# 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

• 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

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**Main Boom and Swingaway Charts** 

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

Swingaway Charts w/two 20' inserts

**Load Handling** 

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**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



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

## 4

#### 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.

### Gutrigger Controls

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

## Engine

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

### Fuel Tank Capacity

100 gallons (379 L).

## Transmission

Roadranger 11 speeds forward, 3 reverse.

## Drive

Drive 8 x 4 x 4.

## T Steering

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

## → Axles

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

## O Brakes

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

## Suspension

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

## ☐ Tires

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

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

#### 

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

## **Lights**

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

## Cab

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

### Electrical System

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

### ▼ Maximum Speed

65 MPH (104 kph)

## G

### 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.

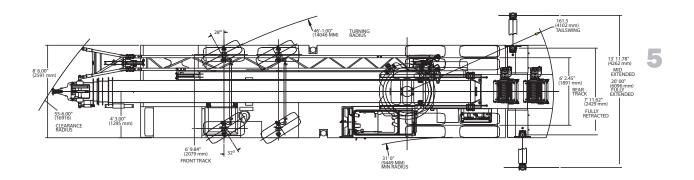
### \*Optional Equipment

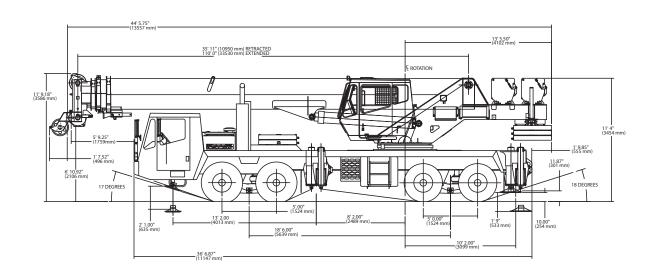
- \*Flashing Light Package includes amber strobe for both cabs
  \*Trailing Boom Package includes trailer air and electrical
  disconnects and trailing boom kit with no spin differential (less
  dolly)
- \*Hookblocks
- \*Air conditioning
- \*Rear pintle hook
- \*Aluminum outrigger pads
- \*Cross axle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

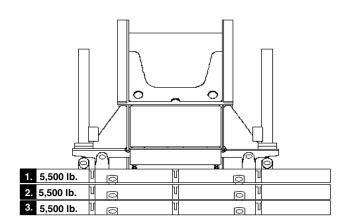
\*Denotes optional equipment



## 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)	•	•	•

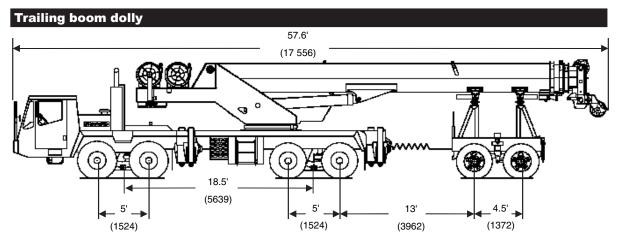
### Load Chart Configuration — 360°

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

Outrigger Span 20 ft. = \*\*
Rubber P&C =

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

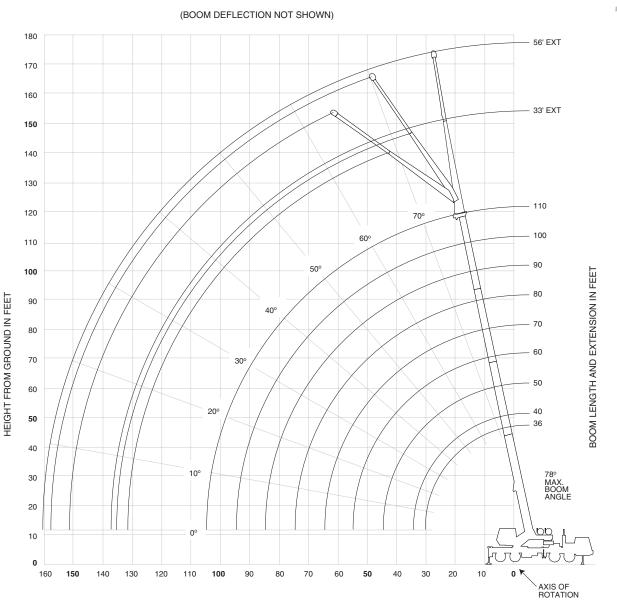
•	(1 52 1)							
Unit Configuration lb. (kg)	Gro	oss	Fr	ont	R	ear		
Basic machine including 110 ft. (33.5 m) main boom, main and auxiliary hoists with cable, driver and no counterweight.	74,712	(33 889)	37,097	(16 827)	37,615	(17 062)		
Additions:								
5,500 lb. (2 495 kg.) counterweight pinned on 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	(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)		



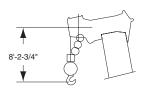
Unit Configuration lb. (kg.)	Gr	oss	Fre	ont	R	ear	Dol	lly
Basic machine including 110 ft. (33.5 m) main boom, main and auxiliary hoists with cable, driver, no counterweight and 6,000 lb. (2 722 kg.) tandem axle dolly.	80,737	(36 622)	33,479	(15 186)	29,275	(13 279)	17,983	(8 157)
Additions: 5,500 lb. (2 495 kg.) counterweight stowed on carrier deck.	5.500	(2 495)	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)

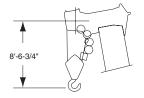
## working range

### 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	60					
<b>3</b> C					#0001				
Feet					Main Boom Length i				
reet	35 120.000	40	50 80.200	**60 *62.500	70	80	90	100	110
10	(69)	84,400 (72)	(76)	(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	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	(55)	39,350 (31.5)	38,700 (48.5)	37,850 (57.5)	33,400 (63)	29,000	25,300 (70.5)	24,200 (72.5)	22,000 (75)
35		(51.5)	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
45			(28)	(45) 17,550	(53) 18,250	(59) 18,800	(63) 17,800	(66.5) 17,300	(69) 17,300
50				(37) 14,050	(47.5) 14,850	(54.5) 15,600	(59.5) 16,000	(63) 16,000	(66.5) 16,000
55				(26.5)	(41) 12,200	(49.5) 12,950	(55.5) 13,650	(60) 14,100	(63.5) 14,100
60					(33.5) 10,050	(44.5) 10,850	(51) 11,600	(56.5) 12,000	(60) 12,200
					(24)	(38.5) 9.110	(47) 9.900	(52.5) 10.250	(57) 10.600
65						(31.5) 7.650	(42) 8.450	(48.5) 8.820	(53.5) 9.000
70						(22.5)	(36.5)	(44.5)	(50)
75							7,210 (30)	7,580 (40)	7,800 (46.5)
80							6,150 (21.5)	6,490 (34.5)	6,600 (42.5)
85								5,550 (28.5)	5,800 (38)
90								4,730 (20.5)	5,000 (33)
95									4,270 (27.5)
100									3,600 (19.5)
				r indicated length (i					0
LMI operating co	angles are in degree ode. Refer to LMI ma based on maximum	s. anual for instruction		egree boom angle	(no load)				110
i ina capacity is i	based on maximum	boom angle.	Lifting Capacit	ies at Zero Degree	Boom Angle				
Boom				Main Bo	om Length in Feet				
Angle	35	40	50	**60	70	80	90	100	110
00	29,050 (29.8)	24,450 (34.2)	17,050 (44.2)	11,600 (54.6)	8,570 (64.2)	6,610 (74.2)	5,380 (84.2)	4,120 (94.2)	3,110 (104.2)
TE: ( ) Referer	nce radii in feet.			_				A6-	-829-101318

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

6 - 110 ft.	16,500 lbs.	100%		/er					
		20' 0"	Re	ear	#0001				
$\Theta$					Main 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	(50)	44,100	39,600	38,000	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			32,400 (40)	29,750 (51.5)	28,700 (58)	25,000 (63)	22,200 (67)	21,750 (69.5)	20,000 (72)
40			26,050 (28)	25,500 (45)	23,600 (53)	22,000 (59)	20,200 (63)	19,000 (66.5)	18,500 (69)
45				20,000 (37)	19,700 (47.5)	18,800 (54.5)	17,800 (59.5)	17,300 (63)	17,300 (66.5)
50				17,850 (26.5)	16,800 (41)	16,500 (49.5)	16,000 (55.5)	16,000 (60)	16,000 (63.5)
55			•		14,900 (33.5)	14,650 (44.5)	14,100 (51)	14,100 (56.5)	14,100 (60)
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 (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 boo	m angle (deg.) for	indicated length (r	io load)				0
		Maximum boom	length (ft.) at 0 de	gree boom angle (	no load)				110
Il operating co	angles are in degrees ode. Refer to LMI ma based on maximum I	nual for instruction	ns.						
- Japaony 13 L		ungio.	Lifting Capacitie	s at Zero Degree	Boom Angle				

Main Boom Length in Feet

NOTE: ( ) Reference radii in feet.

