# GROVE. TMS800E



### **features** contents 41-128 ft. (12.6-39 m) 4 section full power Mega Form boom **Features** 33-56 ft. (10-17 m) manual offset bi-fold swingaway **Specifications** 2 x 20 ft. intermediate lattice inserts **Dimensions** 24,000 lb. (10 886 kg) counterweight with hydraulic removal system **Travel Proposal** Cummins ISM 450, six cylinder after cooled 450 hp (336 kW) **Working Range** Front and rear air ride **Main Boom and** suspension **Swingaway Charts** Swingaway Charts **23** w/one or two 20' inserts **Load Handling Truck Mounted Hydraulic Crane** anifowoc Crame Group

### **features**

For improved up and over reach, a bifold lattice extension is available on the TMS800E and manually offsets from 0° to 40°.



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





Electronically controlled Cummins ISM450 diesel engine provides plenty of power, on highway and at the jobsite.



The Grove MEGAFORM™ boom shape eliminates weight and increases capacity compared to conventional shapes.

# specifications

### Superstructure



#### Boom

41 ft. - 128 ft. (12.5 m - 39 m) four section, full power MegaForm boom.

Maximum Tip Height: 135 ft. (41.1 m).



### Boom Nose

Four nylatron sheaves, mounted on heavy duty tapered roller bearings with removable pin type rope guards. Quick reeve boom nose. Removable auxiliary boom nose with removable pin type rope guard.



### **Boom Elevation**

Single lift cylinder with safety valve provides boom angle from -3° to +78°.



### Offsettable Lattice Extension

33 - 56 ft. (10 - 17 m) bifold lattice swingaway extension, manual offsettable at 0°, 20° and 40°.

Maximum tip height: 191 ft. (58.2 m)



### \*Lattice Jib Extensions

Two 20 ft. (6.1 m) inserts for use with lattice swingaway extension to increase length up to 76 ft. (23.2 m) or 96 ft. (29.3 m). Maximum tip height: 230 ft. (70.1 m)



### 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.



### Cab

All aluminum constructed cab with acoustical lining, **hydraulically tiltable** (0° to +20°). Includes tinted safety glass, adjustable operator's seat, sliding windows in side and rear, hinged skylight with wiper, skylight sunscreen. Other features include hot water heater/defroster, armrest integrated dual axis crane controls, and ergonomically arranged instrumentation.



### **→** Swing

Axial piston fixed displacement motor and planetary gear box. Infinitely variable to 1.7 rpm. Holding brake and service brake.



### Counterweight

8,000 lbs. (3 629 kg) consisting of various sections with hydraulic installation/removal system.

\*Optional "Heavy Lift" package consisting of (1) 4,000 lb. (1 814 kg) and (1) 6,000 lb. (2 722 kg) section, for a total of 18,000 lb.

\*Optional "XL" counterweight package consisting of (1) 6,000 lb. (2721 kg) slab, (1) 4000 lb. (1814 kg) slab and (2) 3,000 lb. (1361 kg) wing weights in addition to standard; for a total of 24,000 lb. (10886 kg) of counterweight.



### **Hydraulic System**

1 piston and 3 gear type pumps with a total capacity of 179 gpm (678 l/m). Maximum operating pressure, 4000 psi (27.6 MPa). Thermostatically controlled oil cooler keeps oil at optimum operating temperature.

Tank capacity: 183 gal. (693 I)



Main and auxiliary hoist are powered by axial piston motor with planetary gear and brake. "Thumb-thumper" hoist drum rotation indicator alerts operator of hoist movement.

1st Layer: 20,250 lb. (9 185 kg) Single Line Pull:

3rd Layer: 17,010 lb. (7 716 kg) 5th Layer: 14,660 lb. (6 650 kg)

Maximum Line Speed: 514 FPM (157 m/min)

Maximum Permissible Line Pull:

16,800 lb. (7 620 kg) 6X36 rope 17,160 lb. (7 784 kg) 35X7 rope

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

Rope Length: 600 ft. (183 m) Main Hoist

607 ft. (185 m) Auxiliary Hoist

6 x 36 EIPS IWRC, Special Flexible Rope Type:

35 x 7 Flex-x, 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, two-stage, double box beam outriggers with inverted jack and integral holding valves. Quick release type outrigger floats 24 in. (610 mm) diameter. Three position setting with fully extended, intermediate (50%) extended and fully retracted capacities. Maximum outrigger pad load: 101,800 lb.

### **Outrigger Controls**

Located in the superstructure cab and on either side of the carrier. Crane level indicator (sight bubble).

### Engine

Cummins ISM 450 six cylinder turbo-charged and after cooled diesel engine, 661 cu. in. (10.8 L), 450 bhp (298 kW) (gross) @ 1800 RPM. Maximum torque 1,450 ft. lbs. (2102 Nm) @ 1200 RPM.

Equipped with engine compression brake, audio-visual engine distress system, ether cold start aid and cruise control.

### Fuel Tank Capacity

97 gallons (367 L).

### Transmission

Roadranger Ultra Shift 10 speeds forward, 2 reverse. 2 speed auxiliary transmission.

Drive 8 x 4 x 4.

### **¹**∎' Steering

Front axles, single circuit, mechanical steering with hydraulic power assist. Turning radius: 45.1 ft.

### Axles

Front: (2) beam-type steering axles, 83.4 in. (2.12 m) track. Rear: (2) single reduction drive axles, 74.5 in. (1.89 m) track. Inter-axle differential locks.

#### O **Brakes**

S-cam, dual air split system operating on all wheels. Springapplied, 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.

#### $\Box$ Tires

Front: 445/65R 22.5 tubeless, mounted on aluminum disc wheels. Rear: 315/80R 22.5 tubeless, mounted on aluminum disc wheels.

### Lights

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

### Cab

One man design, aluminum fabricated with acoustical lining and tinted safety glass throughout. Deluxe fabric covered seat with air adjustment. 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 - maintenance free batteries provides 12 V electrical system. Standard battery disconnect.

### **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; sling/tool box; tire inflation kit; air cleaner restriction indicator; headache ball stowage; aluminum wheels, datalogger.

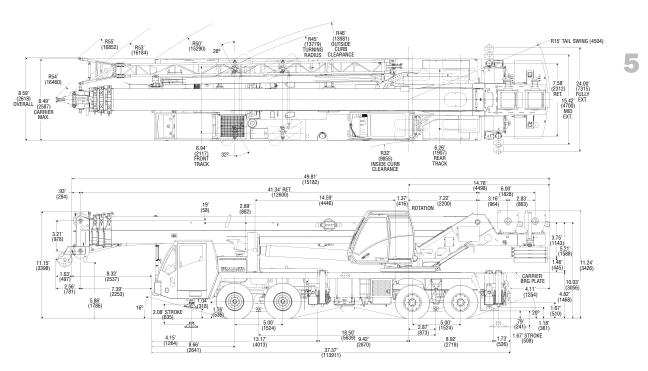
### \*Optional Equipment

- \*Flashing Light Package (Includes amber strobe for superstructure and carrier cabs)
- \*Air conditioning
- \*Dual boom base mounted floodlights
- \*Hookblocks
- \*Pintle hook (rear)
- \*Cross axle differential locks
- \*Trailing Boom Package
- \*Aluminum outrigger pads
- \*Air horn
- \*Heavy Counterweight package
- \*Tow cable
- \*LMI light bar
- \*Wind speed indicator
- \*Winterfront radiator cover

