

SERIAL # 22789

**GROVE**®

**TMS875C**

# *138 Foot Main Boom Load Charts*



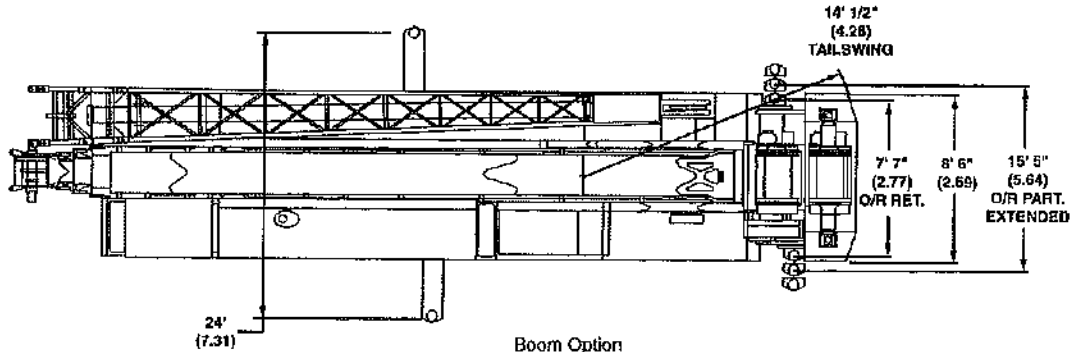
**TRUCK MOUNTED  
HYDRAULIC CRANE**

**TAYLOR** 

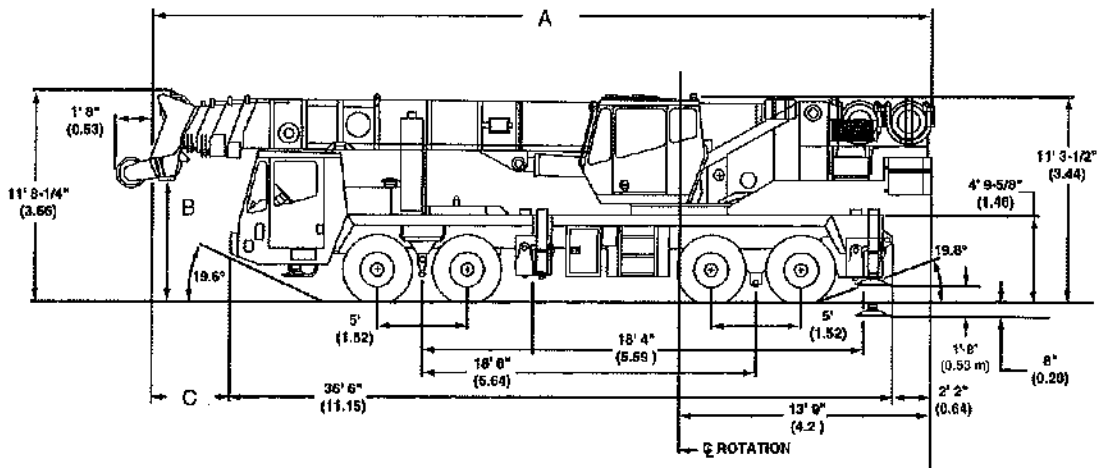


## Dimensions

## Grove TMS 875c



Boom Option			
	110'	125'	138'
A	43' 4"	47' 5"	43' 3"
B	5' 11"	6' 0"	7' 0"
C	4' 4"	8' 5"	4' 3"

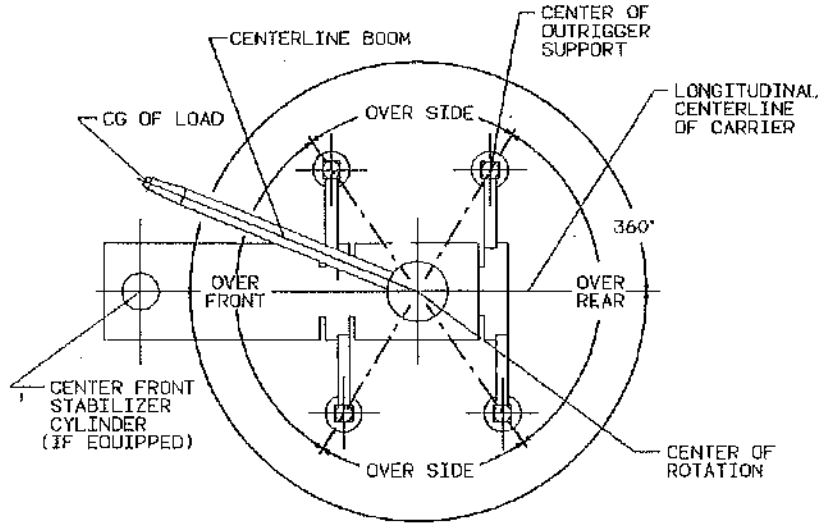


Axle/Tire Allowable Weights	GVW		Front		Rear	
	lb	kg	lb	kg	lb	kg
TMS875C Basic Machine with 110 ft. boom, main and auxiliary hoists w/ rope, and no counterweight	79,961	36,270	34,392	15,600	45,569	20,670
Add: 3,000 lb. counterweight (superstructure)	3,000	1,361	-1,353	-614	4,353	1,975
Add: 5,500 lb. counterweight (superstructure)	5,500	2,485	-2,480	-1,125	7,980	3,620
Add: 9,500 lb. counterweight (superstructure)	9,500	4,309	-4,284	-1,945	13,794	6,252
Add: 3,000 lb. counterweight (carrier)	3,000	1,361	2,704	1,227	296	134
Add: 5,500 lb. counterweight (carrier)	5,500	2,485	4,958	2,249	542	246
Add: 9,500 lb. counterweight (carrier)	9,600	4,309	8,554	3,885	936	425
Add: 75 ton, 6 sheave hookblock (stowed in trough)	1,711	776	2,443	1,108	-732	-332
Add: 45 ton, 3 sheave hookblock (stowed in trough)	830	376	1,185	538	-355	-161
Add: 10 ton headache ball (stowed in trough)	580	254	800	363	-240	-109
Substitute: 125 ft. Boom	3,970	1,801	5,100	2,313	-1,130	-515
Substitute: 138 ft. Boom	4,211	1,910	2,971	1,348	1,240	562
Remove: Auxiliary hoist cable	-775	-352	347	157	-1,122	-509

110 ft. and 138 ft. Boom Options						
Add: 31 ft. Fixed length extension	1,553	704	1,558	706	-3	-1
Add: 31 ft. - 56 ft. Bi-fold extension	2,240	1,018	1,873	895	267	121
Add: 31 ft. - 56 ft. Luffing bi-fold extension (138 ft. boom only)	3,122	1,416	3,298	1,496	-176	-80
Add: Auxiliary boom nose	127	58	234	106	-107	-49

125 ft. Boom Options						
Add: 35 ft. Fixed length extension	2,154	977	2,362	1,071	-208	-94
Add: 35 ft. - 60 ft. Telescopic extension	2,893	1,312	3,172	1,439	-279	-127
Add: Auxiliary boom nose	116	53	235	107	-119	-54

# Grove TMS 875c



6-829-005671

BOLD LINES DETERMINE THE LIMITING POSITION OF ANY LOAD FOR OPERATION WITHIN WORKING AREAS INDICATED  
WORKING AREA DIAGRAM

## LINE PULLS AND REEVING INFORMATION

HOISTS	CABLE SPECS.	PERMISSIBLE LINE PULLS	NOMINAL CABLE LENGTH
Main & Aux. Model 30	<u>3/4" (19 mm)</u> 18x19 Class or 35x7 Rotation Resistant Min. Breaking Str. 64,800 lbs.	12,920 lbs.	620 ft.

## WEIGHT REDUCTIONS FOR LOAD HANDLING DEVICES

31 FT. - 58 FT. LUFFING FOLDING BOOM EXTENSION	
*31 ft. Extension (Erected)	4,980 lbs.
*58 ft. Extension (Erected)	9,760 lbs.
*Luffing folding ext. accessories	548 lbs.

\*Reduction of main boom capacities

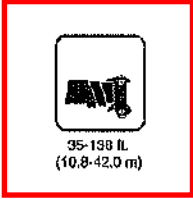
AUXILIARY BOOM NOSE	116 lbs.
HOOKBLOCKS and HEADACHE BALLS:	
75 Ton, 6 Sheave	1,710 lbs.+
75 Ton, 6 Sheave w/cheekplates	2,300 lbs.+
45 Ton, 3 Sheave	876 lbs.+
45 Ton, 3 Sheave w/cheekplates	1,066 lbs.+
15 Ton, 1 Sheave	380 lbs.+
10 Ton Headache Ball	560 lbs.+

+Refer to rating plate for actual weight.