Boom Angle

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

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36 - 110 π.	33	- 56 π.	16,500 IDS	5.	20' 0"	300
			Po	unds		
		33 ft. LENGT	Н		56 ft. LENGT	Н
$\bigcirc$	#0021 0°	#0022	#0023	#0041	#0042	#0043
Feet	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	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 hoom		No L	oad Stability D	Data		
Min. boom angle for indicated length	210	25°	45°	28°	28°	45°
Max. boom length at 0° boom angle		100 ft.			90 ft.	

NOTE: () Boom angles are in degrees.

A6-829-101337

\*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% 20' 0" 360...

10

Jēl					#0101	_			
Feet	35	40	50	**60	Main Boom Length in 70	Feet 80	90	100	110
10	120,000	84,400	80,200	*62,500					
12	(69) 100,000	(72) 84,400	(76) 80,200	(78) 62,500	*36,800				
	(65.5) 87,300	(68.5) 82,700	(73.5) 80,200	(77) 61,000	(78) 36,800	*36,800	*31,000		
15	(59.5)	(63.5) 65.000	(70) 64.300	(74) 50.650	(76.5) 36.800	(78)	(78)	400 400	+0.4.000
20	68,250 (49)	(55)	(63.5)	(69)	(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	(***)	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		(31.3)	25,250	24,350	25,000	25,000	22,200	21,750	20,000
			(40) 19,500	(51.5) 18,700	(58) 19,350	(63) 20,050	(67) 20,200	(69.5) 19,000	(72) 18,500
40			(28)	(45)	(53)	(59)	(63)	(66.5)	(69)
45				14,650 (37)	15,350 (47.5)	16,050 (54.5)	16,750 (59.5)	17,300 (63)	17,300 (66.5)
50				11,550 (26.5)	12,350 (41)	13,050 (49.5)	13,750 (55.5)	14,300 (60)	14,850 (63.5)
55				(	9,960	10.700	11,450 (51)	11,900	12,400
00					(33.5) 8,040	(44.5) 8,850	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)	(42)	(48.5)	(53.5)
70						5,970 (22.5)	6,760 (36.5)	7,140 (44.5)	7,480 (50)
75							5,660 (30)	6,020 (40)	6,350 (46.5)
80							4,710	5,050	5,370
85							(21.5)	(34.5) 4,200	(42.5) 4,510
								(28.5) 3,460	(38) 3,750
90								(20.5)	(33)
95									3,080 (27.5)
100									2,480 (19.5)
				or indicated length (					0
HOTE () D			m length (ft.) at 0	degree boom angle	(no load)				110
#LMI operating co	ingles are in degree ode. Refer to LMI ma based on maximum	s. anual for instruction	ons.						
"I his capacity is I	based on maximum	boom angle.		ities at Zero Degre	e Boom Angle				
Boom				Main B	oom Length in Feet				
Angle	35	40 24,450	50	**60	70 6.710	80 E 030	90	100	110 2,030
				5,340	0,710		4,020	2,920 (94.2)	(104.2)
00	29,050 (29.8)	(34.2)	16,000 (44.2)	9,340 (54.6)	6,710 (64.2)	5,030 (74.2)	4,020 (84.2)		
NOTE: ( ) Referer	(29.8) nce radii in feet.	(34.2)			(64.2)	(74.2)	(84.2)		829-101320
NOTE: ( ) Referer	(29.8)	(34.2)			(64.2)	(74.2)	(84.2)		829-101320
NOTE: ( ) Referer	(29.8) nce radii in feet.	(34.2)			(64.2)	(74.2)	(84.2)		829-101320
NOTE: ( ) Referer	(29.8) nce radii in feet.	(34.2)	ter-mid & fly retra	icted.	(64.2)	(74.2)	(84.2)		829-101320
NOTE: ( ) Referer	(29.8) nce radii in feet.	extended and ou	ter-mid & fly retra	octed.	(64.2)	(74.2)	(84.2)		829-101320
NOTE: ( ) Referer **60 ft. boom leng 36 - 110 ft.	(29.8) nce radii in feet. gth is with inner-mid	extended and ou	ter-mid & fly retra	cted.		(74.2)	(84.2)		829-101320
NOTE: ( ) Referer	(29.8) nce radii in feet. gth is with inner-mid	extended and ou	ter-mid & fly retra	Over Rear	#0101		(84.2)		829-101320
NOTE: ( ) Referer **60 ft. boom leng 36 - 110 ft.	(29.8) noce radii in feet. gth is with inner-mid 11,000 lbs.	(34.2) extended and out 100% 20' 0"	ter-mid & fly retra	Over Rear			90		110
NOTE: ( ) Referer **60 ft. boom leng 36 - 110 ft.	(29.8) nce radii in feet. gth is with inner-mid 11,000 lbs.	(34.2) extended and ou  100% 20' 0"	ter-mid & fly retra	Over Rear **60 *62,500	<b>#0101</b> Main Boom Length in	Feet		A6-	
NOTE: ( ) Referer **60 ft. boom leng 36 - 110 ft. Feet	(29.8) hcc radii in feet. this with inner-mid 11,000 lbs. 35 120,000 (69) 100,000	(34.2) extended and ou 100% 20' 0" 40 84,400 (72) 84,400	ter-mid & fly retra	**60 **62,500 (78) 62,500	#0101 Main Boom Length in 70 *36,800	Feet		A6-	
NOTE: () Referer **60 ft. boom leng 36 - 110 ft. Feet 10	(29.8) hoce radii in feet. gth is with inner-mid 11,000 lbs. 11,000 lbs. 35 120,000 (69) 100,000 (65.5) 87,300	(34.2) extended and out 100% 20'0" 40 84,400 (72) 84,400 (88.5) 82,700	50 80,200 (73.5) 80,200	Over Rear **60 **62,500 (73) 62,500 (77) 61,000	#0101 Main Boom Length in 70 *36,800 (78) 36,800	Feet 80	90	A6-	
NOTE: () Reference with the second se	(29.8) hoce radii in feet. this with inner-mid 11,000 lbs.  35 120,000 (69) 100,000 (55.5) 87,300 (59.5)	(34.2) extended and out 100% 20' 0" 40 84,400 (72) 84,400 (68.5) 82,700 (63.5)	50 80,200 (75) 80,200 (73.5) 80,200 (773.5)	Cted.  Over Rear  *60  *62,500 (77) 61,000 (74)	#0101 Main Boom Length in 70 *36,800 (78) 36,800 (76.5)	Feet 80 80 (78)	90 *31,000 (78)	100	110
NOTE: () Referer **60 ft. boom leng 36 - 110 ft. Feet 10	(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)	50 80,200 (76) 80,200 (73.5) 80,200 (70) 64,300 (63.5)	**60 (77) 61,000 (74) 50,650 (69)	#0101 Main Boom Length in 70 *36,800 (76) 36,800 (76.5) 36,800 (72)	Feet 80 *36,800 (78) 36,800 (75)	90 *31,000 (78) 31,000 (77)	100	110 *24,000 (78)
NOTE: () Reference with the second se	(29.8) hoce radii in feet. this with inner-mid 11,000 lbs.  35 120,000 (69) 100,000 (65.5) 87,300 (59.5) 68,250	(34.2) extended and ou  100% 20' 0"  40 84,400 (72) 84,400 (68.5) 82,700 (63.5) 65,000 (55) 52,700 (45)	50 80,200 (76) 80,200 (73.5) 80,200 (73.5) 80,200 (70) 64,300 (63.5) 52,000 (56.5)	**60 **62,500 (77) 61,000 (74) 50,650	#0101 Main Boom Length in 70 '36,800 (76,5) '36,800 (72) '36,800 (72) '36,800 (88)	*36,800 (78) 36,800	90 *31,000 (78) 31,000	100  *29,100 (78) 27,000 (76)	110
