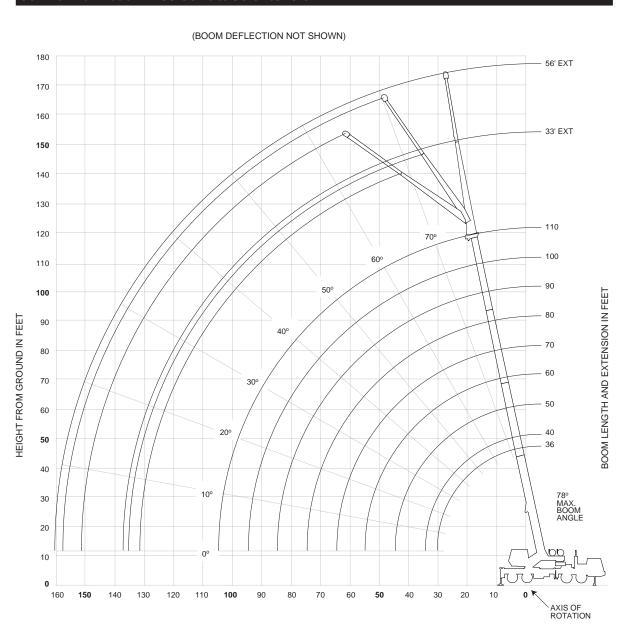
LIFTING CHARTS - Hydraulic Truck Cranes



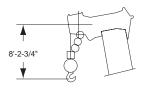


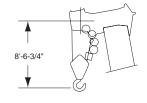
working range

36-110' main boom + 33-56' lattice extension



OPERATING RADIUS IN FEET FROM AXIS OF ROTATION





Dimensions are for largest Grove furnished hook block and headache ball, with anti-two block activated.

load charts

mng .	40 500 #=	<u> </u>							
6 - 110 ft.	16,500 lbs.	100% 20' 0"		60°					
[5]					#0001				
Feet	35	40	50	**60	Main Boom Length 70	in Feet 80	90	100	110
10	120,000	84,400	80,200	*62,500	70	60	90	100	110
12	(69) 100,000	(72) 84,400	(76) 80,200	(78) 62,500	*36,800				
	(65.5) 87,300	(68.5) 82,700	(73.5) 80,200	(77) 61,000	(78) 36,800	*36,800	*31,000		
15	(59.5)	(63.5)	(70)	(74)	(76.5)	(78)	(78)		
20	68,250 (49)	65,000 (55)	64,300 (63.5)	50,650 (69)	36,800 (72)	36,800 (75)	31,000 (77)	*29,100 (78)	*24,000 (78)
25	54,900 (36)	53,100 (45)	52,000 (56.5)	41,800 (63.5)	36,800 (68)	34,000 (71)	30,000 (73.5)	27,000 (76)	24,000 (77.5)
30	(**/	39,350 (31.5)	38,700 (48.5)	37,850 (57.5)	33,400 (63)	29,000 (67)	25,300 (70.5)	24,200 (72.5)	22,000 (75)
35		(01.0)	29,400 (40)	28,400 (51.5)	28,700 (58)	25,000 (63)	22,200 (67)	21,750 (69.5)	20,000
40			23,050	22,100	22,750	22,000	20,200	19,000	(72) 18,500
45			(28)	(45) 17,550	(53) 18,250	(59) 18,800	(63) 17,800	(66.5) 17,300	(69) 17,300
				(37) 14,050	(47.5) 14,850	(54.5) 15,600	(59.5) 16,000	(63) 16,000	(66.5) 16,000
50				(26.5)	(41) 12,200	(49.5) 12,950	(55.5) 13,650	(60) 14,100	(63.5) 14,100
55					(33.5)	(44.5)	(51)	(56.5)	(60)
60					10,050 (24)	10,850 (38.5)	11,600 (47)	12,000 (52.5)	12,200 (57)
65						9,110 (31.5)	9,900 (42)	10,250 (48.5)	10,600 (53.5)
70						7,650 (22.5)	8,450 (36.5)	8,820 (44.5)	9,000 (50)
75							7,210 (30)	7,580 (40)	7,800 (46.5)
80							6,150 (21.5)	6,490 (34.5)	6,600 (42.5)
85							(21.5)	5,550	5,800
90								(28.5) 4,730	5,000
95								(20.5)	(33) 4,270
									(27.5)
100		Minimum ba		:	- !!\				(19.5)
			om angle (deg.) for n length (ft.) at 0 de		,				110
MI opérating co	angles are in degre ode. Refer to LMI no based on maximum	es. nanual for instruction		gree boom angle (no load)				110
.,,			Lifting Capacitie	es at Zero Degree	-				
Boom Angle	35	40	50	Main Bo	om Length in Feet 70	80	90	100	110
7 11910	29,050	24,450	17,050	11,600	8,570	6,610	5,380	4,120	3,110

			Litting Capacitie	s at Zero Degree	Boom Angle					
Boom				Main Boo	m Length in Feet					
Angle	35	40	50	**60	70	80	90	100	110	
00	29,050 (29.8)	24,450 (34.2)	17,050 (44.2)	11,600 (54.6)	8,570 (64.2)	6,610 (74.2)	5,380 (84.2)	4,120 (94.2)	3,110 (104.2)	
								۸e	020 101210	

NOTE: () Reference radii in feet.

**60 ft. boom length is with inner-mid extended and outer-mid & fly retracted.

Feet 35 40 50 1100 1100 1100 1100 1100 1100 11	110 ft.	16,500 lbs.	100% 20' 0"		Over Rear					
Teel 35	<u></u>					#0001				
10		25	40	50				00	100	110
12		120.000	84,400	80,200	*62,500	70	00	90	100	110
15 87,300 (59,5) 82,700 (63,5) 80,200 (79) 61,000 (74) 36,800 (76,5) "36,800 (78) "31,000 (77) 78 20 68,250 (49) 65,000 (55) 64,300 (63,5) 50,650 (69) 36,800 (72) 31,000 (75) 777 (78) 25 55,650 (36) 53,100 (44) 52,000 (45) 41,800 (45) 36,800 (68) 34,000 (71) 30,000 (73,5) 776 776 30 44,100 (31,5) 39,800 (45) 38,000 (45) 33,400 (55) 29,000 (25,000 (26) 25,300 (27,000 (27,00) 22,200 (27,5) 24,200 (27,5) 40 26,050 (28) 25,500 (45) 23,800 (53) 22,000 (53) 22,200 (65) 20,200 (88) 19,000 (88) 45 20,000 (28) 19,700 (37) 18,800 (38) 17,800 (45) 17,800 (68) 17,800 (68) 55 17,850 (28) 18,800 (38) 16,000 (31,5) 16,000 (45) 16,000 (38) 12,200 (45) 1	12	100,000	84,400	80,200	62,500	*36,800 (78)				
20	15	87,300	82,700	80,200	61,000	36,800				
(36)	20	68,250	65,000	64,300	50,650	36,800	36,800	31,000		*24,000 (78)
31.5) (48.5) (57.5) (63) (67) (70.5) (72.5) 32.400 (29.750 28.700 22.000 22.750 21.750 40 (26.55) (25.500 23.600 22.000 20.200 21.750 45 (28) (28) (25.500 23.600 22.000 20.200 19.000 45 (28) (28) (27.500 19.700 18.800 17.800 17.300 (37) (47.5) (54.5) (59.5) (63) 45 (26.5) (47.5) (48.5) (59.5) (63) 46 (26.5) (48.5) (59.5) (63) 47.850 16.800 16.500 15.000 15.000 15.000 (26.5) (41) (49.5) (55.5) (60) (33.5) (44.5) (55.5) (60) (33.5) (44.5) (51) (56.5) 60 (33.5) (44.5) (51) (56.5) 61 (33.5) (44.5) (51) (56.5) 62 (26.5) (26.5) (26.5) (27.000 12.200 12.200 (27.000 14.650 14.100 14.100 (38.5) (47.5) (57.5) (68.5) (48.5) (48.5) (49.5) (69.5) (48.5) (49.	25		(45)	(56.5)		36,800 (68)	(71)		(76)	24,000 (77.5)
35 (40) (51,5) (58) (63) (67) (69,5) 40 26,050 25,500 22,000 22,000 22,000 19,000 (63) (66,5) 45 20,000 19,700 18,800 17,800 17,300 (63) (66,5) (63) (65,5) (63) (65,5) (63) (65,5) (63) (65,5) (63) (65,5) (63) (64,5) (69,5) (63) (63) (65,5) (63) (63) (65,5) (63) (63) (64,5) (63) (63) (64,5) (63) (63) (64,5) (63) (63) (64,5) (63) (64) (64) (65,5) (64) (65,5) (64)	30		44,100 (31.5)	(48.5)	(57.5)	(63)	(67)	(70.5)	(72.5)	22,000 (75)
45 (28) (45) (53) (59) (63) (66.5) 45 20,000 19,700 18,800 17,800 17,300 15,000 16,000 17,140 16,000	35			(40)	(51.5)	(58)	(63)	(67)	(69.5)	20,000 (72)
17,850	40		L	26,050 (28)	(45)	(53)	(59)	(63)	(66.5)	18,500 (69)
(26.5)	45				(37)	(47.5)	(54.5)	(59.5)	(63)	17,300 (66.5)
55 (33.5) (44.5) (51) (56.5) 60 13.050 12.800 12.200 12.200 12.200 65 (34.5) (47) (52.5) (52.5) 66 (31.5) (42) (48.5) (49.5) 70 (22.5) (36.5) (44.5) (49.5) 75 (36.5) (44.5) (44.5) (44.5) 80 (30) (40) (40.5) (40.5) (40.5) 80 (21.5) (40.5)	50					(41)	(49.5)	(55.5)	(60)	16,000 (63.5)
65 (24) (38.5) (47) (52.5) 65 11,450 10,800 10,600 (31.5) (42) (48.5) 9,000 (70) (22.5) (36.5) (44.5) (30) (40) (40.5) (40.5) (30) (40) (40.5) (40.5) (30) (40) (40.5) (40.5) (30) (40) (40.5) (40.5) (30) (40.5) (40.5) (40.5) (30) (40.5) (40.5) (40.5) (30) (40.5) (40.5) (40.5) (30) (40.5) (40.5) (40.5) (30) (40.5) (40.5) (40.5) (40.5) (30) (40.5) <	55					(33.5)	(44.5)	(51)	(56.5)	14,100 (60)
bb (31.5) (42) (48.5) 70 10.100 9.450 9.000 (22.5) (36.5) (44.5) 75 8.290 7,800 (30) (40) 7,140 6,600 (21.5) (34.5) 5,800	60					13,050 (24)	(38.5)	(47)	(52.5)	12,200 (57)
76 (22.5) (36.5) (44.5) (75.6) (8.290 7.800 (30) (40) (40) (7.140 6.600 (21.5) (34.5) (34.5) (34.5) (34.5) (34.5)	65						(31.5)	(42)	(48.5)	10,600 (53.5)
(30) (40) 7,140 6,600 (21.5) (34.5) 5,800	70						(22.5)	(36.5)	(44.5)	9,000 (50)
80 (21.5) (34.5) 85 5,800	75							(30)	(40)	7,800 (46.5)
								(21.5)	(34.5)	6,600 (42.5) 5,800
									(28.5)	(38)
90 5,000 (20.5)									(20.5)	5,000 (33) 4,440
95										(27.5) 3.880
100	100		Minimum bas	m anglo (dog) fo	r indicated length (no load)				(19.5)

