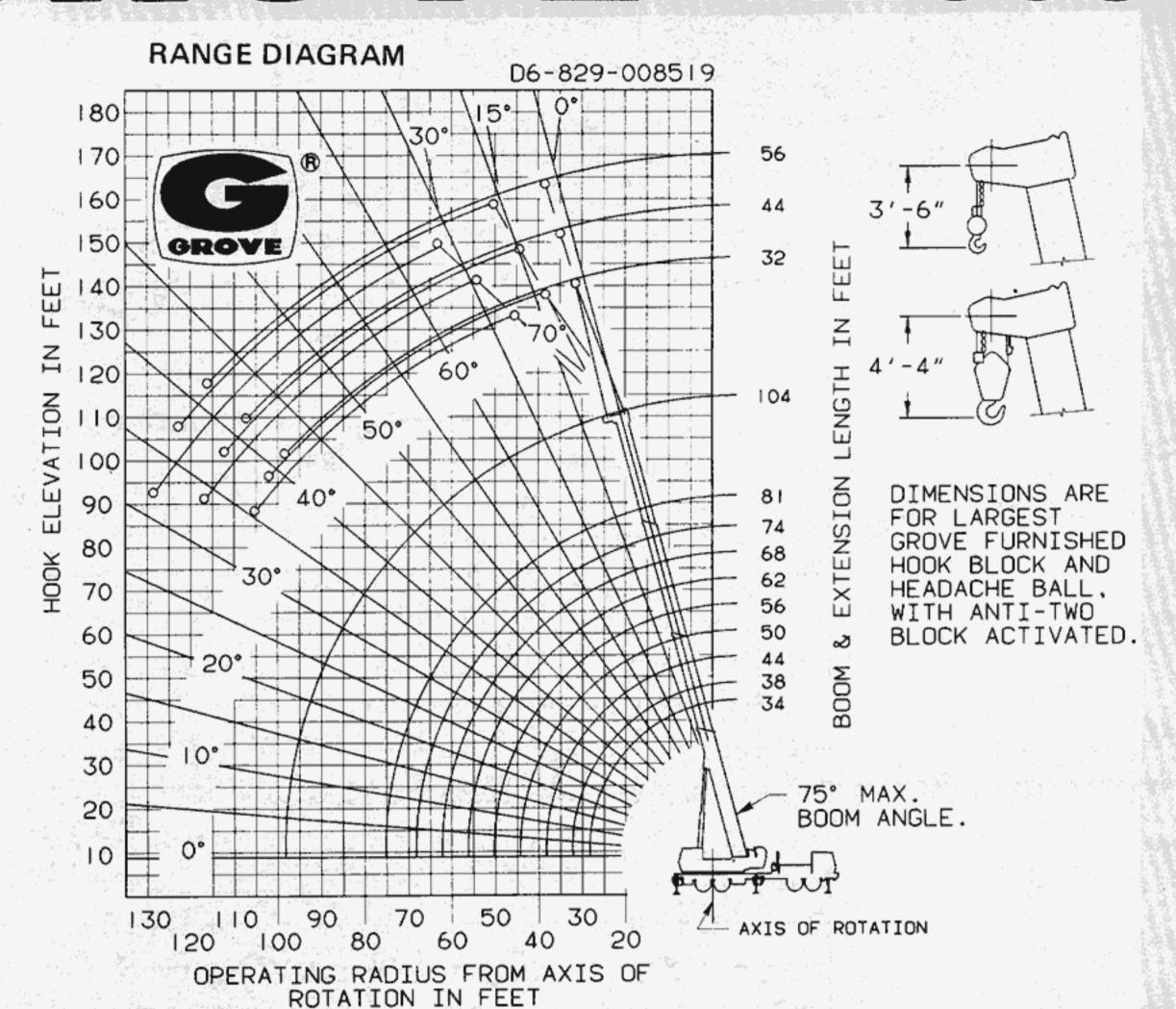
	32 ft. LENGTH							44	56 ft. LENGTH									
Main Boom Angle	0° OFFSET		15° OFFSET		30° OFFSET		0° OFFSET		15° OFFSET		30° OFFSET		0° OFFSET		15° OFFSET		30° OFFSET	
	Rad. Ref. (ft.)	Cap. lbs.	Rad. Ref. (ft.)	Cap.	Rad. Ref. (ft.)	Cap.	Rad. Ref. (ft.)	Cap.	Rad. Ref. (ft.)	Cap.	Rad. Ref. (ft.)	Cap.	Rad. Ref. (ft.)	Cap.	Rad. Ref. (ft.)	Cap.	Rad. Ref. (ft.)	Cap.
				3 212	A. 185	PO'	WER	PINNE	D FL'	Y RET	RACT	ED	10.0		Rich			
75°	28.4	17,500	34.4	9,600	38.6	6,500	33.1	11,700	42.1	6,400	49.7	4,500	36.3	8,900	48.9	4,800	59.5	3,200
70	37.4	14,200	43.2	8,300	47.2	5,800	43.3	9,400	52.0	5,200	59.1	3,900	47.8	7,100	59.6	4,200	69.4	2,800
65	46.1	10,050	51.7	7,300	55.5	5,400	53.3	7,700	61.6	4,800	68.0	3,700	59.0	5,700	70.0	3,600	78.7	2,600
60	54.5	6,530	59.7	4,900	63.4	3,950	62.9	5,260	70.6	3,660	76.4	2,710	69.7	4,420	79.8	2,870	87.4	1,950