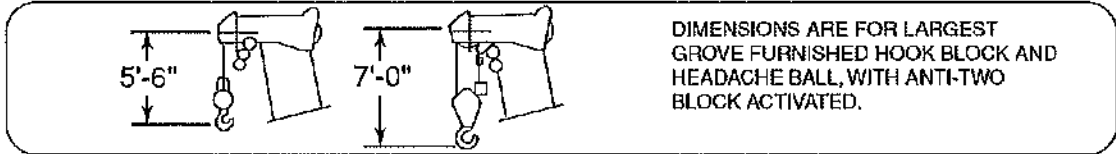
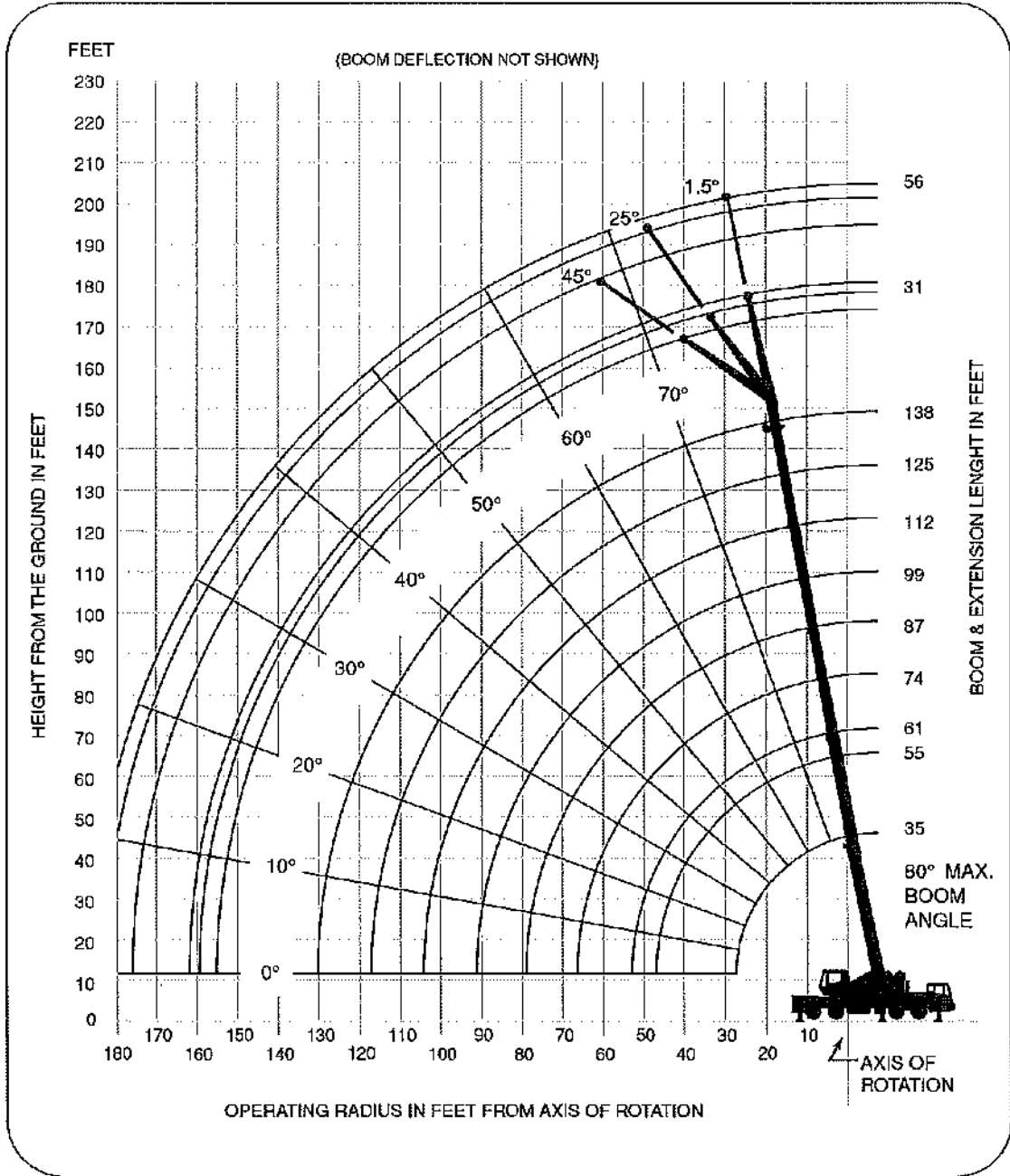
When lifting over swingaway and/or jib combinations, deduct total weight of all load handling devices reeved over main boom nose directly from swingaway or jib capacity.

**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.

# Working Range



## Grove TMS 875c





# Grove TMS 875c



## RATED LIFTING CAPACITIES IN POUNDS WITH 18,000 LB. COUNTERWEIGHT 35 FT. - 138 FT. BOOM (MODE B)

### ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet	#0501								
	Main Boom Length in Feet								
	35	55	61	74	87	99	112	125	138
10	+150,000 (65.5)	79,100 (76)	78,450 (77.5)	*57,050 (80)					
12	110,000 (62)	79,100 (73.5)	77,500 (75.5)	57,050 (78.5)	*43,300 (80)				
15	95,800 (56)	79,100 (70)	69,850 (72.5)	51,650 (76)	43,300 (78.5)	*32,100 (80)			
20	77,250 (44.5)	70,850 (64.5)	59,850 (67.5)	44,350 (71.5)	39,550 (75)	32,100 (77.5)	30,050 (79.5)	*20,150 (80)	
25	58,500 (29.5)	58,200 (58)	52,200 (62)	38,750 (67.5)	33,800 (71.5)	32,100 (74.5)	30,050 (77)	20,150 (79)	*19,000 (80)
30		45,850 (51)	46,200 (66.5)	34,200 (83)	29,200 (88)	30,200 (71.5)	27,350 (74.5)	19,100 (76.5)	18,300 (78.5)
35		37,100 (43.5)	37,500 (50)	29,050 (58.5)	25,800 (64)	26,600 (68.5)	24,300 (71.5)	18,100 (74)	17,650 (76.5)
40		27,050 (34.5)	27,500 (43)	25,150 (53.5)	22,900 (60)	23,450 (65)	21,600 (69)	17,250 (72)	17,000 (74)
45		22,000 (21.5)	22,450 (35)	21,800 (48.5)	20,000 (56)	20,450 (61.5)	19,250 (66)	16,450 (69)	16,350 (72)
50			18,500 (24.5)	18,550 (42.5)	17,500 (52)	17,900 (58.5)	16,900 (63)	15,750 (66.5)	15,700 (69.5)
60				12,800 (28)	12,800 (42.5)	14,000 (51)	13,250 (57)	13,100 (61.5)	13,300 (85)
70					8,830 (30)	10,150 (42.5)	10,700 (50)	10,700 (56)	11,050 (60)
80						7,160 (32)	8,240 (42.5)	8,660 (49.5)	8,120 (55)
90						4,800 (15.5)	5,870 (33.5)	6,700 (43)	7,380 (49.5)
100							4,010 (21)	4,840 (35)	5,500 (43)
110								3,340 (24.5)	4,000 (36)
120									2,760 (27)
130									1,720 (9.5)
Minimum boom angle (deg.) for indicated length (no load)									9
Maximum boom length (ft.) at 0 degree boom angle (no load)									125

NOTE: ( ) Boom angles are in degrees.

#LMI operating code. Refer to LMI manual for instructions.

\*This capacity is based on maximum boom angle.

+12 parts line required to lift this capacity (using aux. boom nose). Refer to Operator's and Safety Handbook for reeving diagram.

Lifting Capacities On Outriggers Fully Extended - 360° At Zero Degree Boom Angle										
Boom Angle	Main Boom Length in Feet									
	35	55	61	74	87	99	112	125		
0°	26,400 (28.2)	12,500 (47.4)	10,150 (53.8)	6,240 (66.6)	3,420 (79.4)	2,440 (92.2)	1,680 (105)	1,070 (117.8)		

NOTE: ( ) Reference radii in feet.

A6-829-100803

Ext. %									
Inner-mid	0	50	50	75	100	100	100	100	100
Center-mid	0	25	50	75	100	100	100	100	100
Outer-mid	0	0	0	0	0	25	50	75	100
Fly	0	0	0	0	0	25	50	75	100

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

# GroveTMS 875c



## RATED LIFTING CAPACITIES IN POUNDS WITH 18,000 LB. COUNTERWEIGHT 35 FT. - 138 FT. BOOM (MODE B) ON OUTRIGGERS 50% EXTENDED - 360°