Boom Angle

NOTE: () Reference radii in feet.
**60 ft. boom length is with inner-mid extended and outer-mid & fly retracted.

load charts











;	36 - 110 ft.	33 -	56 ft.	16,500 lbs		100% 20' 0"	360°
				Pou	ınds		
		(33 ft. LENGT	Н		56 ft. LENGT	Н
	Feet	#0021 0°	#0022 25°	#0023 45°	#0041 0°	#0042 25°	#0043 45°
	reet	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET
	30	12,900 (78)					
	35	12,900 (76)			*8,330 (78)		
	40	12,900 (74)	*10,850 (78)		8,330 (77.5)		
	45	12,900 (72)	10,450 (77)	*7,410 (78)	8,330 (76)		
	50	12,100 (70)	10,000 (74.5)	7,200 (77.5)	8,330 (74.5)		
Ī	55	11,100 (68)	9,220 (72.5)	6,990 (75)	8,250 (73)	*5,300 (78)	
	60	10,100 (66)	8,550 (70.5)	6,800 (72.5)	7,540 (71)	5,140 (77)	
Ī	65	9,130 (63.5)	7,930 (68)	6,650 (70.5)	7,160 (69)	5,100 (75)	*3,860 (78)
	70	8,460 (61.5)	7,380 (65.5)	6,490 (68)	6,820 (67.5)	5,100 (73)	3,790 (77.5)
	75	7,840 (59)	6,900 (63)	6,370 (65.5)	6,300 (65.5)	4,800 (71)	3,660 (75)
	80	7,230 (56.5)	6,470 (60.5)	6,110 (62.5)	5,810 (63.5)	4,580 (69)	3,550 (73)
	85	6,470 (54)	6,070 (58)	5,780 (60)	5,370 (61.5)	4,470 (67.5)	3,450 (71)
	90	5,670 (51)	5,720 (55.5)	5,480 (57)	4,980 (59.5)	4,330 (65.5)	3,410 (68.5)
	95	4,970 (48.5)	5,400 (52.5)	5,200 (54)	4,630 (57)	4,070 (63)	3,300 (66.5)
	100	4,350 (45.5)	4,840 (49.5)	4,950 (51)	4,320 (55)	3,830 (61)	3,260 (64)
	105	3,790 (42.5)	4,210 (46.5)	4,470 (47.5)	4,040 (52.5)	3,620 (58.5)	3,220 (62)
	110	3,290 (39.5)	3,640 (43)	(11.0)	3,760 (50.5)	3,410 (56)	3,180 (59.5)
	115	2,830 (36)	3,130 (39.5)		3,290 (48)	3,230 (53.5)	3,060 (56.5)
	120	2,420	2,660		2,860 (45.5)	3,050	2,940
	125	(32) 2,040	(35) 2,240		2,470	(51) 2,890	(53.5) 2,800
	130	(27.5) 1,700	(30.5)		(42.5)	(48.5) 2,590	(50.5)
	135	(22)			(39.5) 1,790	(45.5) 2,200	
	140				(36.5)	(42.5) 1,840	
	145				(33) 1,200	(38.5) 1,500	
			No Lo	oad Stability D	(29.5) ata	(34.5)	
	Min. boom angle for indicated length	210	25°	45°	28°	28°	45°
	Max. boom length at 0° boom angle		100 ft.			90 ft.	

NOTE: () Boom angles are in degrees.

A6-829-101337

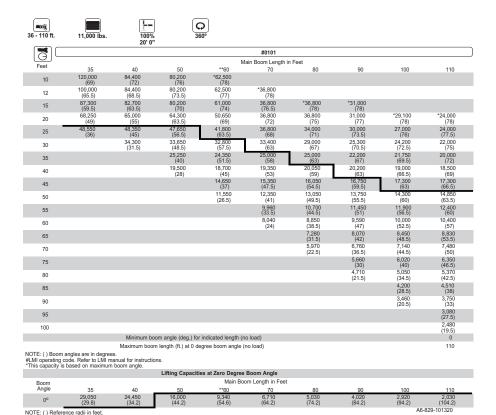
NOTES:

- 1. All capacities above the bold line are based on structural strength of boom extension.
- 2. 33 ft. and 56 ft. boom extension lengths may be used for single line lifting service.
- 3. Radii listed are for a fully extended boom with the boom extension erected. For main boom lengths less than fully extended, 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 configured. For boom angles not shown, use the rating of the next lower boom 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.
- 6. Capacities listed are with outriggers properly extended and vertical jacks set only.

^{*}This capacity is based upon maximum boom angle.