55	62.4	4,200	67.3	3,080	70.7	2,400	72.0	3,420	79.2	2,300	84.2	1,660	79.9	2,830	89.0	1,790	95.5	1,160
50	69.8	2,560	74.3	1,760	77.5	1,260	80.5	2,120	87.1	1,310	2	1	89.5	1,730	1 1 T	1 B. C.	1492.40	
45	76.7	1,370	1.178E . TO		C. 32	34.0.18	88.5	1,160	10000		. 1	* ,			7	771	The Best of	
	21640			A de maio		PO	WER	PINNE	D FL'	Y EXT	ENDE	D.	gertaer in week	er der Schalter Krister (1994) (19	na tradición de la composición della composición			Marie Committee
7.5°	37.6	10,300	43.8	7,800	47.6	6,000	42.6	8,700	52.6	5,800	59.6	4,200	48.3	7,500	60.0	4,400	69.1	3,000
70	48.6	7,500	54.4	6,800	58.1	5,300	54.9	7,100	64.3	5,200	70.8	3,900	61.4	5,900	72.4	3,800	80.8	2,700
65	59.3	5,730	64.7	4,120	68.2	3,250	66.9	5,040	75.5	3,370	81.5	2,440	74.0	4,310	84.2	2,830	91.9	1,960
60	69.5	2,950	74.5	1,910	77.7	1,310	78.4	2,900	86.1	1,810	91.5	1,180	86.1	2,600	95.5	1,600	102.3	1,010
55	79.2	1,060	77.1	14 B. J. C.	paralle i	1 1	TO STANK	14 Sept.	1			1 13	020	2 1 1 1	TARRY TO	13.3	10 to 24	0.00