Radius in Feet	#4501								
	Main Boom Length in Feet								
	35	55	61	74	87	99	112	125	138
10	90,500 (65.5)	79,100 (76)	78,450 (77.5)	*57,050 (80)					
12	79,150 (62)	78,800 (73.5)	77,500 (75.5)	57,050 (78.5)	*43,300 (80)				
15	66,050 (56)	65,750 (70)	66,000 (72.5)	51,650 (76)	43,300 (78.5)	*32,100 (80)			
20	51,950 (44.5)	51,800 (64.5)	51,900 (67.5)	44,350 (71.5)	39,550 (75)	32,100 (77.5)	30,050 (79.5)	*20,150 (80)	
25	38,700 (29.5)	37,800 (58)	36,300 (62)	37,050 (67.5)	33,800 (71.5)	32,100 (74.5)	30,050 (77)	20,150 (79)	*19,000 (80)
30		26,750 (51)	25,850 (56.5)	26,600 (63)	26,350 (68)	27,000 (71.5)	27,250 (74.5)	19,100 (76.5)	18,300 (78.5)
35		19,750 (43.5)	19,250 (50)	19,400 (58.5)	19,500 (64)	20,650 (68.5)	21,800 (71.5)	18,100 (74)	17,650 (76.5)
40		14,850 (34.5)	14,700 (43)	14,450 (53.5)	14,550 (60)	15,650 (66)	16,800 (69)	17,250 (72)	17,000 (74)
45		11,250 (21.5)	11,050 (35)	10,750 (48.5)	10,950 (58)	12,050 (61.5)	13,150 (66)	14,200 (69)	15,000 (72)
50	See Note 16		8,270 (24.5)	7,930 (42.5)	8,160 (52)	9,280 (58.5)	10,350 (63)	11,400 (66.5)	12,500 (69.5)
60				3,910 (28)	4,150 (42.5)	5,280 (51)	6,380 (57)	7,420 (61.5)	8,470 (65)
70					1,430 (30)	2,540 (42.5)	3,620 (50)	4,700 (56)	5,730 (60)
80							1,630 (42.5)	2,690 (49.5)	3,740 (55)
90								1,170 (43)	2,210 (49.5)
100									1,010 (43)
0.1A (lbs.)	1,250	1,340	1,310	1,330	1,350	1,230	1,140	1,070	1,020
Minimum boom angle (deg.) for indicated length (no load)					24	33	36	38	40
Maximum boom length (ft.) at 0 degree boom angle (no load)							74		

NOTE: ( ) Boom angles are in degrees.

#LMI operating code. Refer to LMI manual for instructions.

\*This capacity is based on maximum boom angle.

Lifting Capacities On Outriggers 50% Extended - 360° At Zero Degree Boom Angle									
Boom Angle	Main Boom Length in Feet								
	35	55	61	74					
0°	26,400 (28.2)	9,900 (47.4)	6,550 (53.8)	2,010 (66.6)					

NOTE: ( ) Reference radii in feet.

A6-829-014916

Ext. %									
Inner-mid	0	50	50	75	100	100	100	100	100
Center-mid	0	25	50	75	100	100	100	100	100
Outer-mid	0	0	0	0	0	25	50	75	100
Fly	0	0	0	0	0	25	50	75	100

# Grove TMS 875c



## RATED LIFTING CAPACITIES IN POUNDS WITH 8,500 LB. COUNTERWEIGHT 35 FT. - 138 FT. BOOM (MODE B) ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet	#0001								
	Main Boom Length in Feet								
	35	55	61	74	87	99	112	125	138
10	+150,000 (65.5)	79,100 (76)	78,450 (77.5)	*57,050 (80)					
12	110,000 (92)	79,100 (73.5)	77,500 (75.5)	57,050 (78.5)	*43,300 (80)				
15	95,800 (56)	79,100 (70)	69,850 (72.5)	51,650 (76)	43,300 (78.5)	*32,100 (80)			
20	70,700 (44.5)	70,300 (64.5)	59,850 (67.5)	44,350 (71.5)	39,550 (75)	32,100 (77.5)	30,050 (79.5)	*20,150 (80)	
25	53,150 (29.5)	52,850 (58)	52,200 (62)	38,750 (67.5)	33,800 (71.5)	32,100 (74.5)	30,050 (77)	20,150 (79)	*19,000 (80)
30		41,400 (51)	41,800 (56.5)	34,200 (63)	29,200 (68)	30,200 (71.5)	27,350 (74.5)	19,100 (76.5)	18,300 (78.5)
35		31,850 (43.5)	31,950 (50)	29,050 (58.5)	25,800 (64)	26,500 (68.5)	24,300 (71.5)	18,100 (74)	17,650 (76.5)
40		24,700 (34.5)	24,750 (43)	24,800 (53.5)	22,900 (60)	23,450 (65)	21,600 (69)	17,250 (72)	17,000 (74)
45		19,550 (21.5)	19,550 (35)	19,750 (48.5)	19,500 (56)	20,450 (61.5)	19,250 (66)	16,450 (69)	16,350 (72)
50			15,700 (24.5)	15,400 (42.5)	15,350 (52)	16,550 (58.5)	16,900 (63)	15,750 (66.5)	15,700 (69.5)
60				9,490 (28)	9,730 (42.5)	10,800 (51)	11,900 (57)	13,000 (61.5)	13,300 (65)
70					8,020 (30)	7,040 (42.5)	8,080 (50)	9,130 (56)	10,200 (60)
80						4,390 (32)	5,390 (42.5)	6,400 (49.5)	7,430 (55)
90						2,420 (15.5)	3,390 (33.5)	4,370 (43)	5,370 (49.5)
100							1,840 (21)	2,800 (35)	3,770 (43)
110								1,550 (24.5)	2,510 (36)
120									1,480 (27)
Minimum boom angle (deg.) for indicated length (no load)								5	10
Maximum boom length (ft.) at 0 degree boom angle (no load)								112	

NOTE: ( ) Boom angles are in degrees.

#LMI operating code. Refer to LMI manual for instructions.

\*This capacity is based on maximum boom angle.

+12 parts line required to lift this capacity (using aux. boom nose). Refer to Operator's and Safety Handbook for reeving diagram.

Lifting Capacities On Outriggers Fully Extended - 360° At Zero Degree Boom Angle										
Boom Angle	Main Boom Length in Feet									
	35	55	61	74	87	99	112			
0°	28,400 (28.2)	12,500 (47.4)	10,150 (53.8)	8,240 (66.6)	3,420 (79.4)	2,060 (92.2)	1,200 (105)			

NOTE: ( ) Reference radii in feet.

A6-829-100805

Ext. %									
Inner-mid	0	50	50	75	100	100	100	100	100
Center-mid	0	25	50	75	100	100	100	100	100
Outer-mid	0	0	0	0	0	25	50	75	100
Fly	0	0	0	0	0	25	50	75	100

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

# GroveTMS 875c



RATED LIFTING CAPACITIES IN POUNDS WITH 8,500 LB. COUNTERWEIGHT  
35 FT. - 138 FT. BOOM (MODE B)

ON OUTRIGGERS 50% EXTENDED - 360°

Radius In Feet	#4001								
	Main Boom Length in Feet								
	35	55	61	74	87	99	112	125	138
10	90,000 (65.5)	79,100 (76)	78,450 (77.5)	*57,050 (80)					
12	79,150 (62)	78,800 (73.5)	77,500 (75.5)	57,050 (78.5)	*43,300 (80)				
15	66,050 (56)	65,750 (70)	66,000 (72.5)	51,650 (76)	43,300 (78.5)	*32,100 (80)			
20	49,200 (44.5)	42,700 (64.5)	40,050 (67.5)	40,450 (71.5)	37,950 (75)	32,100 (77.5)	30,050 (79.5)	*20,150 (80)	
25	31,550 (29.5)	27,000 (58)	25,550 (62)	28,250 (67.5)	26,800 (71.5)	27,100 (74.5)	27,300 (77)	20,150 (79)	*19,000 (80)
30		18,400 (51)	17,500 (56.5)	20,000 (63)	18,800 (68)	20,100 (71.5)	20,650 (74.5)	19,100 (76.5)	18,300 (78.5)
35		12,900 (43.5)	12,450 (50)	13,900 (58.5)	13,100 (64)	14,300 (68.5)	15,550 (71.5)	16,350 (74)	16,600 (76.5)
40		9,150 (34.5)	8,970 (43)	9,670 (53.5)	9,210 (60)	10,350 (65)	11,500 (69)	12,650 (72)	13,300 (74)
45		6,390 (21.5)	6,400 (35)	6,580 (48.5)	6,350 (56)	7,450 (61.5)	8,550 (66)	9,650 (69)	10,700 (72)
50	See Note 16		4,450 (24.5)	4,210 (42.5)	4,160 (52)	5,230 (58.5)	6,290 (63)	7,350 (66.5)	8,410 (69.5)
60					1,040 (42.5)	2,060 (51)	3,070 (57)	4,080 (61.5)	5,090 (65)
70								1,880 (56)	2,840 (60)
80									1,210 (55)
0.1A (lbs.)	1,250	1,340	1,310	1,330	1,350	1,230	1,140	1,070	1,020
Minimum boom angle (deg.) for indicated length (no load)				31	42	47	51	53	54
Maximum boom length (ft.) at 0 degree boom angle (no load)				61					

NOTE: ( ) Boom angles are in degrees.

#LMI operating code. Refer to LMI manual for instructions.

\*This capacity is based on maximum boom angle.

Lifting Capacities On Outriggers 50% Extended - 360° At Zero Degree Boom Angle									
Boom Angle	Main Boom Length in Feet								
	35	55	61						
0°	24,800 (28.2)	5,340 (47.4)	3,270 (53.8)						

NOTE: ( ) Reference radii in feet.