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

load charts



**60 ft. boom length is with inner-mid extended and outer-mid & fly retracted.

6 - 110 ft.	11,000 lbs.	100% 20' 0"		ver ear					
					#0101				
Feet	35	40	50	**60	Main Boom Length in 70	n Feet 80	90	100	110
10	120,000 (69)	84,400 (72)	80,200 (76)	*62,500 (78)					
12	100,000 (65.5)	84,400 (68.5)	80,200 (73.5)	62,500 (77)	*36,800 (78)				
15	87,300 (59.5)	82,700 (63.5)	80,200 (70)	61,000 (74)	36,800 (76.5)	*36,800 (78)	*31,000 (78)		
20	68,250 (49)	65,000 (55)	64,300 (63.5)	50,650 (69)	36,800 (72)	36,800 (75)	31,000 (77)	*29,100 (78)	*24,000 (78)
25	52,900 (36)	52,700 (45)	52,000 (56.5)	41,800 (63.5)	36,800 (68)	34,000 (71)	30,000 (73.5)	27,000 (76)	24,000 (77.5)
30		41,750 (31.5)	39,600 (48.5)	38,000 (57.5)	33,400 (63)	29,000 (67)	25,300 (70.5)	24,200 (72.5)	22,000 (75)
35	_	, , , ,	32,400 (40)	29,750 (51.5)	28,700 (58)	25,000 (63)	22,200 (67)	21,750 (69.5)	20,000 (72)
40			26,050 (28)	25,500 (45)	23,600 (53)	22,000 (59)	20,200 (63)	19,000 (66.5)	18,500 (69)
45		_		20,000 (37)	19,700 (47.5)	18,800 (54.5)	17,800 (59.5)	17,300 (63)	17,300 (66.5)
50			•	16,650 (26.5)	16,800 (41)	16,500 (49.5)	16,000 (55.5)	16,000 (60)	16,000 (63.5)
55					14,500 (33.5)	14,650 (44.5)	14,100 (51)	14,100 (56.5)	14,100 (60)
60					12,100 (24)	12,800 (38.5)	12,200 (47)	12,200 (52.5)	12,200 (57)
65						10,950 (31.5)	10,800 (42)	10,600 (48.5)	10,600 (53.5)
70						9,290 (22.5)	9,450 (36.5)	9,000 (44.5)	9,000 (50)
75							8,290 (30)	7,800 (40)	7,800 (46.5)
80							7,140 (21.5)	6,600 (34.5)	6,600 (42.5)
85								5,800 (28.5)	5,800 (38)
90								5,000 (20.5)	5,000 (33)
95							=		4,440 (27.5)
100									3,880 (19.5)
				indicated length (i	,				0
_MI operating co	ingles are in degrees ode. Refer to LMI ma based on maximum	s. anual for instruction		gree boom angle	(no load)				110
oupdony lo l	on mountain	ungio.	Lifting Capacitie	es at Zero Degree	Boom Angle				

NOTE: () Reference radii in feet.

Boom Angle

^{**60} ft. boom length is with inner-mid extended and outer-mid & fly retracted.

rerling crai

load charts











36 - 110 ft.	33	- 56 ft.	11,000 lbs	S.	100% 20' 0"	360°
			Po	unds		
		33 ft. LENGT	Н		56 ft. LENGT	Н
\bigcirc	#0121	#0122	#0123	#0141	#0142	#0143
Feet	0° OFFSET	25° OFFSET	45° OFFSET	0° OFFSET	25° OFFSET	45° OFFSET
30	12,900 (78)					
35	12,900 (76)			*8,330 (78)		
40	12,900 (74)	*10,850 (78)		8,330 (77.5)		
45	12,900 (72)	10,450 (77)	*7,410 (78)	8,330 (76)		
50	12,100 (70)	10,000 (74.5)	7,200 (77.5)	8,330 (74.5)		
55	11,100 (68)	9,220 (72.5)	6,990 (75)	8,250 (73)	*5,300 (78)	
60	10,100 (66)	8,550 (70.5)	6,800 (72.5)	7,540 (71)	5,140 (77)	
65	9,130 (63.5)	7,930 (68)	6,650 (70.5)	7,160 (69)	5,100 (75)	*3,860 (78)
70	7,960 (61.5)	7,380 (65.5)	6,490 (68)	6,820 (67.5)	5,100 (73)	3,790 (77.5)
75	6,870 (59)	6,900 (63)	6,370 (65.5)	6,300 (65.5)	4,800 (71)	3,660 (75)
80	5,930 (56.5)	6,470 (60.5)	6,110 (62.5)	5,810 (63.5)	4,580 (69)	3,550 (73)
85	5,120 (54)	5,880 (58)	5,780 (60)	5,370 (61.5)	4,470 (67.5)	3,450 (71)
90	4,410 (51)	5,070 (55.5)	5,440 (57)	4,960 (59.5)	4,330 (65.5)	3,410 (68.5)
95	3,780 (48.5)	4,350 (52.5)	4,680 (54)	4,310 (57)	4,070 (63)	3,300 (66.5)
100	3,230 (45.5)	3,710 (49.5)	4,010 (51)	3,730 (55)	3,830 (61)	3,260 (64)
105	2,730 (42.5)	3,140 (46.5)	3,410 (47.5)	3,210 (52.5)	3,620 (58.5)	3,220 (62)
110	2,280 (39.5)	2,630 (43)		2,750 (50.5)	3,410 (56)	3,180 (59.5)
115	1,870 (36)	2,170 (39.5)		2,330 (48)	3,020 (53.5)	3,060 (56.5)
120	1,500 (32)	1,750 (35)		1,940 (45.5)	2,550 (51)	2,800 (53.5)
125	1,170 (27.5)	1,360 (30.5)		1,590 (42.5)	2,130 (48.5)	2,330 (50.5)
130				1,270 (39.5)	1,740 (45.5)	
135					1,390 (42.5)	
140					1,060 (38.5)	
		No L	oad Stability	Data	()	
Min. boom angle for indicated length	25°	25°	45°	33°	36°	45°

Max. boom length at 0° boom angle NOTE: () Boom angles are in degrees.

*This capacity is based upon maximum boom angle.

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

90 ft.

NOTES:

- 1. All capacities above the bold line are based on structural strength of boom extension.
- 2. 33 ft. and 56 ft. boom extension lengths may be used for single line lifting service.
- 3. Radii listed are for a fully extended boom with the boom extension erected. For main boom lengths less than fully extended, 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 configured. For boom angles not shown, use the 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.

TMS700E 5

80 ft.

A6-829-101338

load charts

36 - 110 ft.	5,500 lbs.	100%	36	50°					
		20' 0"	'		#0201				
Feet	35	40	50	**60	Main Boom Length in	Feet 80	90	100	110
10	118,500	84,400	80,200	*62,500	70	00	90	100	110
12	(69) 100,000	(72) 84.400	(76) 80.200	(78) 62.500	*36.800				
	(65.5) 87.300	(68.5) 82.700	(73.5) 80.200	(77) 61.000	(78) 36.800	*36.800	*31.000		
15	(59.5) 66,000	(63.5) 65,000	(70) 64,300	(74) 50,650	(76.5) 36,800	(78) 36.800	(78) 31,000	*29.100	*24,000
20	(49) 41,100	(55) 41,000	(63.5) 40.600	(69) 40,150	(72) 36.800	(75)	(77) 30,000	(78) 27,000	(78)
25	(36)	(45)	(56.5)	(63.5)	(68)	34,000 (71)	(73.5)	(76)	24,000 (77.5)
30		28,400 (31.5)	28,150 (48.5)	27,750 (57.5)	28,450 (63)	29,000 (67)	25,300 (70.5)	24,200 (72.5)	22,000 (75)
35			20,700 (40)	20,300 (51.5)	21,000 (58)	21,750 (63)	22,200 (67)	21,750 (69.5)	20,000 (72)
40			15,600 (28)	15,350 (45)	16,050 (53)	16,750 (59)	17,500 (63)	17,900 (66.5)	18,300 (69)
45				11,750 (37)	12,500 (47.5)	13,200 (54.5)	13,950 (59.5)	14,300 (63)	14,700 (66.5)
50				9,040 (26.5)	9,850 (41)	10,550 (49.5)	11,250 (55.5)	11,650 (60)	12,000 (63.5)
55				, ,	7,720 (33.5)	8,500 (44.5)	9,210 (51)	9,570 (56.5)	9,940 (60)
60					6,010 (24)	6,810 (38.5)	7,550 (47)	7,900 (52.5)	8,260 (57)
65					(27)	5,410 (31.5)	6,190 (42)	6,540 (48.5)	6,880
70						4,250	5,020	5,400	(53.5) 5,740
75						(22.5)	(36.5) 4,030	(44.5) 4,420	(50) 4,770
80							(30) 3,190	(40) 3,570	(46.5) 3,940
85							(21.5)	(34.5) 2,830	(42.5) 3,200
								(28.5) 2,180	(38) 2,550
90								(20.5)	(33) 1,980
95									(27.5) 1.470
100		16:	1 (1)		1 B				(19.5)
			om angle (deg.) for n length (ft.) at 0 de		,				110
LMI operating c	angles are in degrees ode. Refer to LMI ma based on maximum	s. anual for instructio	,	ogree beem angle	(no isas)				
					at Zero Degree Bo	om Angle			
Boom Angle	35	40	50	Main Bo	oom Length in Feet 70	80	90	100	110
00	28,850	21,800	12,500	7,080	4,830	3,410	2,570	1,710	1,080

*This capacity is	based on maximun	n boom angle.							
			L	ifting Capacities	at Zero Degree Bo	om Angle			
Boom				Main Boo	om Length in Feet				
Angle	35	40	50	**60	70	80	90	100	110
0°	28,850 (29,8)	21,800 (34.2)	12,500 (44.2)	7,080 (54.6)	4,830 (64.2)	3,410 (74.2)	2,570 (84.2)	1,710 (94.2)	1,080 (104.2)
NOTE: () Perform	()	(34.2)	(44.2)	(34.0)	(04.2)	(14.2)	(04.2)		829-101322

NOTE: () Reference radii in feet.
**60 ft. boom length is with inner-mid extended and outer-mid & fly retracted.

