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

3

9

6

7

8

16

17

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

Maximum Rope Stowage: 841 ft. (256 m)

*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.



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

*Optional Equipment

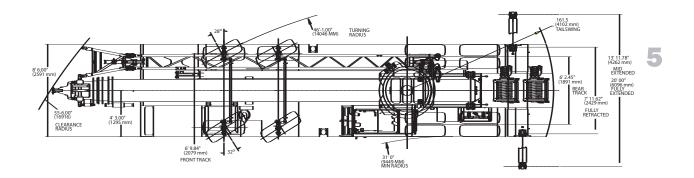
- *Flashing Light Package includes amber strobe for both cabs *Trailing Boom Package – includes trailer air and electrical disconnects and trailing boom kit with no spin differential (less dolly)
- *Hookblocks
- *Air conditioning
- *Rear pintle hook
- *Aluminum outrigger pads
- *Cross axle differential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

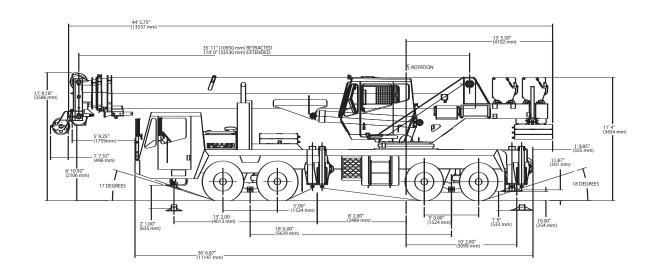


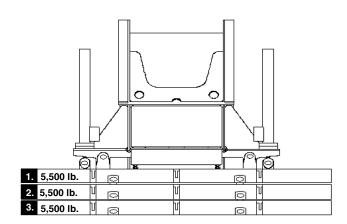


^{*}Denotes optional equipment

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)	•	•	•

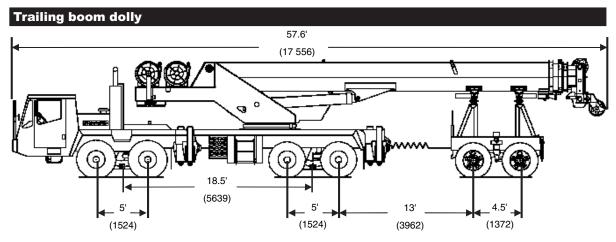
Load Chart Configuration — 360°

	16,500 lb.	11,000 lb.	5,500 lb.	0 lb.
Main Boom	× m • \square	× m • m	× E • \Box	× m • \square
33 ft. Swingaway	×	× =	× =	× m
56 ft. Swingaway	× =	× I	× ■	× =
76 ft. Boom extension (56 ft. + 20 ft. insert)	×	×	×	×
96 ft. Boom extension (56 ft. + 40 ft. insert)	×	×	×	×

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



				,		
Unit Configuration lb. (kg)	Gre	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	(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	(10497)
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 y	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 ghough	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))
)))

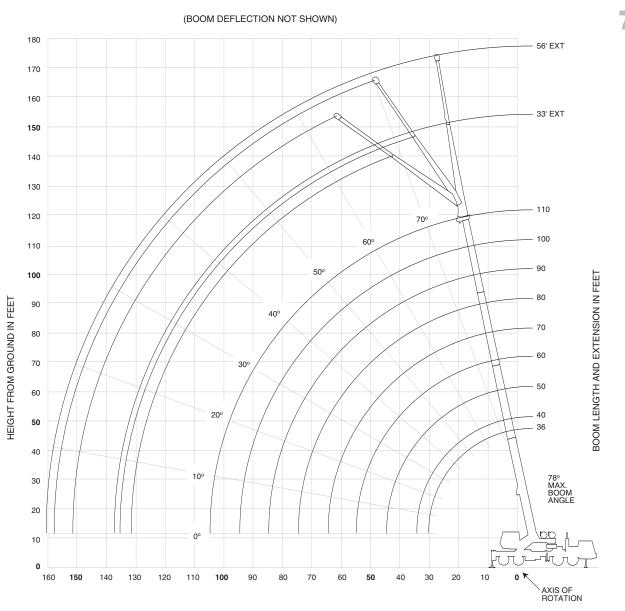


Unit Configuration lb. (kg.)	Gr	oss	Fre	ont	Re	ear	Dol	ly
Basic machine including 110 ft. (33.5 m) main boom, main and auxiliary hoists with cable, driver, no counterweight and 6,000 lb. (2 722 kg.) tandem axle dolly.	80,737	(36 622)	33,479	(15 186)	29,275	(13 279)	17,983	(8 157)
Additions:								
5,500 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)

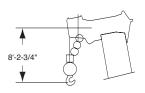
GROVE.

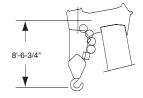
working range

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.

TMS700E

36 - 110 ft.

100% 20' 0" 360...

12 1 15 20	35 120,000 (69)	20' 0"		Rear					
Feet 10 1 12 1 15 20 25 30 36 40 45 50 55	120,000 (69)	40			#0001				
10 1 12 1 15 20 25 30 35 40 45 50	120,000 (69)	40			fain Boom Length i				
12 1 15 20 25 30 35 40 45 50 55	(69)	84.400	50 80.200	**60 *62.500	70	80	90	100	110
15 20 25 30 35 40 45 50		(72)	(76)	(78)					
20 25 30 35 40 45 50	100,000 (65.5)	84,400 (68.5)	80,200 (73.5)	62,500 (77)	*36,800 (78)				
25 30 35 40 45 50	87,300 (59.5)	82,700 (63.5)	80,200 (70)	61,000 (74)	36,800 (76.5)	*36,800 (78)	*31,000 (78)		
30 35 40 45 50 55	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)
35 40 45 50 55	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)
35 40 45 50 55	(30)	44,100	39,600	38,000	33,400	29,000	25,300	24,200	22,000
40 45 50 55		(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
45 50 55			(40)	(51.5)	(58)	(63)	(67)	(69.5)	(72)
50			26,050 (28)	25,500 (45)	23,600 (53)	22,000 (59)	20,200 (63)	19,000 (66.5)	18,500 (69)
55		_		20,000 (37)	19,700 (47.5)	18,800 (54.5)	17,800 (59.5)	17,300 (63)	17,300 (66.5)
				17,850 (26.5)	16,800 (41)	16,500 (49.5)	16,000 (55.5)	16,000 (60)	16,000 (63.5)
60					14,900 (33.5)	14,650 (44.5)	14,100 (51)	14,100 (56.5)	14,100 (60)
					13,050 (24)	12,800 (38.5)	12,200 (47)	12,200 (52.5)	12,200 (57)
65						11,450 (31.5)	10,800 (42)	10,600 (48.5)	10,600 (53.5)
70						10,100 (22.5)	9,450 (36.5)	9,000 (44.5)	9,000
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 boo	m angle (deg.)	or indicated length (n	o load)				0
E: () Boom angles I operating code. F s capacity is based	Refer to LMI ma	s. Inual for instruction		degree boom angle (no load)				110

Main Boom Length in Feet

**60

GROVE.