NOTE: () Reference **60 ft. boom leng **36 - 110 ft. **  10	29.8) noe radii in feet. gth is with inner-mid 11,000 lbs.  35 120,000 (65) 100,000 (65,5) 87,300 (99,5) 68,250 (49) 52,900	(34.2) extended and out 100% 20'0"  40 84,400 (88.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 80,200 (76) 80,200 (73.5) 80,200 (70) 64,300 (63.5) 52,000	**60 **62,500 (77) 61,000 (63,5) 41,800 (63.5) 38,000	#0101 Main Boom Length in 70  *36,800 (78) 36,800 (76.5) 36,800 (72) 36,800 (68) 33,400	*36,800 (78) 36,800 (75) 34,000 (71) 29,000	90 *31,000 (78) 31,000 (73.5) 25,300	100 *29,100 (78) 27,000 (76) 24,200	*24,000 (78) 24,000 (77.5) 22,000
NOTE: () Referer **60 ft. boom leng  **36 - 110 ft.  Feet  10  12  15  20  25	29.8) noe radii in feet. gth is with inner-mid 11,000 lbs.  35 120,000 (65) 100,000 (65,5) 87,300 (99,5) 68,250 (49) 52,900	(34.2) extended and ou  100% 20' 0"  40 84,400 (72) 84,400 (68.5) 82,700 (63.5) 65,000 (55) 52,700 (45)	50 80,200 (73,5) 80,200 (73,5) 80,200 (73,5) 80,200 (73,5) 83,50 (53,5) (53,5) (53,5) (53,5) (53,5) (54,30) (44,5) (32,40)	Cted.  Over Rear  **60 *62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (57.5) 29,750	#0101 Main Boom Length in 70  *36,800 (76.5) 36,800 (76.5) 36,800 (72) 36,800 (68) 33,400 (63) 28,700	*36,800 (78) 36,800 (75) 34,000 (71) 29,000 (67) 25,000	90 *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200	100 *29,100 (78) 27,000 (76) 24,200 (72.5) 21,750	*24,000 (78) 24,000 (77.5) 22,000 (75) 20,000
NOTE: () Referer* **G0 ft. boom leng ***S0 ft. boom leng **S0 ft. boom	29.8) noe radii in feet. gth is with inner-mid 11,000 lbs.  35 120,000 (65) 100,000 (65,5) 87,300 (99,5) 68,250 (49) 52,900	(34.2) extended and out 100% 20'0"  40 84,400 (88.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 80,200 (75) 80,200 (70) 80,200 (63.5) 52,000 (66.5) 39,600 (48.5)	**G0 **G2,500 (75) 61,000 (63.5) 38,000 (57.5)	#0101 Main Boom Length in 70 36,800 (76,5) 36,800 (72) 36,800 (88) 33,400 (63)	Feet 80  *36,800 (78) 36,800 (75) 34,000 (71) 29,000 (67)	90 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5)	*29,100 (78) 27,000 (76) 24,200 (72.5)	110  *24,000 (78) 24,000 (77.5) 22,000 (75)
NOTE: () Reference	29.8) noe radii in feet. gth is with inner-mid 11,000 lbs.  35 120,000 (65) 100,000 (65,5) 87,300 (99,5) 68,250 (49) 52,900	(34.2) extended and out 100% 20'0"  40 84,400 (88.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 80,200 (73,5) 80,200 (73,5) (63,30) (63,30) (56,5) 52,000 (64,5) 52,000 (48,5) 53,600 (48,5) 52,200 (48,5)	**60 **62,500 (78) 50,650 (83.5) 38,000 (67.5) 29,750 (415) 25,500 (45)	#0101 Main Boom Length in 70  *36,800  (70)  36,800  (70.5)  36,800  (72)  36,800  (88)  33,400  (83)  28,700  (88)  23,600  (58)	Feet 80  *36,800 (78) 36,900 (75) 34,000 (71) 29,000 (67) 25,000 (63) 22,000 (59)	90 *31,000 (78) 31,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200 (63)	100 (78) 27,000 (78) 24,200 (72.5) 21,750 (69.5) 19,000 (66.5)	110  *24,000 (78) 24,000 (77.5) 22,000 (75) 20,000 (72) 18,500 (69)
NOTE: () Referer* **G0 ft. boom leng*  **S0 ft. boo	29.8) noe radii in feet. gth is with inner-mid 11,000 lbs.  35 120,000 (65) 100,000 (65,5) 87,300 (99,5) 68,250 (49) 52,900	(34.2) extended and out 100% 20'0"  40 84,400 (88.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 80,200 (70) 80,200 (70) 80,200 (70) 63,05) (63,05) (53,05) (53,05) (44,05) (48,05) (48,05) (49,05)	**60 **62,500 (75) 61,000 (83.5) 38,000 (87.5) (91.5) 22,750 (45) 20,000 (37)	#0101 Main Boom Length in 70   136,800   160,90	Feet 80  *36,800 (78) 36,800 (75) 34,000 (701) 29,000 (67) 25,000 (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)	729,100 (78) 27,000 (72.5) 21,750 (69.5) 19,000 (66.5) 17,300 (63)	110  *24,000 (78) 24,000 (77.5) 22,000 (75) 20,000 (72) 18,500 (69) 17,300 (66.5)
NOTE: () Reference	29.8) noe radii in feet. gth is with inner-mid 11,000 lbs.  35 120,000 (65) 100,000 (65,5) 87,300 (99,5) 68,250 (49) 52,900	(34.2) extended and out 100% 20'0"  40 84,400 (88.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 80,200 (70) 80,200 (70) 80,200 (70) 63,05) (63,05) (53,05) (53,05) (44,05) (48,05) (48,05) (49,05)	**60 **62,500 **(7.7) **6,000 **(6.2,500 **(7.7) **6,000 **(6.3,5)	#0101 Main Boom Length in 70  *36,800 (76.5) 36,800 (76.5) 36,800 (72) 36,800 (63) 28,700 (58) 23,600 (53) 19,700	*36,800 (78) 36,800 (75) 34,000 (71) 29,000 (63) 22,000 (59) 18,800	90  *31,000 (78) 31,000 (77) 30,000 (73.5) (70.5) 25,300 (70.5) 20,200 (63) 17,800	*29,100 (78) 27,000 (76) 24,200 (72.5) (89.5) 19,000 (66.5) 17,300	110  *24,000 (78) 24,000 (77.5) 22,000 (72) 18,500 (69) 17,300
NOTE: () Reference	29.8) noe radii in feet. gth is with inner-mid 11,000 lbs.  35 120,000 (65) 100,000 (65,5) 87,300 (99,5) 68,250 (49) 52,900	(34.2) extended and out 100% 20'0"  40 84,400 (88.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 80,200 (70) 80,200 (70) 80,200 (70) 63,05) (63,05) (53,05) (53,05) (44,05) (48,05) (48,05) (49,05)	Cted.  Over Rear  **60 *62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (67.5) (51.5) 22,750 (51.5) 25,500 (45) 20,000 (37) 16,650	#0101 Main Boom Length in 70  136,800 (76,5) 36,800 (76,5) 36,800 (75,5) 36,800 (88) 33,400 (85) 28,700 (47,5) 16,800 (41) 14,500	Feet 80  *36,800 (78) 36,800 (75) 34,000 (71) 29,000 (67) 25,000 (68) 18,800 (49,5) 16,500 (49,5)	90  *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (60) 17,800 (55.5) 16,000 (55.5)	*29,100 (78) 27,000 (76) 24,200 (72.5) (69.5) (69.5) (66.5) (7,300 (66.5) (63) (60) (60)	*24,000 (78) 24,000 (75) 2,000 (75) 20,000 (72) 17,300 (66.5) (6.5) (6.35)