6 - 110 ft.	5,500 lbs.	100% 20' 0"		Over Rear					
\Box					#0201				
Feet					Main Boom Length				
	35	40	50	**60	70	80	90	100	110
10	120,000 (69)	84,400 (72)	80,200 (76)	*62,500 (78)					
12	100,000 (65.5)	84,400 (68.5)	80,200 (73.5)	62,500 (77)	*36,800 (78)				
15	87,300 (59.5)	82,700 (63.5)	80,200 (70)	61,000 (74)	36,800 (76.5)	*36,800 (78)	*31,000 (78)		
20	66,000 (49)	65,000 (55)	64,300 (63.5)	50,650 (69)	36,800 (72)	36,800 (75)	31,000 (77)	*29,100 (78)	*24,000 (78)
25	50,050 (36)	49,850 (45)	49,500 (56.5)	41,800 (63.5)	36,800 (68)	34,000 (71)	30,000 (73.5)	27,000 (76)	24,000 (77.5)
30	(1.2)	38,100 (31.5)	38,200 (48.5)	38,000 (57.5)	33,400 (63)	29,000 (67)	25,300 (70.5)	24,200 (72.5)	22,000 (75)
35		,	28,700 (40)	28,600 (51.5)	28,700 (58)	25,000 (63)	22,200 (67)	21,750 (69.5)	20,000 (72)
40			22,200	22,200 (45)	23,000 (53)	22,000 (59)	20,200 (63)	19,000 (66.5)	18,500 (69)
45			(20)	17,600 (37)	18,400 (47.5)	18,800 (54.5)	17,800 (59.5)	17,300 (63)	17,300 (66.5)
50				14,100 (26.5)	14,950 (41)	15,750 (49.5)	16,000 (55.5)	16,000 (60)	16,000 (63.5)
55				(20.0)	12,250 (33.5)	13,050 (44.5)	13,800 (51)	14,100 (56.5)	14,100 (60)
60					10,050 (24)	10,900	11,650 (47)	12,000 (52.5)	12,200 (57)
65					(24)	9,100 (31.5)	9,890 (42)	10,200 (48.5)	10,550 (53.5)
70						7,590 (22.5)	8,380 (36.5)	8,740 (44.5)	9,000 (50)
75						(EE.O)	7,100 (30)	7,480 (40)	7,800 (46.5)
80							5,990 (21.5)	6,370 (34.5)	6,600 (42.5)
85							(21.0)	5,410 (28.5)	5,770 (38)
90								4,570 (20.5)	4,920 (33)
95								, , ,	4,180 (27.5)
100									3,520 (19.5)
		Minimum boo	om angle (deg.) f	or indicated length (i	no load)				0

NOTE: () Boom angles are in degrees.
#LMI operating code. Refer to LMI manual for instructions.
*This canacity is based on maximum boom angle.

*Inis capacity is	pased on maximul	m boom angle.							
			Lifting Capacitie	s at Zero Degree	Boom Angle				
Boom				Main Boo	om Length in Feet				
Angle	35	40	50	**60	70	80	90	100	110
00	29,050 (29.8)	24,450 (34.2)	17,050 (44.2)	11,600 (54.6)	8,550 (64.2)	6,520 (74.2)	5,190 (84.2)	3,950 (94.2)	3,020 (104.2)
NOTE: () Refere	nce radii in feet							A6	-829-101323

NOTE: () Reference radii in feet.

**60 ft. boom length is with inner-mid extended and outer-mid & fly retracted.

load charts











36 - 110 ft.	33	- 56 ft.	5,500 lbs.		100% 20' 0"	360°
			Pou	ınds		
		33 ft. LENGT	Н		56 ft. LENGT	Н
\bigcirc	#0221	#0222	#0223	#0241	#0242	#0243
Feet	0º OFFSET	25° OFFSET	45° OFFSET	0º OFFSET	25° OFFSET	45° OFFSET
30	12,900 (78)					
35	12,900 (76)			*8,330 (78)		
40	12,900 (74)	*10,850 (78)		8,330 (77.5)		
45	12,900 (72)	10,450 (77)	*7,410 (78)	8,330 (76)		
50	12,100 (70)	10,000 (74.5)	7,200 (77.5)	8,330 (74.5)		
55	10,450 (68)	9,220 (72.5)	6,990 (75)	8,250 (73)	*5,300 (78)	
60	8,780 (66)	8,550 (70.5)	6,800 (72.5)	7,540 (71)	5,140 (77)	
65	7,420 (63.5)	7,930 (68)	6,650 (70.5)	7,160 (69)	5,100 (75)	*3,860 (78)
70	6,280 (61.5)	7,260 (65.5)	6,490 (68)	6,820 (67.5)	5,100 (73)	3,790 (77.5)
75	5,310 (59)	6,180 (63)	6,370 (65.5)	6,030 (65.5)	4,800 (71)	3,660 (75)
80	4,490 (56.5)	5,250 (60.5)	5,840 (62.5)	5,150 (63.5)	4,580 (69)	3,550 (73)
85	3,770 (54)	4,450 (58)	4,950 (60)	4,400 (61.5)	4,470 (67.5)	3,450 (71)
90	3,150 (51)	3,750 (55.5)	4,180 (57)	3,730 (59.5)	4,330 (65.5)	3,410 (68.5)
95	2,590 (48.5)	3,130 (52.5)	3,490 (54)	3,140 (57)	4,070 (63)	3,300 (66.5)
100	2,100 (45.5)	2,580 (49.5)	2,890 (51)	2,620 (55)	3,590 (61)	3,260 (64)
105	1,660 (42.5)	2,080 (46.5)	2,340 (47.5)	2,160 (52.5)	3,030 (58.5)	3,220 (62)
110	1,270 (39.5)	1,640 (43)		1,740 (50.5)	2,520 (56)	2,880 (59.5)
115		1,240 (39.5)		1,360 (48)	2,050 (53.5)	2,360 (56.5)
120				1,010 (45.5)	1,640 (51)	1,890 (53.5)
125					1,250 (48.5)	1,450 (50.5)
Min has		No L	oad Stability I	Data		
Min. boom angle for indicated length	37°	37°	450	45°	46º	480
Max. boom length at 0° boom angle		80 ft.			60 ft.	920 404220

NOTE: () Boom angles are in degrees.

A6-829-101339

NOTES:

- 1. All capacities above the bold line are based on structural strength of boom extension.
- 2. 33 ft. and 56 ft. boom extension lengths may be used for single line lifting service.
- 3. Radii listed are for a fully extended boom with the boom extension erected. For main boom lengths less than fully extended, 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 configured. For boom angles not shown, use the rating of the next lower boom 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.
- 6. Capacities listed are with outriggers properly extended and vertical jacks set only.

^{*}This capacity is based upon maximum boom angle.

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

load charts

mwj(<u> </u>		ဂ္					
36 - 110 ft.	0 lbs.	100%		860°					
7 C					#0801				
					Main Boom Length i				
Feet	35	40	50	**60	70	80	90	100	110
10	117,500 (69)	84,400 (72)	80,200 (76)	*62,500 (78)					
12	100,000 (65.5)	84,400 (68.5)	80,200 (73.5)	62,500 (77)	*36,800 (78)				
15	87,300 (59.5)	82,700 (63.5)	80,200 (70)	61,000 (74)	36,800 (76.5)	*36,800 (78)	*31,000 (78)		
20	56,000 (49)	55,750 (55)	55,300 (63.5)	50,650 (69)	36,800 (72)	36,800 (75)	31,000 (77)	*29,100 (78)	*24,000 (78)
25	34,350 (36)	34,300 (45)	33,850 (56.5)	33,400 (63.5)	34,100 (68)	34,000 (71)	30,000 (73.5)	27,000 (76)	24,000 (77.5)
30	(50)	23,350 (31.5)	23,100 (48.5)	22,700 (57.5)	23,400	24,150	24,850 (70.5)	24,200 (72.5)	22,000 (75)
35		(31.3)	16,650	16,250	16,950	17,700	18,400	18,850	19,300
40			(40) 12,250 (28)	(51.5) 12,000	(58) 12,650	(63) 13,400	(67) 14,100	(69.5) 14,550	(72) 14,950
45			(28)	(45) 8,890	(53) 9,620	(59) 10,300	(63) 11,050	(66.5) 11,450	(69) 11,800
				(37) 6.510	(47.5) 7.330	(54.5) 8.040	(59.5) 8.750	(63) 9.130	(66.5) 9.510
50				(26.5)	(41)	(49.5)	(55.5)	(60)	(63.5)
55					5,470 (33.5)	6,250 (44.5)	6,960 (51)	7,320 (56.5)	7,690 (60)
60					3,990 (24)	4,790 (38.5)	5,530 (47)	5,880 (52.5)	6,240 (57)
65					(= -)	3,580 (31.5)	4,350 (42)	4,700 (48.5)	5,050 (53.5)
70						2,560 (22.5)	3,340 (36.5)	3,710 (44.5)	4,060 (50)
75						(22.5)	2,480 (30)	2,870 (40)	3,220 (46.5)
80							1,740 (21.5)	2,130 (34.5)	2,500 (42.5)
85							(21.5)	1,480	1,850
90								(28.5)	(38) 1,290
	Mi	nimum boom angle	(deg.) for indicated	l length (no load)				14	(33)
	Maxir	mum boom length (ft.) at 0 degree boo	m angle (no load)					90
MI operating co	ingles are in degre ode. Refer to LMI i based on maximun	manual for instruction	ons.						
			Lifting Capacit	ies at Zero Degree	Boom Angle				
Boom	05	40	50		om Length in Feet		00		
Angle	35 23,700	40 17.650	50 9.550	**60 4.810	70 2.960	80 1.840	90 1,210	_	
0∞	(29.8)	(34.2)	(44.2)	(54.6)	(64.2)	(74.2)	(84.2)		