\*Denotes optional equipment

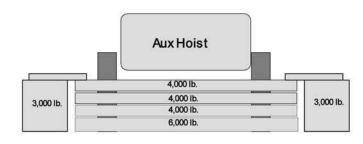


# dimensions



Unit Configuration lb. (kg.)	Fro	nt	Re	ar	Gro	ss
Maximum Design Allowable Axle/Tire Loads	49,200	(22 317)	60,000	(27 216)	109,200	(49 533)
Basic machine including 128 ft. (39 m) main boom, main hoist with cable, full fuel & hydraulic oil, zero counterweight, 200 lb. driver	38,469	(17 450)	41,439	(18 796)	79,908	(36 246)
Add auxiliary hoist with cable, auxiliary boom nose, 500 lbs. rigging	00,100	(17 100)	11,100	(10 700)	70,000	(00 2 .0)
& cribbing, zero counterweight	38,560	(17 491)	42,323	(19 198)	80,883	(36 689)
Add 33-56 ft. Bi-fold swingaway with brackets	41,602	(18 871)	41,913	(19 012)	83,515	(37 882)
Add 40T block tied to front bumper & 10 T headache ball stowed	43,767	(19 853)	41,139	(18 661)	84,906	(38,513)
Add 4,000 lb. counterweight pinned to superstructure	41,663	(18 898)	47,289	(21 450)	88,952	(40 349)
Add 8,000 lb. counterweight (4,000 lb. on deck/4,000 lb. pinned to superstructure)	45,012	(20 417)	47,923	(21 738)	92,935	(42 155)
Add 10,000 lb. counterweight (6,000 lb. on deck/4,000 lb. pinned to superstructure)	46,696	(21 181)	48,239	(21 881)	94,935	(43 063)
Add 12,000 lb. counterweight (8,000 lb. on deck/4,000 lb. pinned to superstructure)	48,391	(21 950)	48,557	(22 025)	96,948	(43 976)
Add 14,000 lb. counterweight (8,000 lb. on deck/6,000 lb. pinned to superstructure)	47,330	(21 469)	51,615	(23 413)	98,945	(44 881)
Add 18,000 lb. counterweight (10,000 lb. on deck/8,000 lb. pinned to superstructure)	47,943	(21 747)	55,018	(24 956)	102,961	(46 703)
Additions: Air conditioning carrier Air conditioning superstructure Aluminum outrigger pads	80 -32 -6	(36) (-15) (-3)	-17 225 -66	(-8) (102) (-30)	63 193 -72	(29) (88) (-33)
Remove: 33-56 ft. bi-fold swingaway 40T block 10T headache ball Auxiliary hoist cable Effect per foot of extending boom:	-3,042 -1,327 -838 448 762	(-1 380) (-602) (-380) (203) (-346)	410 504 270 -1,237 -762	(186) (229) (122) (-561) (346)	-2,632 -823 -568 -789	(-1 194) (-373) (-258) (-358) (0)

### Counterweight Configurations



### **Load Chart Configurations**

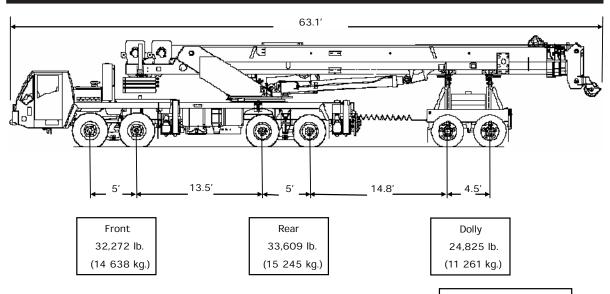
	4,000 lb.	6,000 lb.	3,000 lb.
8,000 lb.	2X		
10,000 lb.	Х	Х	
12,000 lb.	3X		
14,000 lb.	2X	Х	
18,000 lb.	3X	X	
24,000 lb.	3X	Х	2X

**GROVE** 

# dimensions

### **Boom over front**

6



Gross 90,706 lb. (41 144 kg.)

Unit Configuration:

41-128 ft. (12.5-39 m) boom

33-56 ft. (10-17 m) stowed swingaway

Main and auxiliary hoists with cable

40 ton hook block hanging from boom nose

10 ton headache ball stowed in front tray

500 lbs of Rigging & Cribbing

Driver

2 axle boom dolly [6,200 lb. (2 812 kg.)]

No counterweight

### Additions:

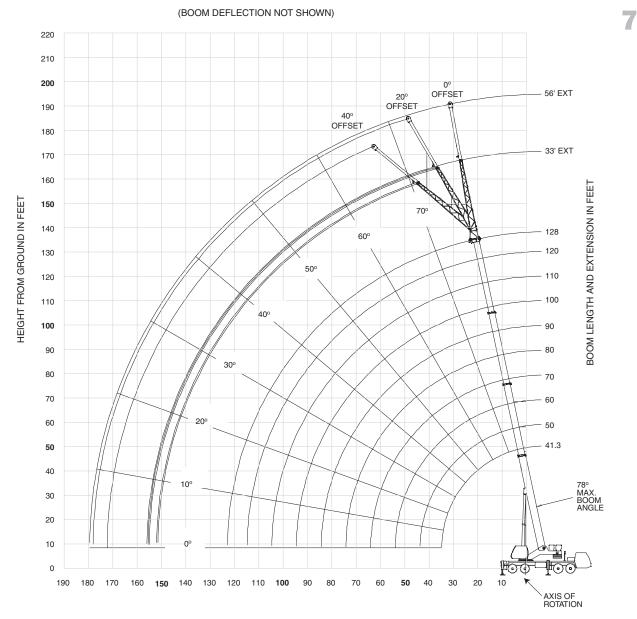
8,000 lb. (3 629 kg.) counterweight stowed on the chassis deck 10,000 lb. (4 536 kg.) counterweight stowed on the boom dolly

Front 39,032 lb. (17 705 kg.) Rear 34,878 lb. (15 821 kg.) Dolly 34,851 lb. (15 808 kg.)

Gross 108,761 lb. (49 334 kg.)

**TMS800**E

### 41.3-128' main boom + 33-56' lattice extension



OPERATING RADIUS IN FEET FROM AXIS OF ROTATION







# working range

### 41.3-128' main boom + 33-56' lattice extension + 20' or 40' insert

0° OFFSET 20° OFFSET 230 40° OFFSET 220 210 200 190 180 170 BOOM & EXTENSION LENGTH IN FEET 160 HEIGHT FROM GROUND IN FEET 150 70° 128 140 609 120 130 50° 110 120 100 110 40° 100 90 80 90 30° 80 60 70 20° 50 60 41.3 50 40 10° 78° MAX BOOM ANGLE 30 20 10 0

OPERATING RADIUS IN FEET FROM AXIS OF ROTATION

220 210 **200** 190 180 170 160 **150** 140 130 120 110 **100** 90

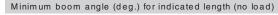






AXIS OF ROTATION

			<b>-</b>	Q						
41.3-128 ft.	24,000 lbs		100% " spread	360°						
					P	ounds				
	41.3	50	60	**70	80	90	100	110	120	128
8	+160,000 (73)									
9	++150,000 (71.5)	86,000 (75)								
10	147,000 (70)	86,000 (74)	86,000 (77)							
12	130,500 (67)	86,000 (71.5)	86,000 (75)	41,000 (77)						
15	111,000 (62)	86,000 (67.5)	86,000 (71.5)	41,000 (74.5)	39,000 (76.5)					
20	87,650 (53.5)	86,000 (61)	85,900 (66.5)	41,000 (70)	39,000 (73)	38,800 (75)	*38,700 (78)	*31,950 (78)		
25	67,700 (44)	67,450 (54)	67,250 (61)	41,000 (65.5)	39,000 (69)	38,800 (71.5)	38,700 (74)	31,950 (75.5)	*25,750 (78)	*14,600 (78)
30	50,550 (31)	50,800 (46.5)	50,750 (55.5)	41,000 (61)	39,000 (65)	38,800 (68.5)	36,150 (70.5)	31,950 (72.5)	25,750 (74.5)	14,600 (75.5)
35	(0.)	38,600 (37)	38,750 (49.5)	38,650 (56.5)	38,150 (61)	34,100 (65)	31,350 (67.5)	29,300 (70)	25,750 (72)	14,600 (73)
40		30,300 (24)	30,500 (42)	30,600 (51)	31,550 (57)	30,050 (61)	27,500 (64.5)	25,650 (67.5)	23,900 (69.5)	14,600 (71)
45		(= .)	24,550 (33.5)	24,700 (45.5)	25,700 (52.5)	26,500 (57.5)	24,400 (61.5)	22,700 (64.5)	21,450 (67)	14,600 (68.5)
50	See Note 16		20,050 (21.5)	20,250	21,150 (47.5)	22,050 (53.5)	21,850 (58)	20,250 (61.5)	19,100 (64.5)	14,600 (66)
55	14010-10		(21.5)	16,750 (31.5)	17,650 (42.5)	18,500 (49.5)	19,300 (54.5)	18,200 (58.5)	17,100 (62)	14,600 (64)
60				13,950 (20.5)	14,800 (36.5)	15,650 (45)	16,450 (51)	16,450 (55.5)	15,450 (59)	14,600 (61.5)
65				(20.0)	12,450 (29)	13,300 (40)	14,150 (47)	14,550 (52)	14,000 (56)	13,350 (59)
70					10,500 (18.5)	11,300 (34)	12,150 (42.5)	12,600 (48.5)	12,700 (53)	12,150 (56)
75					(10.5)	9,650 (27.5)	10,500	10,950 (45)	11,350 (50)	11,050 (53.5)
80						8,220 (17.5)	9,100 (32.5)	9,530 (41)	9,950 (47)	10,100 (50.5)
85						(17.0)	7,870 (26)	8,300 (36.5)	8,710 (43)	9,090 (47.5)
90							6,800 (17)	7,220 (31)	7,620 (39.5)	8,000 (44)
95							(17)	6,260 (25)	6,660 (35)	7,030 (40.5)
100								5,410 (16)	5,810 (30)	6,170 (36.5)
105									5,040 (24)	5,410 (32)
110									4,360 (16)	4,720 (27)
115										4,090 (21)
120										3,530 (10)



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

120

Note: () Boom angles are in degrees.