Boom Angle

0° 29,050 (29.8) NOTE: () Reference radii in feet.

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











36 - 110 ft.	33	- 56 ft.	16,500 lbs	S.	100% 20' 0"	360
			Po	unds		
		33 ft. LENGTI	Н		56 ft. LENGT	Н
Θ	#0021	#0022	#0023	#0041	#0042	#0043
Feet	0º OFFSET	25° OFFSET	45° OFFSET	0° OFFSET	25° OFFSET	45° OFFSET
30	12,900 (78)	OTTOLI	OTTOET	OTTOET	OTTOET	OITOLI
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) 2,240		2,860 (45.5) 2.470	3,050 (51) 2,890	2,940 (53.5) 2,800
125	2,040 (27.5) 1,700	(30.5)		(42.5) 2,120	(48.5) 2,590	(50.5)
130	(22)			(39.5)	(45.5) 2.200	
135				(36.5)	(42.5) 1,840	
140				(33)	(38.5)	
145		No.Lo	oad Stability D	(29.5)	(34.5)	
Min. boom		INO LO	da Glability L	oud .		
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

*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.

100%

Ω 360

10

- 110 ft.	11,000 lbs.	100% 20' 0"							
7 C		20 0			#0101				
Feet	35	40	50	**60	Main Boom Length in Fee 70	t 80	90	100	110
10	120,000	84,400	80,200	*62,500	70	00	30	100	110
12	(69) 100,000	(72) 84,400	(76) 80,200	(78) 62,500	*36,800				
15	(65.5) 87,300	(68.5) 82,700	(73.5) 80,200	(77) 61,000	(78) 36,800	*36,800	*31,000		
	(59.5) 68,250	(63.5) 65,000	(70)	(74) 50,650	(76.5) 36,800	(78)	(78)	*29 100	*24,000
20	(49)	(55)	64,300 (63.5)	(69)	(72)	36,800 (75)	31,000 (77)	*29,100 (78)	(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		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			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	(59) 16,050	(63) 16,750	(66.5) 17,300	(69) 17,300
				(37) 11.550	(47.5) 12,350	(54.5) 13,050	(59.5) 13.750	(63) 14,300	(66.5) 14.850
50				(26.5)	(41)	(49.5)	(55.5)	(60) 11,900	(63.5) 12,400
55					9,960 (33.5)	10,700 (44.5)	11,450 (51)	(56.5)	(60)
60					8,040 (24)	8,850 (38.5)	9,590 (47)	10,000 (52.5)	10,400 (57)
65						7,280 (31.5)	8,070 (42)	8,450 (48.5)	8,830 (53.5)
70						5,970 (22.5)	6,760	7,140 (44.5)	7,480
75						(22.0)	(36.5) 5,660	6,020	(50) 6,350
80							(30) 4,710	(40) 5,050	(46.5) 5,370
							(21.5)	(34.5) 4,200	(42.5) 4,510
85								(28.5)	(38)
90								3,460 (20.5)	3,750 (33)
95									3,080 (27.5)
100									2,480 (19.5)
				r indicated length					0
F: () Room	angles are in degrees			egree boom angle	(no load)				110
I operating c	ode. Refer to LMI ma based on maximum t	nual for instruction	is.						
з сарасну із	based on maximum t	Joont angle.	Lifting Capaciti	ies at Zero Degre	e Boom Angle				
Boom Angle	35	40	50	Main B	oom Length in Feet			100	110
Aligie	29,050	24,450	50 16,000	9,340	70 6.710	5,030 (74.2)	90 4,020 (84.2)	2,920 (94.2)	2,030 (104.2)
00	20,000								
	(29.8) nce radii in feet. igth is with inner-mid	(34.2) extended and out	(44.2) er-mid & fly retrac	(54.6)	6,710 (64.2)	(74.2)	(84.2)		-829-101320
E: () Refere ft. boom len	(29.8) nce radii in feet. gth is with inner-mid	(34.2) extended and out	(44.2) er-mid & fly retrac	(54.6)	(64.2) #0101	(74.2)	(84.2)		
E: () Refere ft. boom len	(29.8) nce radii in feet. gth is with inner-mid	(34.2) extended and out	(44.2) er-mid & fly retrac	(54.6)			90		
E: () Refere ft. boom len	(29.8) nce radii in feet. gth is with inner-mid 11,000 lbs.	(34.2) extended and out 100% 20' 0"	(44.2) er-mid & fly retrac O R 50 80,200	(54.6) tted. **60 *62.500	#0101 Main Boom Length in Fee	ıt t		A6-	-829-101320
E: () Refere ft. boom len	(29.8) nce radii in feet. gth is with inner-mid 11,000 lbs. 35 120,000 (69) 100,000	(34.2) extended and out 100% 20' 0" 40 84,400 (72) 84,400	(44.2) er-mid & fly retrac O R 50 80,200 (76) 80,200	(54.6) tted. Ner lear *60 *62,500 (78)	#0101 Main Boom Length in Fee 70 *36,800	ıt t		A6-	-829-101320
E: () Refere ft. boom len	(29.8) nor radii in feet. gth is with inner-mid . 11,000 lbs. 35 120,000 (69) 100,000 (65.5) 87,300	(34.2) extended and out 100% 20' 0" 40 84,400 (68.5) 82,700	(44.2) er-mid & fly retrac OR 50 80,200 (73.5) 80,200 (73.5) 80,200	(54.6) Ner rear **60 *62,500 (78) 62,500 (77) 61,000	#0101 Main Boom Length in Fee 70 *36,800 (78) 56,800	at 80	90	A6-	-829-101320
E: () Refere ft. boom len	(29.8) note radii in feet. gth is with inner-mid 11,000 lbs. 35 120,000 (69) 100,000 (65.5) 87,300 (59.5)	(34.2) extended and out 100% 20' 0" 40 84,400 (72) 84,400 (68.5) 82,700 (63.5)	(44.2) er-mid & fly retrac O R 50 80,200 (76) 80,200 (73.5) 80,200 (70)	(54.6) Ner tear **60 *62,500 (78) 62,500 (77) 61,000 (74)	#0101 Main Boom Length in Fee 70 (78) 36,800 (76.5)	*36,800 (78)	90 *31,000 (78)	100	110
E: () Refere ft. boom len ft. boom len ft. boom len ft. boom len ft. 110 ft.	(29.8) nor addi in feet. gth is with inner-mid 11,000 lbs. 35 120,000 (609) 100,000 (65.5) 87,300 (59.5) 68,250 (49)	(34.2) extended and out 100% 20' 0" 40 84,400 (72) 84,400 (68.5) 65,000 (55)	(44.2) er-mid & fly retrac O R 50 80,200 (76) 80,200 (770) 64,300 (63.5)	(54.6) Ner tear **60 *62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69)	#0101 Main Boom Length in Fee 70 *36,800 (78) 36,800 (76.5) 36,800 (72)	*36,800 (78) 36,800 (75)	90 *31,000 (78) 31,000 (77)	100	-829-101320 110 *24,000 (78)
