# GROVE **TMS700E**



# **features**

• 50 or 60 ton (50 or 55 mt) Capacity

• 36 ft.-110 ft. (11-33.5 m) 4 section, full power sequenced synchronized boom

• 33 ft.-56 ft. (10.1-17 m) offsettable bi-fold lattice swingaway extension

• Optional 20 ft. (6.1 m) or 40 ft. (12.2 m) swingaway extension inserts

■ Grove MEGAFORM™ boom

Up to 16,500 lbs. (7,484 kg) hydraulically installed and removed counterweight

• 450 HP (336 kW) Cummins diesel engine

# contents

**Features** 

**Specifications** 

**Dimensions** 

**Travel Proposal** 

**Working Range** 

**Main Boom and Swingaway Charts** 

Working Range w/Inserts

**Swingaway Charts** w/one 20' insert

Swingaway Charts w/two 20' inserts

**Load Handling** 

16

18

19



**Truck Mounted Hydraulic Crane** 

# **features**

Optional 20 ft. (6.1 m) or 40 ft. (12.2 m) swingaway extension inserts offer excellent capacities with an unprecedented tip height of up to 212 ft.



Standard front & rear air ride suspension provides comfortable ride at max speed of 65 mph (105 Km/h)



Cummins ISM 450 diesel carrier engine delivers horsepower and torque needed to negotiate tough jobsites and achieve highway travel speeds





36 - 110 ft. (11 - 33.5 m) four section full power sequenced synchronized MEGAFORM™ boom designed for maximum vertical and lateral strength



# 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 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

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 Layer: 15,420 lb. (6 994 kg) 5th Layer: 13,413 lb. (6 084 kg)

Maximum Single Line Speed: 531 FPM (162 m/min)

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

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)

Rope Type: 6 x 36 WS non-rotation

resistant

Optional 35 x 7 rotation

resistant

841 ft. (256 m) Maximum Rope Stowage:

\*Denotes optional equipment

# specifications

# Carrier



# **☆** Chassis

Triple box section, four-axle carrier, fabricated from high strength, 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.



# Utrigger Controls

Located in the superstructure cab and both sides of chassis. Level indicator at each control station.



# Engine

Cummins ISM 450, 10.8 diesel (On Highway EPA Certified) six cylinders, after cooled, 450 bhp (336 kW) @ 2,000 rpm. Maximum torque 1,550 ft. lb. (2,102 Nm) @ 1,200 rpm.

Equipped with engine compression brake, block heater, cold start aid (less canister) and audio-visual engine distress system.

Fuel Requirement - Maximum of 15 ppm sulfur content (Ultra Low Sulfur Diesel).



# \*Engine (Required for sale outside North America)

Cummins QSM 402, 10.8 L diesel (Off Highway EPA Certified) six cylinders, after cooled, 402 bhp (300 kW) @ 1,800 rpm. Maximum torque 1,400 ft. lb. (1,898 Nm) @ 1,400 rpm.

Equipped with engine compression brake, block heater, cold start aid (less canister) and audio-visual engine distress system.

Fuel Requirement - Maximum of 5,000 ppm sulfur content.



# Fuel Tank Capacity

100 gallons (379 L).



# Transmission

Roadranger 11 speeds forward, 3 reverse.



# Drive

Drive 8 x 4 x 4.



# **I** Steering

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



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.



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.



# **F** Electrical System

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



# **Maximum Speed**

65 MPH (104 kph)



# **Gradeability (Theoretical)**

70%

# 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; chrome package which includes aluminum wheels, and LMI data logger.

# \*Optional Equipment

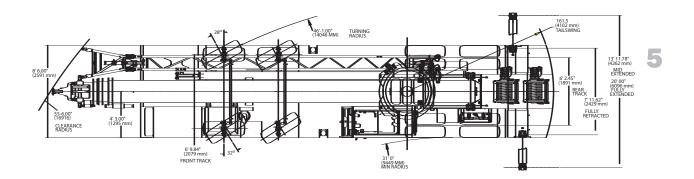
- \*Flashing Light Package includes amber strobe for both cabs \*Trailing Boom Package – includes trailer air and electrical disconnects and trailing boom kit with no spin differential (less dolly)
- \*Hookblocks
- \*Air conditioning
- \*Rear pintle hook
- \*Aluminum outrigger pads
- \*Cross axle differential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

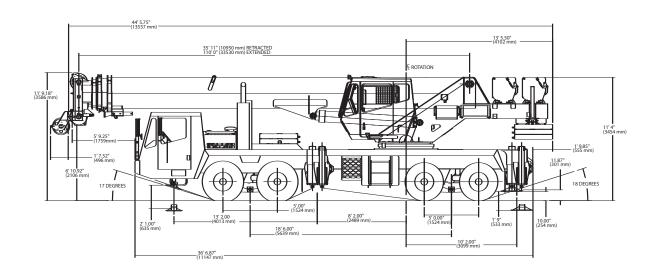


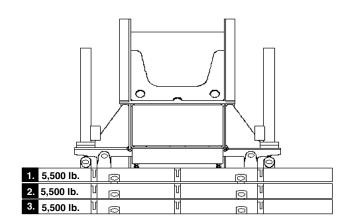


<sup>\*</sup>Denotes optional equipment

# 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°

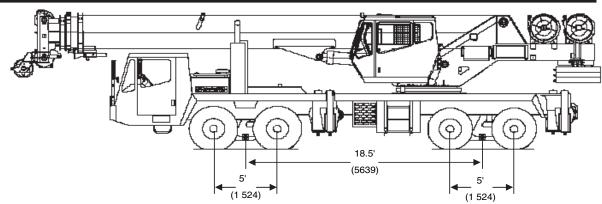
	16,500 lb.	11,000 lb.	5,500 lb.	0 lb.
Main Boom	×≡●□	×∎●□	×■●□	×■●□
33 ft. Swingaway	×	× I	× =	×
56 ft. Swingaway	×	× =	× I	×
76 ft. Boom extension (56 ft. + 20 ft. insert)	×	×	×	×
96 ft. Boom extension (56 ft. + 40 ft. insert)	×	×	×	×

Outrigger Span Rubber

20 ft. = **\*** 14 ft. = **■** 8 ft. = **●** P&C = **■** 

# travel proposals

# **Boom over front**



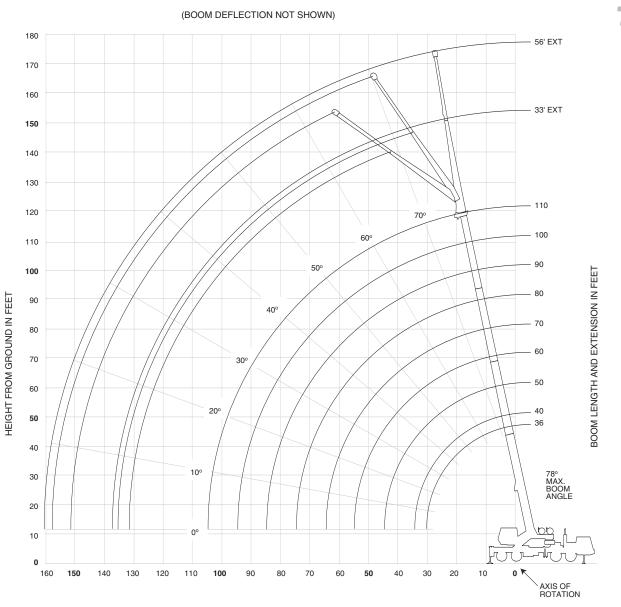
Unit Configuration lb. (kg)	Gr	oss	Fr	ont	R	ear
Basic machine including 110 ft. (33.5 m) main boom, main and auxiliary hoists with cable, driver and no counterweight.	74,712	(33 889)	37,097	(16 827)	37,615	(17 062)
Additions:						
5,500 lb. (2 495 kg.) counterweight pinned on superstructure	5,500	(2495)	-2,214	$(1\ 004)$	7,714	(3 499)
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)

# 57.6' (17 556) 18.5' (1524) (1524) (1524) (1524) (1524) (1524) (1524) (17 556) (17 556) (17 556) (17 556) (17 556) (17 556)