+ Special equipment is required to lift this capacity.

a rts of line reuired to lift this caacit usin g au. o om nose. Refer to O erator's & Safet Han dook for reeving diagram.

			Lifting	Capacities a	t Zero Degree	Boom Angle				
Boom Angle		5			Main Boom L	ength in Feet				
o	,5 ·	5,5	,5 5.	,	5,	,	,	, .	,	

Note R eference radii in feet.

**GROVE** 

<sup>#</sup>LMI operating code. Refer to LMI manual for instructions. \*This capacity is based upon maximum obtainable boom angle.

This o om length is with inner-mid full eten ded and outer-mid & fl full retra cted.











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		Pounds								
		33 ft. LENGTH			56 ft. LENGTH	1				
G	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET				
35	*11,900 (78)									
40	11,900 (75.5)			6,060 (77.5)						
45	11,900 (73.5)	*11,600 (78)		6,060 (76)						
50	11,900 (71.5)	10,600 (75)	*9,700 (78)	6,060 (74.5)						
55	11,900 (70)	9,770 (73)	8,470 (75.5)	6,060 (73)						
60	11,000 (68)	9,020 (71)	7,920 (73.5)	6,060 (71)	*6,040 (78)					
65	10,000 (66)	8,360 (69.5)	7,430 (72)	6,060 (69.5)	5,900 (75)					
70	9,190 (64)	7,780 (67.5)	6,980 (70)	6,060 (68)	5,730 (73.5)	*4,930 (78)				
75	8,460 (62)	7,260 (65.5)	6,580 (68)	6,060 (66)	5,330 (71.5)	4,640 (76)				
80	7,820 (60)	6,790 (63.5)	6,210 (65.5)	6,040 (64.5)	4,980 (70)	4,370 (74)				
85	7,250 (58)	6,370 (61)	5,870 (63.5)	5,570 (63)	4,650 (68)	4,120 (72)				
90	6,740 (55.5)	5,990 (59)	5,560 (61)	5,150 (61)	4,360 (66.5)	3,890 (70)				
95	6,290 (53.5)	5,640 (56.5)	5,280 (59)	4,780 (59.5)	4,090 (64.5)	3,680 (68.5)				
100	5,880 (51)	5,320 (54.5)	5,020 (56.5)	4,440 (57.5)	3,840 (62.5)	3,480 (66.5)				
105	5,510 (48.5)	5,030 (52)	4,770 (54)	4,130 (55.5)	3,610 (60.5)	3,300 (64.5)				
110	5,170 (46)	4,760 (49.5)	4,550 (51)	3,850 (53.5)	3,400 (58.5)	3,130 (62.5)				
115	4,780 (43.5)	4,510 (46.5)	4,340 (48.5)	3,590 (52)	3,200 (56.5)	2,970 (60)				
120	4,200 (40.5)	4,280 (44)	4,150 (45)	3,360 (49.5)	3,020 (54.5)	2,820 (58)				
125	3,660 (37.5)	3,960 (41)		3,140 (47.5)	2,840 (52.5)	2,680 (55.5)				
130	3,170 (34)	3,420 (37.5)		2,940 (45.5)	2,690 (50)	2,540 (53)				
135	2,710 (30.5)	2,930 (34)		2,760 (43)	2,540 (48)	2,420 (50.5)				
140	2,290 (26.5)	2,470 (29.5)		2,590 (40.5)	2,400 (45)	2,300 (47.5)				
145	1,910 (21.5)			2,430 (38)	2,270 (42.5)					
150	1,550 (14.5)			2,100 (35)	2,140 (39.5)					
155				1,770 (31.5)	2,030 (36)					
160				1,470 (28)	1,770 (32.5)					
165				1,180 (24)						

Minimum boom angle (°) for indicated length 1 (no load)	3 28	43.5	19	31.5	46
Maximum boom length (ft.) at 0° boom angle (no load)	110			110	
NOTE: ( ) Boom angles #LMI operating code. R*This capacity is based	tefer to LMI manual fo	or operating in m angle.	structions.	A6-829-	-103892

- All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765.
- The 33 ft. extension length may be used with single or double part line lifting service. The 56 ft. extension length may be used for single line lifting service only.
- 3. For main boom lengths less than 128 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 set up. For boom angles not shown, use 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.
- Capacities listed are with outriggers properly extended and vertical jacks set only.
- When lifting over the main boom nose with 33 ft. or 56 ft. extension erected, the outriggers must be fully extended or 50% extended (15 ft. 5 in. spread).















			De	nde		
			Pou			
	76 ft. (56 0°	ft. LENGTH +	,	96 ft. (56 0°	ft. LENGTH - 20°	2 INSERTS
	OFFSET	OFFSET	40° OFFSET	OFFSET	OFFSET	40° OFFSET
50	4,850 (77.5)					
55	4,850 (76)			3,520 (78)		
60	4,850 (74.5)			3,520 (77)		
65	4,850 (73)	*5,290 (78)		3,520 (75.5)		
70	4,850 (71.5)	4,860 (76.5)		3,520 (74)		
75	4,850 (70)	4,470 (75)		3,520 (72.5)	3,740 (77)	
80	4,730 (68.5)	4,110 (73.5)	4,050 (77)	3,520 (71.5)	3,420 (75.5)	
85	4,310 (67)	3,790 (72)	3,500 (75.5)	3,300 (70)	3,100 (74.5)	*3,250 (78)
90	3,940 (65.5)	3,500 (70)	3,260 (73.5)	2,970 (68.5)	2,820 (73)	2,720 (76)
95	3,610 (63.5)	3,240 (68.5)	3,030 (72)	2,660 (67)	2,560 (71.5)	2,490 (74.5)
100	3,310 (62)	3,000	2,830 (70.5)	2,390 (65.5)	2,320 (70)	2,270 (73)
105	3,040 (60.5)	2,770 (65)	2,630 (68.5)	2,140 (64)	2,100 (68.5)	2,070 (71.5)
110	2,790 (59)	2,570 (63.5)	2,450 (66.5)	1,920 (62.5)	1,900 (67)	1,890 (70)
115	2,560 (57)	2,370 (61.5)	2,280 (65)	1,710 (61)	1,710 (65.5)	1,710 (68.5)
120	2,350 (55.5)	2,200 (60)	2,120 (63)	1,520 (59.5)	1,540 (64)	1,550 (66.5)
125	2,160 (53.5)	2,030 (58)	1,970 (61)	1,350 (58)	1,380 (62.5)	1,390 (65)
130	1,990 (52)	1,880 (56.5)	1,830 (59)	1,190 (56.5)	1,230 (60.5)	1,250 (63.5)
135	1,820 (50)	1,730 (54.5)	1,700 (57)	1,040 (55)	1,080 (59)	1,110 (61.5)
140	1,670 (48)	1,590 (52.5)	1,570 (55)	(=2)	(==)	(2.1.2)
145	1,530 (46)	1,470 (50.5)	1,450 (52.5)			
150	1,400 (43.5)	1,340 (48)	1,340 (50.5)			
155	1,270 (41.5)	1,230 (46)	1,230 (48)			
160	1,160 (39)	1,120 (43.5)	1,130 (45)			
165	1,050 (36.5)	1,020 (40.5)				
	V					
Minimum boom a	anale					
(°) for indicate length (no load	ed 35 d)	39	43.5	53.5	58	60.5
Maximum boo length (ft.) at 0° b angle (no load	oom	70			70	
NOTE: ( ) Boom #LMI operating c *This capacity is	angles are i ode. Refer	to LMI manua		g instructions.		829-103894

11

- 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
- The 33 ft. extension length may be used with single or double part line lifting service. The 56 ft. extension length may be used for single line lifting service only.
- For main boom lengths less than 128 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 set up. For boom angles not shown, use 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.
- When lifting over the main boom nose with 33 ft. or 56 ft. extension erected, the outriggers must be fully extended or 50% extended (15 ft. 5 in. spread).