E: () Refere ft. boom len	(29.8) (29.8) (29.8) (20.8) (2	(34.2) extended and out 100% 20' 0" 40 84,400 (72) 84,400 (68.5) 82,700 (63.5) 65,000 (55) 52,700 (45)	(44.2) er-mid & fly retrac 50 80,200 (76) 80,200 (73.5) 80,200 (770) 64,300 (63.5) 52,000 (56.5)	**60 **2,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5)	#0101 Main Boom Length in Fee 70 *36,800 (78) 36,800 (76.5) 36,800 (72) 36,800 (68)	*36,800 (78) 36,800 (75) 34,000 (71)	*31,000 (78) 31,000 (77) 30,000 (73.5)	100 *29,100 (78) 27,000 (76)	*24,000 (78) 24,000 (77.5)
E: () Refere ft. boom len ft. boom len ft. boom len ft. boom len ft. 110 ft.	(29.8) (29.8) (29.8) (29.8) (29.8) (29.8) (30.8) (3	40 84,400 (72) 84,400 (68.5) 82,700 (65.00 (55) 52,700	(44.2) er-mid & fly retract 50 80,200 (75.5) 80,200 (73.5) 80,200 (70) 64,300 (63.5) 52,000 (65.5) 39,600 (45.6)	**60 **2,500 (77) 61,000 (63.5) 88,000 (57.5)	#0101 Main Boom Length in Fee 70 "36,800 (76,5) 36,800 (72) 36,800 (68) 33,400 (63)	*36,800 (78) 36,800 (75) 34,000 (71) 29,000 (67)	90 *31,000 (78) 31,000 (73.5) 25,300 (70.5)	100 *29,100 (78) 27,000 (76) 24,200 (7.2.5)	110 110 124,000 (778) 24,000 (77.5) 22,000
E: () Refere ft. boom len ft. boom len ft. boom len ft. 110 ft. 110 ft. 12 15 20 25	(29.8) (29.8) (29.8) (29.8) (29.8) (29.8) (30.8) (3	(34.2) extended and out 100% 20' 0" 40 84,400 (68.5) 82,700 (65.00) (55.5) (55.00) (45.41,750	(44.2) er-mid & fly retrac o R 50 80,200 (75) 80,200 (74.5) 80,200 (53.5) 64,300 (56.5) 96,600 (48.5)	(54.6) Ner retear **60 *62,500 (78) 62,500 (74) 50,650 (69) 41,800 (63.5) 88,000 (57.5) 29,750	#0101 Main Boom Length in Fee 70 *36,800 (76.5) 36,800 (76.5) 36,800 (68) 33,400 (63) 28,700	*36,800 (78) 36,800 (75) 36,800 (71) 29,000 (67) 25,000	90 *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200	*29,100 (78) 27,000 (76) 24,200 (72.5) 21,750	110 124,000 (75) 22,000 (77.5) 22,000 (75) 20,000
E: () Refere ft. boom len	(29.8) (29.8) (29.8) (29.8) (29.8) (29.8) (30.8) (3	(34.2) extended and out 100% 20' 0" 40 84,400 (68.5) 82,700 (65.00) (55.5) (55.00) (45.41,750	(44.2) er-mid & fly retrac o R 50 80,200 (75) 80,200 (74.5) 64,300 (55.5) 64,300 (46.5) 39,600 (46.5) 39,600 (40.0)	(54.6) Ner retear **60 *62,500 (78) 62,500 (74) 50,650 (63.5) 41,800 (67.5) (67.5) (57.5) (57.5) (51.5)	#0101 Main Boom Length in Fee 70 *36,800 (78) 36,800 (76.5) 36,800 (68) 33,400 (63) 28,700 (58) 23,600	*36,800 (78) 36,800 (75) 34,000 (71) (87) 29,000 (63) 22,000	90 *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200	*29,100 (78) 27,000 (76) 24,200 (72.5) (69.5) 19,000	110 110 124,000 (78) 24,000 (77.5) 22,000 (75) 20,000 (75) 20,000 (77.5) 21,000 (77.5) 22,000 (77.5) 22,000 (78.7) 24,000 (
E: () Refere ft. boom len ft. boom len ft. boom len ft. boom len ft.	(29.8) (29.8) (29.8) (29.8) (29.8) (29.8) (30.8) (3	(34.2) extended and out 100% 20' 0" 40 84,400 (68.5) 82,700 (65.00) (55.5) (55.00) (45.41,750	(44.2) er-mid & fly retract 50 80,200 (75.6) 80,200 (73.5) 80,200 (70) 64,300 (65.5) 52,000 (46.5) 39,600 (40.0)	***G0 ***C5.500 (7.2) 61.50 (85.5) (8	#0101 Main Boom Length in Fee 70 *36,800 (76.5) 36,800 (76.5) 36,800 (68) 33,400 (63) 28,700 (58) 23,600 (53) 19,700	**36,800 (78) 36,800 (75) 37,000 (71) 29,000 (63) (59) (59) (59)	90 *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) (89.5) 19,000 (66.5) 17,300	**24,000 (77.5) 22,000 (75) 18,500 (69) 17,300
E: () Refere ft. boom len ft. boom len ft. boom len ft. boom len ft.	(29.8) (29.8) (29.8) (29.8) (29.8) (29.8) (30.8) (3	(34.2) extended and out 100% 20' 0" 40 84,400 (68.5) 82,700 (65.00) (55.5) (55.00) (45.41,750	(44.2) er-mid & fly retrac o R 50 80,200 (75) 80,200 (74.5) 64,300 (55.5) 64,300 (46.5) 39,600 (46.5) 39,600 (40.0)	***G0 ***C5.500 (7.5) (51.5) (45) (25,500 (45) (27.5) (25,500 (45) (27.5) (25,500 (45) (25,500 (#0101 Main Boom Length in Fee 70 *36,800 (78) 36,800 (76.5) 36,800 (72) 36,800 (63) 32,400 (63) 28,700 (58) 23,600 (53) 19,700 (47.5)	**36.800 (78) 36.800 (75) 36.800 (71) 29.000 (61) 29.000 (58) 18.801 18.801 18.801 16.500	90 *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (63) 17,800 (59.5) 16,000	*29,100 (78) 27,000 (76) 24,200 (72.5) (69.5) 17,300 (63.0) (63.0)	110 124,000 (77.5) 22,000 (75) 22,000 (76) (76) (76) (78) (78) (79) (79) (79) (79) (79) (79) (79) (79
E: () Refere ft. boom len ft. boom len ft. boom len ft. boom len ft.	(29.8) (29.8) (29.8) (29.8) (29.8) (29.8) (30.8) (3	(34.2) extended and out 100% 20' 0" 40 84,400 (68.5) 82,700 (65.00) (55.5) (55.00) (45.41,750	(44.2) er-mid & fly retrac o R 50 80,200 (75) 80,200 (74.5) 64,300 (55.5) 64,300 (46.5) 39,600 (46.5) 39,600 (40.0)	***G0 ***C5.500 (7.2) 61.50 (85.5) (8	#0101 Main Boom Length in Fee 70 *36,800 (78) \$6,800 (76.5) \$6,800 (72) \$6,800 (68) \$3,400 (63) \$28,700 (45) \$1,800 (47.5) \$1,800 (41) \$1,500	*36.800 (78) 36.800 (77) 34.000 (71) 29.000 (63) 22.000 (59) 18.800 (54.5)	90 *31,000 (78) 31,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200 (63) 17,800 (59.5)	*29,100 (78) 27,000 (76) 24,200 (72.5) 21,750 (69.5) 19,000 (66.5) 17,300 (63)	110 110 124,000 (75) 24,000 (77.5) 22,000 (77.5) 22,000 (77.5) 22,000 (77.5) 22,000 (77.5) 22,000 (77.5) 24,000 (77.5) 24,000 (77.5) 24,000 (77.5) 24,000 (77.5) 24,000 (77.5) 24,000 (77.5) 24,000 (77.5) 24,000 (77.5) 26,000 (77.5) 27.00 (77.5) 28,000 (77.5) 29,000 (77.5) 20,000 (77.5)