NOTE: () Reference with the control of the control	29.8) noe radii in feet. gth is with inner-mid 11,000 lbs.  35 120,000 (65) 100,000 (65,5) 87,300 (99,5) 68,250 (49) 52,900	(34.2) extended and out 100% 20'0"  40 84,400 (88.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 80,200 (70) 80,200 (70) 80,200 (70) 63,05) (63,05) (53,05) (53,05) (44,05) (48,05) (48,05) (49,05)	Cted.  Over Rear  **60 *62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (67.5) (51.5) 22,750 (51.5) 25,500 (45) 20,000 (37) 16,650	#0101 Main Boom Length in 70  136,800 (76,5) 36,800 (76,5) 36,800 (75,5) 36,800 (88) 33,400 (85) 28,700 (47,5) (47,5) (41,5) (41,5) (33,5) 12,100	Feet 80 *36,800 (78) 36,800 (75) 34,000 (67) 25,000 (67) (20) 18,800 (49.5) 16,500 (49.5) 12,800	90  *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (60) 17,800 (55.5) 16,000 (55.5) (51) (51)	729,100 (78) 27,000 (76) 24,200 (72.5) 21,750 (66.5) (66.5) (60.5) (60.00 (60) 14,100 (56.5) (60.00 (56.5)	110  *24,000 (78) 24,000 (77,5) 2,000 (77,5) 20,000 (72) 18,500 (66.5) 17,300 (66.5) 16,000 (63.5) (60) (60) 12,200
NOTE: () Reference with the control of the control	29.8) noe radii in feet. gth is with inner-mid 11,000 lbs.  35 120,000 (65) 100,000 (65,5) 87,300 (99,5) 68,250 (49) 52,900	(34.2) extended and out 100% 20'0"  40 84,400 (88.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 80,200 (70) 80,200 (70) 80,200 (70) 63,05) (63,05) (53,05) (53,05) (44,05) (48,05) (48,05) (49,05)	Cted.  Over Rear  **60 *62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (67.5) (51.5) 22,750 (51.5) 25,500 (45) 20,000 (37) 16,650	#0101 Main Boom Length in 70  *36,800 (78,5) 36,800 (78,5) 36,800 (88) 33,400 (88) 33,400 (85) 28,700 (85) 28,700 (47,5) 16,800 (41,1) 14,500 (33,5)	Feet 80  *36,800 (78) 36,800 (77) 36,800 (71) 29,000 (67) 25,000 (58) 18,800 (54,5) 16,500 (49,5) 14,650 12,800 (38,5) 10,950	90  *31,000 (78) 31,000 (77) 30,000 (73,50) (70,50) (70,50) (80) (80) (80) (59,5) (60,00) (59,5) (41,100 (47)	*29,100 (78) 27,000 (78) 27,000 (72) 27,000 (72) 27,000 (80) (80) 11,300 (80) 14,100 (56) 12,200 (52)	110  *24,000 (78) 24,000 (77.5) 22,000 (75) 20,000 (72) 18,500 (65) 17,300 (66.50) (63.5) 14,100 (60) 12,200 (2,200
NOTE: () Reference with the control of the control	29.8) nce radii in feet. gth is with inner-mid 11,000 lbs.  35 120,000 (65) 100,000 (65,5) 87,300 (99,5) 68,250 (49) 52,900	(34.2) extended and out 100% 20'0"  40 84,400 (88.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 80,200 (70) 80,200 (70) 80,200 (70) 63,05) (63,05) (53,05) (53,05) (44,05) (48,05) (48,05) (49,05)	Cted.  Over Rear  **60 *62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (67.5) (51.5) 22,750 (51.5) 25,500 (45) 20,000 (37) 16,650	#0101 Main Boom Length in 70  136,800 (76,5) 36,800 (76,5) 36,800 (75,5) 36,800 (88) 33,400 (85) 28,700 (47,5) (47,5) (41,5) (41,5) (33,5) 12,100	Feet 80  *36,800 (78) 36,800 (77) 34,000 (77) 25,000 (80) 22,000 (54.5) 16,500 (44.5) 12,800 (38.5) 10,950 (31.5)	90  *31,000 (78) 31,000 (77) 30,000 (73,5) 25,000 (70,5) 22,200 (70,5) 20,200 (55) 17,800 (59,5) 16,000 (55,5) 14,100 (47) 12,200 (47) 10,800 (42)	*29,100 (78) 27,000 (76) 24,200 (72.5) 21,730 (65) 16,000 (56.5) 11,7300 (56.5) 16,000 (56.5) 12,200 (52.5) 10,600 (48.5)	110  *24,000 (78) 24,000 (77.5) 22,000 (75) 20,000 (72) 18,500 (66.80) 17,300 (66.80) 14,100 (67.7) 10,600 (57.7) 10,600 (53.5)
NOTE: () Reference with the control of the control	29.8) nce radii in feet. gth is with inner-mid 11,000 lbs.  35 120,000 (65) 100,000 (65,5) 87,300 (99,5) 68,250 (49) 52,900	(34.2) extended and out 100% 20'0"  40 84,400 (88.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 80,200 (70) 80,200 (70) 80,200 (70) 63,05) (63,05) (53,05) (53,05) (44,05) (48,05) (48,05) (49,05)	Cted.  Over Rear  **60 *62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (67.5) (51.5) 22,750 (51.5) 25,500 (45) 20,000 (37) 16,650	#0101 Main Boom Length in 70  136,800 (76,5) 36,800 (76,5) 36,800 (75,5) 36,800 (88) 33,400 (85) 28,700 (47,5) (47,5) (41,5) (41,5) (33,5) 12,100	Feet 80  *36,800 (78) 36,800 (77) 36,800 (71) 29,000 (67) 25,000 (58) 18,800 (54,5) 16,500 (49,5) 14,650 12,800 (38,5) 10,950	90  *31,000 (78) 31,000 (77) 30,000 (73,5) 25,300 (70,5) 22,200 (63) 17,800 (68) 18,000 (66) 14,100 (67) 12,200 (61) 12,200 (47) 10,800 (42) 9,450 (36,5)	729,100 (78) (77) (78) (77) (78) (77) (76) (77) (77) (77) (77) (77) (77	*24,000 (78) 24,000 (77.5) 22,000 (77.5) 20,000 (72) 18,500 (69) 17,300 (65.5) 16,000 (63.5) 14,100 (60.00) (63.5) (60.00) (63.5) (60.00) (60.
NOTE: () Reference with the control of the control	29.8) nce radii in feet. gth is with inner-mid 11,000 lbs.  35 120,000 (65) 100,000 (65,5) 87,300 (99,5) 68,250 (49) 52,900	(34.2) extended and out 100% 20'0"  40 84,400 (88.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 80,200 (70) 80,200 (70) 80,200 (70) 63,05) (63,05) (53,05) (53,05) (44,05) (48,05) (48,05) (49,05)	Cted.  Over Rear  **60 *62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (67.5) (51.5) 22,750 (51.5) 25,500 (45) 20,000 (37) 16,650	#0101 Main Boom Length in 70  136,800 (76,5) 36,800 (76,5) 36,800 (75,5) 36,800 (88) 33,400 (85) 28,700 (47,5) (47,5) (41,5) (41,5) (33,5) 12,100	Feet 80  *36,800 (78) 36,800 (75) 34,000 (71) 29,000 (67) 25,000 (53) 22,000 (54,5) 16,500 (44,5) 16,500 (44,5) 14,500 (38,5) (31,5) 9,290	90  *31,000 (78) 31,000 (77) 30,000 (73,5) 25,300 (70,5) 22,200 (63) 17,800 (68) 18,000 (66) 14,100 (67) 12,200 (61) 12,200 (47) 10,800 (42) 9,450 (36,5)	729,100 (78) (77) (78) (77) (78) (77) (76) (77) (77) (77) (77) (77) (77	*24,000 (78) 24,000 (77.5) 22,000 (77.5) 20,000 (72) 18,500 (69) 17,300 (65.5) 16,000 (63.5) 14,100 (60.00) (63.5) (60.00) (63.5) (60.00) (60.