Q 41.3- 128 ft. 18,000 lbs 100%  $\Theta$ Pounds Main Boom Length in Feet \*\*70 41.3 50 60 90 100 110 120 128 +160,000 8 (73) ++150,000 86,000 9 (71.5)(75)147,000 86,000 86,000 10 (77) 86.000 (70)(74)41.000 130.500 86.000 12 (67) (71.5)(75) (77) 111,000 86,000 86,000 41,000 39,000 15 (62) (67.5)(71.5)(74.5)(76.5)87,650 86,000 85,900 41,000 39,000 38,800 \*38,700 \*31,950 20 (70)(61) (66.5)(73) (75)(78)(78)63 700 63 750 63 300 41.000 39.000 38,800 38,700 31.950 \*25 750 \*14.600 25 (44) (54) (61) (65.5) (69) (71.5)(74) (75.5) (78) (78) 25,750 45,450 45,650 45,600 41,000 39,000 38,800 36,150 31,950 14,600 30 (31) (46.5)(55.5)(61) (68.5)(70.5)(72.5)(74.5)(75.5)34,450 34.550 34.500 35,450 34,100 31,350 29,300 25,750 14.600 35 (37) (49.5)(56.5)(61) (65)(67.5)(70) (72) (73)26,800 27.000 27.100 28 050 25 650 23 900 28 950 27 500 14 600 40 (24) (42) (51) (57) (61) (64.5)(69.5)(67.5)21,550 21,700 22,650 22,700 21,450 14,600 23,500 45 (33.5)(45.5) (52.5)(57.5) (61.5) (64.5) (68.5) (67) 17,450 17,600 18,550 19,450 20,200 20,250 19,100 14,600 50 (21.5)(47.5)(58)(39)(53.5)(61.5)(64.5)(66)14,400 15 300 16.150 16.950 17,100 14,600 17 300 55 (31.5)(42.5) (54.5) (58.5) (49.5)(64) 11,800 12,700 13,500 14,350 14,750 14,600 60 (20.5)(36.5)(45)(51) (55.5)(59) (61.5) 10,550 11,350 12,200 12,600 13,000 13,350 65 (29) (40) (47) (52) (56)(59)11.250 8.760 9.550 10 400 10.850 11.600 70 (18.5)(34) 8,010 (42.5)(48.5)(53)(56)8,890 9,320 9,740 10,100 75 (27.5)(38) (45) (50) (53.5)6,690 7,580 8,010 8,430 8,790 80 (17.5)(32.5)(41)(47)(50.5)6,450 7,290 (43) 6.880 7.670 85 (26) (36.5)(47.5) 5,460 5,880 6,290 6,670 90 (39.5)(44) 5,000 5,410 5,780 95 (25)(35) (40.5)4.220 4.620 4.990 100 (16) (36.5)(30)3,920 4,280 105 (24) (32) 3,280 3,650 110 (27)3,080 115 (21) 2,560 (10) Minimum boom angle (deg.) for indicated length (no load) 9 120 Maximum boom length (ft.) at 0 deg. boom angle (no load) #LMI operating code. Refer to LMI manual for instructions. \*This capacity is based upon maximum obtainable boom angle. Note: () Boom angles are in degrees.
+ Special equipment is required to lift this capacity. ++9 parts of line required to lift this capacity (using aux. boom nose). Refer to Operator's & Safety Handbook for reeving diagram. Lifting Capacities at Zero Degree Boom Angle Main Boom Length in Feet Boom Angle

41.3

20,750

(34.1)

50

15,150

60

10,500

\*\*70

6,700

80

5,100

A6-829-103749

120

1,300



90

3,900

(82.8)

100

2,900

(92.8)

110

2,000

(102.8)

<sup>(42.8)</sup> Note: () Reference radii in feet.
\*\*This boom length is with inner-mid fully extended and outer-mid & fly fully retracted.

13

41.3	3 - 128	ft.









41.3 - 128 ft.	33 - 56 ft.	18,0	00 lbs	100% 24' 0		360°
			Pounds	3		
	33	ft. LENGTH		56	ft. LENGTH	
Feet	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
35	*11,900 (78)					
40	11,900 (75.5)			6,060 (77.5)		
45	11,900 (73.5)	*11,600 (78)		6,060 (76)		
50	11,900 (71.5)	10,600 (75)	*9,700 (78)	6,060 (74.5)		
55	11,900 (70)	9,770 (73)	8,470 (75.5)	6,060 (73)		
60	11,000 (68)	9,020 (71)	7,920 (73.5)	6,060 (71)	*6,040 (78)	
65	10,000 (66)	8,360 (69.5)	7,430 (72)	6,060 (69.5)	5,900 (75)	
70	9,190 (64)	7,780 (67.5)	6,980 (70)	6,060 (68)	5,730 (73.5)	*4,930 (78)
75	8,460 (62)	7,260 (65.5)	6,580 (68)	6,060 (66)	5,330 (71.5)	4,640 (76)
80	7,820 (60)	6,790 (63.5)	6,210 (65.5)	6,040 (64.5)	4,980 (70)	4,370 (74)
85	7,250 (58)	6,370 (61)	5,870 (63.5)	5,570 (63)	4,650 (68)	4,120 (72)
90	6,740 (55.5)	5,990 (59)	5,560 (61)	5,150 (61)	4,360 (66.5)	3,890 (70)
95	6,290 (53.5)	5,640 (56.5)	5,280 (59)	4,780 (59.5)	4,090 (64.5)	3,680 (68.5)
100	5,750 (51)	5,320 (54.5)	5,020 (56.5)	4,440 (57.5)	3,840 (62.5)	3,480 (66.5)
105	5,020 (48.5)	5,030 (52)	4,770 (54)	4,130 (55.5)	3,610 (60.5)	3,300 (64.5)
110	4,360 (46)	4,760 (49.5)	4,550 (51)	3,850 (53.5)	3,400 (58.5)	3,130 (62.5)
115	3,760 (43.5)	4,150 (46.5)	4,340 (48.5)	3,590 (52)	3,200 (56.5)	2,970 (60)
120	3,220 (40.5)	3,560 (44)	3,840 (45)	3,360 (49.5)	3,020 (54.5)	2,820 (58)
125	2,710 (37.5)	3,020 (41)		3,140 (47.5)	2,840 (52.5)	2,680 (55.5)
130	2,250 (34)	2,520 (37.5)		2,810 (45.5)	2,690 (50)	2,540 (53)
135	1,830 (30.5)	2,070 (34)		2,400 (43)	2,540 (48)	2,420 (50.5)
140	1,440 (26.5)	1,640 (29.5)		2,030 (40.5)	2,400 (45)	2,300 (47.5)
145	1,080 (21.5)			1,690 (38)	2,110 (42.5)	
150				1,370 (35)	1,730 (39.5)	
155				1,070 (31.5)	1,380 (36)	
160					1,060 (32.5)	
Minimum boom angle (°) for indicated lengtl (no load)		28	43.5	30	31.5	46
Maximum boom lengt (ft.) at 0° boom angle (no load)		110			40.00	100

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

#### NOTES:

- All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE LIZES
- The 33 ft. extension length may be used with single or double part line lifting service. The 56 ft. extension length may be used for single line lifting service only.
- For main boom lengths less than 128 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 set up. For boom angles not shown, use 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.
- When lifting over the main boom nose with 33 ft. or 56 ft. extension erected, the outriggers must be fully extended or 50% extended (15 ft. 5 in. spread).

TMS800E















14

			Pound	s		)
	76 ft. (56 ft. LE	NGTH + 1 I	NSERT)	96 ft. (56 ft. L	ENGTH + 2	INSERTS)
Feet	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
50	4,850 (77.5)					
55	4,850 (76)			3,520 (78)		
60	4,850 (74.5)			3,520 (77)		
65	4,850 (73)	*5,290 (78)		3,520 (75.5)		
70	4,850 (71.5)	4,860 (76.5)		3,520 (74)		
75	4,850 (70)	4,470 (75)		3,520 (72.5)	3,740 (77)	
80	4,730 (68.5)	4,110 (73.5)	4,050 (77)	3,520 (71.5)	3,420 (75.5)	
85	4,310 (67)	3,790 (72)	3,500 (75.5)	3,300 (70)	3,100 (74.5)	*3,250 (78)
90	3,940 (65.5)	3,500 (70)	3,260 (73.5)	2,970 (68.5)	2,820 (73)	2,720 (76)
95	3,610 (63.5)	3,240 (68.5)	3,030 (72)	2,660 (67)	2,560 (71.5)	2,490 (74.5)
100	3,310 (62)	3,000 (67)	2,830 (70.5)	2,390 (65.5)	2,320 (70)	2,270 (73)
105	3,040 (60.5)	2,770 (65)	2,630 (68.5)	2,140 (64)	2,100 (68.5)	2,070 (71.5)
110	2,790 (59)	2,570 (63.5)	2,450 (66.5)	1,920 (62.5)	1,900 (67)	1,890 (70)
115	2,560 (57)	2,370 (61.5)	2,280 (65)	1,710 (61)	1,710 (65.5)	1,710 (68.5)
120	2,350 (55.5)	2,200 (60)	2,120 (63)	1,520 (59.5)	1,540 (64)	1,550 (66.5)
125	2,160 (53.5)	2,030 (58)	1,970 (61)	1,350 (58)	1,380 (62.5)	1,390 (65)
130	1,990 (52)	1,880 (56.5)	1,830 (59)	1,190 (56.5)	1,230 (60.5)	1,250 (63.5)
135	1,820 (50)	1,730 (54.5)	1,700 (57)	1,040 (55)	1,080 (59)	1,110 (61.5)
140	1,670 (48)	1,590 (52.5)	1,570 (55)			
145	1,530 (46)	1,470 (50.5)	1,450 (52.5)			
150	1,400 (43.5)	1,340 (48)	1,340 (50.5)			
155	1,160 (41.5)	1,230 (46)	1,230 (48)			
160		1,120 (43.5)	1,130 (45)			
Minimum boom ar (°) for indicated length (no load	39	40.5	43.5	53.5	58	60.5
Maximum boom length (ft.) at 0° bo angle (no load)	oom	70			70	
NOTE: ( ) Boom as			r operating	n instructions	A6-8	29-103785

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

- All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765.
- 2. The 56 ft. extension length may be used for single line lifting service only.
- For main boom lengths less than 128 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 set up. For boom angles not shown, use 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.
- When lifting over the main boom nose with 56 ft. extension erected and inserts, the outriggers must be fully extended and vertical jacks set.