**60 ft. boom length is with inner-mid extended and outer-mid & fly retracted

36 - 110 ft.	0 lbs.	100% 20' 0"		Over Rear					
					#0801				
آق ر					Main Boom Length				
Feet	35	40	50	**60	70	80	90	100	110
10	120,000 (69)	84,400 (72)	80,200 (76)	*62,500 (78)					
12	100,000 (65.5)	84,400 (68.5)	80,200 (73.5)	62,500 (77)	*36,800 (78)				
15	87,300 (59.5)	82,700 (63.5)	80,200 (70)	61,000 (74)	36,800 (76.5)	*36,800 (78)	*31,000 (78)		
20	62,400 (49)	62,200 (55)	61,800 (63.5)	50,650 (69)	36,800 (72)	36,800 (75)	31,000 (77)	*29,100 (78)	*24,000 (78)
25	47,250 (36)	47,050 (45)	46,700 (56.5)	41,800 (63.5)	36,800 (68)	34,000 (71)	30,000 (73.5)	27,000 (76)	24,000 (77.5)
30	(30)	32,950	33,100	33,050	33,400	29,000	25,300	24,200	22,000
		(31.5)	(48.5) 24.600	(57.5) 24,500	(63) 25.350	(67) 25.000	(70.5) 22,200	(72.5) 21.750	(75) 20,000
35			(40)	(51.5)	(58)	(63)	(67)	(69.5)	(72)
40			18,800 (28)	18,750 (45)	19,600 (53)	20,450 (59)	20,200 (63)	19,000 (66.5)	18,500 (69)
45				14,650 (37)	15,500 (47.5)	16,300 (54.5)	17,100 (59.5)	17,300 (63)	17,300 (66.5)
50				11,550 (26.5)	12,400 (41)	13,200 (49.5)	14,000 (55.5)	14,350 (60)	14,750 (63.5)
55				, ,	9,990 (33.5)	10,800 (44.5)	11,550 (51)	11,900 (56.5)	12,300 (60)
60					8,020	8,860	9,620	9,980	10,300
00					(24)	(38.5) 7.240	(47) 8.030	(52.5) 8.370	(57) 8.720
65						(31.5)	(42)	(48.5)	(53.5)
70						5,890 (22.5)	6,680 (36.5)	7,040 (44.5)	7,380 (50)
75						(LL.U)	5,520 (30)	5,910 (40)	6,240 (46.5)
80							4,540 (21.5)	4,910 (34.5)	5,270 (42.5)
85							(21.5)	4,050	4,410
								(28.5)	(38)
90								(20.5)	(33)
95									(27.5)
100									2,380 (19.5)
				r indicated length (r					0
#LMI operating o	angles are in degre ode. Refer to LMI r based on maximun	es. nanual for instruction		egree boom angle (no load)				110
, ,		•	Lifting Capacitie	s at Zero Degree B	oom Angle				
Boom				Main Bo	om Length in Feet				

0° 29,050 24,450 15,250 NOTE: () Reference radiii nfeet.

**60 ft. boom length is with inner-mid extended and outer-mid & fly retracted.

load charts











₩/ij		TANK T			Ι.	(42	
36 - 110 ft.	33	- 56 ft.	0 lbs.		360°		
	Pounds			unds			
	;	33 ft. LENGT	Н		56 ft. LENGTH		
	#0821	#0822	#0823	#0841	#0842	#0843	
Feet	0° OFFSET	25° OFFSET	45° OFFSET	0° OFFSET	25° OFFSET	45° OFFSET	
30	12,900 (78)						
35	12,900 (76)			*8,330 (78)			
40	12,900 (74)	*10,850 (78)		8,330 (77.5)			
45	12,800 (72)	10,450 (77)	*7,410 (78)	8,330 (76)			
50	10,350 (70)	10,000 (74.5)	7,200 (77.5)	8,330 (74.5)			
55	8,510 (68)	9,220 (72.5)	6,990 (75)	8,250 (73)	*5,300 (78)		
60	7,000 (66)	8,330 (70.5)	6,800 (72.5)	7,540 (71)	5,140 (77)		
65	5,770 (63.5)	6,930 (68)	6,650 (70.5)	6,420 (69)	5,100 (75)	*3,860 (78)	
70	4,740 (61.5)	5,760 (65.5)	6,370 (68)	5,370 (67.5)	5,100 (73)	3,790 (77.5)	
75	3,870 (59)	4,770 (63)	5,310 (65.5)	4,480 (65.5)	4,800 (71)	3,660 (75)	
80	3,130 (56.5)	3,920 (60.5)	4,390 (62.5)	3,710 (63.5)	4,580 (69)	3,550 (73)	
85	2,480 (54)	3,180 (58)	3,610 (60)	3,050 (61.5)	4,110 (67.5)	3,450 (71)	
90	1,920 (51)	2,540 (55.5)	2,910 (57)	2,470 (59.5)	3,450 (65.5)	3,410 (68.5)	
95	1,420 (48.5)	1,970 (52.5)	2,310 (54)	1,960 (57)	2,860 (63)	3,300 (66.5)	
100		1,470 (49.5)	1,760 (51)	1,500 (55)	2,330 (61)	2,980 (64)	
105		1,020 (46.5)	1,280 (47.5)	1,090 (52.5)	1,870 (58.5)	2,390 (62)	
110					1,450 (56)	1,870 (59.5)	
115					1,060 (53.5)	1,400 (56.5)	
		No L	oad Stability D	Data			
Min. boom angle for indicated length	46°	45°	45°	48°	51°	51°	
Max. boom length at 0° boom angle		60 ft.			50 ft.		

NOTE: () Boom angles are in degrees.

A6-829-101340

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

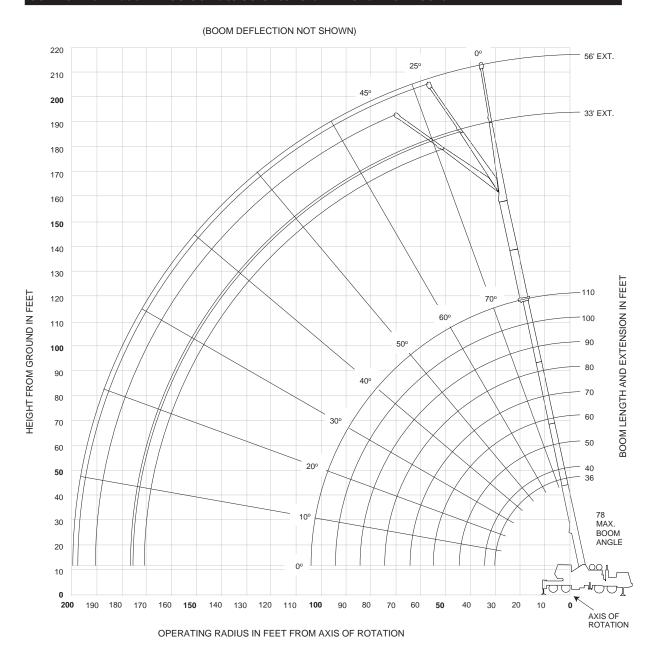
NOTES:

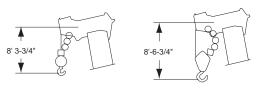
- 1. All capacities above the bold line are based on structural strength of boom extension.
- 2. 33 ft. and 56 ft. boom extension lengths may be used for single line lifting service.
- 3. Radii listed are for a fully extended boom with the boom extension erected. For main boom lengths less than fully extended, 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 configured. For boom angles not shown, use the 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 capacity is based upon maximum boom angle.

working range

36-110' main boom + 33-56' lattice extension + 20' or 40' insert





Dimensions are for largest Grove furnished hook block and headache ball, with anti-two block activated.

load charts













36 - 110 ft.	33 - 56 1	π. 20	20 π. 16,500 lb.		20' 0"	360°
			Po	unds		
	3	3 ft. LENGTI	Н		56 ft. LENG	TH
Θ	#0064	#0065	#0066	#0084	#0085	#0086
Feet	0° OFFSET	25° OFFSET	45° OFFSET	0º OFFSET	25° OFFSET	45° OFFSET
35	*9,360 (78)	0.1.02.	002.	0.1.021	011021	011021
40	9,360 (77.5)			*6,300 (78)		
45	8,480 (76)	*7,480 (78)		6,300 (77.5)		
50	7,680 (74)	7,070 (77.5)		6,000 (77)		
55	6,990 (72)	6,470 (76)	5,880 (78)	5,990 (75.5)		
60	6,390 (70)	5,970 (74)	5,480 (76.5)	5,980 (73.5)	*4,840 (78)	
65	5,890 (68.5)	5,570 (72.5)	5,080 (74.5)	5,510 (72)	4,840 (77.5)	
70	5,390 (66.5)	5,070 (70.5)	4,780 (72.5)	5,010 (70.5)	4,440 (76.5)	
75	4,990 (64.5)	4,770 (68.5)	4,480 (70.5)	4,560 (68.5)	4,050 (75)	*3,760 (78)
80	4,650 (62.5)	4,400 (66)	4,190 (68)	4,170 (67)	3,870 (73)	3,460 (77)
85	4,300 (60)	4,150 (64)	3,890 (66)	3,820 (65)	3,570 (71.5)	3,260 (75)
90	4,000 (58)	3,850 (62)	3,690 (63.5)	3,520 (63.5)	3,320 (69.5)	2,960 (73)
95	3,760 (56)	3,650 (59.5)	3,500 (61.5)	3,220 (61.5)	3,070 (67.5)	2,770 (71)
100	3,510 (53.5)	3,410 (57.5)	3,300 (59)	2,980 (59.5)	2,880 (66)	2,570 (69)
105	3,260 (51)	3,210 (55)	3,100 (56.5)	2,780 (58)	2,680 (64)	2,460 (67)
110	3,070 (48.5)	3,020 (52.5)	2,930 (54)	2,530 (56)	2,480 (62)	2,340 (65)
115	2,870 (46)	2,870 (50)	2,780 (51)	2,340 (54)	2,280 (60)	2,200 (63)
120	2,550 (43.5)	2,730 (47)		2,190 (52)	2,140 (57.5)	2,050 (60.5)
125	2,170 (40.5)	2,500 (44)		2,000 (49.5)	1,990 (55.5)	1,910 (58)
130	1,820 (37.5)	2,100 (41)		1,850 (47.5)	1,850 (53)	1,810 (55.5)
135	1,500 (34.5)	1,730 (37.5)		1,720 (45) 1,480	1,750 (51)	1,670 (53)
140	1,210 (30.5)	1,390 (33.5)		(42.5)	1,610 (48.5)	
145					1,520 (45.5)	
150		No.1	and Stability	Octo	1,370 (43)	
Min. boom		INO LO	oad Stability [Jaid		
angle at 110' boom length	22º	29°	45°	38°	40°	45°
Max. boom length at 0° boom angle		100 ft.			80 ft.	
NOTE: () De-		- !			,	0.000 404404

NOTE: () Boom angles are in degrees.

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*This capacity is based upon maximum boom angle.

LMI operating code. Refer to LMI manual for instructions.

NOTES:

- 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.
- 2. 33 ft. and 56 ft. folding boom extension lengths may be used for single line lifting service only.
- 3. For main boom lengths less than 110 ft. 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 configured. For boom angles not shown, use the rating of the next lower boom 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.
- 6. Capacities listed are with outriggers properly extended and vertical jacks set only.

load charts













	20' 0"							
	Pounds							
		33 ft. LENGTH			56 ft. LENGT	GTH		
$\left[\Theta \right]$	#0064	#0065	#0066	#0084	#0085	#0086		
Feet	0° OFFSET	25° OFFSET	45° OFFSET	0° OFFSET	25° OFFSET	45° OFFSET		
45	6,560 (78)	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET		
50	5,960 (76)			4,510 (78)				
55	5,360 (74.5)	5,860 (78)		4,210 (77.5)				
60	4,860 (73)	5,260 (76.5)	*5,170 (78)	3,910 (76)				
65	4,370 (71)	4,870 (75)	4,670 (77.5)	3,710 (74.5)				
70	3,970 (69.5)	4,370 (73)	4,270 (75.5)	3,410 (73)	*3,710 (78)			
75	3,670 (67.5)	4,070 (71.5)	3,980 (73.5)	3,220 (71.5)	3,420 (77.5)			
80	3,270 (66)	3,670 (69.5)	3,680 (72)	2,820 (70)	3,120 (76)			
85	2,980 (64)	3,370 (68)	3,380 (70)	2,520 (68.5)	2,820 (74.5)	2,730 (77.5)		
90	2,780 (62.5)	3,080 (66)	3,080 (68)	2,320 (66.5)	2,620 (72.5)	2,530 (76)		
95	2,480 (60.5)	2,880 (64)	2,890 (66)	2,030 (65)	2,330 (71)	2,340 (74.5)		
100	2,290 (58.5)	2,580 (62)	2,690 (64)	1,830 (63.5)	2,130 (69.5)	2,140 (72.5)		
105	2,090 (56.5)	2,390 (60)	2,390 (62)	1,630 (62)	1,930 (68)	1,940 (71)		
110	1,900 (54.5)	2,190 (58)	2,200 (60)	1,440 (60)	1,730 (66)	1,740 (69)		
115	1,700 (52.5)	2,000 (56)	2,100 (58)	1,240 (58.5)	1,540 (64.5)	1,550 (67)		
120	1,600 (50.5)	1,800 (54)	1,910 (55.5)	1,140 (57)	1,340 (62.5)	1,450 (65)		
125	1,410 (48)	1,700 (51.5)	1,710 (53)		1,240 (61)	1,260 (63.5)		
130	1,310 (46)	1,510 (49.5)	1,520 (50.5)		1,050 (59)	1,160 (61.5)		
135	1,120 (43.5)	1,420 (47)	1,420 (48)					
140	1,030 (41)	1,220 (44.5)						
145		1,070 (41.5)						
		No L	oad Stability	Data				
Min. boom angle at 110' boom length	40°	40°	47°	56°	58°	60°		
Max. boom length at 0° boom angle		70 ft.			40 ft.			

NOTE: () Boom angles are in degrees.

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

NOTES:

- 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.
- 2. 33 ft. and 56 ft. folding boom extension lengths may be used for single line lifting service only.
- 3. For main boom lengths less than 110 ft. 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 configured. For boom angles not shown, use the rating of the next lower boom 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.
- 6. Capacities listed are with outriggers properly extended and vertical jacks set only.

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^{*}This capacity is based upon maximum boom angle.

load handling

Weight Reductions for Load Handling Devices 33 ft.-56 ft. Folding Boom Extension 4,350 lb. *33 ft. Extension (Erected) *56 ft. Extension (Erected) 9,450 lb. Folding Ext. with 20 ft. Insert *33 ft. Extension (Erected) 9,410 lb. 16,010 lb. *56 ft. Extension (Erected) Folding Ext. with 40 ft. Insert *33 ft. Extension (Erected) 16,280 lb. *56 ft. Extension (Erected) 24,390 lb.

*Reduction of main boom capacities

(no deduct required for stowed boom extension)

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.

Auxiliary Boom Nose	137 lb.
Hookblocks and Headache Balls:	
60 Ton, 5 Sheave	1,125 lb. +
50 Ton, 5 Sheave	1,075 lb. +
40 Ton, 5 Sheave	785 lb. +
8.3 Ton Headache Ball (non-swivel)	350 lb. +
8.3 Ton Headache Ball (swivel)	370 lb. +
+ Refer to rating plate for actu	al weight.