NOTE: () Reference with the control of the control	29.8) nce radii in feet. gth is with inner-mid 11,000 lbs.  35 120,000 (65) 100,000 (65,5) 87,300 (99,5) 68,250 (49) 52,900	(34.2) extended and out 100% 20'0"  40 84,400 (88.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 80,200 (70) 80,200 (70) 80,200 (70) 63,05) (63,05) (53,05) (53,05) (44,05) (48,05) (48,05) (49,05)	Cted.  Over Rear  **60 *62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (67.5) (51.5) 22,750 (51.5) 25,500 (45) 20,000 (37) 16,650	#0101 Main Boom Length in 70  136,800 (76,5) 36,800 (76,5) 36,800 (75,5) 36,800 (88) 33,400 (85) 28,700 (47,5) (47,5) (41,5) (41,5) (33,5) 12,100	Feet 80  *36,800 (78) 36,800 (75) 34,000 (71) 29,000 (67) 25,000 (53) 22,000 (54,5) 16,500 (44,5) 16,500 (44,5) 14,500 (38,5) (31,5) 9,290	90  *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200 (63) 17,800 (55.5) 16,000 (55.5) 14,100 (40) 18,800 (42) 9,450 (42) 9,450 (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) 14,10	110  *24,000 (78) 24,000 (77.5) 22,000 (77.5) 20,000 (77.5) 20,000 (78) 16,500 16,500 16,000 12,200 (53.5) 14,100 (63.5) 16,000 (53.5) 17,800 (50.5) 7,800 (46.5) 6,600
NOTE: () Reference with the control of the control	29.8) nce radii in feet. gth is with inner-mid 11,000 lbs.  35 120,000 (65) 100,000 (65,5) 87,300 (99,5) 68,250 (49) 52,900	(34.2) extended and out 100% 20'0"  40 84,400 (88.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 80,200 (70) 80,200 (70) 80,200 (70) 63,05) (63,05) (53,05) (53,05) (44,05) (48,05) (48,05) (49,05)	Cted.  Over Rear  **60 *62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (67.5) (51.5) 22,750 (51.5) 25,500 (45) 20,000 (37) 16,650	#0101 Main Boom Length in 70  136,800 (76,5) 36,800 (76,5) 36,800 (75,5) 36,800 (88) 33,400 (85) 28,700 (47,5) (47,5) (41,5) (41,5) (33,5) 12,100	Feet 80  *36,800 (78) 36,800 (75) 34,000 (71) 29,000 (67) 25,000 (53) 22,000 (54,5) 16,500 (44,5) 16,500 (44,5) 14,500 (38,5) (31,5) 9,290	90  *31,000 (78) 31,000 (77) 30,000 (73,50) (70,50) (70,50) (80) (80) (80) (59,5) (60) (51) 12,200 (47) 10,800 (42) 9,450 (36,5) 8,290 (30)	*29,100 (78) 27,000 (76) 24,200 (72.5) 21,730 (65) 16,000 (66.5) 17,300 (56.5) 16,000 (56.5) 11,200 (56.5) 10,000 (48.5) 9,000 (48.5) 9,000 (44.5) 7,800 (40)	*24,000 (78) 24,000 (77.5) 22,000 (77.5) 20,000 (72) 18,500 (65.3) 16,000 (63.5) 14,(00) 12,200 (53.5) 9,000 (53.5) 9,000 (50) 7,800 (46.5)
NOTE: () Reference with the control of the control	29.8) nce radii in feet. gth is with inner-mid 11,000 lbs.  35 120,000 (65) 100,000 (65,5) 87,300 (99,5) 68,250 (49) 52,900	(34.2) extended and out 100% 20'0"  40 84,400 (88.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 80,200 (70) 80,200 (70) 80,200 (70) 63,05) (63,05) (53,05) (53,05) (44,05) (48,05) (48,05) (49,05)	Cted.  Over Rear  **60 *62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (67.5) (51.5) 22,750 (51.5) 25,500 (45) 20,000 (37) 16,650	#0101 Main Boom Length in 70  136,800 (76,5) 36,800 (76,5) 36,800 (75,5) 36,800 (88) 33,400 (85) 28,700 (47,5) (47,5) (41,5) (41,5) (33,5) 12,100	Feet 80  *36,800 (78) 36,800 (75) 34,000 (71) 29,000 (67) 25,000 (53) 22,000 (54,5) 16,500 (44,5) 16,500 (44,5) 14,500 (38,5) (31,5) 9,290	90  *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200 (63) 17,800 (55.5) 16,000 (55.5) 14,100 (40) 18,800 (42) 9,450 (42) 9,450 (36.5) 8,290 (30) 7,140	729,100 (78) 27,000 (78) 24,200 (76) 24,200 (66.5) 17,300 (66.5) 17,300 (68.5) 12,200 (44.5) 7,800 (44.5) 7,800 (44.5) 7,800 (44.5) 7,800 (44.5) 7,800 (44.5) 7,800 (28.5)	110  *24,000 (78) 24,000 (77.5) 22,000 (75) 20,000 (72) 18,500 (66.5) 16,000 (63.5) 14,100 (66.5) 16,000 (67.0) (67.0) (67.0) (67.0) (67.0) (68.5) 10,000 (6
NOTE: () Reference with the control of the control	29.8) nce radii in feet. gth is with inner-mid 11,000 lbs.  35 120,000 (65) 100,000 (65,5) 87,300 (99,5) 68,250 (49) 52,900	(34.2) extended and out 100% 20'0"  40 84,400 (88.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 80,200 (70) 80,200 (70) 80,200 (70) 63,05) (63,05) (53,05) (53,05) (44,05) (48,05) (48,05) (49,05)	Cted.  Over Rear  **60 *62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (67.5) (51.5) 22,750 (51.5) 25,500 (45) 20,000 (37) 16,650	#0101 Main Boom Length in 70  136,800 (76,5) 36,800 (76,5) 36,800 (75,5) 36,800 (88) 33,400 (85) 28,700 (47,5) (47,5) (41,5) (41,5) (33,5) 12,100	Feet 80  *36,800 (78) 36,800 (75) 34,000 (71) 29,000 (67) 25,000 (53) 22,000 (54,5) 16,500 (44,5) 16,500 (44,5) 14,500 (38,5) (31,5) 9,290	90  *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200 (63) 17,800 (55.5) 16,000 (55.5) 14,100 (40) 18,800 (42) 9,450 (42) 9,450 (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) 14,505 (60.5) 14,505 (62.5) 10,600 (44.5) 10,000 (44.5) 10,000 (44.5) 10,000 (44.5) 10,000 (43.5) 10,000 (44.5) 10,000 (43.5) 10,000 (44.5) 10,000 (43.5) 10,00	110  *24,000 (78) 24,000 (77.5) 22,000 (75) 20,000 (72) 18,500 (66.5) 16,000 (65.5) 14,100 (60) 12,200 (67) 10,660 (65.5) 5,000 (46.5) 6,600 (42.5) 5,800 (42.5) 5,800 (338) 5,000
NOTE: () Reference with the control of the control	29.8) nce radii in feet. gth is with inner-mid 11,000 lbs.  35 120,000 (65) 100,000 (65,5) 87,300 (99,5) 68,250 (49) 52,900	(34.2) extended and out 100% 20'0"  40 84,400 (88.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 80,200 (70) 80,200 (70) 80,200 (70) 63,05) (63,05) (53,05) (53,05) (44,05) (48,05) (48,05) (49,05)	Cted.  Over Rear  **60 *62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (67.5) (51.5) 22,750 (51.5) 25,500 (45) 20,000 (37) 16,650	#0101 Main Boom Length in 70  136,800 (76,5) 36,800 (76,5) 36,800 (75,5) 36,800 (88) 33,400 (85) 28,700 (47,5) (47,5) (41,5) (41,5) (33,5) 12,100	Feet 80  *36,800 (78) 36,800 (75) 34,000 (71) 29,000 (67) 25,000 (53) 22,000 (54,5) 16,500 (44,5) 16,500 (44,5) 14,500 (38,5) (31,5) 9,290	90  *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200 (63) 17,800 (55.5) 16,000 (55.5) 14,100 (40) 18,800 (42) 9,450 (42) 9,450 (36.5) 8,290 (30) 7,140	729,100 (78) 27,000 (78) 24,200 (76) 24,200 (66.5) 17,300 (66.5) 17,300 (68.5) 12,200 (44.5) 7,800 (44.5) 7,800 (44.5) 7,800 (44.5) 7,800 (44.5) 7,800 (44.5) 7,800 (28.5)	110  *24,000 (78) 24,000 (77.5) 22,000 (77.5) 20,000 (77.5) 20,000 (78) 11,000 (66.5) 14,000 (63.5) 14,000 (63.5) 16,000 (64.5) (60) (7800 (7800 (7800)