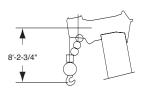
Unit Configuration lb. (kg.)	Gross		Front		Rear		Dolly	
Basic machine including 110 ft. (33.5 m) main boom, main and auxiliary hoists with cable, driver, no counterweight and 6,000 lb. (2 722 kg.) tandem axle dolly.	80,737	(36 622)	33,479	(15 186)	29,275	(13 279)	17,983	(8 157)
Additions:								
5,500 lb. (2 495 kg.) counterweight stowed on carrier deck.	5,500	(2495)	4,692	$(2\ 128)$	808	(367)	0	(0)
11,000 lb. (4 990 kg.) counterweight stowed on carrier deck.	11,000	(4 990)	9,384	(4 257)	1,616	(733)	0	(0)
33 ft. (10.1 m) swingaway with brackets.	2,060	(934)	281	(128)	239	(108)	1,540	(699)
33 - 56 ft. (10.1 - 17.1 m) swingaway with brackets.	2,810	(1 275)	384	(174)	326	(148)	2,100	(953)
Auxiliary boom nose.	130	(59)	-24	(-11)	-20	(-9)	174	(79)
40 ton (35 mt) hookblock hanging at boom nose.	800	(363)	-126	(-57)	-107	(-49)	1,033	(469)
50 ton (45 mt) hookblock hanging at boom nose.	1,000	(454)	-157	(-71)	-134	(-61)	1,291	(586)
60 ton (55 mt) hookblock hanging at boom nose.	1,250	(567)	-197	(-89)	-167	(-76)	1,614	(732)
8.3 ton (7.5 mt) headache ball hanging at boom nose.	371	(168)	-58	(-26)	-50	(-23)	479	(217)

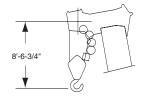
# working range

# 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.

36 - 110 ft.	16,500 lbs.	100% 20' 0"	3	50					
					#0001				
					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	82,700	80,200	61,000	36,800	*36,800	*31,000		
20	(59.5) 68,250	(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)	(55)	(63.5)	(69)	(72)	(75)	(77)	(78)	(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	38,700	37,850	33,400	29,000	25,300	24,200	22,000
30		(31.5)	(48.5)	(57.5)	(63)	(67)	(70.5)	(72.5)	(75)
35			29,400 (40)	28,400 (51.5)	28,700 (58)	25,000 (63)	22,200 (67)	21,750 (69.5)	20,000 (72)
40			23,050	22,100	22,750	22,000	20,200	19,000	18,500
40			(28)	(45)	(53)	(59)	(63)	(66.5)	(69)
45				17,550 (37)	18,250 (47.5)	18,800 (54.5)	17,800 (59.5)	17,300 (63)	17,300 (66.5)
50				14,050 (26.5)	14,850 (41)	15,600 (49.5)	16,000 (55.5)	16,000 (60)	16,000 (63.5)
55				, , ,	12,200 (33.5)	12,950 (44.5)	13,650 (51)	14,100 (56.5)	14,100 (60)
60					10,050	10,850	11,600	12,000	12,200
05					(24)	(38.5) 9,110	(47) 9,900	(52.5) 10,250	(57) 10,600
65						(31.5)	(42)	(48.5)	(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	6,490	6,600
							(21.5)	(34.5) 5.550	(42.5) 5,800
85								(28.5)	(38)
90								4,730 (20.5)	5,000 (33)
95									4,270 (27.5)
100									3,600 (19.5)
		Minimum bo	om angle (deg.) for	indicated length (r	no load)				0
.MI operating c	angles are in degree	es. anual for instruction	n length (ft.) at 0 de ons.	gree boom angle (	no load)				110
ina capacity is	based on maximum	boom angle.	Lifting Capaciti	es at Zero Degree	Boom Angle				
Boom				Main Bo	om Length in Feet				
Angle	35	40	50	**60	70	80	90	100	110
	29.050	24.450	17.050	11.600	8.570	6.610	5.380	4.120	3.110

NOTE: ( ) Reference radii in feet.

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

6 - 110 ft.	16,500 lbs.	100% 20' 0"	0	lver lear					
		20 0	, ,	cai	#0001				
				N	fain Boom Length i	in Feet			
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	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	55,650 (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	(30)	44,100 (31.5)	39,600	38,000	33,400	29,000	25,300	24,200	22,000
35	_	(31.5)	(48.5) 32,400	(57.5) 29,750	(63) 28,700	(67) 25,000	(70.5) 22,200	(72.5) 21,750	(75) 20,000
40			(40) 26,050	(51.5) 25,500	(58) 23,600	(63) 22,000	(67) 20,200	(69.5) 19,000	(72) 18,500
45		L	(28)	(45) 20,000	(53) 19,700	(59) 18,800	(63) 17,800	(66.5) 17,300	(69) 17,300
50				(37) 17,850	(47.5) 16,800	(54.5) 16,500	(59.5) 16,000	(63) 16,000	(66.5) 16,000
55				(26.5)	(41) 14,900	(49.5) 14,650	(55.5) 14,100	(60) 14,100	(63.5) 14,100
					(33.5)	(44.5) 12.800	(51) 12,200	(56.5) 12.200	(60) 12,200
60					(24)	(38.5) 11,450	(47) 10.800	(52.5) 10.600	(57) 10,600
65						(31.5)	(42)	(48.5)	(53.5)
70						10,100 (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)
		Minimum bo	om angle (deg.) for	indicated length (n	o load)				0
MI operating c	angles are in degrees ode. Refer to LMI ma based on maximum l	s. anual for instruction			,				110
			Lifting Capaciti	es at Zero Degree					
Boom Angle	35	40	50	Main Bo	om Length in Feet 70	80	90	100	110
	35	24.450	47.050	11.050	70	7.040	90	100	2.250

NOTE: ( ) Reference radii in feet.

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

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360

36 - 110 ft.	33	- 56 ft.	16,500 lbs		100% 20' 0"	360
			Pou	ınds		
		33 ft. LENGTI	Н		56 ft. LENGT	Н
Feet	#0021 0°	#0022 25°	#0023 45°	#0041 0°	#0042 25°	#0043 45°
1 661	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)		
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	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)		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 (32)	2,660 (35)		2,860 (45.5)	3,050 (51)	2,940 (53.5)
125	2,040 (27.5)	2,240 (30.5)		2,470 (42.5)	2,890 (48.5)	2,800 (50.5)
130	1,700 (22)			2,120 (39.5)	2,590 (45.5)	
135				1,790 (36.5)	2,200 (42.5)	
140				1,480 (33)	1,840 (38.5)	
145				1,200 (29.5)	1,500 (34.5)	
Min. boom		No Lo	oad Stability D	ata		
angle for indicated length	21º	25°	45°	28°	28°	450
Max. boom length at 0° boom angle		100 ft.			90 ft.	200 46 1225

NOTE: () Boom angles are in degrees.

A6-829-101337

\*This capacity is based upon maximum boom angle.

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

- 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.
- 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.