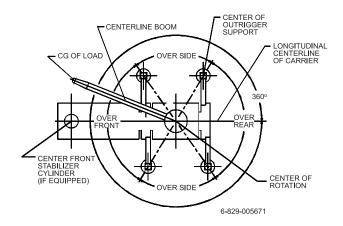
NOTE: All load handling devices and boom attachments are considered part of the load and suitable allowances MUST BE MADE for their combined weights. Weights are for Grove furnished equipment.

L	ine Pulls and Reeving	Informati	on
Hoists	Cable Specs.	Permissible Line Pulls	Nominal Cable Length
Main	3/4" (19 mm) 6x37 Class, EIPS, IWRC Special Flexible Min. Breaking Strength 58,800 lb.	16,800 lb.	500 ft.
Main & Aux.	3/4* (19 mm) Flex-X 35 Rotation Resistant (Non-rotating) Min. Breaking Strength 85,800 lb.	16,800 lb.	500 ft.

The approximate weight of 3/4" wire rope is 1.5 lb./ft.

Wire Rope Layer	Hoist L	ine Pulls eed Hoist High	Drum I Capaci	
	Available lb.*	Available lb.*	Layer	Total
1	18,134	9,067	78	78
2	16,668	8,334	85	164
3	15,420	7,710	92	256
4	14,347	7,174	99	356
5	13,413	6,707	106	462
6	12,594	6,297	113	575
	*Max. lifting cap	acity: 6x37 or 35x7 cla	ss = 16,800 lb.	

Working Area Diagram



Bold lines determine the limiting position of any load for operation within working areas indicated.

specifications

Superstructure



Boom

36 ft. - 110 ft. (11 m - 33.5 m) four section, full power sequenced synchronized boom.

Maximum Tip Height: 118 ft. (35.9 m).



Folding Lattice Extension

33 ft. - 56 ft. (10.1 m - 17.1 m) folding lattice swingaway extension offsettable at 0°, 25° or 45°. Stows alongside base boom section. Maximum Tip Height: 172.5 ft. (52.6 m)



*Optional Lattice Extension

33 ft. (10.1 m) lattice swingaway extension, offsettable at 0°, 25° or 45°. Stows alongside base boom section. Maximum Tip Height: 148 ft. (45.1 m).



*Optional 20 ft. (6.1 m) or 40 ft. (12.2 m) Swingaway **Extension Inserts**

Installs between boom nose and extension, non-stowable. Maximum Tip Height: 192 ft. (58.5 m) - 20 ft. (6.1 m) insert 212 ft. (64.6 m) - 40 ft. (12.2 m) insert



Boom Nose

Quick reeving type boom nose with 3 nylatron sheaves (4 for 60 ton rating) mounted on heavy duty tapered roller bearings with removable pin-type rope guards. Removable auxiliary boom nose with removable pin type rope guard.



Boom Elevation

One double acting hydraulic cylinder with integral holding valve provides elevation from -3° to 78°.



Load Moment & Anti-Two Block System

Standard "Graphics Display" load moment and anti-two block system with audio-visual warning and control lever lockout. These systems provide electronic display of boom angle, boom length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending twoblock condition. The standard "Work Area Definition System" allows the operator to pre-select and define safe working areas. If the crane approaches the pre-set limits, audio-visual warnings aid the operator in avoiding job-site obstructions.



High visibility, all steel cab with acoustical lining and tinted safety glass throughout. Deluxe seat with armrest mounted hydraulic single axis controls. Dash panel incorporates gauges for all engine functions. Other standard features include: sliding side and rear windows, hot water heat, electric windshield wash/wipe, circulating air fan, sliding skylight with sunscreen and electric skylight wiper, fire extinguisher, cup holder.

Swing

Planetary swing with foot applied multi-disc wet brake. Spring applied, hydraulically released parking brake. Two position plunger type and 360° mechanical house locks operated from

Maximum speed: 2.0 RPM.

Counterweight

11,000 lbs. (4 990 kg) consisting of (2) 5,500 lb. (2 495 kg) sections. *Optional "Heavy Lift" package consisting of (1) additional 5,500 lb. (2 495 kg) section, for a total of 16,500 lb. (7 484 kg). Hydraulic installation/removal.



Hydraulic System

Four main gear pumps with a combined capacity of 135.4 GPM (513 L/m). Individual post pressure compensated valve banks. Maximum operating pressure: 4000 psi (27.6 Mpa). Return line type filter with full flow by-pass protection and service indicator. Replaceable cartridge with beta rating of

170 gallons (643 L) reservoir. Remote mounted oil cooler with thermostatically controlled electric motor driven fan.



Hoist Specifications Main and Auxiliary Hoists-Model

HO3OG-16G

Planetary reduction with integral automatic brake, electronic hoist drum rotation indicator, and hoist drum cable follower. Grooved drum.

Single Line Pull: 1st Layer: 18,134 lb. (8 226 kg)

3rd Laver: 15,420 lb. (6 995 kg) 5th Layer: 13,413 lb. (6 084 kg)

Maximum Single Line Speed: 580 FPM (177 m/min)

Maximum Permissible Line Pull: 16,800 lb. (7 620kg)

w/standard 6 x 37 class rope

16,800 lb. (7 620 kg) w/optional 35 x 7 class rope

Rope Diameter: 3/4 in. (19 mm)

Rope Length: 500 ft. (152 m)

6 x 36 WS non-rotation Rope Type:

resistant

Optional 35 x 7 rotation

resistant

Maximum Rope Stowage: 695 ft. (212 m)

*Denotes optional equipment

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specifications

Carrier



Chassis

Triple box section, four-axle carrier, fabricated from highstrength, low alloy steel with towing and tie-down lugs.



Outrigger System

Four hydraulic telescoping, single stage, double box beam outriggers with inverted jack and integral holding valves. Quick release type steel outrigger floats 24 in. (610 mm) diameter. Three position setting with fully extended, intermediate (50%) extended and fully retracted capacities.



└╦│ Outrigger Controls

Located in the superstructure cab and on the left side (umbilical design), requires two hand operation. Crane level indicator (sight bubble) on right side console. *Optional controls in lighted boxes, mounted on both sides of chassis.



Engine

Cummins ISM 450 diesel, six cylinders, after cooled, 661 cu. in. (10.8 L), 450 bhp (336 kW) @ 1800 RPM. Maximum torque 1,450 ft. lb. (1966 Nm) @ 1200 RPM. Equipped with engine brake, engine block heater, cold start aid (less canister) and audiovisual engine distress system.



Fuel Tank Capacity

100 gallons (379 L).



○ Transmission

Roadranger 11 speeds forward, 3 reverse.



Drive 8 x 4 x 4.



T Steering

Front axle, single circuit, mechanical steering with hydraulic assist.



Axles

Front: (2) beam-type steering axles, 83.3 in. (2.1 m) track. Rear: (2) single reduction drive axles, 75.1 in. (1.9 m) track. Inter-axle differential lock.



O Brakes

Dual air, split system operating on all wheels. S-cam brakes on the front and wedge brakes on the rear. Spring-applied, air released parking brake acting on rear axles. Air dryer.



Suspension

Front: Walking beam with air bags and shock absorbers. Rear: Walking beam with air bags and shock absorbers.



Front: 445/65R 22.5 Goodyear G286, tubeless, mounted on aluminum disc wheels.

Rear: 315/80R 22.5 Goodyear G286, tubeless, mounted on aluminum disc wheels.

Front: 445/65R 22.5 Bridgestone M844F, tubeless. 445/65R 22.5 Michelin XZY (WB), tubeless. Rear: 315/80R 22.5 Bridgestone M843, tubeless. 315/80R 22.5 Michelin XZY-2 tubeless.



Lights

Full lighting package including turn indicators, head, tail, brake, and hazard warning lights.



Cab

One man design, all steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe fabric covered, fully adjustable air ride seat. Complete driving controls and engine instrumentation including tilt telescope steering wheel, tachometer, speedometer, voltmeter, water temp., oil pressure, fuel level, air pressure gauge with A/V warning and engine high temp./low oil pressure A/V warning. Other standard items include hot water heater/defroster, electric windshield wash/wipe, fire extinguisher, seat belt and door lock.



★ Electrical System

Two 12V, 2150 CCA maintenance free batteries. 12V lighting/starting. Battery disconnect standard equipment.



Maximum Speed

65 MPH (104 kph)



Gradeability (Theoretical)

Miscellaneous Standard Equipment

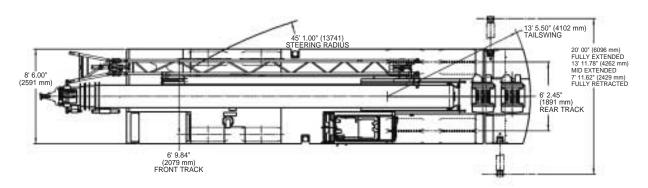
Aluminum fenders with rear storage compartments; dual rear view mirrors; electronic back-up alarm; pump disconnect; tire inflation kit; air cleaner restriction indicator; block and ball stowage; and chrome package which includes aluminum wheels.