NOTE: () Reference with the control of the control	29.8) nce radii in feet. gth is with inner-mid 11,000 lbs.  35 120,000 (65) 100,000 (65,5) 87,300 (99,5) 68,250 (49) 52,900	(34.2) extended and out 100% 20'0"  40 84,400 (88.5) 82,700 (63.5) 65,000 (55) 52,700 (45) 41,750	50 80,200 (70) 80,200 (70) 80,200 (70) 63,05) (63,05) (53,05) (53,05) (44,05) (48,05) (48,05) (49,05)	Cted.  Over Rear  **60 *62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (67.5) (51.5) 22,750 (51.5) 25,500 (45) 20,000 (37) 16,650	#0101 Main Boom Length in 70  136,800 (76,5) 36,800 (76,5) 36,800 (75,5) 36,800 (88) 33,400 (85) 28,700 (47,5) (47,5) (41,5) (41,5) (33,5) 12,100	Feet 80  *36,800 (78) 36,800 (75) 34,000 (71) 29,000 (67) 25,000 (53) 22,000 (54,5) 16,500 (44,5) 16,500 (44,5) 14,500 (38,5) (31,5) 9,290	90  *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200 (63) 17,800 (55.5) 16,000 (55.5) 14,100 (40) 18,800 (42) 9,450 (42) 9,450 (36.5) 8,290 (30) 7,140	729,100 (78) 27,000 (78) 24,200 (76) 24,200 (66.5) 17,300 (66.5) 17,300 (68.5) 12,200 (44.5) 7,800 (44.5) 7,800 (44.5) 7,800 (44.5) 7,800 (44.5) 7,800 (44.5) 7,800 (28.5)	110  *24,000 (78) 24,000 (77.5) 22,000 (77.5) 20,000 (72) 18,500 (68.5) (66.5) (66.5) (66.5) (60.00 (53.5) 14,100 (53.5) 14,100 (53.5) 9,000 (53.5) 9,000 (53.6) (46.5) 6,600 (46.5) 6,600 (46.5) 6,600 (47.5) 8,800 (48.5) 6,500 (53.3)
NOTE: () Reference with the control of the control	29.8) nce radii in feet. gth is with inner-mid 11,000 lbs.  35 120,000 (65) 100,000 (65,5) 87,300 (99,5) 68,250 (49) 52,900	(34.2) extended and ou 100% 20' 0' 20	50 80,200 (70) 64,300 (63.5) 52,000 (48.5) 39,600 (48.5)	Cted.  Over Rear  **60 *62,500 (78) 62,500 (77) 61,000 (74) 50,650 (69) 41,800 (63.5) 38,000 (67.5) (51.5) 22,750 (51.5) 25,500 (45) 20,000 (37) 16,650	#0101 Main Boom Length in 70  *36,800 (76,5) 36,800 (75,5) 36,800 (75,5) 36,800 (88) 33,400 (85) 28,700 (88) 23,600 (85) 10,000 (41) 14,500 (41) 14,500 (24)	Feet 80  *36,800 (78) 36,800 (75) 34,000 (71) 29,000 (67) 25,000 (53) 22,000 (54,5) 16,500 (44,5) 16,500 (44,5) 14,500 (38,5) (31,5) 9,290	90  *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200 (63) 17,800 (55.5) 16,000 (55.5) 14,100 (40) 18,800 (42) 9,450 (42) 9,450 (36.5) 8,290 (30) 7,140	729,100 (78) 27,000 (78) 24,200 (76) 24,200 (66.5) 17,300 (66.5) 17,300 (68.5) 12,200 (44.5) 7,800 (44.5) 7,800 (44.5) 7,800 (44.5) 7,800 (49.0) 6,600 (34.5) 5,800 (28.5)	110  *24,000 (78) 24,000 (77.5) 22,000 (75) 20,000 (72) 18,500 (66.5) 16,000 (65.5) 14,100 (60) 12,200 (57.1) 10,600 (53.6) (60) 7,800 (60.5) 6,600 (42.5) 6,600 (42.5) 5,800 (33) 5,000 (33)
NOTE: () Reference with the control of the control	(29.8) noe radii in feet. gth is with inner-mid 11,000 lbs.  35 120,000 (69) 100,000 (65.5) 87,300 (59.5) 69,250 (49) 52,900 (36)	(34.2) extended and ou 1009% 20'0' 40 40 44(2) 64.5) 65.50 (55.5) (55.5) (57.5) (31.5)  Minimum boo	ter-mid & fly retra  50 80,200 (7,5) (7,5) 80,200 (7,5) 80,200 (83,5) 52,000 (83,5) 53,600 (40,5) 32,400 (40,5) 32,400 (26,55) (28)	Coted.  Cover Rear  **60  *62,800  62,800  63,800  69,350  38,000  (57,5)  29,750  (61,50)  (20,000  (26,5)  (26,5)	#0101 Main Boom Length in 70  *36,800 (70) 36,800 (70) 36,800 (72) 36,800 (83) 28,700 (83) 19,700 (47,5) 16,800 (41) 14,500 (33,5) 12,100 (24)	Feet 80  *36,800 (78) 36,800 (75) 34,000 (71) 29,000 (67) 25,000 (53) 22,000 (54,5) 16,500 (44,5) 16,500 (44,5) 14,500 (38,5) (31,5) 9,290	90  *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200 (63) 17,800 (55.5) 16,000 (55.5) 14,100 (40) 18,800 (42) 9,450 (42) 9,450 (36.5) 8,290 (30) 7,140	729,100 (78) 27,000 (78) 24,200 (76) 24,200 (66.5) 17,300 (66.5) 17,300 (68.5) 12,200 (44.5) 7,800 (44.5) 7,800 (44.5) 7,800 (44.5) 7,800 (49.0) 6,600 (34.5) 5,800 (28.5)	110  *24,000 (78) 24,000 (77.5) 22,000 (75) 20,000 (72) 18,500 (66.5) 16,000 (63.5) 14,100 (60) 12,200 (57.7) 10,600 (53.6) (60) 7,800 (60.5) 6,600 (42.5) 6,600 (42.5) 5,800 (33) 4,440 (27.5) 3,880 (19.5)
NOTE: () Reference with the control of the control	(29.8) noe radii in feet. gth is with inner-mid 11,000 lbs.  35 120,0000 (65) 100,0000 (65.5) 87,3000 (59.5) 68,250 (49) 52,9000 (36)	(34.2) extended and ou 100% 40 84.400 (72) 84.400 (86.5) 65.00 (65.5) (55) (55) (31.5)  Minimum boor Maximum boor	ter-mid & fly retra  50 80,200 (73,5) (80,300 (63,5) 52,000 (63,5) 52,000 (40,5) 53,600 (40,5) 52,200 (26,55) 53,600 (27,5) 53,600 (48,5) 53,600 (48,5) 53,600 (48,5) 53,600 (48,5) 53,600 (48,5) 64,500 (28,5) 64,500 (28,5)	**60 **62,500 (75) 61,000 (83,5) 38,000 (87,5) 29,750 (45) 20,000 (37) 18,850 (26,5)	#0101 Main Boom Length in 70  *36,800 (70) 36,800 (70) 36,800 (72) 36,800 (83) 28,700 (83) 19,700 (47,5) 16,800 (41) 14,500 (33,5) 12,100 (24)	Feet 80  *36,800 (78) 36,800 (75) 34,000 (71) 29,000 (67) 25,000 (53) 22,000 (54,5) 16,500 (44,5) 16,500 (44,5) 14,500 (38,5) (31,5) 9,290	90  *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200 (63) 17,800 (55.5) 16,000 (55.5) 14,100 (40) 18,800 (42) 9,450 (42) 9,450 (36.5) 8,290 (30) 7,140	729,100 (78) 27,000 (78) 24,200 (76) 24,200 (66.5) 17,300 (66.5) 17,300 (68.5) 12,200 (44.5) 7,800 (44.5) 7,800 (44.5) 7,800 (44.5) 7,800 (49.0) 6,600 (34.5) 5,800 (28.5)	110  *24,000 (78) 24,000 (77-5) 22,000 (77-5) 20,000 (77-5) 20,000 (77-6) 16,000 (68.5) 16,000 (63.5) 14,100 (60.5) 15,800 (53.5) 16,600 (42.5) 5,800 (38) 5,000 (38) 5,000 (33) 4,4440 (27-5) 3,880 (19.5)