36 - 110 ft.	11,000 lbs.	100%		<b>5</b> 0					
		20' 0"							
					#0101 Main Boom Length in	n Feet			
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	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	48,550 (36)	48,350 (45)	47,650 (56.5)	41,800 (63.5)	36,800 (68)	34,000 (71)	30,000 (73.5)	27,000 (76)	24,000 (77.5)
30	(-2)	34,300 (31.5)	33,650 (48.5)	32,800 (57.5)	33,400 (63)	29,000 (67)	25,300 (70.5)	24,200 (72.5)	22,000 (75)
35		(2)	25,250 (40)	24,350 (51.5)	25,000 (58)	25,000 (63)	22,200 (67)	21,750 (69.5)	20,000 (72)
40			19,500	18,700	19,350	20,050	20,200	19,000	18,500
45			(28)	(45) 14,650	(53) 15,350	16,050	16,750	(66.5) 17,300	(69) 17,300
50				(37) 11,550	(47.5) 12,350	(54.5) 13,050	(59.5) 13,750	(63) 14,300	(66.5) 14,850
55				(26.5)	(41) 9,960	(49.5) 10,700	(55.5) 11,450 (51)	(60) 11,900	(63.5) 12,400
					(33.5) 8,040	(44.5) 8,850	(51) 9,590	(56.5) 10,000	(60) 10,400
60					(24)	(38.5) 7,280	(47) 8,070	(52.5) 8,450	(57) 8,830
65						(31.5) 5.970	(42) 6,760	(48.5) 7.140	(53.5) 7,480
70						(22.5)	(36.5)	(44.5)	(50)
75							5,660 (30)	6,020 (40)	6,350 (46.5)
80							4,710 (21.5)	5,050 (34.5)	5,370 (42.5)
85								4,200 (28.5)	4,510 (38)
90								3,460 (20.5)	3,750 (33)
95									3,080 (27.5)
100									2,480 (19.5)
				indicated length (i					0
	based on maximum	anual for instructions boom angle.							
Boom Angle	based on maximum	boom angle.		es at Zero Degree Main Bo **60	Boom Angle nom Length in Feet 70	80	90	100	110
Boom Angle			Lifting Capaciti	Main Bo	om Length in Feet	80 5,030 (74.2)	90 4,020 (84.2)	2,920 (94.2)	110 2,030 (104.2) -829-101320
Boom Angle 0° NOTE: ( ) Refere	35 29,050 (29.8)	40 24,450 (34.2) d extended and oute	50 16,000 (44.2) r-mid & fly retrac	Main Bo **60 9,340 (54.6) ed.	om Length in Feet 70 6,710	5,030	4,020	2,920 (94.2)	2,030 (104.2)
Boom Angle 0° NOTE: () Refere *60 ft. boom ler	35 29,050 (29,8) ence radii in feet. ngth is with inner-mic	40 24,450 (34.2)	50 16,000 (44.2) r-mid & fly retrac	Main Bo **60 9,340 (54.6)	om Length in Feet 70 6,710 (64.2)	5,030	4,020	2,920 (94.2)	2,030 (104.2)
Boom Angle 0° NOTE: ( ) Refere **60 ft. boom ler 36 - 110 ft.	35 29,050 (29.8) ence radii in feet. ngth is with inner-mic	40 24,450 (34.2) d extended and oute	50 16,000 (44.2) r-mid & fly retrac	Main Bc **60 9,340 (54.6)  ed.	om Length in Feet 70 6,710	5,030 (74.2)	4,020 (84.2)	2,920 (94.2) A6-	2.030 (104.2) -829-101320
Boom Angle 0° NOTE: () Reference 10° 10° 10° 10° 10° 10° 10° 10° 10° 10°	35 29,050 (29.8) once radii in feet. ggth is with inner-mic	40 24,450 (34.2) di extended and oute 100% 20'0"	50 16,000 (44.2) r-mid & fly retrac	Main Bo **60 9,340 (54.6)  ed.	om Length in Feet 70 6,710 (64.2)	5,030 (74.2)	4,020	2,920 (94.2)	2,030 (104.2)
Boom Angle  0°  NOTE: () Reference **60 ft. boom ler  36 - 110 ft.  Feet	35 29,050 (28.8) ence radii in feet. ggth is with inner-mic 11,000 lbs.	40 24,450 (34.2)	50 18,000 (44.2) r-mid & fly retrac	Main Bo **60 9,340 (54.6)  ed.  **60  **60  **60  **2,500 (78)	#0101 Main Boom Length in 70  #0101  #0101  Main Boom Length in 70	5,030 (74.2)	4,020 (84.2)	2,920 (94.2) A6-	2,030 (104.2) -829-101320
Boom Angle 0° NOTE: () Reference (**G0 ft. boom len **G0 ft. boom	35 29.050 (29.8) ence radii in feet. ggth is with inner-mic 11,000 lbs. 35 120,000 (69) 100,000 (65.5)	40 24,450 (34.2) d extended and oute 100% 20' 0" 40 84,400 (72) 84,400 (68.5)	50 15,000 (44.2) r-mid & fly retrac  60 80,200 (73.5)	Main Bo **60 9,340 (54.6)  ed.  **60 **62,500 (78) 62,500 (777)	#0101  #0101  #0101  #0101  #0101  #0107  #0107  #0107	5,030 (74.2)	4,020 (64.2)	2,920 (94.2) A6-	2,030 (104.2) .829-101320
Boom Angle 0° NOTE: () Refere "60 ft. boom ler 36 - 110 ft. 10 12	35 29.059 (29.8) ence radii in feet. gth is with inner-mic 11,000 lbs. 35 120,000 (65.5) 87,300 (59.5)	40 24,450 (34.2)  I = 100% 20' 0"  40 84,400 (72) 84,400 (68.5) 82,700 (63.5)	50 16,000 (44.2) mid & fly retrac R 50 80,200 (76) 80,200 (73.5) 80,200 (70)	Main Bo **60 9,340 (54.6)  ed.  **60 **62,500 (78) 62,500 (777) 61,000 (74)	#0101  #0101  #0101  #0101  #0101  *36,800 (76,5)	5,030 (74.2) In Feet 80 *36,800 (78)	4,020 (84.2)	2,920 (94.2) A6	2,030 (104.2) 829-101320
Boom Angle 0° NOTE: () Reference () Referenc	35 29.059 (29.8) ance radii in feet. gth is with inner-mic 11,000 lbs. 35 120,000 (65.5) 87,300 (69.5) 68,250 (49)	40 24,450 (34.2) d extended and oute 100% 20' 0" 40 84,400 (72) 84,400 (68.5) 82,700 (63.5) 65,000 (55)	50 15,000 (44.2) r-mid & fly retraction of R 50 80,200 (73.5) 80,200 (70) 80,200 (73.5) 80,200 (73.5) 80,200 (73.5)	Main Bo **60 9,340 (54.6)  ed.  **60 62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69)	#0101 #0101 #0101 #0101 #0101 #0101 #0101 #0101 #0101 #0101 #0101 #0101 #0101 #0101 #0101 #0101 #0101 #0101 #0101 #0101	5,030 (74.2) 11 Feet 80 *36,800 (75)	90 *31,000 (77) 31,000 (77)	2,920 (94.2) A6	2,030 (104.2) 829-101320 110 *24,000 (78)
Boom Angle 0° NOTE: () Refere "60 ft. boom ler 36 - 110 ft. 10 12	35 29,050 (29.8) ence radii in feet. hight is with inner-mic 11,000 lbs. 35 120,000 (69.5) 100,000 (65.5) 87,300 (99.5) 68,250	40 24,450 (34.2)  I = 100% 20' 0"  40 84,400 (72) 84,400 (68.5) 82,700 (63.5) 65,000 (55) 52,700 (45)	50 16,000 (44.2) r-mid & fly retraction of R 50 80,200 (70.6) 80,200 (70.6) 80,200 (70.6) 80,200 (70.6) 80,200 (70.6) 80,200 (70.6) 80,200 (70.6) 80,200 (70.6) 80,200 (70.6) 80,200 (70.6)	Main Bo **60 9,340 (54.6)  ed.  **60 **62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5)	#0101  #0101  #0101  #0101  #0101  *36,800 (76.5) 36,800 (72.) 36,800 (72.) 36,800 (72.) 36,800 (73.6)	5,030 (74.2) 11 Feet 80 *36,800 (78) 36,800 (75) 34,000 (71)	4,020 (84.2) 90 *31,000 (78) 31,000 (73.5)	2,920 (94.2) A6- 100 **29,100 (78) 27,000 (76)	2,030 (104.2) 829-101320 110 110 *24,000 (78) 24,000 (77.5)
Boom Angle 0° NOTE: () Reference 60 ft. boom lend 10° Angle 10° Angle 11° An	35 29,050 (29.8) ence radii in feet. high in swith inner-mic 11,000 lbs. 11,000 lbs. 35 120,000 (69) 100,000 (65.5) 87,300 (99.5) 68,250 (49) 52,900	40 24,450 (34.2) d extended and oute 100% 20' 0" 40 84,400 (72) 84,400 (88.5) 82,700 (63.5) 65,000 (55) 52,700	50 15,000 (44.2) -c-mid & fly retraction of R 50 80,200 (73.5) 80,200 (73.5) 80,200 (73.5) 80,200 (73.5) 80,200 (73.5) 80,200 (73.5) 80,200 (73.5) 80,200 (73.5)	Main Bo **60 9,340 (54.6)  ed.  **60 **62,500 (78) 62,550 (79) 61,000 (63.5) 38,000 (57.5)	#0101 #0101	5,030 (74.2) 10 Feet 80 36,800 (78) 36,800 (75) 34,000 (71) 29,000 (67)	4,020 (84.2) 90 *31,000 (73.5) 25,300 (70.5)	2,920 (94.2) A6- 100 *29,100 (76) 24,200 (72.5)	2,030 (104.2) 829-101320 1110 1110 *24,000 (77.5) 22,000 (76)
Boom Angle 0 0 0 0 NOTE: () Reference 60 ft. boom ler 40 ft. boom ler 10 ft. 10 ft. 12 15 20 25	35 29,050 (29.8) ence radii in feet. high in swith inner-mic 11,000 lbs. 11,000 lbs. 35 120,000 (69) 100,000 (65.5) 87,300 (99.5) 68,250 (49) 52,900	40 24,450 (34.2) d extended and oute 100% 20' 0" 40 84,400 (72) 84,400 (68.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 15,000 (44.2)	Main Bo  **60 9,340 (54.6)  ed.  **60 **62,500 (78) 62,500 (74) 50,650 (69) 41,800 (63.5) 38,000	#0101 #0101	5,030 (74.2) n Feet 80 *36,800 (78) 36,800 (75) 34,000 (71) 29,000	90 *31,000 (78) 31,000 (77) 30,000 (73.5) (73.5)	2,920 (94.2) A6-	2,030 (104.2) 829-101320 110 110 *24,000 (78) 24,000 (77.5) 22,000