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E: () Refere ft. boom len ft. boom len ft. boom len ft. boom len ft.	(29.8) (29.8) (29.8) (29.8) (29.8) (29.8) (30.8) (3	(34.2) extended and out 100% 20' 0" 40 84,400 (68.5) 82,700 (65.00) (55.5) (55.00) (45.41,750	(44.2) er-mid & fly retrac o R 50 80,200 (75) 80,200 (74.5) 64,300 (55.5) 64,300 (46.5) 39,600 (46.5) 39,600 (40.0)	***G0 ***C5.500 (7.5) (51.5) (45) (25,500 (45) (27.5) (25,500 (45) (27.5) (25,500 (45) (25,500 (#0101 Main Boom Length in Fee 70 *36,800 (78) \$6,800 (76.5) \$6,800 (72) \$6,800 (68) \$3,400 (63) \$28,700 (45) \$1,800 (47.5) \$1,800 (41) \$1,500	*36,800 (78) (78) (78) (78) (70) (70) (70) (71) (71) (71) (71) (70) (71) (71) (71) (71) (71) (71) (71) (71	90 *31,000 (78) 31,000 (78) 31,000 (73.5) (25,300 (70.5) (22,200 (63) 17,800 (59.5) 16,000 (55.5) 14,100 (47)	29,100 (78) 27,000 (78) 27,000 (70) 24,200 (72,5) 19,000 (66,5) 17,300 (60) 14,100 (56,5) 12,200 (52,5)	*24,000 (778) 24,000 (778) 22,000 (77.5) 22,000 (77.5) 15,000 (68.5) 16,000 (63.5) 14,100 (63.5) (57.5) 12,000 (57.5) 16,000 (57
E: () Refere ft. boom len ft. boom len ft. boom len ft. boom len ft.	(29.8) (29.8) (29.8) (29.8) (29.8) (29.8) (30.8) (3	(34.2) extended and out 100% 20' 0" 40 84,400 (68.5) 82,700 (65.00) (55.5) (55.00) (45.41,750	(44.2) er-mid & fly retrac o R 50 80,200 (75) 80,200 (74.5) 64,300 (55.5) 64,300 (46.5) 39,600 (46.5) 39,600 (40.0)	***G0 ***C5.500 (7.5) (51.5) (45) (25,500 (45) (27.5) (25,500 (45) (27.5) (25,500 (45) (25,500 (#0101 Main Boom Length in Fee 70 *38,800 (78) \$6,800 (76.5) \$6,800 (72) \$6,800 (68) \$3,400 (63) 28,700 (45) \$1,800 (47,5) 16,800 (41) 14,500 (33,5) 12,100	*36,800 (78) 36,800 (75) (75) 34,000 (50) (60) (60) (64,5) 16,500 (49,5) 12,800 (48,5) 12,800 (38,5) 10,950 (31,5)	90 (78) 31,000 (77) 30,000 (77) 30,000 (78,00) (79,00) (79,00) (20,200 (60) (60) (65) 14,100 (67) (61) 12,200 (47) 10,800 (42)	*29,100 (78) (78) (78) (24,200 (76) (24,200 (60) (60) (60) (60) (60) (56.5) (50) (50) (50) (50) (50) (50) (60) (48.5)	**24,000 (77) (78) (78) (79) (77) (78) (77) (78) (77) (78) (77) (78) (77) (78) (78
E: () Refere ft. boom len ft. boom len ft. boom len ft.	(29.8) (29.8) (29.8) (29.8) (29.8) (29.8) (30.8) (3	(34.2) extended and out 100% 20' 0" 40 84,400 (68.5) 82,700 (65.00) (55.5) (55.00) (45.41,750	(44.2) er-mid & fly retrac o R 50 80,200 (75) 80,200 (74.5) 64,300 (55.5) 64,300 (46.5) 39,600 (46.5) 39,600 (40.0)	***G0 ***C5.500 (7.5) (51.5) (45) (25,500 (45) (27.5) (25,500 (45) (27.5) (25,500 (45) (25,500 (#0101 Main Boom Length in Fee 70 *38,800 (78) \$6,800 (76.5) \$6,800 (72) \$6,800 (68) \$3,400 (63) 28,700 (45) \$1,800 (47,5) 16,800 (41) 14,500 (33,5) 12,100	*36,800 (78) 36,800 (78) 36,800 (75) 34,000 (77) 25,000 (63) 18,800 (75) 18,800 (71) 125,000 (63) 16,500 (38.5) 10	90 *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200 (68.6) 14,000 14,100 14,100 (47) 10,800 (42) 9,450	*29,100 (78) 27,000 (76) 24,200 (72.5) 21,750 (69.5) (69.5) (60.0) 14,100 (60.0) 14,100 (52.5) 19,000 (52.5) 10,600 (48.5) 9,000	1110 124,000 (78) 24,000 (77) 22,000 (78) 20,000 (72) 18,500 (86.5) 16,000 (86.5) 14,100 (12,000 (12,000 (12,000 (12,000 (13,000 (14,000 (15,
E: () Refere ft. boom len ft. boom len ft. boom len ft.	(29.8) (29.8) (29.8) (20.8) (2	(34.2) extended and out 100% 20' 0" 40 84,400 (68.5) 82,700 (65.00) (55.5) (55.00) (45.41,750	(44.2) er-mid & fly retrac o R 50 80,200 (75) 80,200 (74.5) 64,300 (55.5) 64,300 (46.5) 39,600 (46.5) 39,600 (40.0)	***G0 ***C5.500 (7.5) (51.5) (45) (25,500 (45) (27.5) (25,500 (45) (27.5) (25,500 (45) (25,500 (#0101 Main Boom Length in Fee 70 *38,800 (78) \$6,800 (76.5) \$6,800 (72) \$6,800 (68) \$3,400 (63) 28,700 (45) \$1,800 (47,5) 16,800 (41) 14,500 (33,5) 12,100	*36,800 (78) 36,800 (75) (75) 34,000 (50) (60) (60) (64,5) 16,500 (49,5) 12,800 (48,5) 12,800 (38,5) 10,950 (31,5)	90 *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200 (69.5) 16,000 14,000 15,000 16,	*29,100 (78) 27,000 (76) 24,200 (72.5) 21,750 (69.5) 19,000 (66.5) 17,300 14,100 14,100 16,50 10,500	1110 124,000 (77.8) 24,000 (77.5) 22,000 (75.5) 20,000 (75.6) 16,000 (85.0) 17,300 (90.0) 12,200 (90.0) (12,000 (90.0) (90.0) (90.0) (90.0) (90.0) (90.0) (90.0) (90.0) (90.0) (90.0) (90.0) (90.0) (90.0) (90.0) (90.0) (90.0) (90.0)