NOTE: () Reference with the control of the control	(29.8) noe radii in feet. gth is with inner-mid 11,000 lbs.  35 120,000 (69) 100,000 (65.5) 87,300 (59.5) 69,250 (49) 52,900 (36)	(34.2) extended and ou 100% 20' 0' 40 84.400 (85.5) 82.700 (85.5) 65.505 (5.700 (45) 41.750 (31.5) Minimum boo Maximum boor s.	ter-mid & fly retra  50 80,200 (7,5) (7,5) (80,200 (7,5) (90,200 (7,5) (90,200 (80,5) (90,5)	**60 **62,500 (75) 61,000 (87,5) 29,750 (45) 22,500 (25.5) corridated length (degree boom angle	#0101 Main Boom Length in 70  *36,800 (70) 36,800 (70) 36,800 (72) 36,800 (83) 28,700 (83) 19,700 (47,5) 16,800 (41) 14,500 (33,5) 12,100 (24)	Feet 80  *36,800 (78) 36,800 (75) 34,000 (71) 29,000 (67) 25,000 (53) 22,000 (54,5) 16,500 (44,5) 16,500 (44,5) 14,500 (38,5) (31,5) 9,290	90  *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200 (63) 17,800 (55.5) 16,000 (55.5) 14,100 (40) 18,800 (42) 9,450 (42) 9,450 (36.5) 8,290 (30) 7,140	729,100 (78) 27,000 (78) 24,200 (76) 24,200 (66.5) 17,300 (66.5) 17,300 (68.5) 12,200 (44.5) 7,800 (44.5) 7,800 (44.5) 7,800 (44.5) 7,800 (49.0) 6,600 (34.5) 5,800 (28.5)	110  *24,000 (78) 24,000 (77-5) 22,000 (77-5) 20,000 (77-5) 20,000 (77-6) 16,000 (68.5) 16,000 (63.5) 14,100 (60.5) 15,800 (53.5) 16,600 (42.5) 5,800 (38) 5,000 (38) 5,000 (33) 4,4440 (27-5) 3,880 (19.5)
NOTE: () Reference with the control of the control	(29.8) (29.8) (a) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	(34.2) extended and ou 100% 20' 0' 40 84.400 (85.5) 82.700 (85.5) 65.505 (5.700 (45) 41.750 (31.5) Minimum boo Maximum boor s.	ter-mid & fly retra  50 80,200 (7,5) (7,5) (80,200 (7,5) (90,200 (7,5) (90,200 (80,5) (90,5)	Coted.  Over Rear  **60  *62,500 (78) 62,500 (77) 61,000 (74) 50,650 (83.5) 20,750 (26.5) 20,000 (26.5)  18,650 (26.5)  or indicated length (degree boom angle	#0101 Main Boom Length in 70  *36.800 (78) 36.800 (78.5) 36.800 (77.5) 36.800 (88) 28.700 (89) 23.600 (47.5) 16.800 (47.5) 16.800 (41) 13.50) 12.100 (24)  no load) (no load)	Feet 80  *36,800 (78) 36,800 (75) 34,000 (71) 29,000 (67) 25,000 (53) 22,000 (54,5) 16,500 (44,5) 16,500 (44,5) 14,500 (38,5) (31,5) 9,290	90  *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200 (63) 17,800 (55.5) 16,000 (55.5) 14,100 (40) 18,800 (42) 9,450 (42) 9,450 (36.5) 8,290 (30) 7,140	729,100 (78) 27,000 (78) 24,200 (76) 24,200 (66.5) 17,300 (66.5) 17,300 (68.5) 12,200 (44.5) 7,800 (44.5) 7,800 (44.5) 7,800 (44.5) 7,800 (49.0) 6,600 (34.5) 5,800 (28.5)	110  *24,000 (78) 24,000 (77-5) 22,000 (77-5) 20,000 (77-5) 20,000 (77-6) 16,000 (68.5) 16,000 (63.5) 14,100 (60.5) 15,800 (53.5) 16,600 (42.5) 5,800 (38) 5,000 (38) 5,000 (33) 4,4440 (27-5) 3,880 (19.5)
NOTE: () Reference with the control of the control	(29.8) noe radii in feet. gth is with inner-mid  11,000 lbs.  35 120,000 (65) 100,000 (65,5) 87,300 (59,5) 68,250 (49) 52,900 (36)	extended and ou 100 % 10	ter-mid & fly retraction of the first of the	**60 **62,500 (78) 62,500 (77) 61,000 (83,5) 83,000 (87,5) 25,500 (26,5)	#0101  Main Boom Length in 70 (78) 36,800 (78) 36,800 (78,5) 36,800 (88) 33,400 (85) 23,600 (85) 19,700 (47,5) 16,800 (41) 14,500 (24)   Included in the second of the sec	Feet 80  *36,800 (78) 36,800 (78) 36,800 (77) 29,000 (80) 22,000 (84,5) 16,500 (44,5) 12,800 (38,5) 10,950 (31,5) 9,290 (22,5)	90  *31,000 (78) 31,000 (78) 31,000 (70) 90,000 (73.5) 25,300 (70.5) 22,200 (63) 17,800 (59.5) 16,000 (55.5) 14,100 (61) 12,200 (47) 10,800 (42) 9,450 (35.5) 8,290 (30) 7,140 (21.5)	29,100 (78) 27,000 (78) 27,000 (78) 27,000 (78) 24,200 (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 (20.5) 5,000 (20.5)	110  *24,000 (78) 24,000 (77.5) 22,000 (77.5) 20,000 (72) 18,500 (66.5) 16,000 (63.5) 14,100 (65.5) 14,100 (66.5) (60.0) (66.5) (60.0) (46.5) 6,600 (42.5) 5,800 (33) 5,000 (33) 4,440 (27.5) 3,880 119.5) 0 110
NOTE: () Reference ** **********************************	(29.8) (29.8) (core radii in feet. (gh is with inner-mid (11,000 lbs.) (10,000 (60.6) (10,000 (60.6) (80.6) (80.6) (80.6) (80.6) (80.6) (80.6) (80.6) (80.6) (80.6) (80.6) (80.6) (80.6) (80.6) (80.6) (80.6) (80.6) (80.6)	(34.2) extended and ou 100% 20' 0" 40 84,400 (72) 64,400 (65.0) 65.00 65.00 (31.5) 41,750 (31.5)  Minimum boor S. sanual for instructio boom angle.	ter-mid & fly retra 50 80,200 (70,5) (80,5) (70,5) (80,200 (70,5) (80,200 (70,5) (80,200 (70,5) (8	Coted.  Over Rear  **60  *62,500  (78) 62,500  (79) 61,000  (57,7) 61,000  (57,5) 29,750  (45) 20,000  (45) 20,000  (26,5)  or indicated length (degree boom angle	#0101 Main Boom Length in 70  *36,800 (76,5) 36,800 (76,5) 36,800 (75,5) 36,800 (68) 33,400 (63) 28,700 (65) 23,6600 (55) 19,700 (47,5) 16,800 (47,5) 12,100 (24)  no load)  no load)  e Boom Angle  born Length in Feet	Feet 80  *36,800 (78) 36,800 (775) 34,000 (71) 29,000 (67) 25,000 (581,5) 16,500 (49,5) 14,650 (49,5) 10,35,5) 10,350 9,290 (22,5)	90  *31,000 (78) 31,000 (77) 30,000 (73.5) 25,300 (70.5) 22,200 (67) 20,200 (63.5) 16,005 16,005 16,005 14,000 12,200 (47) 10,800 (42) 9,450 (36.5) 8,290 (30) 7,140 (21.5)	*29,100 (78) 27,000 (76) 24,200 (72.5) 21,750 (69.5) 19,000 (65.5) 17,300 (65.5) 12,200 (52.5) 10,600 (44.5) 9,000 (44.5) 9,000 (44.5) 9,000 (44.5) 9,000 (45.5)	110  *24.000 (78) 24.000 (775) 22.000 (75) 20.000 (75) 21.500 (66.5) 17.300 (66.5) 16.000 (63.5) 14.100 (60) 12.200 (57) 10.600 (53.5) 9.000 (50) 7.8800 (46.5) 6.600 (42.5) 5.800 (38) 6.600 (42.5) 5.800 (38) 6.600 (42.5) 5.800 (38) 6.100