.3 - 128ft.	14,000 lbs		100%	360°						
			24' 0"		Pour	nds				
Feet	44.0			1	Main Boom Length		400	440	100	400
	41.3 ++150,000	50	60	**70	80	90	100	110	120	128
8	(73) ++150,000	86,000								
9	(71.5)	(75)	00.000							
10	145,500 (70)	86,000 (74)	86,000 (77)							
12	129,000 (67)	86,000 (71.5)	86,000 (75)	41,000 (77)						
15	110,000 (62)	86,000 (67.5)	86,000 (71.5)	41,000 (74.5)	39,000 (76.5)					
20	85,200 (53.5)	84,900 (61)	84,650 (66.5)	41,000 (70)	39,000	38,800	*38,700 (78)	*31,950		
25	59,150	59,150	58,700	41,000	(73) 39,000	(75) 38,800	38,700	(78) 31,950	*25,750	*14,600
30	(44) 41,950	(54) 42,150	(61) 42,100	(65.5) 41,000	(69) 39,000	(71.5) 38,800	(74) 36,150	(75.5) 31,950	(78) 25,750	(78) 14,600
	(31)	(46.5) 31,600	(55.5) 31,750	(61) 31,700	(65) 32,600	(68.5) 33,600	(70.5) 31,350	(72.5) 29,300	(74.5) 25,750	(75.5) 14,600
35		(37)	(49.5)	(56.5)	(61)	(65)	(67.5)	(70)	(72)	(73)
40		24,450 (24)	24,650 (42)	24,750 (51)	25,650 (57)	26,550 (61)	27,500 (64.5)	25,650 (67.5)	23,900 (69.5)	14,600 (71)
45			19,500 (33.5)	19,650 (45.5)	20,650 (52.5)	21,500 (57.5)	22,350 (61.5)	22,650 (64.5)	21,450 (67)	14,600 (68.5)
50			15,650 (21.5)	15,800 (39)	16,750 (47.5)	17,650 (53.5)	18,400 (58)	18,750 (61.5)	19,100 (64.5)	14,600 (66)
55			(21.0)	12,800	13,700	14,550	15,350	15,700	16,100	14,600
60				(31.5) 10,400	(42.5) 11,250	(49.5) 12,050	(54.5) 12,900	(58.5) 13,300	(62) 13,650	(64) 14,150
				(20.5)	(36.5) 9,240	(45) 10,050	(51) 10,900	(55.5) 11,300	(59) 11,700	(61.5) 12,100
65					(29) 7,550	(40) 8,350	(47) 9,220	(52) 9,650	(56) 10,050	(59) 10,400
70					(18.5)	(34)	(42.5)	(48.5)	(53)	(56)
75						6,900 (27.5)	7,780 (38)	8,210 (45)	8,630 (50)	8,980 (53.5)
80						5,660 (17.5)	6,550 (32.5)	6,980 (41)	7,390 (47)	7,760 (50.5)
85							5,490 (26)	5,910 (36.5)	6,320 (43)	6,700 (47.5)
90							4,560	4,980	5,380	5,770
95							(17)	(31) 4,150	(39.5) 4,550	(44) 4,930
								(25) 3,420	(35) 3,810	(40.5) 4,190
100								(16)	(30) 3,150	(36.5)
105									(24)	(32)
110									2,560 (16)	2,930 (27)
115										2,390 (21)
120										1,900 (10)
num boom	angle (deg.) for indic	cated length (	(no load)							9
operating capacity is ( ) Boom a	length (ft.) at 0 deg. code. Refer to LMI n s based upon maxim angles are in degree required to lift this c	nanual for ins ium obtainabl s.	structions. le boom angle.	Refer to Operato	or's & Safety Hand	book for reeving (	dia <b>g</b> am.			120
			Lifting Ca	•	Degree Boom A	•				
loom Ingle	41.3	50	60 **70	80	Main Boom Length 90	in Feet 100 110	120			
0°	20,750	15,150	10,500	6,700	5,100	3,900	2,900	2,000	1,300	

Note: ( ) Reference radii in feet.

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











	Pounds								
	33	ft. LENGTH		56	ft. LENGTH	1			
Feet	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET			
35	*11,900 (78)								
40	11,900 (75.5)			6,060 (77.5)					
45	11,900 (73.5)	*11,600 (78)		6,060 (76)					
50	11,900 (71.5)	10,600 (75)	*9,700 (78)	6,060 (74.5)					
55	11,900 (70)	9,770 (73)	8,470 (75.5)	6,060 (73)					
60	11,000 (68)	9,020 (71)	7,920 (73.5)	6,060 (71)	*6,040 (78)				
65	10,000 (66)	8,360 (69.5)	7,430 (72)	6,060 (69.5)	5,900 (75)				
70	9,190 (64)	7,780 (67.5)	6,980 (70)	6,060 (68)	5,730 (73.5)	*4,930 (78)			
75	8,460 (62)	7,260 (65.5)	6,580 (68)	6,060 (66)	5,330 (71.5)	4,640 (76)			
80	7,820 (60)	6,790 (63.5)	6,210 (65.5)	6,040 (64.5)	4,980 (70)	4,370 (74)			
85	7,250 (58)	6,370 (61)	5,870 (63.5)	5,570 (63)	4,650 (68)	4,120 (72)			
90	6,570 (55.5)	5,990 (59)	5,560 (61)	5,150 (61)	4,360 (66.5)	3,890 (70)			
95	5,710 (53.5)	5,640 (56.5)	5,280 (59)	4,780 (59.5)	4,090 (64.5)	3,680 (68.5)			
100	4,940 (51)	5,320 (54.5)	5,020 (56.5)	4,440 (57.5)	3,840 (62.5)	3,480 (66.5)			
105	4,250 (48.5)	4,750 (52)	4,770 (54)	4,130 (55.5)	3,610 (60.5)	3,300 (64.5)			
110	3,630 (46)	4,070 (49.5)	4,410 (51)	3,850 (53.5)	3,400 (58.5)	3,130 (62.5)			
115	3,070 (43.5)	3,460 (46.5)	3,760 (48.5)	3,550 (52)	3,200 (56.5)	2,970 (60)			
120	2,550 (40.5)	2,900 (44)	3,170 (45)	3,060 (49.5)	3,020 (54.5)	2,820 (58)			
125	2,080 (37.5)	2,390 (41)	` '	2,610 (47.5)	2,840 (52.5)	2,680 (55.5)			
130	1,650 (34)	1,920 (37.5)		2,200 (45.5)	2,690 (50)	2,540 (53)			
135	1,250 (30.5)	1,480 (34)		1,820 (43)	2,370 (48)	2,420 (50.5)			
140	,	1,080 (29.5)		1,470 (40.5)	1,950 (45)	2,220 (47.5)			
145				1,150 (38)	1,570 (42.5)				
150					1,210 (39.5)				
Minimum boom angle (°) for indicated length (no load)	26.5	28.5	43.5	35	36	46			
Maximum boom length (ft.) at 0° boom angle	1	110			90				

A6-829-103772

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with
- 2. The 33 ft. extension length may be used with single or double part line lifting service. The 56 ft. extension length may be used for single line lifting service only.
- 3. For main boom lengths less than 128 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 set up. For boom angles not shown, use rating of the next lower boom angle.
- 4. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- 5. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 6. Capacities listed are with outriggers properly extended and vertical jacks set only.
- 7. When lifting over the main boom nose with 33 ft. or 56 ft. extension erected, the outriggers must be fully extended or 50% extended (15 ft. 5 in. spread).