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E: () Refere ft. boom len ft. boom len ft.	(29.8) (29.8) (29.8) (20.8) (2	(34.2) extended and out 100% 20' 0" 40 84,400 (68.5) 82,700 (65.00) (55.5) (55.00) (45.41,750	(44.2) er-mid & fly retrac o R 50 80,200 (75) 80,200 (74.5) 64,300 (55.5) 64,300 (46.5) 39,600 (46.5) 39,600 (40.0)	***G0 ***C5.500 (7.5) (51.5) (45) (25,500 (45) (27.5) (25,500 (45) (27.5) (25,500 (45) (25,500 (#0101 Main Boom Length in Fee 70 *38,800 (78) \$6,800 (76.5) \$6,800 (72) \$6,800 (68) \$3,400 (63) 28,700 (45) \$1,800 (47,5) 16,800 (41) 14,500 (33,5) 12,100	*36,800 (78) 36,800 (78) 36,800 (75) 34,000 (77) 25,000 (63) 18,800 (75) 18,800 (71) 125,000 (63) 16,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (39.5) 2,200 (38.5) 10,500 (39.5) 2,2	90 *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (63) 17,800 (59.5) 16,000 (59.5) 14,100 (61) (62) (47) 10,000 (42) (42) (45) (46) (36.5) (8,290 (30) 7,140	*29,100 (78) 27,000 (76) 24,200 (72.5) 21,750 (69.5) 19,000 (66.5) 17,300 (60.5) 14,100 (66.5) 14,100 (48.5) 12,200 (48.5) 14,500 (44.5) 7,800 (40) 6,600 (34.5) 7,800 (40) 6,600 (34.5) 7,800 (40) 6,600 (34.5) 7,800 (40) 6,600 (34.5) 7,800 (40) 6,600 (34.5) 7,800 (40) 6,600 (34.5) 7,800 (40) 8,500 8,	"24,000 (78) (78) (78) (78) (78) (78) (78) (78)
E: () Refere ft. boom len ft. boom len ft.	(29.8) (29.8) (29.8) (20.8) (2	(34.2) extended and out 100% 20' 0" 40 84,400 (68.5) 82,700 (65.00) (55.5) (55.00) (45.41,750	(44.2) er-mid & fly retrac o R 50 80,200 (75) 80,200 (74.5) 64,300 (55.5) 64,300 (46.5) 39,600 (46.5) 39,600 (40.0)	***G0 ***C5.500 (7.5) (51.5) (45) (25,500 (45) (27.5) (25,500 (45) (27.5) (25,500 (45) (25,500 (#0101 Main Boom Length in Fee 70 *38,800 (78) \$6,800 (76.5) \$6,800 (72) \$6,800 (68) \$3,400 (63) 28,700 (45) \$1,800 (47,5) 16,800 (41) 14,500 (33,5) 12,100	*36,800 (78) 36,800 (78) 36,800 (75) 34,000 (77) 25,000 (63) 18,800 (75) 18,800 (71) 125,000 (63) 16,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (39.5) 2,200 (38.5) 10,500 (39.5) 2,2	90 *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (63) 17,800 (59.5) 16,000 (59.5) 14,100 (61) (62) (47) 10,000 (42) (42) (45) (46) (36.5) (8,290 (30) 7,140	*29,100 (78) 27,000 (78) 27,000 (72.5) 21,750 (69.5) 19,000 (66.5) 17,300 (60) 14,100 (56.5) 12,200 (52.5) 10,600 (48.5) 9,000 (48.5) 9,000 (48.5) 9,000 (48.5) 9,000 (48.5) 9,000 (48.5) 9,000 (58.5) 10,600 (69.5)	"24,000 (73) (74,000 (77) (78) (78) (78) (78) (78) (78) (78)
E: () Refere ft. boom len ft. boom len ft.	(29.8) (29.8) (29.8) (20.8) (2	(34.2) extended and out 100% 20' 0" 40 44,000 (72) 92,44,00 (83.5) 92,270 (83.5) 65,000 2(5) 41,750 (31.5)	(44.2) er-mid & fly retrac 8	(54.6) Ner relar **60 *\$2,500 (7.8) 62,500 (7.7) 61,000 (7.8) (83.5) (83.5) (83.5) (97.50 (51.5) (20,000 (37) 16,850 (26.5)	#0101 Main Boom Length in Fee 70 *38,800 (78) \$6,800 (76.5) \$6,800 (72) \$6,800 (68) \$3,400 (53) (28,700 (47.5) \$16,800 (47.5) \$16,800 (41) (43,500 (24)	*36,800 (78) 36,800 (78) 36,800 (75) 34,000 (77) 25,000 (63) 18,800 (75) 18,800 (71) 125,000 (63) 16,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (39.5) 2,200 (38.5) 10,500 (39.5) 2,2	90 *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (63) 17,800 (59.5) 16,000 (59.5) 14,100 (61) (62) (47) 10,000 (42) (42) (45) (46) (36.5) (8,290 (30) 7,140	*29,100 (78) 27,000 (78) 27,000 (72.5) 21,750 (69.5) 19,000 (66.5) 17,300 (60) 14,100 (56.5) 12,200 (52.5) 10,600 (48.5) 9,000 (48.5) 9,000 (48.5) 9,000 (48.5) 9,000 (48.5) 9,000 (48.5) 9,000 (58.5) 10,600 (69.5)	110 110 124,000 (78) 24,000 (78) 24,000 (79) 20,000 (79) 20,000 (79) 20,000 (70) 20,000 (70) 20,000 (70) 20,000 (70) 20,000 (70) 20,000 (70) 20,000 (70) 20,000 (70) 20,000 (70) 20,000 (70) 20,000 (83,5) 44,100 (83,5) 45,000 (83,5) 46,600
E: () Refere ft. boom len ft. line ft.	(29.8) (29.8) (29.8) (20.8) (2	(34.2) extended and out 100% 20' 0" 44.400 (68.5) 82,700 (63.5) 65,000 (55) 62,700 (45) (31.5)	(44.2) ar-mid & fly retrac R 50 80,200 (75.5) 80,200 (73.5) 80,200 (70) 64,300 (65.5) 39,600 (44.50) (42.60) (20) (20) (21)	(54.6) Neer relear **60 *62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) (61.00) (67.5) (61.00) (67.5) (61.00) (67.5) (61.00) (67.5) (61.00) (67.5) (61.00) (67.5) (61.00) (67.5) (61.00) (67.5) (61.00) (61.00) (67.5)	#0101 Main Boom Length in Fee 70 *36,800 (78) 38,800 (78) 58,800 (72) 58,800 (53) 33,400 (58) 23,600 (53) 19,700 (47.5) 16,800 (411) 14,500 (24)	*36,800 (78) 36,800 (78) 36,800 (75) 34,000 (77) 25,000 (63) 18,800 (75) 18,800 (71) 125,000 (63) 16,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (39.5) 2,200 (38.5) 10,500 (39.5) 2,2	90 *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (63) 17,800 (59.5) 16,000 (59.5) 14,100 (61) (62) (47) 10,000 (42) (42) (45) (46) (36.5) (8,290 (30) 7,140	*29,100 (78) 27,000 (78) 27,000 (72.5) 21,750 (69.5) 19,000 (66.5) 17,300 (60) 14,100 (56.5) 12,200 (52.5) 10,600 (48.5) 9,000 (48.5) 9,000 (48.5) 9,000 (48.5) 9,000 (48.5) 9,000 (48.5) 9,000 (58.5) 10,600 (69.5)	"24,000 (77.5) (20,000 (83.5) (83.5) (8.6.5) (