A6-629-014531

Ext. %									
Inner-mid	0	50	50	75	100	100	100	100	100
Center-mid	0	25	50	75	100	100	100	100	100
Outer-mid	0	0	0	0	0	25	50	75	100
Fly	0	0	0	0	0	25	50	75	100



# Grove TMS 875c



RATED LIFTING CAPACITIES IN POUNDS WITHOUT COUNTERWEIGHT  
35 FT. - 138 FT. BOOM (MODE B)

ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet	#0801								
	Main Boom Length in Feet								
	35	55	61	74	87	99	112	125	138
10	+139,500 (65.5)	79,100 (76)	78,450 (77.5)	*57,050 (80)					
12	110,000 (62)	79,100 (73.5)	77,500 (75.5)	57,050 (78.5)	*43,300 (80)				
15	92,450 (56)	79,100 (70)	69,850 (72.5)	51,650 (76)	43,300 (78.5)	*32,100 (80)			
20	64,600 (44.5)	64,250 (64.5)	59,850 (67.5)	44,350 (71.5)	39,550 (75)	32,100 (77.5)	30,050 (79.5)	*20,150 (80)	
25	48,350 (29.5)	48,050 (58)	48,450 (62)	38,750 (67.5)	33,800 (71.5)	32,100 (74.5)	30,050 (77)	20,150 (79)	*19,000 (80)
30		34,400 (51)	34,050 (56.5)	34,050 (63)	29,200 (68)	30,200 (71.5)	27,350 (74.5)	19,100 (76.5)	18,300 (78.5)
35		25,150 (43.5)	24,500 (50)	25,200 (58.5)	25,250 (64)	26,600 (68.5)	24,300 (71.5)	18,100 (74)	17,650 (76.5)
40		18,650 (34.5)	18,400 (43)	19,300 (53.5)	18,750 (60)	20,050 (65)	21,350 (69)	17,250 (72)	17,000 (74)
45		14,150 (21.5)	14,150 (35)	14,400 (48.5)	14,100 (56)	15,350 (61.5)	16,550 (66)	16,450 (69)	16,350 (72)
50	See Note 16		11,050 (24.5)	10,750 (42.5)	10,700 (62)	11,850 (58.5)	13,050 (63)	14,250 (66.5)	15,450 (69.5)
60				5,810 (28)	6,040 (42.5)	7,110 (51)	8,210 (57)	9,310 (61.5)	10,400 (65)
70					2,970 (30)	3,990 (42.5)	5,030 (50)	6,080 (56)	7,140 (60)
80						1,780 (32)	2,780 (42.5)	3,800 (49.5)	4,820 (55)
90							1,120 (33.5)	2,100 (43)	3,100 (49.5)
100									1,760 (43)
Minimum boom angle (deg.) for indicated length (no load)					20	25	33	37	40
Maximum boom length (ft.) at 0 degree boom angle (no load)					74				

NOTE: ( ) Boom angles are in degrees.

#LMI operating code. Refer to LMI manual for instructions.

\*This capacity is based on maximum boom angle.

+12 parts line required to lift this capacity (using aux. boom nose). Refer to Operator's and Safety Handbook for reeving diagram.

Lifting Capacities On Outriggers Fully Extended - 360° At Zero Degree Boom Angle									
Boom Angle	Main Boom Length in Feet								
	35	55	61	74					
0°	26,400 (28.2)	12,500 (47.4)	9,190 (53.8)	3,540 (66.6)					

NOTE: ( ) Reference radii in feet.

A6-829-014539A

Ext. %									
Inner-mid	0	50	50	75	100	100	100	100	100
Center-mid	0	25	50	75	100	100	100	100	100
Outer-mid	0	0	0	0	0	25	50	75	100
Fly	0	0	0	0	0	25	50	75	100

# Grove TMS 875c



## RATED LIFTING CAPACITIES IN POUNDS WITHOUT COUNTERWEIGHT 35 FT. - 138 FT. BOOM (MODE B)

ON OUTRIGGERS 50% EXTENDED - 360°

Radius in Feet	#4801								
	Main Boom Length in Feet								
	35	55	61	74	87	99	112	125	138
10	87,250 (65.5)	79,100 (76)	78,460 (77.5)	*57,050 (80)					
12	76,000 (62)	76,700 (73.5)	75,900 (75.5)	57,060 (78.5)	*43,300 (80)				
15	64,400 (58)	54,750 (70)	53,200 (72.5)	48,600 (76)	43,300 (78.5)	*32,100 (80)			
20	38,000 (44.5)	31,500 (64.5)	28,850 (67.5)	30,260 (71.5)	28,150 (75)	28,600 (77.5)	28,450 (79.5)	*20,150 (80)	
25	23,600 (29.5)	19,050 (58)	17,600 (62)	20,350 (67.5)	19,000 (71.5)	19,750 (74.5)	20,150 (77)	20,150 (79)	*19,000 (80)
30		12,200 (51)	11,350 (56.5)	13,850 (63)	12,600 (68)	13,900 (71.5)	14,700 (74.5)	15,100 (76.5)	15,300 (78.5)
35		7,890 (43.5)	7,430 (50)	8,860 (58.5)	8,090 (64)	9,300 (68.5)	10,500 (71.5)	11,400 (74)	11,750 (76.5)
40		4,890 (34.5)	4,710 (43)	5,410 (53.5)	4,960 (60)	6,100 (65)	7,250 (69)	8,390 (72)	9,070 (74)
46		2,710 (21.5)	2,720 (35)	2,890 (48.5)	2,660 (56)	3,760 (61.5)	4,860 (66)	5,960 (69)	6,990 (72)
50	See Note 16		1,200 (24.5)			1,980 (58.5)	3,040 (63)	4,100 (66.5)	5,160 (69.5)
60								1,460 (61.5)	2,470 (65)
0.1A (lbs.)	1,250	1,340	1,310	1,330	1,350	1,230	1,140	1,070	1,020
Minimum boom angle (deg.) for indicated length (no load)			23	43	53	56	58	60	62
Maximum boom length (ft.) at 0 degree boom angle (no load)			55						

NOTE: ( ) Boom angles are in degrees.

#LMI operating code. Refer to LMI manual for instructions.

\*This capacity is based on maximum boom angle.

Lifting Capacities On Outriggers 50% Extended - 360° At Zero Degree Boom Angle									
Boom Angle	Main Boom Length in Feet								
	35	55							
0°	18,100 (28.2)	1,880 (47.4)							

NOTE: ( ) Reference radii in feet.

A6-829-014540

Ext. %									
Inner-mid	0	50	50	75	100	100	100	100	100
Center-mid	0	25	50	75	100	100	100	100	100
Outer-mid	0	0	0	0	0	25	50	75	100
Fly	0	0	0	0	0	25	50	75	100

# Grove TMS 875c



## RATED LIFTING CAPACITIES IN POUNDS WITH 18,000 LB. COUNTERWEIGHT 35 FT. - 138 FT. BOOM (MODE A)

### ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet	#0501						
	Main Boom Length in Feet						
	35	61	74	87	99	112	138
10	+150,000 (65.5)	42,900 (77.5)	*32,100 (80)				
12	110,000 (62)	42,000 (75.5)	32,100 (78.5)	*31,850 (80)			
15	95,800 (56)	36,550 (72.5)	32,100 (76)	31,850 (78.5)	*21,350 (80)		
20	77,250 (44.5)	29,400 (67.5)	31,350 (71.5)	28,850 (75)	21,350 (77.5)	19,000 (79.5)	
25	58,500 (29.5)	24,350 (62)	26,450 (67.5)	25,050 (71.5)	20,850 (74.5)	18,150 (77)	*19,000 (80)
30		20,500 (56.5)	22,300 (53)	21,550 (68)	18,650 (71.5)	17,300 (74.5)	18,300 (78.5)
35		17,450 (50)	19,100 (58.5)	18,500 (64)	16,900 (68.5)	16,450 (71.5)	17,650 (76.5)
40		15,050 (43)	16,500 (53.5)	16,000 (60)	15,300 (65)	15,650 (69)	17,000 (74)
45		13,100 (35)	14,450 (48.5)	14,000 (56)	13,650 (61.5)	14,150 (66)	16,850 (72)
50		11,450 (24.5)	12,750 (42.5)	12,350 (52)	12,100 (58.5)	12,700 (63)	15,700 (69.5)
60			10,050 (28)	9,780 (42.5)	9,560 (51)	10,150 (57)	13,300 (65)
70				7,860 (50)	7,710 (42.5)	8,220 (50)	11,050 (60)
80					6,270 (32)	6,730 (42.5)	9,120 (55)
90					4,800 (15.5)	5,550 (33.5)	7,380 (49.5)
100						4,010 (21)	5,500 (43)
110							4,000 (36)
120							2,760 (27)
130							1,720 (9.5)
Minimum boom angle (deg.) for indicated length (no load)						0	9
Maximum boom length (ft.) at 0 degree boom angle (no load)						112	125

NOTE: ( ) Boom angles are in degrees.

#LMI operating code. Refer to LMI manual for instructions.

\*This capacity is based on maximum boom angle.

+12 parts line required to lift this capacity (using aux. boom nose). Refer to Operator's and Safety Handbook for reeving diagram.