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

11











00 - 11016.	00	- 50 16.	11,000 103		20' 0"	000
			Po	unds		
		33 ft. LENGT	Н		56 ft. LENGTI	Н
$\Theta$	#0121	#0122	#0123	#0141	#0142	#0143
Feet	0° OFFSET	25° OFFSET	45° OFFSET	0° OFFSET	25° OFFSET	45° OFFSET
30	12,900 (78)	CITOLI	OTTOET	GITGET	OTTOET	OTTOET
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		No.1	oad Stability	Data	1,060 (38.5)	
Min. boom		NO L	oau Glabiiily	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.

36 - 110 ft.	5,500 lbs.	100% 20' 0"		90°					
		20 0			#0201				
( <u>a</u> ) (					Main Boom Length in				
Feet	35	40	50	**60	70	80	90	100	110
10	118,500 (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	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		(31.5)	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	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)
			om angle (deg.) for		,				0
#LMI operating of	angles are in degree ode. Refer to LMI ma based on maximum	s. anual for instructio	n length (ft.) at 0 dons.	egree boom angle	(no load)				110
. ,			1	Lifting Capacities	at Zero Degree Bo	om Angle			
Room				Main Bo	om Lenath in Feet				

NOTE: () Reference radii in feet.

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

- 110 ft.	5,500 lbs.	100% 20' 0"		Over Rear					
[ <del>75</del> ] [					#0201				
Feet					fain Boom Length i				
	35 120,000	40 84,400	50 80,200	**60 *62,500	70	80	90	100	110
10	(69)	(72)	(76)	(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 (74)	36.800	*36,800	*31,000		
	(59.5) 66,000	(63.5) 65,000	(70) 64,300	(74) 50,650	(76.5) 36,800	(78) 36,800	(78) 31,000	*29,100	*24,000
20	(49)	(55)	(63.5)	(69)	(72)	(75)	(77)	(78)	(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	(50)	38.100	38.200	38.000	33,400	29.000	25.300	24,200	22.000
		(31.5)	(48.5) 28,700	(57.5) 28,600	(63) 28,700	(67) 25,000	(70.5) 22,200	(72.5) 21,750	(75) 20,000
35			(40)	(51.5)	(58)	(63)	(67)	(69.5)	(72)
40			22,200 (28)	22,200 (45)	23,000 (53)	22,000 (59)	20,200 (63)	19,000 (66.5)	18,500 (69)
45			(LU)	17,600	18,400	18,800	17,800	17,300	17,300
				(37)	(47.5) 14,950	(54.5) 15.750	(59.5)	(63) 16,000	(66.5) 16.000
50				14,100 (26.5)	(41)	(49.5)	16,000 (55.5)	(60)	(63.5)
55					12,250 (33.5)	13,050 (44.5)	13,800 (51)	14,100 (56.5)	14,100 (60)
60					10,050	10,900	11,650	12,000	12,200
					(24)	(38.5) 9.100	(47) 9,890	(52.5) 10.200	(57) 10,550
65						(31.5)	(42)	(48.5)	(53.5)
70						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)
00							5,990	6,370	6,600
80							(21.5)	(34.5)	(42.5)
85								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)
		Minimum boor	m angle (deg.)	for indicated length (r	no load)				0

Main Boom Length in Feet

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

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	₩/il
36	- 110 ft









36 - 110 ft.	33	- 56 ft.	5,500 lbs.		100% 20' 0"	360
			Pou	ınds		
		33 ft. LENGTI	Н		56 ft. LENGT	Н
$\bigcirc$	#0221	#0222	#0223	#0241	#0242	#0243
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	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°	46°	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.

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

	Ц
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36 - 110 ft.	0 lbs.	100% 20' 0"	[	<b>Q</b> 360					
<b>7</b>					#0801				
Feet					Main Boom Length i				
	35 117.500	40 84.400	50 80.200	**60 *62,500	70	80	90	100	110
10	(69)	(72)	(76)	(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	34,300	33,850	33,400	34,100	34,000	30,000	27,000	24,000
	(36)	(45) 23,350	(56.5) 23.100	(63.5) 22,700	(68) 23.400	(71) 24.150	(73.5) 24,850	(76) 24,200	(77.5) 22.000
30		(31.5)	(48.5)	(57.5)	(63)	(67)	(70.5)	(72.5)	(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	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	7,330	8,040	8,750	9,130	9,510
55				(26.5)	(41) 5,470	(49.5) 6,250	(55.5) 6,960	(60) 7,320	(63.5) 7,690
					(33.5)	(44.5) 4,790	(51) 5,530	(56.5) 5.880	(60) 6,240
60					(24)	(38.5)	(47)	(52.5)	(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						(LL.U)	2,480 (30)	2,870 (40)	3,220 (46.5)
80							1,740	2,130	2,500
85							(21.5)	(34.5) 1,480	(42.5) 1,850
								(28.5)	(38) 1,290
90			(1 ) ( ) ( )	11 # / 1 B					(33)
		nimum boom angle (	,	oom angle (no load)				14	90
#LMI operating co	ngles are in degree	es. nanual for instructio	ns.						
Poom			Liπing Capac	ities at Zero Degree	Boom Angle om Length in Feet				
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)		
NOTE: ( ) Referen		(01.2)	(***.2)	(01.0)	(01.2)	(, ,,_)	(01.2)	46	-829-101324

A6-829-101324

6 - 110 ft.	0 lbs.	100% 20' 0'		Over lear					
<b>3</b> C					#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	(00)	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		(51.5)	24,600	24,500	25,350	25,000	22,200	21,750	20,000
40			(40) 18,800	(51.5) 18,750	(58) 19,600	(63) 20,450	(67) 20,200	(69.5) 19,000	(72) 18,500
45			(28)	(45) 14,650	(53) 15,500	(59) 16,300	(63) 17,100	(66.5) 17,300	(69) 17,300
50				(37) 11,550	(47.5) 12,400	(54.5) 13,200	(59.5) 14,000	(63) 14,350	(66.5) 14,750
55				(26.5)	(41) 9,990	(49.5) 10,800	(55.5) 11,550	(60) 11,900	(63.5) 12,300
					(33.5) 8,020	(44.5) 8,860	(51) 9,620	(56.5) 9,980	(60) 10,300
60					(24)	(38.5)	(47)	(52.5)	(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							5,520 (30)	5,910 (40)	6,240 (46.5)
80							4,540 (21.5)	4,910 (34.5)	5,270 (42.5)
85								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	(no load)				0
.MI operating or	angles are in degre ode. Refer to LMI n based on maximun	es. nanual for instruction			, ,				110
			Lifting Capacitie	s at Zero Degree	Boom Angle oom Length in Feet				
Boom Angle	35	40	50	**60	oom Lengtn in Feet 70	80	90	100	110
0°	29,050 (29.8)	24,450 (34.2)	15,250 (44.2)	9,320 (54.6)	6,660 (64.2)	4,930 (74.2)	3,820 (84.2)	2,740 (94.2)	1,940 (104.2)
TE: () Referer	nce radii in feet.	,	( · ····· )	, ,	()	()	, <u>-</u> )		-829-101325

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

15

	<b>■</b> Ni <b>E</b>	
36	- 110 ft	









	200	50 G		ļ.	100%	940
36 - 110 ft.	33 - 56 ft.		U IDS.	0 lbs.		360.
			Po	unds		
	;	33 ft. LENGT	Н	:	56 ft. LENGT	Н
Feet	#0821 0°	#0822 25°	#0823 45°	#0841 0°	#0842 25°	#0843 45°
	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	12,800 (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)
Min bases		No L	oad Stability I	Data		
Min. boom angle for indicated length	46°	45°	45°	48°	51°	51º
Max. boom length at 0° boom angle	om angles s	60 ft.			50 ft.	5-829-101340

NOTE: () Boom angles are in degrees.

A6-829-101340

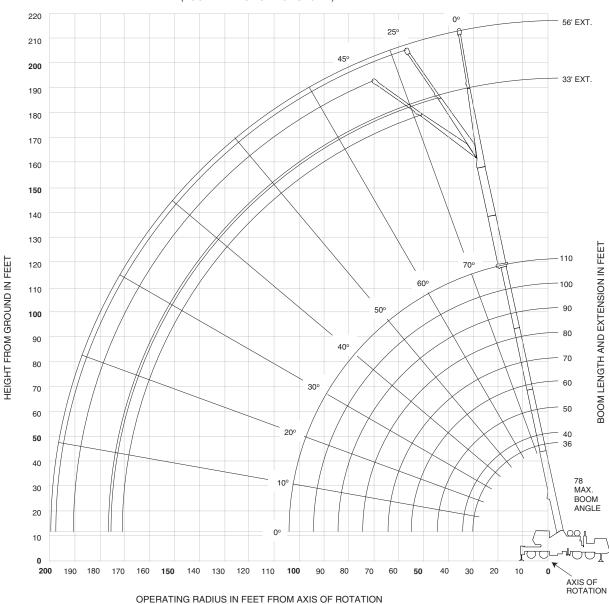
### #LMI operating code. Refer to LMI manual for instructions.

- 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.

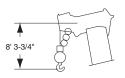
<sup>\*</sup>This capacity is based upon maximum boom angle.

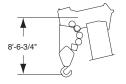
16





TMS 700E





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













	25 0						
	Pounds						
		33 ft. LENGTI	4		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)		
		No Lo	oad Stability D	Data			
Min. boom 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.

A6-829-101484

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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.
- 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. LENGTI	Н	
$\bigcirc$	#0064	#0065	#0066	#0084	#0085	#0086	
Feet	0° OFFSET	25° OFFSET	45° OFFSET	0º 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	40°	40°	47°	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 LIZES
- 2. 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.

## load handling

Weight Reductions for Load Ha	ındling 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.

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.

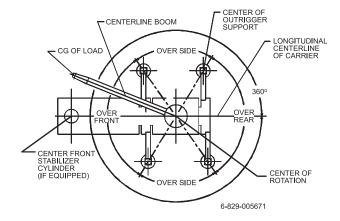
Line Pulls and Reeving Information							
Hoists	Cable Specs.	Permissible Line Pulls	Nominal Cable Length				
	3/4" (19 mm) 6x37 Class,						
Main	EIPS, IWRC Special Flexible Min. Breaking Strength 58,800 lb.	16,800 lb.	500 ft.				
	3/4" (19 mm) Flex-X 35						
Main & Aux.	Rotation Resistant (Non-rotating)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