Boom Angle 0 0 0 NOTE: (1) Reference 60 ft. boom len with 10 12 15 20 25 30	35 29,050 (29.8) ence radii in feet. high in swith inner-mic 11,000 lbs. 11,000 lbs. 35 120,000 (69) 100,000 (65.5) 87,300 (99.5) 68,250 (49) 52,900	40 24,450 (34.2) d extended and oute 100% 20' 0" 40 84,400 (72) 84,400 (68.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 16,000 (44.2) 1-mid & fly retract (44.2) 1-mid & fly retract  50 80,200 (75.5) 80,200 (73.5) 80,200 (73.5) (56.5) 80,200 (40.0) (40.0) (40.0) (40.0) (40.0)	Main Bo  **60 9,340 (54.6)  ed.  **60 **62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (57.5) (51.5) 29,750 (51.5) 25,500	#0101  #0101  Main Boom Length in 70  *36,800 (78) (76.5) (36,800 (72) (36,800 (63) (84) (83,400 (63) (85) (87,00) (85) (85,00) (85) (85,00)	5,030 (74.2) n Feet 80 *36,800 (78) 36,800 (75) 34,000 (71) 29,000 (67) 25,000 (63) 22,000	90 *31,000 (78) 31,000 (77) 30,000 (75,50) (70,5) (70,5) (67) 20,200	2,920 (94.2) A6- 100 **29,100 (78) 27,000 (76) 24,200 (72.5) (69.5) 19,000	2,030 (104.2) 829-101320 1110 1110 124,000 (74,000 (72,00) (75,000 (70,000 (72,000 (73,000 (73,000 (74,000 (74,000 (75,000) (7
Boom Angle 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	35 29,050 (29.8) ence radii in feet. high in swith inner-mic 11,000 lbs. 11,000 lbs. 35 120,000 (69) 100,000 (65.5) 87,300 (99.5) 68,250 (49) 52,900	40 24,450 (34.2) d extended and oute 100% 20' 0" 40 84,400 (72) 84,400 (68.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 15,000 (44.2) c-mid & fly retraction of R (45.2) 50 80,200 (73.5) 80,200 (73.5) 80,200 (73.5) 80,200 (73.5) 80,200 (73.5) 80,200 (73.5) 80,200 (43.0) 80,300 (44.5)	Main Bo  *60  9,340  (54.6)  ed.  **60  *62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (57.5) (51.5) 29,750 (51.5) (45) 20,000	#0101 #0101 Main Boom Length in 70  "36,800 (78) 36,800 (76.5) 36,800 (76.5) 36,800 (80) 33,400 (63) 28,700 (59) 23,600 (53) 19,700	5,030 (74.2) 19 Feet 80 19 6,800 19 78 19 8,000 19 9,000 19 9,000 10	90 *31,000 (78) 31,000 (77) 30,000 (77,5) 25,300 (70,5) 22,200 (67) 20,200 (63) 17,800	2,920 (94.2) A6- 100 (78) 27,000 (78) 24,200 (72.5) 24,200 (65.5) 19,000 (66.5) 17,300	2,030 (104.2) 829-101320 110 110 124,000 (78) 24,000 (77.5) 22,000 (72) 20,000 (72) 18,500 (69) 17,300
Boom Angle 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	35 29,050 (29.8) ence radii in feet. high in swith inner-mic 11,000 lbs. 11,000 lbs. 35 120,000 (69) 100,000 (65.5) 87,300 (99.5) 68,250 (49) 52,900	40 24,450 (34.2) d extended and oute 100% 20' 0" 40 84,400 (72) 84,400 (68.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 16,000 (44.2) 1-mid & fly retract (44.2) 1-mid & fly retract  50 80,200 (75.5) 80,200 (73.5) 80,200 (73.5) (56.5) 80,200 (40.0) (40.0) (40.0) (40.0) (40.0)	Main Bo **60 9,340 (54.6)  ed.  **60 **62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (57.5) (57.5) (51.5) (55.500 (45) (20,000 (37) 16,650	#0101 #0101 Main Boom Length in 70  36,800 (78) 36,800 (78) 36,800 (78) 36,800 (83) 36,800 (83) 36,800 (83) 36,800 (84) 36,800 (85) 36,800	5,030 (74.2) 10 Feet 80 *36,800 (78) 36,800 (75) 34,000 (87) 25,000 (83) 22,000 (59) (18,800 (54.5) (16,500	90  *31,000 (78) 31,000 (77) 30,000 (75,30) (70,5)	2,920 (94.2) A6- 100  *29,100 (78) 27,000 (78) (24,200 (72.5) (69.5) (19.000 (66.5) (73.000 (63.3) (63.000 (63	2,030 (104.2) 829-101320 110 110 *24,000 (78) 24,000 (77.5) (2,000 (72) (89) 17,300 (66.5) 16,000
Boom Angle 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	35 29,050 (29.8) ence radii in feet. high in swith inner-mic 11,000 lbs. 11,000 lbs. 35 120,000 (69) 100,000 (65.5) 87,300 (99.5) 68,250 (49) 52,900	40 24,450 (34.2) d extended and oute 100% 20' 0" 40 84,400 (72) 84,400 (68.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 16,000 (44.2) 1-mid & fly retract (44.2) 1-mid & fly retract  50 80,200 (75.5) 80,200 (73.5) 80,200 (73.5) (56.5) 80,200 (40.0) (40.0) (40.0) (40.0) (40.0)	Main Bo **60 9,340 (54.6)  ed.  **60 **62,500 (78) 62,500 (77) 61,000 (74) 50,650 41,800 (67.5) 29,750 (51.5) 25,500 (45) 20,000 (37)	#0101 #0101 Main Boom Length in 70  *36,800 (78) 36,800 (76.5) 36,800 (77.5) 36,800 (72) 36,800 (88) 38,400 (89) 38,400 (80) 47,50 47,50 47,50 47,50 48,800 (41,50)	*36.800 (74.2)  *36.800 (78) 36.800 (78) 36.800 (79) 36.900 (70) (9.00)	90 *31,000 (84.2) *(77) 30,000 (73.5) 25,005 (70.5) 22,200 (55.5) 16,000 (55.5)	2,920 (94.2) A6- 100  *29,100 (78) (78) (78) (78) (78) (78) (78) (78)	2,030 (104.2) 829-101320 110 110 *24,000 (77.5) 24,000 (77.5) 22,000 (79.0) (79.0) (79.0) (79.0) (66.5) 16,000 (63.5)
Boom Angle 0 0 0 0 10 NOTE: () Reference 10	35 29,050 (29.8) ence radii in feet. high in swith inner-mic 11,000 lbs. 11,000 lbs. 35 120,000 (69) 100,000 (65.5) 87,300 (99.5) 68,250 (49) 52,900	40 24,450 (34.2) d extended and oute 100% 20' 0" 40 84,400 (72) 84,400 (68.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 16,000 (44.2) 1-mid & fly retract (44.2) 1-mid & fly retract  50 80,200 (75.5) 80,200 (73.5) 80,200 (73.5) (56.5) 80,200 (40.0) (40.0) (40.0) (40.0) (40.0)	Main Bo **60 9,340 (54.6)  ed.  **60 **62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (57.5) (57.5) (51.5) (55.500 (45) (20,000 (37) 16,650	#0101  #0101  Main Boom Length in 70  (64.2)  #0101  Main Boom Length in 70  36.800 (76.5) 36.800 (76.5) 36.800 (83.80) (83.80) (84.80) (85.80)	*36,800 (74.2)  *36,800 (78) 36,800 (78) 36,800 (77) 25,000 (67) 25,000 (67) 26,000 (44,5) (44,5) (44,5) (44,5) (44,5) (28,00)	90  *31,000 (78) 31,000 (77) 30,000 (73,5) (70,5) (	2,920 (94.2) A6- 100  *29,100 (78) 27,000 (76) 24,200 (72.5) 21,750 (63) 19,000 (60) 14,100 (56.5) 12,200	2,030 (104.2) 829-101320 110 110 110 110 124,000 (78) 24,000 (77.5) (2,000 (77.5) (2,000 (72) (18,500 (66.5) (66.5) (66.5) (60.00 (60.5) (60.00 (60) (12,200 (60) (12,200
Boom Angle 0 0 0 0 10 NOTE: () Reference 10	35 29,050 (29.8) ence radii in feet. high in swith inner-mic 11,000 lbs. 11,000 lbs. 35 120,000 (69) 100,000 (65.5) 87,300 (99.5) 68,250 (49) 52,900	40 24,450 (34.2) d extended and oute 100% 20' 0" 40 84,400 (72) 84,400 (68.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 16,000 (44.2) 1-mid & fly retract (44.2) 1-mid & fly retract  50 80,200 (75.5) 80,200 (73.5) 80,200 (73.5) (56.5) 80,200 (40.0) (40.0) (40.0) (40.0) (40.0)	Main Bo **60 9,340 (54.6)  ed.  **60 **62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (57.5) (57.5) (51.5) (55.500 (45) (20,000 (37) 16,650	#0101 #0101 Main Boom Length in Feet 70 (64.2)  #0101 Main Boom Length in 70 (78) 36,800 (78) 36,800 (75.5) 36,800 (88) 38,400 (88)	*36,800 (74.2)  *36,800 (78) 36,800 (78) 36,800 (71) 29,000 (81) 22,000 (91) (84.5) 16,500 (49.5) 14,650 (44.5) 12,800 (38.5)	90 *31,000 (84.2) *31,000 (77) 30,000 (73.5) (25.00) (60) (73.5) (73	29,100 (94.2)  *29,100 (78)  27,000 (78)  24,200 (94.2)  4,200 (94.2)  4,200 (96.5)  17,300 (96.5)  16,000 (96.5)  14,100 (56.5)  12,200 (52.5)	2,030 (104.2) 829-101320 110 110 110 110 124,000 (77.5) 24,000 (77.6) 22,000 (78.5) 18,500 (68.5) 16,000 (68.5) 16,000 (68.5) 16,000 (68.5) 16,000 (69.0) 16,000 (60.0) 16,000 (60.0) 16,000 (60.0) 16,000 (60.0) 16,000 (60.0) 16,000 (60.0)