Lifting Capacities On Outriggers Fully Extended - 360° At Zero Degree Boom Angle							
Boom Angle	Main Boom Length in Feet						
	35	61	74	87	99	112	
0°	26,400 (26.2)	10,150 (53.8)	6,240 (66.6)	3,420 (79.4)	2,440 (92.2)	1,680 (106)	

NOTE: ( ) Reference radii in feet.

A6-829-100798

Ext. %							
inner-mid	0	0	0	0	0	0	100
Center-mid	0	100	100	100	100	100	100
Outer-mid	0	0	25	50	75	100	100
Fly	0	0	25	50	75	100	100

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

# Grove TMS 875c



## RATED LIFTING CAPACITIES IN POUNDS WITH 18,000 LB. COUNTERWEIGHT 35 FT. - 138 FT. BOOM (MODE A)

### ON OUTRIGGERS 50% EXTENDED - 360°

Radius in Feet	#4501						
	Main Boom Length in Feet						
	35	61	74	87	99	112	138
10	90,500 (65.5)	42,900 (77.5)	*32,100 (80)				
12	79,150 (62)	42,000 (75.5)	32,100 (78.5)	*31,850 (80)			
15	66,050 (56)	36,550 (72.5)	32,100 (76)	31,850 (78.5)	*21,350 (80)		
20	51,950 (44.5)	29,400 (67.5)	31,350 (71.5)	28,850 (75)	21,350 (77.5)	19,000 (79.5)	
25	38,700 (29.5)	24,350 (62)	26,450 (67.5)	25,050 (71.5)	20,850 (74.5)	18,150 (77)	*19,000 (80)
30		20,500 (56.5)	22,300 (63)	21,550 (68)	18,650 (71.5)	17,300 (74.5)	18,300 (78.5)
35		17,450 (50)	19,100 (58.5)	18,500 (64)	16,900 (68.5)	16,450 (71.5)	17,650 (76.5)
40	See Note 16	15,050 (43)	16,500 (53.5)	16,000 (60)	15,300 (65)	15,650 (69)	17,000 (74)
45		12,150 (35)	13,300 (48.5)	13,900 (56)	13,650 (61.5)	14,150 (66)	15,000 (72)
50		9,300 (24.5)	10,450 (42.5)	10,850 (52)	12,100 (58.5)	12,700 (63)	12,500 (69.5)
60			6,330 (28)	6,490 (42.5)	7,880 (51)	8,940 (57)	8,470 (65)
70				3,340 (30)	4,800 (42.5)	5,850 (50)	5,730 (60)
80					2,430 (32)	3,510 (42.5)	3,740 (55)
90						1,700 (33.5)	2,210 (49.5)
100							1,010 (43)
0.1A (lbs.)	1,250	1,060	970	900	850	1,020	1,020
Minimum boom angle (deg.) for indicated length (no load)					16	22	40
Maximum boom length (ft.) at 0 degree boom angle (no load)						87	

NOTE: ( ) Boom angles are in degrees.

#LMI operating code. Refer to LMI manual for instructions.

\*This capacity is based on maximum boom angle.

Lifting Capacities On Outriggers 50% Extended - 360° At Zero Degree Boom Angle							
Boom Angle	Main Boom Length in Feet						
	35	61	74	87			
0°	26,400 (28.2)	7,550 (53.8)	4,250 (66.6)	1,060 (79.4)			

NOTE: ( ) Reference radii in feet.

A6-829-014918A

Ext. %							
Inner-mid	0	0	0	0	0	0	100
Center-mid	0	100	100	100	100	100	100
Outer-mid	0	0	25	50	75	100	100
Fly	0	0	25	50	75	100	100



# Grove TMS 875c



## RATED LIFTING CAPACITIES IN POUNDS WITH 8,500 LB. COUNTERWEIGHT 35 FT. - 138 FT. BOOM (MODE A)

### ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet	#0001						
	Main Boom Length in Feet						
	35	61	74	87	99	112	138
10	+150,000 (65.5)	42,900 (77.5)	*32,100 (80)				
12	110,000 (62)	42,000 (75.5)	32,100 (78.5)	*31,850 (80)			
15	95,800 (56)	36,550 (72.5)	32,100 (76)	31,850 (78.5)	*21,350 (80)		
20	70,700 (44.5)	29,400 (67.5)	31,350 (71.5)	28,850 (75)	21,350 (77.5)	19,000 (79.5)	
25	53,150 (29.5)	24,350 (62)	26,450 (67.5)	25,050 (71.5)	20,850 (74.5)	18,150 (77)	*19,000 (80)
30		20,500 (55.5)	22,300 (63)	21,550 (68)	18,650 (71.5)	17,300 (74.5)	18,300 (78.5)
35		17,450 (50)	19,100 (58.5)	18,500 (64)	16,900 (68.5)	16,450 (71.5)	17,650 (76.5)
40		15,050 (43)	16,500 (53.5)	16,000 (60)	15,300 (65)	15,650 (69)	17,000 (74)
45		13,100 (35)	14,450 (48.5)	14,000 (55)	13,650 (61.5)	14,150 (66)	16,350 (72)
50		11,450 (24.5)	12,750 (42.5)	12,350 (52)	12,100 (58.5)	12,700 (63)	15,700 (69.5)
60			10,050 (28)	9,780 (42.5)	9,580 (51)	10,150 (57)	13,300 (65)
70				7,860 (30)	7,710 (42.5)	8,220 (50)	10,200 (60)
80					6,270 (32)	6,730 (42.5)	7,430 (55)
90					4,800 (15.5)	5,550 (33.5)	5,370 (49.5)
100						4,010 (21)	3,770 (43)
110							2,510 (36)
120							1,480 (27)
Minimum boom angle (deg.) for indicated length (no load)						0	10
Maximum boom length (ft.) at 0 degree boom angle (no load)						112	

NOTE: ( ) Boom angles are in degrees.

#LMI operating code. Refer to LMI manual for instructions.

\*This capacity is based on maximum boom angle.

+12 parts line required to lift this capacity (using aux. boom nose). Refer to Operator's and Safety Handbook for reeving diagram.

Lifting Capacities On Outriggers Fully Extended - 360° At Zero Degree Boom Angle							
Boom Angle	Main Boom Length in Feet						
	35	61	74	87	99	112	
0°	26,400 (28.2)	10,150 (53.8)	6,240 (66.8)	3,420 (79.4)	2,440 (92.2)	1,680 (105)	

NOTE: ( ) Reference radii in feet.

A6-829-100800

Ext. %							
Inner-mid	0	0	0	0	0	0	100
Center-mid	0	100	100	100	100	100	100
Outer-mid	0	0	25	50	75	100	100
Fly	0	0	25	50	75	100	100

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

# Grove TMS 875c



RATED LIFTING CAPACITIES IN POUNDS WITH 8,500 LB. COUNTERWEIGHT  
35 FT. - 138 FT. BOOM (MODE A)  
ON OUTRIGGERS 50% EXTENDED - 360°

Radius in Feet	#4001						
	Main Boom Length in Feet						
	35	61	74	87	99	112	138
10	90,500 (65.5)	42,900 (77.5)	*32,100 (80)				
12	79,150 (62)	42,000 (75.5)	32,100 (78.5)	*31,850 (80)			
15	66,050 (56)	36,550 (72.5)	32,100 (78)	31,850 (78.5)	*21,350 (80)		
20	49,200 (44.5)	29,400 (67.5)	31,350 (71.5)	28,850 (75)	21,350 (77.5)	19,000 (79.5)	
25	31,550 (29.5)	24,350 (62)	26,450 (67.5)	25,050 (71.5)	20,850 (74.5)	18,150 (77)	*19,000 (80)
30		20,500 (56.5)	22,300 (63)	21,550 (68)	18,650 (71.5)	17,300 (74.5)	18,300 (78.5)
35		16,450 (50)	17,650 (58.5)	18,500 (64)	16,900 (68.5)	16,450 (71.5)	16,600 (76.5)
40		12,050 (43)	13,250 (53.5)	14,350 (60)	15,300 (65)	15,650 (69)	13,300 (74)
45		8,840 (35)	10,000 (48.5)	11,150 (56)	12,200 (61.5)	13,250 (66)	10,700 (72)
50	See Note 16	6,370 (24.5)	7,520 (42.5)	8,640 (52)	9,720 (58.5)	10,750 (63)	8,410 (69.5)
60			3,960 (28)	5,050 (42.5)	6,120 (51)	7,160 (57)	5,090 (65)
70				2,610 (30)	3,650 (42.5)	4,680 (50)	2,840 (60)
80					1,870 (32)	2,880 (42.5)	1,210 (55)
90						1,510 (33.5)	
0.1A (lbs.)	1,250	1,190	1,060	970	900	850	1,020
Minimum boom angle (deg.) for indicated length (no load)				15	24	30	54
Maximum boom length (ft.) at 0 degree boom angle (no load)				74			

NOTE: ( ) Boom angles are in degrees.

#LMI operating code. Refer to LMI manual for instructions.

\*This capacity is based on maximum boom angle.