<sup>(</sup>no load)

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

41 3 - 128 ff











	24 0								
	Pounds								
	76 ft (56 ft L	ENGTH + 1	NSERT)	96 ft. (56 ft. LENGTH + 2 INSERTS)					
Feet	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET			
50	4,850 (77.5)								
55	4,850 (76)			3,520 (78)					
60	4,850 (74.5)			3,520 (77)					
65	4,850 (73)	*5,290 (78)		3,520 (75.5)					
70	4,850 (71.5)	4,860 (76.5)		3,520 (74)					
75	4,850 (70)	4,470 (75)		3,520 (72.5)	3,740 (77)				
80	4,730 (68.5)	4,110 (73.5)	4,050 (77)	3,520 (71.5)	3,420 (75.5)				
85	4,310 (67)	3,790 (72)	3,500 (75.5)	3,300 (70)	3,100 (74.5)	*3,250 (78)			
90	3,940 (65.5)	3,500 (70)	3,260 (73.5)	2,970 (68.5)	2,820 (73)	2,720 (76)			
95	3,610 (63.5)	3,240 (68.5)	3,030 (72)	2,660 (67)	2,560 (71.5)	2,490 (74.5)			
100	3,310 (62)	3,000 (67)	2,830 (70.5)	2,390 (65.5)	2,320 (70)	2,270 (73)			
105	3,040 (60.5)	2,770 (65)	2,630 (68.5)	2,140 (64)	2,100 (68.5)	2,070 (71.5)			
110	2,790 (59)	2,570 (63.5)	2,450 (66.5)	1,920 (62.5)	1,900 (67)	1,890 (70)			
115	2,560 (57)	2,370 (61.5)	2,280 (65)	1,710 (61)	1,710 (65.5)	1,710 (68.5)			
120	2,350 (55.5)	2,200 (60)	2,120 (63)	1,520 (59.5)	1,540 (64)	1,550 (66.5)			
125	2,160 (53.5)	2,030 (58)	1,970 (61)	1,350 (58)	1,380 (62.5)	1,390 (65)			
130	1,990 (52)	1,880 (56.5)	1,830 (59)	1,190 (56.5)	1,230 (60.5)	1,250 (63.5)			
135	1,820 (50)	1,730 (54.5)	1,700 (57)	1,040 (55)	1,080 (59)	1,110 (61.5)			
140	1,600 (48)	1,590 (52.5)	1,570 (55)						
145	1,260 (46)	1,470 (50.5)	1,450 (52.5)						
150		1,340 (48)	1,340 (50.5)						
155		1,100 (46)	1,230 (48)						
160			1,020 (45)						
Minimum boom angle (°) for indicated length (no load)	e 43.5	44.5	44	53.5	58	60.5			
Maximum boom length (ft.) at 0° boor angle (no load)		70				60			
NOTE: ( ) Room and	ae ara in daa	rooc			۸۵	220_102726			

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

NOTES:

- All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765.
- 2. The 56 ft. extension length may be used for single line lifting service only.
- For main boom lengths less than 128 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 set up. For boom angles not shown, use 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.
- When lifting over the main boom nose with 56 ft. extension erected and inserts, the outriggers must be fully extended and vertical jacks set.

TMS800E



			F	Q						
41.3 - 128 ft.	12,000 lbs	s 1	100% 24' 0"	360°						
					Poun	ds				
Feet	41.3	50	60	**70	Main Boom Length 80	in Feet 90	100	110	120	128
8	++150,000									
9	(73) ++150,000 (71.5)	86,000 (75)								
10	145,000 (70)	86,000 (74)	86,000 (77)							
12	128,500 (67)	86,000 (71.5)	86,000 (75)	41,000						
15	110,000	86,000	86,000	(77) 41,000	39,000					
20	(62) 83,950	(67.5) 83,650	(71.5) 83,450 (66.5)	(74.5) 41,000	(76.5) 39,000	38,800	*38,700	*31,950		
25	(53.5) 56,850	(61) 56,900	56,450	(70) 41,000	(73) 39,000	(75) 38,800	(78) 38,700	(78) 31,950	*25,750	*14,600
30	(44) 40,200	(54) 40,400	(61) 40,350	(65.5) 40,050	(69) 39,000	(71.5) 38,800	(74) 36,150	(75.5) 31,950	(78) 25,750	(78) 14,600
	(31)	(46.5) 30,200	(55.5) 30,350	(61) 30,250	(65) 31,200	(68.5) 32,200	(70.5) 31,350	(72.5) 29.300	(74.5) 25,750	(75.5) 14,600
35		(37) 23,250	(49.5) 23,450	(56.5) 23,550	(61) 24,500	(65) 25,400	(67.5) 26,450	29,300 (70) 25,650	(72) 23,900	(73) 14,600
40		(24)	(42)	(51)	(57)	(61)	(64.5)	(67.5)	(69.5)	(71)
45			18,500 (33.5)	18,650 (45.5)	19,600 (52.5)	20,450 (57.5)	21,300 (61.5)	21,650 (64.5)	21,450 (67)	14,600 (68.5)
50			14,750 (21.5)	14,950 (39)	15,850 (47.5)	16,750 (53.5)	17,500 (58)	17,850 (61.5)	18,200 (64.5)	14,600 (66)
55				12,000 (31.5)	12,900 (42.5)	13,750 (49.5)	14,550 (54.5)	14,900 (58.5)	15,300 (62)	14,600 (64)
60				9,680 (20.5)	10,500 (36.5)	11,350 (45)	12,200 (51)	12,550 (55.5)	12,950 (59)	13,450 (61.5)
65				( /	8,580 (29)	9,400 (40)	10,250 (47)	10,650 (52)	11,050 (56)	11,450 (59)
70					6,950 (18.5)	7,750 (34)	8,620 (42.5)	9,050 (48.5)	9,460 (53)	9,810 (56)
75					(10.0)	6,350	7,230	7,660	8,080	8,430
80						(27.5) 5,140	(38) 6,040	(45) 6,460	(50) 6,880	(53.5) 7,240
85						(17.5)	(32.5) 5,010	(41) 5,430	(47) 5,840	(50.5) 6,220
90							(26) 4,110	(36.5) 4,520	(43) 4,930	(47.5) 5,320
95							(17)	(31) 3,730	(39.5) 4,120	(44) 4,510
								(25) 3,020	(35) 3,410	(40.5) 3,790
100								(16)	(30) 2,770	(36.5) 3,140
105									(24) 2,190	(32) 2,560
110									(16)	(27) 2,040
115										(21) 1,570
120										(10)
	angle (deg.) for ind length (ft.) at 0 deg		-							9
#LMI operating *This capacity is	code. Refer to LMI s based upon maxir angles are in degree	manual for instr num obtainable	ructions.							120
			Lifting Cap		egree Boom Angl					
Boom Angle	41.3	50	60 **70	M 80	Main Boom Length 90	in Feet 100 110	0 120			
0°	20,750 (34.1)	15,150 (42.8)	10,500 (52.8)	6,700 (63)	5,100 (72.8)	3,900 (82.8)	2,900 (92.8)	2,000 (102.8)	1,300 (112.8)	

Note: () Reference radii in feet.
\*\*This boom length is with inner-mid fully extended and outer-mid & fly fully retracted.

GROVE.







-	Ç
%	36
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	24' 0"									
			Pound	s						
	33 ft.	LENGTH		56	ft LENGTH					
Feet	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET				
35	*11,900 (78)									
40	11,900 (75.5)			6,060 (77.5)						
45	11,900 (73.5)	*11,600 (78)		6,060 (76)						
50	11,900 (71.5)	10,600 (75)	*9,700 (78)	6,060 (74.5)						
55	11,900 (70)	9,770 (73)	8,470 (75.5)	6,060 (73)						
60	11,000 (68)	9,020 (71)	7,920 (73.5)	6,060 (71)	*6,040 (78)					
65	10,000 (66)	8,360 (69.5)	7,430 (72)	6,060 (69.5)	5,900 (75)					
70	9,190 (64)	7,780 (67.5)	6,980 (70)	6,060 (68)	5,730 (73.5)	*4,930 (78)				
75	8,460 (62)	7,260 (65.5)	6,580 (68)	6,060 (66)	5,330 (71.5)	4,640 (76)				
80	7,820 (60)	6,790 (63.5)	6,210 (65.5)	6,040 (64.5)	4,980 (70)	4,370 (74)				
85	7,070 (58)	6,370 (61)	5,870 (63.5)	5,570 (63)	4,650 (68)	4,120 (72)				
90	6,120 (55.5)	5,990 (59)	5,560 (61)	5,150 (61)	4,360 (66.5)	3,890 (70)				
95	5,280 (53.5)	5,640 (56.5)	5,280 (59)	4,780 (59.5)	4,090 (64.5)	3,680 (68.5)				
100	4,540 (51)	5,100 (54.5)	5,020 (56.5)	4,440 (57.5)	3,840 (62.5)	3,480 (66.5)				
105	3,870 (48.5)	4,360 (52)	4,750 (54)	4,130 (55.5)	3,610 (60.5)	3,300 (64.5)				
110	3,270 (46)	3,710 (49.5)	4,050 (51)	3,720 (53.5)	3,400 (58.5)	3,130 (62.5)				
115	2,720 (43.5)	3,110 (46.5)	3,420 (48.5)	3,200 (52)	3,200 (56.5)	2,970 (60)				
120	2,220 (40.5)	2,570 (44)	2,840 (45)	2,730 (49.5)	3,020 (54.5)	2,820 (58)				
125	1,760 (37.5)	2,070 (41)		2,290 (47.5)	2,840 (52.5)	2,680 (55.5)				
130	1,340 (34)	1,610 (37.5)		1,900 (45.5)	2,510 (50)	2,540 (53)				
135		1,190 (34)		1,530 (43)	2,070 (48)	2,410 (50.5)				
140				1,190 (40.5)	1,670 (45)	1,940 (47.5)				
145					1,300 (42.5)					
Minimum boom angle (°) for indicated length (no load)	30.5	32.5	43.5	38	39.5	46				
Maximum boom length (ft.) at 0° boom angle		100				90				

(no load)

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

#### NOTES:

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with
- 2. The 33 ft. extension length may be used with single or double part line lifting service. The 56 ft. extension length may be used for single line lifting service only.
- 3. For main boom lengths less than 128 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 set up. For boom angles not shown, use rating of the next lower boom angle.
- 4. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- 5. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 6. Capacities listed are with outriggers properly extended and vertical jacks set only.
- 7. When lifting over the main boom nose with 33 ft. or 56 ft. extension erected, the outriggers must be fully extended or 50% extended (15 ft. 5 in. spread).