E: () Refere ft. boom len ft. boom len ft.	(29.8) (29.8) (29.8) (20.8) (30.000)	(34.2) extended and out 100% 20' 0" 44.400 84.400 82.700 85.50 85.50 85.50 (45.51 82.700 (45.51) 82.700 (45.700 (45.700 (45.700 (45.700 (45.700 (45.700 (45.700 (45.700 (45	(44.2) er-mid & fly retrac R 50 80,200 (73.5) 80,200 (73.5) 80,200 (65.5) 80,200 (65.5) 90,200 (65.5) 90,200 (65.5) 90,200 (65.5) 90,200 (40) (20) (20) (20) (20) (20) (20) (20) (2	(54.6) Ner relar **60 *\$2,500 (7.8) 62,500 (7.7) 61,000 (7.8) (83.5) (83.5) (83.5) (97.50 (51.5) (20,000 (37) 16,850 (26.5)	#0101 Main Boom Length in Fee 70 *36,800 (78) 38,800 (78) 58,800 (72) 58,800 (53) 33,400 (58) 23,600 (53) 19,700 (47.5) 16,800 (411) 14,500 (24)	*36,800 (78) 36,800 (78) 36,800 (75) 34,000 (77) 25,000 (63) 18,800 (75) 18,800 (71) 125,000 (63) 16,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (39.5) 2,200 (38.5) 10,500 (39.5) 2,2	90 *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (63) 17,800 (59.5) 16,000 (59.5) 14,100 (61) (62) (47) 10,000 (42) (42) (45) (46) (36.5) (8,290 (30) 7,140	*29,100 (78) 27,000 (78) 27,000 (72.5) 21,750 (69.5) 19,000 (66.5) 17,300 (60) 14,100 (56.5) 12,200 (52.5) 10,600 (48.5) 9,000 (48.5) 9,000 (48.5) 9,000 (48.5) 9,000 (48.5) 9,000 (48.5) 9,000 (58.5) 10,600 (69.5)	**24,000 (78) 24,000 (77) 22,000 (78) 22,000 (78) 16,500 (53,5) 16,500 (
E: () Refere ft. boom len ft. boom len ft.	(29.8) (29.8) (29.8) (20.8) (2	(34.2) extended and out 100%, 20' 0" 40 44,400 (72) (72) 65,000 52,700 (65,00) (73) 61,100 (74) 65,000 (75) 65,000	(44.2) ar-mid & fly retrac R 50 80,200 (75.5) 80,200 (73.5) 80,200 (73.5) 80,200 (70) 64,300 (65.5) 39,600 (44.50) 20,050 (22) 20,050 (28)	**60 **62.500 (78) 62.500 (77) 61,000 (83.5) 88,000 (87.5) 22,000 (87.5) (81.50) 20,000 (26.5) (26.5) (26.5) r indicated length egree boom angle	#0101 Main Boom Length in Fee 70 *36,800 (78) 36,800 (76,5) 56,800 (56,5) (56,5) (56,800 (5,3) (58) 23,600 (58) 23,600 (47.5) 16,800 (41) 14,500 (24) (no load)	*36,800 (78) 36,800 (78) 36,800 (75) 34,000 (77) 25,000 (63) 18,800 (75) 18,800 (71) 125,000 (63) 16,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (39.5) 2,200 (38.5) 10,500 (39.5) 2,2	90 *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (63) 17,800 (59.5) 16,000 (59.5) 14,100 (61) (62) (47) 10,000 (42) (42) (45) (46) (36.5) (8,290 (30) 7,140	*29,100 (78) 27,000 (78) 27,000 (72.5) 21,750 (69.5) 19,000 (66.5) 17,300 (60) 14,100 (56.5) 12,200 (52.5) 10,600 (48.5) 9,000 (48.5) 9,000 (48.5) 9,000 (48.5) 9,000 (48.5) 9,000 (48.5) 9,000 (58.5) 10,600 (69.5)	"24,000 (77.5) (20,000 (83.5) (83.5) (8.6.5) (
E: () Refere ft. boom len ft.	(29.8) (29.8) (a) (b) (c) (c) (c) (c) (d) (d) (d) (d) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	(34.2) extended and out 100% 20'0" 40 44,000 (72) 94,400 (88.0) 82,705 (55) 65,000 (31.5) 41,750 (31.5) Minimum boo Maximum boom Maximum boom Maximum boom angle.	(44.2) er-mid & fly retract So R 50 80,200 (75) 80,200 (75.5) 80,200 (75.5) 80,200 (75.5) 90,200 (95.5) 90,500 (48.5) 39,600 (48.5) 32,400 (28) m angle (deg.) for length (ft.) at 0 di langth (f	***G0 ***C5.500 (7.28) 62.500 (7.28) 62.500 (7.29) 61.000 (7.24) 63.50 (85.5) 29.750 (51.5) 20.000 (37) 16.850 (26.5)	#0101 Main Boom Length in Fee 70 "38,800 (78) 38,800 (76,5) 36,800 (72) 36,800 (63) 28,700 (58) 23,600 (53) 19,700 (33,5) 12,100 (24) (no load) (no load) the Boom Angle com Length in Feet	*36,800 (78) 36,800 (78) 36,800 (75) 34,000 (77) 25,000 (65) 18,800 (77) 12,5000 (65) 18,800 (71) 12,5	90 *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200 (65.0) 14,000 14,100 14,	729,100 (78) 27,000 (76) 24,200 (72.5) 21,750 (69.5) 19,000 (65.5) 12,200 (52.5) 10,600 (44.5) 9,000 (44.5) 9,000 (44.5) 9,000 (44.5) 9,000 (44.5) 9,000 (45.5)	110 110 110 110 110 110 110 110 110 110
E: () Refere ft. boom len ft. boom len ft. boom len ft.	(29.8) (29.8) (29.8) (20.8) (2	(34.2) extended and out 100%, 20' 0" 40 44,400 (72) (72) 65,000 52,700 (65,00) (73) 61,100 (74) 65,000 (75) 65,000	(44.2) ar-mid & fly retrac R 50 80,200 (75.5) 80,200 (73.5) 80,200 (73.5) 80,200 (70) 64,300 (65.5) 39,600 (44.50) 20,050 (22) 20,050 (28)	(54.6) Potential (54.6) *62,500 (78) 62,500 (79) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (57.5) (25,500 (45) 20,000 (37) 16,650 (26.5) r indicated length egree boom angle	#0101 Main Boom Length in Fee 70 *36,800 (78) 36,800 (76.5) 36,800 (76.5) 36,800 (88) 33,400 (88) 33,400 (88) 33,400 (88) 33,400 (88) 33,400 (88) 33,400 (88) 33,400 (88) 33,400 (88) 33,400 (88) 33,400 (88) 33,400 (88) 33,400 (88) 33,400 (88) 33,400 (88) 33,400 (88) 33,400 (88) 33,400 (88) 33,400 (88) 33,400 (88) 33,500 (87,5) 12,100 (24) ((no load) ((no load)	*36,800 (78) 36,800 (78) 36,800 (75) 34,000 (77) 25,000 (63) 18,800 (75) 18,800 (71) 125,000 (63) 16,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (38.5) 10,500 (39.5) 2,200 (38.5) 10,500 (39.5) 2,2	90 *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (63) 17,800 (59.5) 16,000 (59.5) 14,100 (61) (62) (47) 10,000 (42) (42) (45) (46) (36.5) (8,290 (30) 7,140	*29,100 (78) 27,000 (78) 27,000 (72.5) 21,750 (69.5) 19,000 (66.5) 17,300 (60) 14,100 (56.5) 12,200 (52.5) 10,600 (48.5) 9,000 (48.5) 9,000 (48.5) 9,000 (48.5) 9,000 (48.5) 9,000 (48.5) 9,000 (58.5) 10,600 (69.5)	"24,000 (77.5) (20,000 (85.5) (8.5) (9.5)