Lifting Capacities On Outriggers 50% Extended - 360° At Zero Degree Boom Angle							
Boom Angle	Main Boom Length in Feet						
	35	61	74				
0°	24,800 (28.2)	4,860 (53.8)	2,280 (66.6)				

NOTE: ( ) Reference radii in feet.

A6:829-014472

Ext. %							
Inner-mid	0	0	0	0	0	0	100
Center-mid	0	100	100	100	100	100	100
Outer-mid	0	0	25	50	75	100	100
Fly	0	0	25	50	75	100	100

# Grove TMS 875c



RATED LIFTING CAPACITIES IN POUNDS WITHOUT COUNTERWEIGHT  
 35 FT. - 138 FT. BOOM (MODE A)  
 ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet	#0801						
	Main Boom Length in Feet						
	35	61	74	87	99	112	138
10	+139,500 (65.5)	42,900 (77.5)	*32,100 (80)				
12	110,000 (62)	42,000 (75.5)	32,100 (78.6)	*31,850 (80)			
15	92,450 (56)	36,550 (72.5)	32,100 (76)	31,850 (78.5)	*21,350 (80)		
20	64,600 (44.5)	29,400 (67.5)	31,350 (71.5)	28,850 (75)	21,350 (77.5)	19,000 (79.5)	
25	48,350 (29.5)	24,350 (62)	26,450 (67.5)	25,050 (71.5)	20,850 (74.5)	18,150 (77)	*19,000 (80)
30		20,500 (56.5)	22,300 (63)	21,550 (68)	18,650 (71.5)	17,300 (74.5)	18,300 (78.5)
35		17,450 (50)	19,100 (58.5)	18,500 (64)	16,900 (68.5)	16,450 (71.5)	17,650 (76.5)
40		15,050 (43)	16,500 (53.5)	16,000 (60)	15,300 (65)	15,650 (69)	17,000 (74)
45		13,100 (35)	14,450 (48.5)	14,000 (56)	13,650 (61.5)	14,150 (66)	16,350 (72)
50	See Note 16	11,450 (24.5)	12,750 (42.5)	12,350 (52)	12,100 (58.5)	12,700 (63)	15,450 (69.5)
60			9,160 (28)	9,710 (42.5)	9,580 (51)	10,150 (57)	10,400 (65)
70				5,990 (30)	7,430 (42.5)	8,220 (50)	7,140 (60)
80					4,720 (32)	5,790 (42.5)	4,820 (55)
90					2,550 (15.5)	3,700 (33.5)	3,100 (49.5)
100						1,990 (21)	1,760 (43)
Minimum boom angle (deg.) for indicated length (no load)						0	40
Maximum boom length (ft.) at 0 degree boom angle (no load)						112	

NOTE: ( ) Boom angles are in degrees.

#LMI operating code. Refer to LMI manual for instructions.

\*This capacity is based on maximum boom angle.

+12 parts line required to lift this capacity (using aux. boom nose). Refer to Operator's and Safety Handbook for reeving diagram.

Lifting Capacities On Outriggers Fully Extended - 360° At Zero Degree Boom Angle							
Boom Angle	Main Boom Length in Feet						
	35	61	74	87	99	112	
0°	26,400 (28.2)	10,150 (53.8)	6,240 (66.6)	3,330 (79.4)	2,130 (92.2)	1,260 (105)	

NOTE: ( ) Reference radii in feet.

A6-829-014471A

Ext. %							
Inner-mid	0	0	0	0	0	0	100
Center-mid	0	100	100	100	100	100	100
Outer-mid	0	0	25	50	75	100	100
Fly	0	0	25	50	75	100	100

# Grove TMS 875c



## RATED LIFTING CAPACITIES IN POUNDS WITHOUT COUNTERWEIGHT 35 FT. - 138 FT. BOOM (MODE A)

### ON OUTRIGGERS 50% EXTENDED - 360°

Radius in Feet	#4801						
	Main Boom Length in Feet						
	35	61	74	87	99	112	138
10	87,250 (65.5)	42,900 (77.5)	*32,100 (80)				
12	76,000 (62)	42,000 (75.5)	32,100 (78.5)	*31,850 (80)			
15	64,400 (56)	36,550 (72.5)	32,100 (76)	31,850 (78.5)	*21,350 (80)		
20	38,000 (44.5)	29,400 (67.5)	31,350 (71.5)	28,850 (75)	21,350 (77.5)	19,000 (79.5)	
25	23,600 (29.5)	23,750 (62)	24,500 (67.5)	24,750 (71.5)	20,850 (74.5)	18,150 (77)	*19,000 (80)
30		16,650 (56.5)	17,800 (63)	18,550 (68)	18,650 (71.5)	17,300 (74.5)	15,300 (78.5)
35		11,450 (50)	12,600 (58.5)	13,750 (64)	14,650 (68.5)	14,850 (71.5)	11,750 (76.5)
40		7,810 (43)	9,030 (53.5)	10,100 (60)	11,200 (66)	11,900 (69)	9,070 (74)
45		5,150 (35)	6,330 (48.5)	7,470 (56)	8,520 (61.5)	9,570 (66)	6,990 (72)
50	See Note 16	3,120 (24.5)	4,270 (42.5)	5,390 (52)	6,460 (58.5)	7,500 (63)	5,160 (69.5)
60			1,330 (28)	2,420 (42.5)	3,490 (51)	4,530 (57)	2,470 (65)
70					1,440 (42.5)	2,470 (50)	
0.1A (lbs.)	1,250	1,190	1,060	970	900	850	1,020
Minimum boom angle (deg.) for indicated length (no load)			26	33	39	44	62
Maximum boom length (ft.) at 0 degree boom angle (no load)			61				

NOTE: ( ) Boom angles are in degrees.

#LMI operating code. Refer to LMI manual for instructions.

\*This capacity is based on maximum boom angle.

Lifting Capacities On Outriggers 50% Extended - 360° At Zero Degree Boom Angle							
Boom Angle	Main Boom Length in Feet						
	35	61					
0°	18,100 (28.2)	1,880 (53.8)					

NOTE: ( ) Reference radii in feet.

A6-829-014475

Ext. %							
Inner-mid	0	0	0	0	0	0	100
Center-mid	0	100	100	100	100	100	100
Outer-mid	0	0	25	50	75	100	100
Fly	0	0	25	50	75	100	100



## 31 FT. - 56 FT. FOLDING BOOM EXTENSION WITH 18,000 LB. COUNTERWEIGHT USING 138 FT. MAIN BOOM ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet	31 FT. LENGTH			56 FT. LENGTH		
	#0521	#0522	#0523	#0541	#0542	#0543
	1.5° OFFSET	25° OFFSET	45° OFFSET	1.5° OFFSET	25° OFFSET	45° OFFSET
35	9,500 (79.5)					
40	9,500 (78)			*5,500 (80)		
45	9,500 (76.5)	*8,750 (80)		5,400 (79.5)		
50	9,500 (75)	7,490 (78.5)	*7,800 (80)	5,300 (78)		
60	9,110 (71.5)	7,060 (75)	6,740 (77)	5,100 (75.5)	*4,640 (80)	
70	8,450 (68.5)	6,720 (71.5)	6,460 (73.5)	4,900 (72.5)	4,430 (78)	*3,600 (80)
80	7,550 (64.5)	6,330 (68)	6,350 (69.5)	4,700 (69.5)	4,220 (74.5)	3,500 (77.5)
90	6,990 (60.5)	6,060 (64)	6,280 (65.5)	4,500 (68.5)	4,120 (71)	3,400 (74)
100	6,330 (56.5)	5,820 (60)	6,220 (61)	4,300 (63.5)	3,810 (67.5)	3,300 (70.5)
110	4,820 (52)	5,400 (55.5)	5,670 (56.5)	4,100 (59.5)	3,600 (64)	3,200 (67)
120	3,580 (47)	4,050 (50.5)	4,050 (52)	3,900 (56)	3,400 (60.5)	3,100 (63)
130	2,550 (41.5)	2,910 (45)		3,190 (52)	3,190 (58)	3,000 (58.5)
140	1,880 (35.5)	1,940 (38.5)		2,300 (47.5)	2,980 (51.5)	2,900 (53.5)
150				1,540 (42.5)	2,100 (46.5)	
160					1,300 (41)	
<b>No Load Stability Data</b>						
Minimum boom angle (deg.) for indicated length	32	32	45	40	40	45
Maximum boom length (ft.) at 0 deg. boom angle	112			99		

NOTE: ( ) Boom angles are in degrees.

A6-829-014929

#LMI operating code. Refer to LMI manual for operating instructions.

\*This capacity is based on maximum boom angle.

1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765 NOV93.
2. 31 ft. and 56 ft. folding boom extension lengths may be used for single line lifting service only.
3. For main boom lengths between 125 ft. and fully extended with the boom extension erected, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is set up. For boom angles not shown, use rating of the next lower boom angle.
4. **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.
5. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
6. Capacities listed are with outriggers properly extended and vertical jacks set only.