20

	Pounds								
	76 ft. (56 ft. l	ENGTH + 1	INSERT)	96 ft. (56 ft. )	LENGTH + 2	INSERTS)			
Feet	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET			
50	4,850 (77.5)								
55	4,850 (76)			3,520 (78)					
60	4,850 (74.5)			3,520 (77)					
65	4,850 (73)	*5,290 (78)		3,520 (75.5)					
70	4,850 (71.5)	4,860 (76.5)		3,520 (74)					
75	4,850 (70)	4,470 (75)		3,520 (72.5)	3,740 (77)				
80	4,730 (68.5)	4,110 (73.5)	4,050 (77)	3,520 (71.5)	3,420 (75.5)				
85	4,310 (67)	3,790 (72)	3,500 (75.5)	3,300 (70)	3,100 (74.5)	*3,250 (78)			
90	3,940 (65.5)	3,500 (70)	3,260 (73.5)	2,970 (68.5)	2,820 (73)	2,720 (76)			
95	3,610 (63.5)	3,240 (68.5)	3,030 (72)	2,660 (67)	2,560 (71.5)	2,490 (74.5)			
100	3,310 (62)	3,000 (67)	2,830 (70.5)	2,390 (65.5)	2,320 (70)	2,270 (73)			
105	3,040 (60.5)	2,770 (65)	2,630 (68.5)	2,140 (64)	2,100 (68.5)	2,070 (71.5)			
110	2,790 (59)	2,570 (63.5)	2,450 (66.5)	1,920 (62.5)	1,900 (67)	1,890 (70)			
115	2,560 (57)	2,370 (61.5)	2,280 (65)	1,710 (61)	1,710 (65.5)	1,710 (68.5)			
120	2,350 (55.5)	2,200 (60)	2,120 (63)	1,520 (59.5)	1,540 (64)	1,550 (66.5)			
125	2,160 (53.5)	2,030 (58)	1,970 (61)	1,350 (58)	1,380 (62.5)	1,390 (65)			
130	1,990 (52)	1,880 (56.5)	1,830 (59)	1,190 (56.5)	1,230 (60.5)	1,250 (63.5)			
135	1,670 (50)	1,730 (54.5)	1,700 (57)	1,040 (55)	1,080 (59)	1,110 (61.5)			
140	1,320 (48)	1,590 (52.5)	1,570 (55)						
145		1,470 (50.5)	1,450 (52.5)						
150		1,170 (48)	1,340 (50.5)						
155			1,100 (48)						
Minimum boom angle (°) for indicated length (no load)	46	46	46.5	53.5	58	60.5			
Maximum boom length (ft.) at 0° boom angle (no load)	1	70			60				

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

A6-829-103787

- 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. The 56 ft. extension length may be used for single line lifting service only.
- For main boom lengths less than 128 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 set up. For boom angles not shown, use 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.
- When lifting over the main boom nose with 56 ft. extension erected and inserts, the outriggers must be fully extended and vertical jacks set.





-			<b>—</b>	Q						
41.3 - 128 ft.	10,000 lbs		100% 24' 0"	360°						
					Poun	ds				
Feet	41.3	50	60	**70	Main Boom Length	in Feet 90	100	110	120	128
8	++150,000	30	00	70	80	90	100	110	120	120
9	(73) ++150,000 (71.5)	86,000								
10	144,500	(75) 86,000	86,000							
12	(70) 128,000	(74) 86,000 (71.5)	(77) 86,000 (75)	41,000						
15	(67) 109,500	(71.5) 86,000 (67.5)	(75) 86,000 (71.5)	(77) 41,000 (74.5)	39,000					
20	(62) 82,700 (53.5)	(67.5) 82,400 (61)	(71.5) 82,200 (66.5)	(74.5) 41,000 (70)	(76.5) 39,000 (73)	38,800 (75)	*38,700 (78)	*31,950 (78)		
25	54,550 (44)	54,600 (54)	54,150	41,000 (65.5)	39,000 (69)	38,800 (71.5)	38,700 (74)	31,950 (75.5)	*25,750	*14,600 (78)
30	38,450 (31)	38,650 (46.5)	(61) 38,600 (55.5)	38,300 (61)	39,000 (65)	38,800 (68.5)	36,150 (70.5)	31,950 (72.5)	(78) 25,750 (74.5)	14,600 (75.5)
35	(01)	28,800 (37)	28,950 (49.5)	28,850 (56.5)	29,800 (61)	30,750 (65)	31,350 (67.5)	29,300 (70)	25,750 _ (72)	14,600 (73)
40		22,100 (24)	22,300 (42)	22,400 (51)	23,300 (57)	24,200 (61)	25,250 (64.5)	25,500 (67.5)	23,900 (69.5)	14,600 (71)
45		(21)	17,500 (33.5)	17,650 (45.5)	18,600 (52.5)	19,450 (57.5)	20,300 (61.5)	20,600 (64.5)	20,900 (67)	14,600 (68.5)
50			13,850 (21.5)	14,050 (39)	14,950 (47.5)	15,850 (53.5)	16,600 (58)	16,950 (61.5)	17,300 (64.5)	14,600 (66)
55			(= ::= /	11,200 (31.5)	12,100 (42.5)	12,950 (49.5)	13,750 (54.5)	14,100 (58.5)	14,500 (62)	14,600 (64)
60				8,960 (20.5)	9,810 (36.5)	10,650 (45)	11,450 (51)	11,850 (55.5)	12,250 (59)	12,700 (61.5)
65				( )	7,930 (29)	8,740 (40)	9,610 (47)	10,000 (52)	10,400 (56)	10,800 (59)
70					6,350 (18.5)	7,140 (34)	8,020 (42.5)	8,450 (48.5)	8,850 (53)	9,210 (56)
75					,	5,790 (27.5)	6,670 (38)	7,100 (45)	7,520 (50)	7,870 (53.5)
80						4,620 (17.5)	5,520 (32.5)	5,950 (41)	6,360 (47)	6,720 (50.5)
85							4,520 (26)	4,940 (36.5)	5,350 (43)	5,730 (47.5)
90							3,650 (17)	4,070 (31)	4,470 (39.5)	4,870 (44)
95								3,300 (25)	3,700 (35)	4,080 (40.5)
100								2,610 (16)	3,000 (30)	3,380 (36.5)
105									2,390 (24)	2,760 (32)
110									1,830 (16)	2,200 (27)
115										1,700 (21)
120										1,240 (10)
	angle (deg.) for indic length (ft.) at 0 deg.	- ,	,							9 120
LMI operating This capacity is lote: ( ) Boom a	code. Refer to LMI not be based upon maximangles are in degree required to lift this of	manual for instr num obtainable es.	uctions. boom angle.	Refer to Operator	r's & Safety Handb	ook for reeving d	liag ram.			
		. , , ,		acities at Zero D	egree Boom Ang	le	Ť			
Boom Angle	41.3	50	60 **70	80	Main Boom Length 90	in Feet 100 110	120			
0°	20,750 (34.1)	15,150 (42.8)	10,500 (52.8)	6,700 (63)	5,100 (72.8)	3,900 (82.8)	2,900 (92.8)	2,000 (102.8)	1,300 (112.8)	

Note: ( ) Reference radii in feet.
\*\*This boom length is with inner-mid fully extended and outer-mid & fly fully retracted.