36 - 110 ft









36 - 110 ft.	33	- 56 ft.	11,000 lbs	S.	100% 20' 0"	360
			Po	unds		
		33 ft. LENGTI	Н		56 ft. LENGT	1
\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)	
Min boors		No L	oad Stability	Data		
Min. boom 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.

11

- 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.

12

36 - 110 ft.	5,500 lbs.	100% 20' 0"	360)					
					#0201				
Feet	35	40	50	**60	Nain Boom Length in	n Feet 80	90	100	110
10	118,500	84,400	80,200	*62,500	70	80	90	100	110
	(69) 100,000	(72) 84,400	(76) 80,200	(78) 62,500	*36,800				
12	(65.5)	(68.5)	(73.5)	(77)	(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		(01.0)	20,700	20,300	21,000	21,750	22,200 (67)	21,750 (69.5)	20,000
40			(40) 15,600	(51.5) 15,350	(58) 16,050	(63) 16,750	17,500	17,900	(72) 18,300
45			(28)	(45) 11,750	(53) 12,500	(59) 13,200	(63) 13,950	(66.5) 14,300	(69) 14,700
				(37) 9,040	(47.5) 9,850	(54.5) 10,550	(59.5) 11,250	(63) 11,650	(66.5) 12,000
50				(26.5)	(41) 7,720	(49.5) 8,500	(55.5) 9,210	(60) 9,570	(63.5) 9,940
55					(33.5)	(44.5)	(51)	(56.5)	(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						(22.5)	4,030	4,420	4,770
80							(30) 3,190	(40) 3,570	(46.5) 3,940
							(21.5)	(34.5) 2.830	(42.5) 3.200
85								(28.5)	(38)
90								2,180 (20.5)	2,550 (33)
95									1,980 (27.5)
100									1,470 (19.5)
			om angle (deg.) for i		,				0
#LMI operating of	angles are in degrees ode. Refer to LMI ma based on maximum	s. anual for instructio	n length (ft.) at 0 deg ns.	ree boom angle	(no load)				110
2 2222337 10			Li		at Zero Degree Bo	oom Angle			
Boom	05		50	Main Bo	om Length in Feet			400	

			L	itting Capacities	at Zero Degree Bo	om Angle			
Boom				Main Bo	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: () Refere	nce radii in feet.							A6-	829-101322

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

110 ft.	5,500 lbs.	100% 20' 0"		Over Rear					
7 C					#0201				
Feet					Main Boom Length i				
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	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	,,,,,,	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
45			(==)	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				(===)	12,250 (33.5)	13,050 (44.5)	13,800 (51)	14,100 (56.5)	14,100
60					10,050	10,900 (38.5)	11,650 (47)	12,000 (52.5)	12,200
65					(21)	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
75						(22.0)	7,100 (30)	7,480 (40)	7,800 (46.5)
80							5,990 (21.5)	6,370 (34.5)	6,600 (42.5)
85							(£1.0)	5,410 (28.5)	5,770 (38)
90								4,570 (20.5)	4,920 (33)
95								(20.5)	4,180 (27.5)
100									3.520
		Minimum bo	om angle (deg.) f	or indicated length (no load)				(19.5) 0
		Maximum hoon	n length (ft.) at 0	degree boom angle	(no load)				110

NOTE: () Boom angles are in degrees.

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

*This canacity is based on maximum boom angle.

Tilla Capacity ia	based on maximum	ii booiii aligie.							
			Lifting Capacitie	es at Zero Degree	Boom Angle				
Boom				Main Boo	om Length in Feet				
Angle	35	40	50 _	**60	70	80	90	100	110
0°	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	ence 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.