Boom Angle 0 0 0 10 NOTE: () Reference 10 NO	35 29,050 (29.8) ence radii in feet. high in swith inner-mic 11,000 lbs. 11,000 lbs. 35 120,000 (69) 100,000 (65.5) 87,300 (99.5) 68,250 (49) 52,900	40 24,450 (34.2) d extended and oute 100% 20' 0" 40 84,400 (72) 84,400 (68.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 16,000 (44.2) 1-mid & fly retract (44.2) 1-mid & fly retract  50 80,200 (75.5) 80,200 (73.5) 80,200 (73.5) (56.5) 80,200 (40.0) (40.0) (40.0) (40.0) (40.0)	Main Bo **60 9,340 (54.6)  ed.  **60 **62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (57.5) (57.5) (51.5) (55.500 (45) (20,000 (37) 16,650	#0101  #0101  Main Boom Length in 70  (64.2)  #0101  Main Boom Length in 70  36.800 (76.5) 36.800 (76.5) 36.800 (83.80) (83.80) (84.80) (85.80)	*36,800 (74.2)  *36,800 (78) 36,800 (75) 34,000 (71) 29,000 (95) 18,800 (49.5) 14,650 (49.5) 14,650 (49.5) 14,650 (49.5) 12,800 (38.5) 10,950 (31.5)	90 (84.2) (84.2) (90 (	29,100 (94.2)  *29,100 (77.8)  27,000 (78.8)  (72.8)  (4.20) (72.8) (6.6) (73.00 (6	2,030 (104.2) 829-101320 110 110 124,000 (77.5) 24,000 (77.5) 22,000 (78.5) 1,500 (66.5) 16,000 (66.5) 16,000 (60.5) 14,100 (60) 12,200 (57.7) 10,600 (53.5)
Boom Angle 0 0 0 0 NOTE: () Reference of the boom lend of	35 29,050 (29.8) ence radii in feet. high in swith inner-mic 11,000 lbs. 11,000 lbs. 35 120,000 (69) 100,000 (65.5) 87,300 (99.5) 68,250 (49) 52,900	40 24,450 (34.2) d extended and oute 100% 20' 0" 40 84,400 (72) 84,400 (68.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 16,000 (44.2) 1-mid & fly retract (44.2) 1-mid & fly retract  50 80,200 (75.5) 80,200 (73.5) 80,200 (73.5) (56.5) 80,200 (40.0) (40.0) (40.0) (40.0) (40.0)	Main Bo **60 9,340 (54.6)  ed.  **60 **62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (57.5) (57.5) (51.5) (55.500 (45) (20,000 (37) 16,650	#0101  #0101  Main Boom Length in 70  (64.2)  #0101  Main Boom Length in 70  36.800 (76.5) 36.800 (76.5) 36.800 (83.80) (83.80) (84.80) (85.80)	*36,800 (74.2)  *36,800 (78) 36,800 (75) 34,000 (77) 25,000 (67) 25,000 (64.5) (44.5) (44.5) (44.5) (44.5) (28.00 (38.5) (19.55)	90  *31,000 (84.2)  *31,000 (78) 31,000 (77) 30,000 (73.5) (25,00) (70.5) (25,00) (70.5) (67) (67) (67) (67) (67) (67) (70.5) (7	29,100 (94.2)  *29,100 (78)  27,000 (78)  24,200 (72.5) (88.5) (96.5) 19,000 (86.5) 1,300 (56.5) 1,200 (56.5) 1,200 (48.5) 9,000 (48.5)	(2030) (104.2) (204.000) (104.2) (829-101320) (104.2) (105.2) (106.2)
Boom Angle 0 0 0 10 NOTE: () Reference 10 NO	35 29,050 (29.8) ence radii in feet. high in swith inner-mic 11,000 lbs. 11,000 lbs. 35 120,000 (69) 100,000 (65.5) 87,300 (99.5) 68,250 (49) 52,900	40 24,450 (34.2) d extended and oute 100% 20' 0" 40 84,400 (72) 84,400 (68.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 16,000 (44.2) 1-mid & fly retract (44.2) 1-mid & fly retract  50 80,200 (75.5) 80,200 (73.5) 80,200 (73.5) (56.5) 80,200 (40.0) (40.0) (40.0) (40.0) (40.0)	Main Bo **60 9,340 (54.6)  ed.  **60 **62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (57.5) (57.5) (51.5) (55.500 (45) (20,000 (37) 16,650	#0101  #0101  Main Boom Length in 70  (64.2)  #0101  Main Boom Length in 70  36.800 (76.5) 36.800 (76.5) 36.800 (83.80) (83.80) (84.80) (85.80)	*36,800 (74.2)  *36,800 (78) 36,800 (78) 36,800 (71) 29,000 (67) 25,000 (63) 22,000 (59) 18,800 (4,65) 14,450 (4,45) 14,450 (4,45) 13,850 (3,85)	90  *31,000 (84.2)  *31,000 (78) 31,000 (77) 30,000 (73.5) (25,00) (70.5) (25,00) (65.5) (4,100 (65.5) (4,100 (47) 10,800 (47) 10,800 (40) (40) (40) (40) (40) (40) (40) (4	29,100 (94.2)  *29,100 (78)  27,000 (78)  24,200 (72.5) (86.5) 19,000 (66.5) 16,000 (44.5) 1,000 (44.5) 7,800 (44.5)	2,030 (104.2) 829-101320 110 110 124,000 (78) 24,000 (77.5) 24,000 (77.5) 22,000 (78) 18,500 17,300 166.5) 16,000 17,300 166.5) 16,000 17,300 16,000
Boom Angle 0 0 0 0 NOTE: () Reference of the boom lend of	35 29,050 (29.8) ence radii in feet. high in swith inner-mic 11,000 lbs. 11,000 lbs. 35 120,000 (69) 100,000 (65.5) 87,300 (99.5) 68,250 (49) 52,900	40 24,450 (34.2) d extended and oute 100% 20' 0" 40 84,400 (72) 84,400 (68.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 16,000 (44.2) 1-mid & fly retract (44.2) 1-mid & fly retract  50 80,200 (75.5) 80,200 (73.5) 80,200 (73.5) (56.5) 80,200 (40.0) (40.0) (40.0) (40.0) (40.0)	Main Bo **60 9,340 (54.6)  ed.  **60 **62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (57.5) (57.5) (51.5) (55.500 (45) (20,000 (37) 16,650	#0101  #0101  Main Boom Length in 70  (64.2)  #0101  Main Boom Length in 70  36.800 (76.5) 36.800 (76.5) 36.800 (83.80) (83.80) (84.80) (85.80)	*36,800 (74.2)  *36,800 (78) 36,800 (78) 36,800 (71) 29,000 (67) 25,000 (63) 22,000 (59) 18,800 (4,65) 14,450 (4,45) 14,450 (4,45) 13,850 (3,85)	4,020 (84.2) 90 *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200 (63) 14,001 16,005 1	29,100 (94.2)  *29,100 (78)  27,000 (76)  24,200 (72.5)  (68.5)  19,000 (66.5)  12,000 (66.5)  12,000 (44.5)  7,800 (44.5)  7,800 (44.5)  7,800 (600 (34.5)	(104.2) (2.030 (104.2) 829-101320  110  110  124,000 (78) 24,000 (77.5) 22,000 (77.5) (72) 18,500 (65.5) (60.5) (60.5) (60.5) (60.5) (60.5) (60.5) (60.5) (60.5) (60.5) (60.5) (60.6) (60.6) (7.800 (46.5) (60.6) (42.5)
Boom Angle 0 0 0 0 NOTE: () Reference of the boom lend of	35 29,050 (29.8) ence radii in feet. high in swith inner-mic 11,000 lbs. 11,000 lbs. 35 120,000 (69) 100,000 (65.5) 87,300 (99.5) 68,250 (49) 52,900	40 24,450 (34.2) d extended and oute 100% 20' 0" 40 84,400 (72) 84,400 (68.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 16,000 (44.2) 1-mid & fly retract (44.2) 1-mid & fly retract  50 80,200 (75.5) 80,200 (73.5) 80,200 (73.5) (56.5) 80,200 (40.0) (40.0) (40.0) (40.0) (40.0)	Main Bo **60 9,340 (54.6)  ed.  **60 **62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (57.5) (57.5) (51.5) (55.500 (45) (20,000 (37) 16,650	#0101  #0101  Main Boom Length in 70  (64.2)  #0101  Main Boom Length in 70  36.800 (76.5) 36.800 (76.5) 36.800 (83.80) (83.80) (84.80) (85.80)	*36,800 (74.2)  *36,800 (78) 36,800 (78) 36,800 (71) 29,000 (67) 25,000 (63) 22,000 (59) 18,800 (4,65) 14,450 (4,45) 14,450 (4,45) 13,850 (3,85)	4,020 (84.2) 90 *31,000 (78) 31,000 (78) 31,000 (77) 30,000 (70.5) 22,200 (67) 20,200 (63) 17,800 (59.5) 16,000 (51) 14,100 (51) 14,100 (51) 14,100 (51) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) (61) (61) (61) (61) (61) (61) (61)	2,920 (94.2)  A6-  100  *29,100 (78) 27,000 (76) 24,200 (72.5) 19,000 (66.5) 19,000 (68.5) 11,200 (68.5) 12,200 (68.5) 12,200 (68.5) 12,200 (68.5) 14,100 (68.5)	(104.2) (2.030 (104.2) 829-101320  110  110  124,000 (78) 24,000 (77.5) 22,000 (77.5) (79.0) (79.0) (80.5) (60.5)
Boom Angle 0 0 0 0 NOTE: () Reference with the second seco	35 29,050 (29.8) ence radii in feet. high in swith inner-mic 11,000 lbs. 11,000 lbs. 35 120,000 (69) 100,000 (65.5) 87,300 (99.5) 68,250 (49) 52,900	40 24,450 (34.2) d extended and oute 100% 20' 0" 40 84,400 (72) 84,400 (68.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 16,000 (44.2) 1-mid & fly retract (44.2) 1-mid & fly retract 0 80,200 (75.5) 80,200 (73.5) 80,200 (73.5) (80.5)	Main Bo **60 9,340 (54.6)  ed.  **60 **62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (57.5) (57.5) (51.5) (55.500 (45) (20,000 (37) 16,650	#0101  #0101  Main Boom Length in 70  (64.2)  #0101  Main Boom Length in 70  36.800 (76.5) 36.800 (76.5) 36.800 (83.80) (83.80) (84.80) (85.80)	*36,800 (74.2)  *36,800 (78) 36,800 (78) 36,800 (71) 29,000 (67) 25,000 (63) 22,000 (59) 18,800 (4,65) 14,450 (4,45) 14,450 (4,45) 13,850 (3,85)	4,020 (84.2) 90 *31,000 (78) 31,000 (78) 31,000 (77) 30,000 (70.5) 22,200 (67) 20,200 (63) 17,800 (59.5) 16,000 (51) 14,100 (51) 14,100 (51) 14,100 (51) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) 14,100 (61) (61) (61) (61) (61) (61) (61) (61)	2,920 (94.2) A6-  100  *29,100 (78) 27,000 (78) 27,000 (76) 24,200 (72.5) 19,000 (66.5) 17,300 (66.5) 17,300 (60.5) 14,100 (60.5) 12,205 (16.5) 14,100 (40.5) (40.5) (40.5) (40.0) (40.5) (50.0) (34.5) (50.0) (34.5) (50.0) (34.5)	2,030 (104,2) 829-101320 110 110 110 110 110 110 110 110 110 1