31 FT. - 56 FT. FOLDING BOOM EXTENSION  
 WITH 8,500 LB. COUNTERWEIGHT USING 138 FT. MAIN BOOM  
 ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet	31 FT. LENGTH			56 FT. LENGTH		
	#0021	#0022	#0023	#0041	#0042	#0043
	1.5° OFFSET	25° OFFSET	45° OFFSET	1.5° OFFSET	25° OFFSET	45° OFFSET
35	9,500 (79.5)					
40	9,500 (78)			*5,500 (80)		
45	9,500 (76.5)	*8,750 (80)		5,400 (79.5)		
50	9,500 (75)	7,490 (78.5)	*7,800 (80)	5,300 (78)		
60	9,110 (71.5)	7,060 (75)	6,740 (77)	5,100 (75.5)	*4,640 (80)	
70	8,450 (68.5)	6,720 (71.5)	6,460 (73.5)	4,900 (72.5)	4,430 (78)	*3,600 (80)
80	7,550 (64.5)	6,330 (68)	6,350 (69.5)	4,700 (69.5)	4,220 (74.5)	3,500 (77.5)
90	6,200 (60.5)	6,060 (64)	6,280 (65.5)	4,500 (66.5)	4,120 (71)	3,400 (74)
100	4,530 (56.5)	5,330 (60)	5,580 (61)	4,300 (63.5)	3,810 (67.5)	3,300 (70.5)
110	3,200 (52)	3,860 (55.5)	3,970 (56.5)	4,100 (59.5)	3,600 (64)	3,200 (67)
120	2,120 (47)	2,660 (50.5)	2,660 (52)	3,120 (56)	3,400 (60.5)	3,100 (63)
130	1,220 (41.5)	1,660 (45)		2,150 (52)	2,640 (56)	3,000 (58.5)
140				1,320 (47.5)	1,640 (51.5)	1,920 (53.5)
<b>No Load Stability Data</b>						
Minimum boom angle (deg.) for indicated length	39	44	45	47	49	50
Maximum boom length (ft.) at 0 deg. boom angle	99			87		

NOTE: ( ) Boom angles are in degrees.

A6-829-014543A

#LMI operating code. Refer to LMI manual for operating instructions.

\*This capacity is based on maximum boom angle.

1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765 NOV93.
2. 31 ft. and 56 ft. folding boom extension lengths may be used for single line lifting service only.
3. For main boom lengths between 125 ft. and fully extended with the boom extension erected, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is set up. For boom angles not shown, use rating of the next lower boom angle.
4. **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.
5. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
6. Capacities listed are with outriggers properly extended and vertical jacks set only.

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

## 31 FT. - 56 FT. LUFFING FOLDING BOOM EXTENSION WITH 18,000 LB. COUNTERWEIGHT USING 138 FT. MAIN BOOM ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet (reference)	31 FT. LENGTH			56 FT. LENGTH		
	#5910	#5911	#5912	#5920	#5921	#5922
	1.5° OFFSET	25° OFFSET	45° OFFSET	1.5° OFFSET	25° OFFSET	45° OFFSET
35	9,500 (79.5)					
40	9,500 (78)			*5,600 (80)		
45	9,500 (76.5)	*8,750 (80)		5,400 (79.5)		
50	9,500 (75)	7,490 (78.5)	*7,800 (80)	5,300 (78)		
60	9,110 (71.5)	7,060 (75)	6,740 (77)	5,100 (75.5)	*4,640 (80)	
70	8,450 (68.5)	6,720 (71.5)	6,460 (73.5)	4,900 (72.5)	4,430 (78)	*3,600 (80)
80	7,550 (64.5)	6,330 (68)	6,350 (69.5)	4,700 (69.5)	4,220 (74.5)	3,500 (77.5)
90	6,990 (60.5)	6,060 (64)	6,160 (65.5)	4,500 (66.5)	4,120 (71)	3,400 (74)
100	6,250 (56.5)	5,820 (60)	5,860 (61)	4,300 (63.5)	3,810 (67.5)	3,300 (70.5)
110	4,760 (52)	5,340 (55.5)	5,470 (56.5)	4,100 (59.5)	3,600 (64)	3,200 (67)
120	3,540 (47)	3,920 (50.5)	3,960 (51)	3,900 (56)	3,400 (60.5)	3,100 (63)
130	2,530 (41.5)	2,750 (45)		3,190 (52)	3,190 (56)	3,000 (58.5)
140	1,670 (35.5)	1,750 (38.5)		2,300 (47.5)	2,980 (51.5)	2,900 (53.5)
150				1,540 (42.5)	2,100 (46.5)	
160					1,300 (41)	
<b>No Load Stability Data</b>						
Minimum boom angle (deg.) for indicated length	32	32	45	40	40	45
Maximum boom length (ft.) at 0° boom angle	112			99		

NOTE: ( ) Boom angles are in degrees.

A6-829-100347

#LMI operating code, for reference only (does not require input - automatically displayed). Refer to LMI manual for operating instructions.

\*This capacity is based on maximum boom angle.

- Capacities are based on main boom angles in conjunction with extension offset angle. Radii are for 138' main boom length only.
- All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765.
- 31 ft. and 56 ft. luffing folding boom extension lengths may be used for single line lifting service only.
- For main boom lengths between 125 ft. and fully extended with the boom extension erected, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is set up. For boom angles not shown, use rating of the next lower boom angle. For extension offset angles not shown, use rating of next greater offset angle.
- 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.
- Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- Capacities listed are with outriggers properly extended and vertical jacks set only.

# Grove TMS 875c



## 31 FT. - 56 FT. LUFFING FOLDING BOOM EXTENSION WITH 18,000 LB. COUNTERWEIGHT USING 138 FT. MAIN BOOM

ON OUTRIGGERS 50% EXTENDED - 360°

Radius in Feet (reference)	31 FT. LENGTH			56 FT. LENGTH		
	#45910	#45911	#45912	#45920	#45921	#45922
	1.5° OFFSET	25° OFFSET	45° OFFSET	1.5° OFFSET	25° OFFSET	45° OFFSET
35	9,500 (79.5)					
40	9,500 (78)			*5,500 (80)		
45	9,500 (76.5)	*8,750 (80)		5,400 (79.5)		
50	9,500 (75)	7,490 (78.5)	*7,800 (80)	5,300 (78)		
60	8,610 (71.5)	7,060 (75)	6,740 (77)	5,100 (75.5)	*4,640 (80)	
70	8,030 (68.5)	6,720 (71.5)	6,460 (73.5)	4,900 (72.5)	4,430 (78)	*3,600 (80)
80	3,950 (64.5)	4,970 (68)	5,500 (69.5)	4,700 (69.5)	4,220 (74.5)	3,500 (77.5)
90	2,380 (60.5)	3,190 (64)	3,560 (65.5)	3,290 (66.5)	4,120 (71)	3,400 (74)
100	1,160 (56.5)	1,800 (60)	2,040 (61)	2,090 (63.5)	3,300 (67.5)	3,300 (70.5)
110				1,090 (59.5)	2,100 (64)	2,420 (67)
120					1,120 (60.5)	1,420 (63)
0.1A (lbs.)	1020	970	930	930	900	840
Minimum boom angle (deg.) for indicated length	52	53	54	56	58	58
Maximum boom length (ft.) at 0 deg. boom angle	74			61		

NOTE: ( ) Boom angles are in degrees.

A6-829-100359

#LMI operating code, for reference only (does not require input - automatically displayed). Refer to LMI manual for operating instructions.

\* This capacity is based on maximum boom angle.

- Capacities are based on main boom angle in conjunction with extension offset angle. Radii are for 138' main boom length only.
- All capacities above the bold line are based on structural strength of boom extension. Capacities correspond to SAE J1289 (Test Load = 1.25P + 0.1A). 0.1A represents one-tenth (0.10) of the total boom weight reduced to the boom point.
- 31 ft. and 56 ft. luffing folding boom extension lengths may be used for single line lifting service only.
- For main boom lengths between 125 ft. and fully extended with the boom extension erected, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is set up. For boom angles not shown, use rating of the next lower boom angle. For extension offset angles not shown, use rating of next greater offset angle.
- 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.
- Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- Capacities listed are with outriggers properly extended and vertical jacks set only.