13











36 - 110 ft.	33	- 56 ft.	5,500 lbs	•	100% 20' 0"	360
			Po	unds		
		33 ft. LENGTI	Н		56 ft. LENGT	Н
Feet	#0221 0º	#0222 25°	#0223 45°	#0241 0°	#0242 25°	#0243 45°
1 001	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	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)
14: 1		No L	oad Stability	Data		
Min. boom angle for indicated length	37°	37º	45°	45°	460	480
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.

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

					#0801				
				1	Main Boom Length	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	55,750	55,300	50,650	36,800	36,800	31,000	*29,100	*24,000
	(49) 34.350	(55) 34.300	(63.5) 33.850	(69) 33,400	(72) 34.100	(75) 34,000	(77)	(78) 27.000	(78) 24.000
25	(36)	(45)	(56.5)	(63.5)	(68)	(71)	(73.5)	_ (76)	(77.5)
30		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								1,480 (28.5)	1,850 (38)
90									1,290 (33)
	Mi	nimum boom angle	(deg.) for indicated	l length (no load)				14	26
	Maxir ngles are in degre	num boom length (ft.) at 0 degree boo	m angle (no load)					90

			Lifting Capaciti	es at Zero Degree	Boom Angle			
Boom				Main Bo	om Length in Feet			
Angle	35	40	50	**60	70	80	90	
0	23,700	17,650	9,550	4,810	2,960	1,840	1,210	
0	(29.8)	(34.2)	(44.2)	(54.6)	(64.2)	(74.2)	(84.2)	
VOTE: () Refere	nce radii in feet							A6-820-101324

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

■N IX		<u> </u>		⊋					
6 - 110 ft.	0 lbs.	100% 20' 0'		lear					
					#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	, ,	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			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			` '	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 (24)	8,860 (38.5)	9,620 (47)	9,980 (52.5)	10,300 (57)
65					(= .)	7,240 (31.5)	8,030 (42)	8,370 (48.5)	8,720 (53.5)
70						5,890 (22.5)	6,680 (36.5)	7,040 (44.5)	7,380 (50)
75						(22.0)	5,520 (30)	5,910 (40)	6,240 (46.5)
80							4,540 (21.5)	4,910 (34.5)	5,270 (42.5)
85							(21.0)	4,050 (28.5)	4,410 (38)
90								3,300 (20.5)	3,650 (33)
95								(====)	2,980 (27.5)
100									2,380 (19.5)
		Minimum bo	om angle (deg.) for	r indicated length (r	io load)				0
MI opérating o	angles are in degre ode. Refer to LMI n based on maximun	ees. manual for instruction		egree boom angle (no load)				110
по сараску 18	Dadou UII IIIAXIIIIUII	ii booiii arigie.	Lifting Capacitie	s at Zero Degree B	oom Angle				
Boom			,	Main Bo	om Length in Feet				
Angle	35	40 24.450	50 15.250	**60	70 6.660	80	90 3.820	100	110

0° 29.050 24.450 15.250 (29.8) (34.2) NOTE: () Reference radii in feet.

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

15

1	_	— ₁
	ı	Mill
36	_	110 ft.









36 - 110 ft.	33	- 56 ft.	0 lbs.		100% 20' 0"	360.
			Po	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 L	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.	2 020 404240

NOTE: () Boom angles are in degrees.

A6-829-101340

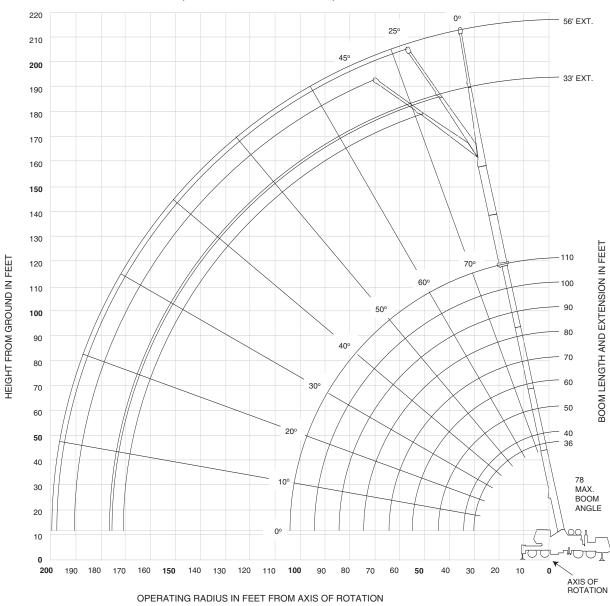
#LMI operating code. Refer to LMI manual for instructions.

- 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.

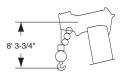
^{*}This capacity is based upon maximum boom angle.

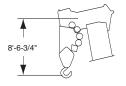
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TMS700E





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

36 - 110 ff











			Po	unds		
		33 ft. LENGTI	Н		56 ft. LENGT	Н
\bigcirc	#0064	#0065	#0066	#0084	#0085	#0086
Feet	0° OFFSET	25° OFFSET	45° OFFSET	0º 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. boom		No Lo	oad Stability [Data		
angle at 110' boom length	22°	29°	45°	38°	40°	45°
Max. boom 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 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.

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

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











360°

A6-829-101494

18

			Ро	unds		
		33 ft. LENGTI	1		56 ft. LENGT	Н
Ö	#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)				
		, ,	ad Stability	Data		
Min. boom angle at 110' boom length	400	40°	47°	56°	58°	60°
Max. boom length at 0° boom angle		70 ft.			40 ft.	

NOTE: () Boom angles are in degrees.

- 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 LIZES
- 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.

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

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

load handling

Weight Reductions for Load H	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	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.

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 actual weight.	

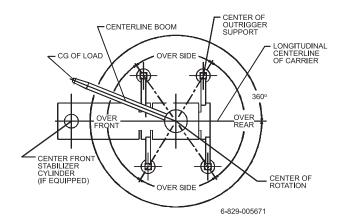
NOTE: All load handling devices and boom attachments are considered part of the load and suitable allowances MUST BE MADE for their combined weights. Weights are for Grove furnished equipment.

L	Line Pulls and Reeving Information								
Hoists	Cable Specs.	Permissible Line Pulls	Nominal Cable Length						
	3/4" (19 mm) 6x37 Class,	40.000.11	500 ft						
Main	EIPS, IWRC Special Flexible Min. Breaking Strength 58,800 lb.	16,800 lb.	500 ft.						
	3/4" (19 mm) Flex-X 35								
Main & Aux.	Rotation Resistant (Non-rotating)	16,800 lb.	500 ft.						
	Min. Breaking Strength 85,800 lb.								

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

	Hoist Performance										
Wire Rope	Two Spe	ine Pulls eed Hoist	Drum I Capacit								
Layer	Low Available lb.*	High 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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