Minimum boom angle (deg.) for indicated length (no load)

Maximum boom length (ft.) at 0 degree boom angle (no load)

NOTE: () Boom angles are in degrees.

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

"This capacity is based on maximum boom angle.

100

			Lifting Capacitie	es 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	24,450	17,050	11,950	9,640	7,810	6,390	4,770	3,350
U	(29.8)	(34.2)	(44.2)	(54.6)	(64.2)	(74.2)	(84.2)	(94.2)	(104.2)
NOTE: ( ) Refere	ence radii in feet.							A6	-829-101321

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

11











30 - 110 11.		- 30 It.	11,000 10.	<b>.</b>	20' 0"	000
			Po	unds		
<b>I</b>		33 ft. LENGT	Н		56 ft. LENGTI	Н
$\Box$	#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)	
Min. boom		No L	oad Stability	Data		
angle for indicated length	25°	25°	45°	33°	36°	45°
Max. boom length at 0° boom angle		90 ft.			80 ft.	

NOTE: ( ) Boom angles are in degrees.

A6-829-101338

\*This capacity is based upon maximum boom angle.

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

- 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.

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36 - 110 ft.	5,500 lbs.	100% 20' 0"		90°					
					#0201				
Feet	35	40	50	**60	lain Boom Length in I 70	Feet 80	90	100	110
10	118,500 (69)	84,400 (72)	80,200 (76)	*62,500 (78)				100	110
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	41,100 (36)	41,000 (45)	40,600 (56.5)	40,150 (63.5)	36,800 (68)	34,000 (71)	30,000 (73.5)	27,000 (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						5,410 (31.5)	6,190 (42)	6,540 (48.5)	6,880 (53.5)
70						4,250 (22.5)	5,020 (36.5)	5,400 (44.5)	5,740 (50)
75							4,030 (30)	4,420 (40)	4,770 (46.5)
80							3,190 (21.5)	3,570 (34.5)	3,940 (42.5)
85								2,830 (28.5)	3,200 (38)
90								2,180 (20.5)	2,550 (33)
95									1,980 (27.5)
100									1,470 (19.5)
LMI operating co	angles are in degree	Maximum boon es. anual for instructio	n length (ft.) at 0 d	r indicated length (i egree boom angle					110
This capacity is t	based on maximum	boom angle.		Lifting Capacities	at Zero Degree Boo	m Angle			
Boom Angle	05	40		Main Bo	om Length in Feet	-		400	440
Aligie	35	40	50	**60	70	80	90	100	110