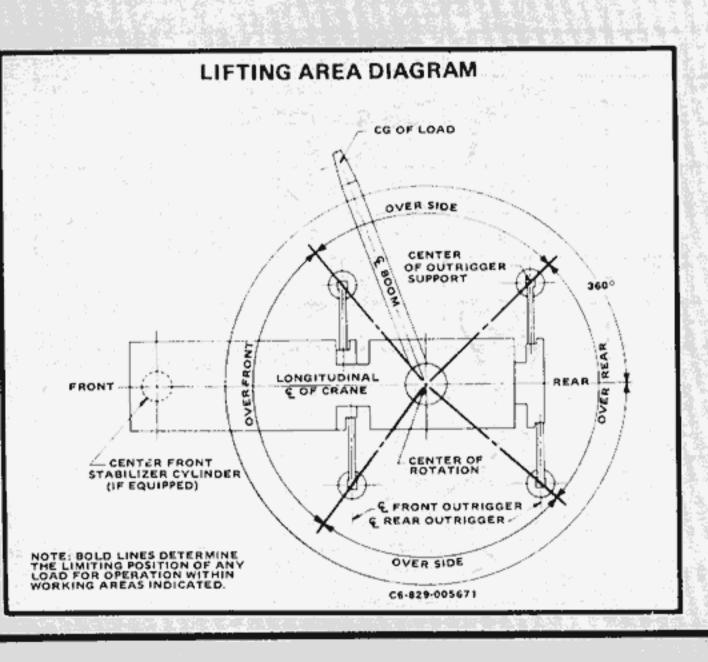
A6-829-008500 & -008504

### NOTES FOR LIFTING WITH 32 FT. OR 32 FT.-56 FT. OFFSETTABLE EXTENSIONS

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping load, in accordance with SAE J-765 OCT80.
- 2. 32 ft., 44 ft., & 56 ft. boom extension lengths maybe used for double or single line lifting service. Double line lifting service is required when the unit is equipped with a Krueger L.M.I.
- 3. Rated load is based on loaded main boom angle with reference to horizontal, regardless of main boom length. (Ref. radius is for fully extended boom and power pinned fly extended 104 ft. boom length or power pinned fly retracted 81 ft. boom length, whichever the case may be.) WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly
- and without advance warning. 4. WARNING: The Krueger L.M.I. will not compensate for reeving/ rigging accessories on the main boom nose or auxilary boom nose when programmed to monitor the boom extension. Remove all reeving/ rigging accessories from main boom when using boom extension.
- Capacities listed are with fully extended outriggers only.
- BOOM EXTENSION WARNING FOR POWER PINNED FLY EXTENDED:
  - \*Warning for 32 ft. Boom Extension: For main boom length greater than 68 ft. with 32 ft. tele. offsettable or offsettable boom extension in working position, the boom angle must not be less than 50 since loss of stability will occur causing a tipping condition. The boom angle is not restricted for main boom length equal to or less than 68 ft.
  - \*Warning for 44 ft. & 56 ft. Boom Extension: For main boom length greater than 68 ft. with 44 ft. or 56 ft. tele. boom extension in working position, the boom angle must not be less than 53 since loss of stabilty will occur causing a tipping condition. The boom angle is not restricted for main length equal to or less than 68 ft.
- 7. \*BOOM EXTENSION WARNING FOR POWER PINNED FLY RETRACTED:
- \*Warning for 32 ft. Boom Extension: For main boom length greater than 62 ft. with 32 ft. tele. offsettable or offsettable boom extension in working position, the boom angle must not be less than 40 since loss of stability will occur causing a tipping condition. The boom angle is not restricted for main boom length equal to or less than 62 ft.
- \*Warning for 44 ft. & 56 ft. Boom Extension: For main boom length greater than 56 ft. with 44 ft. or 56 ft. tele. boom extension in working position, the boom angle must not be less than 44 since loss of stability will occur causing a tipping condition. The boom angle is not restricted for main length equal to or less than 56 ft.

### ROYE TMS300B





#### WEIGHT REDUCTIONS

32 ft. FIXED EXT. 703 lbs. †Stowed 6,015 lbs. † Erected

32 ft. - 56 ft. TELE. EXT. **tStowed** 916 lbs. - 7,631 lbs. †Erected (Retracted) tErected (Extended) - 9,944 lbs. tRed, of main boom capacities,

When lifting over swingaway and/or jib combination, deduct total weight of all load handling devices reeved over main boom nose directly from swingaway or jib capacity.

HOOKBLOCKS: 64.0 lbs. 40 Ton, 3 Sheave 190 lbs. Auxiliary Boom Head 10 Ton Headache Ball 560 lbs.

NOTE: All Load Handling Devices and Boom Attachments are Considered Part of the Load and Suitable Allowances MUST BE MADE for Their Combined Weights. Weights are for Grove Furnished Equipment.

### NOTES FOR LIFTING CAPACITIES

- 1. Do not exceed any rated lifting capacity. Rated lifting capacities are based on freely suspended loads with the machine leveled and standing on a firm supporting surface. Ratings with outriggers are based on outriggers being extended to their maximum position and tires raised free of crane weight before extending the boom or lifting loads.
- 2. Operating radius is the horizontal distance from the axis of rotation before loading to the centerline of the vertical hoist line or tackle with loads applied.
- 3. For clamshell or concrete bucket operation, weight of bucket and load must not exceed 80% of rated lifting capacities.
- 4. Power-telescoping boom sections must be extended equally at all times.
- 5. 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.
- 6. Keep load handling devices a minimum of 12 inches (30 cm) below boom head when lowering or extending boom.
- If actual boom length and/or radius is between values listed, use lifting capacity for the next longer rated length and/or radius.

Distributed by:



### **GROVE MANUFACTURING COMPANY**

Division of Kidde, Inc.

#### KIDDE

Box 21, Shady Grove, Pennsylvania 17256 Phone: (717) 597-8121 Telex: 842308 Cable: GROVE MFG

**DATE: 986-5M** 

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