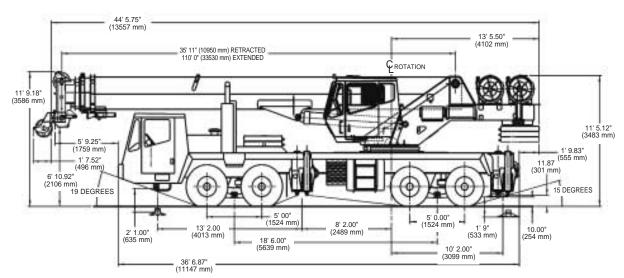
*Optional Equipment

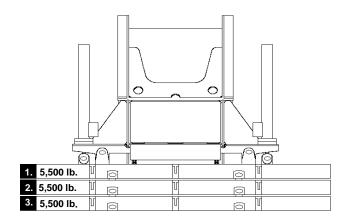
- *Flashing Light Package includes amber strobe for both cabs *Trailing Boom Package - includes trailer air and electrical disconnects and trailing boom kit with no spin differential (less
- *Hookblocks
- *Air conditioning
- *Rear pintle hook
- *Aluminum outrigger pads
- *Cross axle differential locks
- *LMI calibration for on-rubber
- *LMI light bar
- *LMI data logger
- *Air horn

*Denotes optional equipment

dimensions







	1	2	3
Counterweight Configuration			
Zero			
5,500 lb. (2 495 kg)	•		
11,000 lb. (4 990 kg)	•	•	
16,500 lb. (7 485 kg)	•	•	•

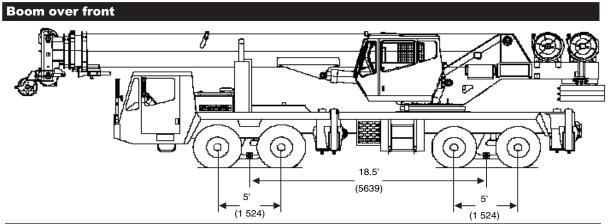
Load Chart Configuration - 360°

	16,500 lb.	11,000 lb.	5,500 lb.	0 lb.
Main Boom	×≡●□	×≡●□	×≡●□	× ■ • □
33 ft. Swingaway	× III	× 🔳	× =	× m
56 ft. Swingaway	× =	× =	× =	× m
76 ft. Boom extension (56 ft. + 20 ft. insert)	×	×	×	×
96 ft. Boom extension (56 ft. + 40 ft. insert)	×	×	×	×

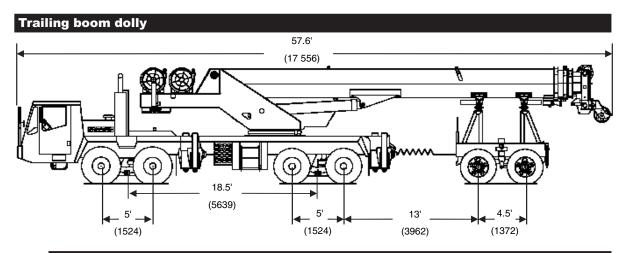
20 ft. = **※** 14 ft. = **■** 8 ft. = **●** P&C = **□** Outrigger Span

Rubber

travel proposals



	(- /						
Unit Configuration lb. (kg)	Gre	Gross		Front		ear	
Basic machine including 110 ft. (33.5 m) main boom, main and auxiliary hoists with cable, driver and no counterweight.	74,712	(33 889)	37,097	(16 827)	37,615	(17 062)	
Additions:							
5,500 lb. (2 495 kg.) counterweight pinned on superstructure	5,500	(2495)	-2,214	$(1\ 004)$	7,714	(3499)	
11,000 lb. (4 990 kg.) counterweight pinned on superstructure	11,000	(4 990)	-4,428	(2 009)	15,428	(6 998)	
16,500 lb. (7 485 kg.) counterweight pinned on superstructure	16,500	(7 484)	-6,642	(3 013)	23,142	(10 497)	
5,500 lb. (2 495 kg.) counterweight stowed on carrier deck	5,500	(2 495)	4,692	(2 128)	808	(367)	
11,000 lb. (4 990 kg.) counterweight stowed on carrier deck	11,000	(4 990)	9,384	(4 257)	1,616	(733)	
Swingaway carrier brackets	330	(150)	282	(128)	48	(22)	
33 ft. (10.1 m) swingaway	1,730	(785)	1,972	(895)	-242	(-110)	
33 - 56 ft. (10.1 - 17.1 m) swingaway	2,480	(1 125)	2,502	(1 135)	-22	(-10)	
Auxiliary boom nose	130	(59)	251	(114)	-121	(-55)	
40 ton (35 mt) hookblock stowed in trough	800	(363)	1,142	(518)	-342	(-155)	
50 ton (45 mt) hookblock stowed in trough	1,000	(454)	1,428	(648)	-428	(-194)	
60 ton (55 mt) hookblock stowed in trough	1,250	(567)	1,785	(810)	-535	(-243)	
8.3 ton (7.5 mt) headache ball stowed in trough	371	(168)	530	(240)	-159	(-72)	
Air conditioning superstructure cab	285	(129)	10	(5)	275	(125)	
Air conditioning chassis cab	88	(40)	115	(52)	-27	(-12)	



Gross		Front		Rear		Dol	ly
80,737	(36 622)	33,479	(15 186)	29,275	(13 279)	17,983	(8 157)
5,500	(2 495)	4,692	(2 128)	808	(367)	0	(0)
11,000	(4 990)	9,384	(4 257)	1,616	(733)	0	(0)
2,060	(934)	281	(128)	239	(108)	1,540	(699)
2,810	(1 275)	384	(174)	326	(148)	2,100	(953)
130	(59)	-24	(-11)	-20	(-9)	174	(79)
800	(363)	-126	(-57)	-107	(-49)	1,033	(469)
1,000	(454)	-157	(-71)	-134	(-61)	1,291	(586)
1,250	(567)	-197	(-89)	-167	(-76)	1,614	(732)
371	(168)	-58	(-26)	-50	(-23)	479	(217)
	5,500 11,000 2,060 2,810 130 800 1,000 1,250	80,737 (36 622) 5,500 (2 495) 11,000 (4 990) 2,060 (934) 2,810 (1 275) 130 (59) 800 (363) 1,000 (454) 1,250 (567)	5,500 (2 495) 4,692 11,000 (4 990) 9,384 2,060 (934) 281 2,810 (1 275) 384 130 (59) -24 800 (363) -126 1,000 (454) -157 1,250 (567) -197	80,737 (36 622) 33,479 (15 186) 5,500 (2 495) 4,692 (2 128) 11,000 (4 990) 9,384 (4 257) 2,060 (934) 281 (128) 2,810 (1 275) 384 (174) 130 (59) -24 (-11) 800 (363) -126 (-57) 1,000 (454) -157 (-71) 1,250 (567) -197 (-89)	80,737 (36 622) 33,479 (15 186) 29,275 5,500 (2 495) 4,692 (2 128) 808 11,000 (4 990) 9,384 (4 257) 1,616 2,060 (934) 281 (128) 239 2,810 (1 275) 384 (174) 326 130 (59) -24 (-11) -20 800 (363) -126 (-57) -107 1,000 (454) -157 (-71) -134 1,250 (567) -197 (-89) -167	80,737 (36 622) 33,479 (15 186) 29,275 (13 279) 5,500 (2 495) 4,692 (2 128) 808 (367) 11,000 (4 990) 9,384 (4 257) 1,616 (733) 2,060 (934) 281 (128) 239 (108) 2,810 (1 275) 384 (174) 326 (148) 130 (59) -24 (-11) -20 (-9) 800 (363) -126 (-57) -107 (-49) 1,000 (454) -157 (-71) -134 (-61) 1,250 (567) -197 (-89) -167 (-76)	80,737 (36 622) 33,479 (15 186) 29,275 (13 279) 17,983 5,500 (2 495) 4,692 (2 128) 808 (367) 0 11,000 (4 990) 9,384 (4 257) 1,616 (733) 0 2,060 (934) 281 (128) 239 (108) 1,540 2,810 (1 275) 384 (174) 326 (148) 2,100 130 (59) -24 (-11) -20 (-9) 174 800 (363) -126 (-57) -107 (-49) 1,033 1,000 (454) -157 (-71) -134 (-61) 1,291 1,250 (567) -197 (-89) -167 (-76) 1,614