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

12 101 12 (1 15 87 (1)	(69) 0,000 8 65.5) ( 7,300 8 59.5) ( 6,000 6 (49) ( (36) 3	(72) 4,400 (68.5) 2,700 (63.5) 5,000 (55) 9,850 (45) 8,100 (31.5)	50 80,200 (76) 80,200 (73.5) 80,200 (73.5) 80,200 (63.5) (63.5) (49.50) (55.5) 38,200 (48.5) 28,700 (40) 22,200 (28)	**60 Mai **62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) (41,800 (63.5) 38,000 (57.5) (51.5) 22,000 (45) 17,600 (37)	#0201 n Boom Length in 170  *36,800 (78) 36,800 (76.5) 36,800 (72) 36,800 (63) 33,400 (63) 28,700 (58) 23,000 (53) 18,400 (47.5)	*36,800 (78) 36,800 (75) 34,000 (71) 25,000 (63) 22,000 (54,5)	90  *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200 (63) 17,800 (59.5)	100  *29,100 (78) 27,000 (76) 24,209 (72.5) (69.5) 19,000 (66.5) 17,300	*24,000 (78) 24,000 (77.5) 22,000 (75) 20,000 (72) 18,500 (69)
Feet  10 12: 112 10: 115 8: 11	0,000 8. (69) 0,000 8. 65.5) (7,300 8. 59.5) (6,000 6. (49) 0,050 44 (36) 33	4.400 (72) (72) (4.400 (68.5) 2.700 (63.5) 5.000 (55) 9.850 (45) 8.100 (31.5)	80,200 (76) 80,200 (73.5) 80,200 (70) 64,300 (63.5) (49,500 (56.5) 38,200 (48.5) (48.5) (40)	**60 **62,500 (78) 62,500 (77) 61,000 (77) 61,000 (74) 50,650 (69) 41,800 (57.5) 38,000 (57.5) 22,200 (45) 17,600 (37)	70  *36,800 (78) 36,800 (76.5) 36,800 (72) 36,800 (63) 33,400 (63) 28,700 (53) 18,400	*36,800 (78) 36,800 (75) 34,000 (71) 29,000 (67) 25,000 (53) 22,000 (59) 18,800	*31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200 (63) 17,800	*29,100 (78) 27,000 (76) 24,200 (72.5) 21,750 (69.5) 19,000 (66.5) 17,300	*24,000 (78) 24,000 (77.5) 22,000 (75) 20,000 (72) 18,500 (69) 17,300
10 12: 12 10: (15 8: 20 6: 25 50: 30 35 40 45 50 55 60 66 66 66	0,000 8. (69) 0,000 8. 65.5) (7,300 8. 59.5) (6,000 6. (49) 0,050 44 (36) 33	4.400 (72) (72) (4.400 (68.5) 2.700 (63.5) 5.000 (55) 9.850 (45) 8.100 (31.5)	80,200 (76) 80,200 (73.5) 80,200 (70) 64,300 (63.5) (49,500 (56.5) 38,200 (48.5) (48.5) (40)	*62,500 (78) 62,500 (77) 61,000 (74) 50,650 (63) 41,800 (63.5) 38,000 (57.5) 22,200 (45) 17,600 (37)	*36,800 (78) 36,800 (76.5) 36,800 (72) 36,800 (68) 33,400 (63) 28,700 (53) 18,400	*36,800 (78) 36,800 (75) 34,000 (71) 29,000 (67) 25,000 (63) 22,000 (59) 18,800	*31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200 (63) 17,800	*29,100 (78) 27,000 (76) 24,200 (72.5) 21,750 (69.5) 19,000 (66.5) 17,300	*24,000 (78) 24,000 (77.5) 22,000 (75) 20,000 (72) 18,500 (69) 17,300
12 (() 15 8; (2) 20 6f (2) 25 5f 30 35 40 45 50 55 60 66	(69) 0,000 8 65.5) ( 7,300 8 59.5) ( 6,000 6 (49) ( 0,050 4 (36) 3	(72) 4,400 (68.5) 2,700 (63.5) 5,000 (55) 9,850 (45) 8,100 (31.5)	(76) 80,200 (73.5) 80,200 (70) 80,200 (70) 64,300 (63.5) 49,500 (56.5) 38,200 (48.5) 28,700 (40)	(78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (57.5) 22,200 (45) 17,600 (37)	(78) 36,800 (76.5) 36,800 (72) 36,800 (68) 33,400 (63) 28,700 (58) 23,000 (53)	(78) 36,800 (75) 34,000 (71) 29,000 (67) 25,000 (63) 22,000 (59) 18,800	(78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200 (63) 17,800	(78) 27,000 (76) 24,200 (72.5) 21,750 (69.5) 19,000 (66.5) 17,300	(78) 24,000 (77.5) 22,000 (75) 20,000 (72) 18,500 (69) 17,300
12 (r) 15 8; (r) 20 64 25 50 30 35 40 45 50 55 60 65	65.5) ((7,300 8: 59.5) (6,000 6: (49) 0,050 4: (36) 3:	(68.5) 2,700 (63.5) 5,000 (55) 9,850 (45) 8,100 (31.5)	(73.5) 80.200 (70) (64,300 (63.5) 49,500 (56.5) 38,200 (48.5) 28,700 (40) 22,200	(777) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (57.5) 28,600 (51.5) 22,200 (45) 17,500 (37)	(78) 36,800 (76.5) 36,800 (72) 36,800 (68) 33,400 (63) 28,700 (58) 23,000 (53)	(78) 36,800 (75) 34,000 (71) 29,000 (67) 25,000 (63) 22,000 (59) 18,800	(78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200 (63) 17,800	(78) 27,000 (76) 24,200 (72.5) 21,750 (69.5) 19,000 (66.5) 17,300	(78) 24,000 (77.5) 22,000 (75) 20,000 (72) 18,500 (69) 17,300
15 (6) (7) (8) (10) (10) (10) (10) (10) (10) (10) (10	7,300 8: 59.5) (6,000 6: (49) (36) 4: (36) 3:	2,700 (63.5) 5,000 (55) 9,850 (45) 8,100 (31.5)	80,200 (70) 64,300 (63.5) 49,500 (56.5) 38,200 (48.5) 28,700 (40) 22,200	61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (57.5) 28,600 (51.5) 22,200 (45) 17,600 (37)	36,800 (76.5) 36,800 (72) 36,800 (68) 33,400 (63) 28,700 (58) 23,000 (53) 18,400	(78) 36,800 (75) 34,000 (71) 29,000 (67) 25,000 (63) 22,000 (59) 18,800	(78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200 (63) 17,800	(78) 27,000 (76) 24,200 (72.5) 21,750 (69.5) 19,000 (66.5) 17,300	(78) 24,000 (77.5) 22,000 (75) 20,000 (72) 18,500 (69) 17,300
20 66 25 50 30 35 40 45 50 55 60 66	6,000 69 (49) 0,050 49 (36) 3	5,000 (55) 9,850 (45) 8,100 (31.5)	64,300 (63.5) 49,500 (56.5) 38,200 (48.5) 28,700 (40) 22,200	50,650 (69) 41,800 (63.5) 38,000 (57.5) 28,600 (51.5) 22,200 (45) 17,600 (37)	36,800 (72) 36,800 (68) 33,400 (63) 28,700 (58) 23,000 (53) 18,400	36,800 (75) 34,000 (71) 29,000 (67) 25,000 (63) 22,000 (59) 18,800	31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200 (63) 17,800	(78) 27,000 (76) 24,200 (72.5) 21,750 (69.5) 19,000 (66.5) 17,300	(78) 24,000 (77.5) 22,000 (75) 20,000 (72) 18,500 (69) 17,300
25 50 30 35 40 45 50 55 60 65	(49) 0,050 4: (36)	(55) 9,850 (45) 8,100 (31.5)	(63.5) 49,500 (56.5) 38,200 (48.5) 28,700 (40) 22,200	(69) 41,800 (63.5) 38,000 (57.5) 28,600 (51.5) 22,200 (45) 17,600 (37)	(72) 36,800 (68) 33,400 (63) 28,700 (58) 23,000 (53) 18,400	(75) 34,000 (71) 29,000 (67) 25,000 (63) 22,000 (59) 18,800	(77) 30,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200 (63) 17,800	27,000 (76) 24,200 (72.5) 21,750 (69.5) 19,000 (66.5) 17,300	24,000 (77.5) 22,000 (75) 20,000 (72) 18,500 (69) 17,300
30 35 40 45 50 55 60 65	(36)	(45) 8,100 (31.5)	(56.5) 38,200 (48.5) 28,700 (40) 22,200	(63.5) 38,000 (57.5) 28,600 (51.5) 22,200 (45) 17,600 (37)	(68) 33,400 (63) 28,700 (58) 23,000 (53) 18,400	(71) 29,000 (67) 25,000 (63) 22,000 (59) 18,800	(73.5) 25,300 (70.5) 22,200 (67) 20,200 (63) 17,800	(76) 24,200 (72.5) 21,750 (69.5) 19,000 (66.5) 17,300	(77.5) 22,000 (75) 20,000 (72) 18,500 (69) 17,300
35 40 45 50 55 60 65	3(	(31.5)	(48.5) 28,700 (40) 22,200	(57.5) 28,600 (51.5) 22,200 (45) 17,600 (37)	(63) 28,700 (58) 23,000 (53) 18,400	(67) 25,000 (63) 22,000 (59) 18,800	(70.5) 22,200 (67) 20,200 (63) 17,800	(72.5) 21,750 (69.5) 19,000 (66.5) 17,300	(75) 20,000 (72) 18,500 (69) 17,300
40 45 50 55 60 65			28,700 (40) 22,200	28,600 (51.5) 22,200 (45) 17,600 (37)	28,700 (58) 23,000 (53) 18,400	25,000 (63) 22,000 (59) 18,800	22,200 (67) 20,200 (63) 17,800	21,750 (69.5) 19,000 (66.5) 17,300	20,000 (72) 18,500 (69) 17,300
40 45 50 55 60 65			22,200	22,200 (45) 17,600 (37)	23,000 (53) 18,400	22,000 (59) 18,800	20,200 (63) 17,800	19,000 (66.5) 17,300	18,500 (69) 17,300
45 50 55 60 65				(45) 17,600 (37)	(53) 18,400	(59) 18,800	(63) 17,800	(66.5) 17,300	(69) 17,300
50 55 60 65				(37)					
55 60 65				14 100		(54.5)	(05.0)	(63)	(66.5)
60 65				(26.5)	14,950 (41)	15,750 (49.5)	16,000 (55.5)	16,000 (60)	16,000 (63.5)
65				(20.0)	12,250 (33.5)	13,050 (44.5)	13,800 (51)	14,100 (56.5)	14,100 (60)
65					10,050	10,900	11,650	12,000	12,200
					(24)	(38.5) 9.100	(47) 9.890	(52.5) 10.200	(57)
70						(31.5)	(42)	(48.5)	10,550 (53.5)
						7,590 (22.5)	8,380 (36.5)	8,740 (44.5)	9,000 (50)
75						(==)	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								(20.0)	4,180 (27.5)
100									3,520 (19.5)
	N	Minimum boom an	ngle (deg.) for inc	licated length (no	load)				0
	Max	ximum boom leng	gth (ft.) at 0 degre	ee boom angle (no	load)				110

Main Boom Length in Feet

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

0°

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# **AND**









36 - 110 ft.	33 - 56 ft. 5,500 lk		5,500 lbs.		360	
			Pou	unds		
		33 ft. LENGT	Н		56 ft. LENGT	Н
$\Theta$	#0221	#0222	#0223	#0241	#0242	#0243
Feet	0º 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	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)
		No L	oad Stability I	Data		
Min. boom angle for indicated length	37°	37º	45°	45°	460	48º
Max. boom length at 0° boom angle		80 ft.			60 ft.	