## 31 FT. - 56 FT. LUFFING FOLDING BOOM EXTENSION WITH 8,500 LB. COUNTERWEIGHT USING 138 FT. MAIN BOOM ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet (reference)	31 FT. LENGTH			56 FT. LENGTH		
	#0910	#0911	#0912	#0920	#0921	#0922
	1.5° OFFSET	25° OFFSET	45° OFFSET	1.5° OFFSET	25° OFFSET	45° OFFSET
35	9,500 (79.5)					
40	9,500 (78)			*5,500 (80)		
45	9,500 (76.5)	*8,750 (80)		5,400 (79.5)		
50	9,500 (75)	7,490 (78.5)	*7,800 (80)	5,300 (78)		
60	9,110 (71.5)	7,080 (75)	6,740 (77)	5,100 (75.5)	*4,640 (80)	
70	8,450 (68.5)	6,720 (71.5)	6,460 (73.5)	4,900 (72.5)	4,430 (78)	*3,600 (80)
80	7,550 (64.5)	6,330 (68)	6,350 (69.5)	4,700 (69.5)	4,220 (74.5)	3,500 (77.5)
90	5,600 (60.5)	6,060 (64)	6,160 (65.5)	4,500 (66.5)	4,120 (71)	3,400 (74)
100	4,020 (56.5)	5,030 (60)	5,220 (61)	4,300 (63.5)	3,910 (67.5)	3,300 (70.5)
110	2,760 (52)	3,470 (55.5)	3,590 (56.5)	3,950 (59.5)	3,600 (64)	3,200 (67)
120	1,740 (47)	2,200 (50.5)	2,270 (51)	2,820 (56)	3,400 (60.5)	3,100 (63)
130		1,140 (45)		1,780 (52)	2,580 (56)	2,940 (58.5)
140					1,600 (51.5)	1,880 (53.5)
<b>No Load Stability Data</b>						
Minimum boom angle (deg.) for indicated length	39	44	45	47	49	50
Maximum boom length (ft.) at 0 deg. boom angle	87			74		

NOTE: ( ) Boom angles are in degrees.

A6-829-100349

#LMI operating code, for reference only (does not require input - automatically displayed). Refer to LMI manual for operating instructions.

\*This capacity is based on maximum boom angle.

1. Capacities are based on main boom angle in conjunction with extension offset angle. Radii are for 138 ft. main boom length only.
2. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765.
3. 31 ft. and 56 ft. luffing folding boom extension lengths may be used for single line lifting service only.
4. For main boom lengths between 125 ft. and fully extended with the boom extension erected, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is set up. For boom angles not shown, use rating of the next lower boom angle. For extension offset angles not shown, use rating of next greater offset angle.
5. **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.
6. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
7. Capacities listed are with outriggers properly extended and vertical jacks set only.

## 31 FT. - 56 FT. LUFFING FOLDING BOOM EXTENSION WITH 8,500 LB. COUNTERWEIGHT USING 138 FT. MAIN BOOM

ON OUTRIGGERS 50% EXTENDED - 360°

Radius in Feet (reference)	31 FT. LENGTH			56 FT. LENGTH		
	#40910	#40911	#40912	#40920	#40921	#40922
	1.5° OFFSET	25° OFFSET	45° OFFSET	1.5° OFFSET	25° OFFSET	45° OFFSET
35	9,500 (79.5)					
40	9,500 (78)			*5,500 (80)		
45	9,500 (76.5)	*8,750 (80)		5,400 (79.5)		
50	8,450 (75)	7,490 (78.5)	*7,800 (80)	5,300 (78)		
60	5,520 (71.5)	6,950 (75)	6,740 (77)	5,100 (75.5)	*4,640 (80)	
70	3,410 (68.5)	4,580 (71.5)	5,340 (73.5)	4,050 (72.5)	4,430 (78)	*3,600 (80)
80	1,820 (64.5)	2,790 (68)	3,370 (69.5)	2,470 (69.5)	4,220 (74.5)	3,500 (77.5)
90		1,330 (64)	1,690 (65.5)	1,230 (68.5)	2,760 (71)	3,290 (74)
100					1,540 (67.5)	1,980 (70.5)
0.1A (lbs.)	1020	970	930	930	900	840
<b>No Load Stability Data</b>						
Minimum boom angle (deg.) for indicated length	61	62	63	64	65	66
Maximum boom length (ft.) at 0 deg. boom angle	55			35		

NOTE: ( ) Boom angles are in degrees.

A6-829-100361

#LMI operating code, for reference only (does not require input - automatically displayed). Refer to LMI manual for operating instructions.

\* This capacity is based on maximum boom angle.

- Capacities are based on main boom angle in conjunction with extension offset angle. Radii are for 138' main boom length only.
- All capacities above the bold line are based on structural strength of boom extension. Capacities correspond to SAE J1289 (Test Load = 1.25P + 0.1A). 0.1A represents one-tenth (0.10) of the total boom weight reduced to the boom point.
- 31 ft. and 56 ft. luffing folding boom extension lengths may be used for single line lifting service only.
- For main boom lengths between 125 ft. and fully extended with the boom extension erected, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is set up. For boom angles not shown, use rating of the next lower boom angle. For extension offset angles not shown, use rating of next greater offset angle.
- 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.
- Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- Capacities listed are with outriggers properly extended and vertical jacks set only.

## 31 FT. - 56 FT. LUFFING FOLDING BOOM EXTENSION WITHOUT COUNTERWEIGHT USING 138 FT. MAIN BOOM

### ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet (reference)	31 FT. LENGTH			56 FT. LENGTH		
	#8910	#8911	#8912	#8920	#8921	#8922
	1.5° OFFSET	25° OFFSET	45° OFFSET	1.5° OFFSET	25° OFFSET	45° OFFSET
35	9,500 (79.5)					
40	9,500 (78)			*5,500 (80)		
45	9,500 (76.5)	*8,750 (80)		5,400 (79.5)		
50	9,500 (75)	7,490 (78.5)	*7,800 (80)	5,300 (78)		
60	9,110 (71.5)	7,060 (75)	6,740 (77)	5,100 (75.5)	*4,840 (80)	
70	7,330 (68.5)	6,720 (71.5)	6,460 (73.5)	4,900 (72.5)	4,430 (78)	*3,600 (80)
80	5,040 (64.5)	6,330 (68)	6,350 (69.5)	4,700 (69.5)	4,220 (74.5)	3,500 (77.5)
90	3,330 (60.5)	4,680 (64)	5,000 (65.5)	4,500 (66.5)	4,120 (71)	3,400 (74)
100	2,010 (56.5)	3,020 (60)	3,210 (61)	3,490 (63.5)	3,810 (67.5)	3,300 (70.5)
110		1,660 (55.5)	1,790 (56.5)	2,260 (59.5)	3,340 (64)	3,200 (67)
120				1,180 (56)	2,100 (60.5)	2,550 (63)
130					1,080 (56)	1,440 (58.5)
<b>No Load Stability Data</b>						
Minimum boom angle (deg.) for indicated length	50	51	52	55	55	56
Maximum boom length (ft.) at 0 deg. boom angle	74			61		

NOTE: ( ) Boom angles are in degrees.

A6-829-100352

#LMI operating code, for reference only (does not require input - automatically displayed). Refer to LMI manual for operating instructions.

\*This capacity is based on maximum boom angle.

- Capacities are based on main boom angle in conjunction with extension offset angle. Radii are for 138 ft. main boom length only.
- All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765.
- 31 ft. and 56 ft. luffing folding boom extension lengths may be used for single line lifting service only.
- For main boom lengths between 125 ft. and fully extended with the boom extension erected, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is set up. For boom angles not shown, use rating of the next lower boom angle. For extension offset angles not shown, use rating of next greater offset angle.
- 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.
- Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- Capacities listed are with outriggers properly extended and vertical jacks set only.

## 31 FT. - 56 FT. LUFFING FOLDING BOOM EXTENSION WITHOUT COUNTERWEIGHT USING 138 FT. MAIN BOOM

ON OUTRIGGERS 50% EXTENDED - 360°

Radius in Feet (reference)	31 FT. LENGTH			56 FT. LENGTH		
	#48910	#48911	#48912	#48920	#48921	#48922
	1.5° OFFSET	25° OFFSET	45° OFFSET	1.5° OFFSET	25° OFFSET	45° OFFSET
35	9,500 (79.5)					
40	8,720 (78)			*5,500 (80)		
45	6,750 (76.5)	*8,740 (80)		5,400 (79.5)		
50	5,160 (75)	6,930 (78.5)	*7,800 (80)	5,300 (78)		
60	2,760 (71.5)	4,180 (75)	5,150 (77)	3,430 (75.5)	*4,640 (80)	
70	1,030 (68.5)	2,200 (71.5)	2,950 (73.5)	1,720 (72.5)	3,820 (78)	*3,600 (80)
80			1,290 (69.5)		2,200 (74.5)	3,070 (77.5)
90						1,620 (74)
0.1A (lbs.)	1020	970	930	930	900	840
<b>No Load Stability Data</b>						
Minimum boom angle (deg.) for indicated length	66	67	68	70	70	71
Maximum boom length (ft.) at 0 deg. boom angle	35			35		

NOTE: ( ) Boom angles are in degrees.

A6-829-100364

#LMI operating code, for reference only (does not require input - automatically displayed). Refer to LMI manual for operating instructions.

\* This capacity is based on maximum boom angle.

- Capacities are based on main boom angle in conjunction with extension offset angle. Radii are for 138' main boom length only.
- All capacities above the bold line are based on structural strength of boom extension. Capacities correspond to SAE J1289 (Test Load = 1.25P + 0.1A). 0.1A represents one-tenth (0.10) of the total boom weight reduced to the boom point.
- 31 ft. and 56 ft. luffing folding boom extension lengths may be used for single line lifting service only.
- For main boom lengths between 125 ft. and fully extended with the boom extension erected, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is set up. For boom angles not shown, use rating of the next lower boom angle. For extension offset angles not shown, use rating of next greater offset angle.
- 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.
- Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- Capacities listed are with outriggers properly extended and vertical jacks set only.