NOTE: () Boom angles are in degrees.

A6-829-101339

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

- 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.

<sup>\*</sup>This capacity is based upon maximum boom angle.

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6 - 110 ft.	0 lbs.	100% 20' 0"		Ω 360					
					#0801				
					Main Boom Length i	in Feet			
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	(00)	23,350 (31.5)	23,100 (48.5)	22,700 (57.5)	23,400 (63)	24,150 (67)	24,850 (70.5)	24,200 (72.5)	22,000 (75)
35		(==/	16,650 (40)	16,250 (51.5)	16,950 (58)	17,700 (63)	18,400 (67)	18,850 (69.5)	19,300 (72)
40			12,250 (28)	12,000 (45)	12,650 (53)	13,400 (59)	14,100 (63)	14,550 (66.5)	14,950 (69)
45				8,890 (37)	9,620 (47.5)	10,300 (54.5)	11,050 (59.5)	11,450 (63)	11,800 (66.5)
50				6,510 (26.5)	7,330 (41)	8,040 (49.5)	8,750 (55.5)	9,130 (60)	9,510 (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						(===-)	2,480 (30)	2,870 (40)	3,220 (46.5)
80							1,740 (21.5)	2,130 (34.5)	2,500 (42.5)
85							(=1.0)	1,480 (28.5)	1,850 (38)
90								(20.0)	1,290 (33)
	Mir	nimum boom angle	(deg.) for indicate	d length (no load)				14	26
I operating co	igles are in degree	nanual for instructio	,	om angle (no load)					90

	Lifting Capacities at Zero Degree Boom Angle									
Boom										
Angle	35	40	50	**60	70	80	90			
0	23,700 (29.8)	17,650 (34.2)	9,550 (44,2)	4,810 (54.6)	2,960 (64.2)	1,840 (74.2)	1,210 (84.2)			
	(==)	()	()	()	,/	()	· -/			

<sup>\*\*60</sup> ft. boom length is with inner-mid extended and outer-mid & fly retracted.

6 - 110 ft.	0 lbs.	100% 20' 0"		Over Rear					
<b>7</b>		20 0		reui	#0801				
Feet					Main Boom Length				
reet	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	(5-5)	32,950 (31.5)	33,100 (48.5)	33,050 (57.5)	33,400 (63)	29,000 (67)	25,300 (70.5)	24,200 (72.5)	22,000 (75)
35		(01.0)	24,600 (40)	24,500 (51.5)	25,350 (58)	25,000 (63)	22,200 (67)	21,750 (69.5)	20,000 (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			(20)	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				(20.0)	9,990 (33.5)	10,800 (44.5)	11,550 (51)	11,900 (56.5)	12,300
60					8,020 (24)	8,860 (38.5)	9,620 (47)	9,980 (52.5)	10,300 (57)
65					(24)	7,240	8.030	8,370	8,720
70						(31.5) 5,890	(42) 6,680	(48.5) 7,040	(53.5) 7,380
75						(22.5)	(36.5) 5,520 (30)	(44.5) 5,910	(50) 6,240
							(30) 4,540	(40) 4,910	(46.5) 5,270
80							(21.5)	(34.5) 4.050	(42.5) 4,410
85								(28.5) 3.300	(38) 3,650
90								(20.5)	(33)
95									2,980 (27.5)
100									2,380 (19.5)
			0 1 0 /	for indicated length (r	,				0
_MI operating co		es. nanual for instructio		degree boom angle (	no load)				110
nis capacity is t	based on maximum	i boom angle.	Lifting Capaci	ties at Zero Degree B	oom Angle				

NOTE: () Reference radii in feet.

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

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	440 (
36	- 110 π.









36 - 110 ft.	33 - 56 ft.		0 lbs.		100% 20' 0"	360.
			Poi	unds		
	;	33 ft. LENGT	Н		56 ft. LENGT	Н
Feet	#0821 0° OFFSET	#0822 25° OFFSET	#0823 45° OFFSET	#0841 0° OFFSET	#0842 25° OFFSET	#0843 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 Le	oad Stability D	ata		
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

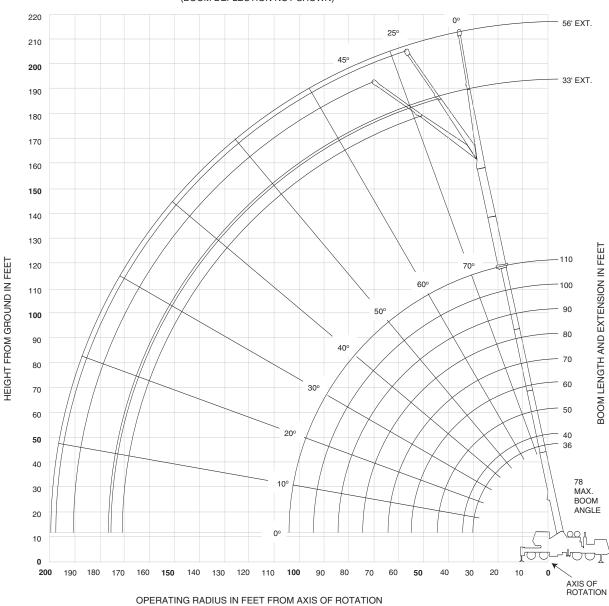
- All capacities above the bold line are based on structural strength of boom extension.
- 2. 33 ft. and 56 ft. boom extension lengths may be used for single line lifting service.
- 3. Radii listed are for a fully extended boom with the boom extension erected. For main boom lengths less than fully extended, 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.

<sup>\*</sup>This capacity is based upon maximum boom angle.

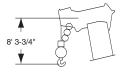
<sup>#</sup>LMI operating code. Refer to LMI manual for instructions.

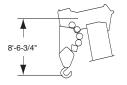
16

(BOOM DEFLECTION NOT SHOWN)



TMS700E





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

36 - 110 ft











	Pounds								
		33 ft. LENGTI	Н		56 ft. LENGTI	Н			
$\bigcirc$	#0064	#0065	#0066	#0084	#0085	#0086			
Feet	0° OFFSET	25° OFFSET	45° OFFSET	0° OFFSET	25° OFFSET	45° OFFSET			
35	*9,360 (78)								
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)	1,750 (51)	1,670 (53)			
140	1,210 (30.5)	1,390 (33.5)		1,480 (42.5)	1,610 (48.5)				
145					1,520 (45.5)				
150					1,370 (43)				
Min has		No Lo	oad Stability D	Data					
Min. boom angle at 110' boom length Max. boom	22º	29°	45°	38°	40°	45°			
length at 0° boom angle		100 ft.			80 ft.				

NOTE: ( ) Boom angles are in degrees.

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- 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 SAF L765
- 33 ft. and 56 ft. folding boom extension lengths may be used for single line lifting service only.
- 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.

<sup>\*</sup>This capacity is based upon maximum boom angle.

<sup>#</sup>LMI operating code. Refer to LMI manual for instructions.











360°

18

	Pounds								
		33 ft. LENGT	Н		56 ft. LENGT	Н			
$\bigcirc$	#0064	#0065	#0066	#0084	#0085	#0086			
Feet	0° OFFSET	25° OFFSET	45° OFFSET	0° OFFSET	25° OFFSET	45° OFFSET			
45	6,560 (78)								
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	400	40°	470	56°	58°	60°			
Max. boom length at 0° boom angle		70 ft.			40 ft.				

NOTE: ( ) Boom angles are in degrees.

A6-829-101494

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

- 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 L765
- 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.

<sup>\*</sup>This capacity is based upon maximum boom angle.

# load handling

Weight Reductions for Load Ha	andling Devices						
33 ft56 ft. Folding Boom Extension							
*33 ft. Extension (Erected)	4,350 lb.						
*56 ft. Extension (Erected)	9,450 lb.						
Folding Ext. with 20 ft. Insert							
*33 ft. Extension (Erected)	9,410 lb.						
*56 ft. Extension (Erected)	16,010 lb.						
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.

Auxiliany Room Noso

Auxiliary bootii Nose	137 10.			
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 actual weight.				

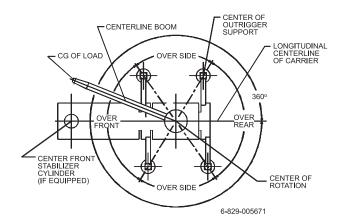
NOTE: All load handling devices and boom attachments are considered part of the load and suitable allowances MUST BE MADE for their combined weights. Weights are for Grove furnished equipment.

Line Pulls and Reeving Information						
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.

Hoist Performance							
Wire Rope	Hoist Line Pulls Two Speed Hoist Low High			Drum Rope Capacity (ft.)			
Layer	Low 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 capacity: 6x37 or 35x7 class = 16,800 lb.							

# **Working Area Diagram**



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



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