	Pounds								
	33	ft. LENGTH		56	ft. LENGTH				
Feet	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET			
35	*11,900 (78)								
40	11,900 (75.5)			6,060 (77.5)					
45	11,900 (73.5)	*11,600 (78)		6,060 (76)					
50	11,900 (71.5)	10,600 (75)	*9,700 (78)	6,060 (74.5)					
55	11,900 (70)	9,770 (73)	8,470 (75.5)	6,060 (73)					
60	11,000 (68)	9,020 (71)	7,920 (73.5)	6,060 (71)	*6,040 (78)				
65	10,000 (66)	8,360 (69.5)	7,430 (72)	6,060 (69.5)	5,900 (75)				
70	9,190 (64)	7,780 (67.5)	6,980 (70)	6,060 (68)	5,730 (73.5)	*4,930 (78)			
75	8,460 (62)	7,260 (65.5)	6,580 (68)	6,060 (66)	5,330 (71.5)	4,640 (76)			
80	7,630 (60)	6,790 (63.5)	6,210 (65.5)	6,040 (64.5)	4,980 (70)	4,370 (74)			
85	6,590 (58)	6,370 (61)	5,870 (63.5)	5,570 (63)	4,650 (68)	4,120 (72)			
90	5,670 (55.5)	5,990 (59)	5,560 (61)	5,150 (61)	4,360 (66.5)	3,890 (70)			
95	4,850 (53.5)	5,480 (56.5)	5,280 (59)	4,780 (59.5)	4,090 (64.5)	3,680 (68.5)			
100	4,130 (51)	4,690 (54.5)	5,020 (56.5)	4,440 (57.5)	3,840 (62.5)	3,480 (66.5)			
105	3,480 (48.5)	3,980 (52)	4,360 (54)	3,910 (55.5)	3,610 (60.5)	3,300 (64.5)			
110	2,900 (46)	3,340 (49.5)	3,690 (51)	3,350 (53.5)	3,400 (58.5)	3,130 (62.5)			
115	2,370 (43.5)	2,760 (46.5)	3,070 (48.5)	2,850 (52)	3,200 (56.5)	2,970 (60)			
120	1,890 (40.5)	2,240 (44)	2,510 (45)	2,390 (49.5)	3,020 (54.5)	2,820 (58)			
125	1,450 (37.5)	1,760 (41)		1,970 (47.5)	2,670 (52.5)	2,680 (55.5)			
130	1,040 (34)	1,310 (37.5)		1,590 (45.5)	2,210 (50)	2,540 (53)			
135				1,240 (43)	1,780 (48)	2,110 (50.5)			
140					1,390 (45)	1,660 (47.5)			
145					1,030 (42.5)				
Minimum boom angle (°) for indicated length (no load)		34	43.5	40.5	41.5	46			
Maximum boom lengtl (ft.) at 0° boom angle (no load) NOTE: ( ) Boom angles		100				80			

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with
- 2. The 33 ft. extension length may be used with single or double part line lifting service. The 56 ft. extension length may be used for single line lifting service only.
- 3. For main boom lengths less than 128 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 set up. For boom angles not shown, use rating of the next lower boom angle.
- 4. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- 5. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 6. Capacities listed are with outriggers properly extended and vertical jacks set only.
- 7. When lifting over the main boom nose with 33 ft. or 56 ft. extension erected, the outriggers must be fully extended or 50% extended (15 ft. 5 in. spread).





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

ft.	20 - 40 ft.	10,000 lbs

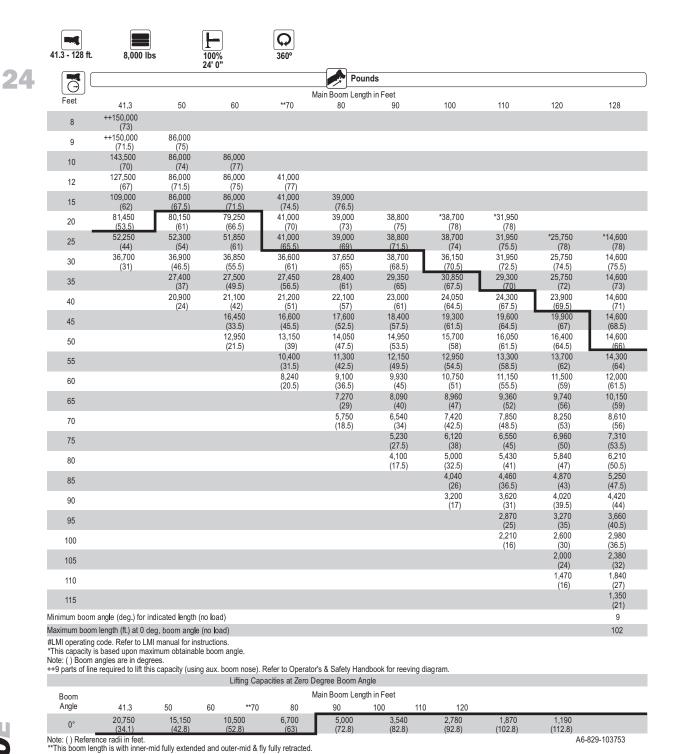
41.3 - 128 ft.	56 ft.	20 - 40 ft.	10,00	0 lbs	100% 24' 0"	360°
(			Pound	s		
	76 ft. (56 ft. L	ENGTH + 1	INSERT)	96 ft. (56 ft.	LENGTH + 2	NSERTS)
Feet	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
50	4,850 (77.5)					
55	4,850 (76)			3,520 (78)		
60	4,850 (74.5)			3,520 (77)		
65	4,850 (73)	*5,290 (78)		3,520 (75.5)		
70	4,850 (71.5)	4,860 (76.5)		3,520 (74)		
75	4,850 (70)	4,470 (75)		3,520 (72.5)	3,740 (77)	
80	4,730 (68.5)	4,110 (73.5)	4,050 (77)	3,520 (71.5)	3,420 (75.5)	
85	4,310 (67)	3,790 (72)	3,500 (75.5)	3,300 (70)	3,100 (74.5)	*3,250 (78)
90	3,940 (65.5)	3,500 (70)	3,260 (73.5)	2,970 (68.5)	2,820 (73)	2,720 (76)
95	3,610 (63.5)	3,240 (68.5)	3,030 (72)	2,660 (67)	2,560 (71.5)	2,490 (74.5)
100	3,310 (62)	3,000 (67)	2,830 (70.5)	2,390 (65.5)	2,320 (70)	2,270 (73)
105	3,040 (60.5)	2,770 (65)	2,630 (68.5)	2,140 (64)	2,100 (68.5)	2,070 (71.5)
110	2,790 (59)	2,570 (63.5)	2,450 (66.5)	1,920 (62.5)	1,900	1,890 (70)
115	2,560 (57)	2,370 (61.5)	2,280 (65)	1,710 (61)	1,710 (65.5)	1,710 (68.5)
120	2,350 (55.5)	2,200	2,120 (63)	1,520 (59.5)	1,540 (64)	1,550 (66.5)
125	2,150 (53.5)	2,030 (58)	1,970 (61)	1,350 (58)	1,380 (62.5)	1,390 (65)
130	1,750 (52)	1,880 (56.5)	1,830 (59)	1,190 (56.5)	1,230 (60.5)	1,250 (63.5)
135	1,380 (50)	1,730 (54.5)	1,700 (57)	1,040 (55)	1,080 (59)	1,110 (61.5)
140	1,040 (48)	1,590 (52.5)	1,570 (55)			
145	, ,	1,240 (50.5)	1,450 (52.5)			
150			1,200 (50.5)			
Minimum boom an (°) for indicated length (no load)	46.5	48	48	54	58	60.5
Maximum boom length (ft.) at 0° bo angle (no load)		70			60	20.402700

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

NOTES:

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with
- 2. The 56 ft. extension length may be used for single line lifting service only.
- 3. For main boom lengths less than 128 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 set up. For boom angles not shown, use rating of the next lower boom angle.
- 4. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- 5. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 6. Capacities listed are with outriggers properly extended and vertical jacks set only.
- 7. When lifting over the main boom nose with 56 ft. extension erected and inserts, the outriggers must be fully extended and vertical jacks set.





IMS 800E









24' 0"									
		Pounds	i						
33	ft. LENGTH		56						
0°	20°	40°	0°	20°	40°				
OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET				
*11,900 (78)									
11,900 (75.5)			6,060 (77.5)						
11,900 (73.5)	*11,600 (78)		6,060 (76)						
11,900 (71.5)	10,600 (75)	*9,700 (78)	6,060 (74.5)						
11,900 (70)	9,770 (73)	8,470 (75.5)	6,060 (73)						
11,000	9,020	7,920	6,060	*6,040					
(68)	(71)	(73.5)	(71)	(78)					
10,000	8,360	7,430	6,060	5,900					
(66)	(69.5)	(72)	(69.5)	(75)					
9,190	7,780	6,980	6,060	5,730	*4,930				
(64)	(67.5)	(70)	(68)	(73.5)	(78)				
8,280	7,260	6,580	6,060	5,330	4,640				
(62)	(65.5)	(68)	(66)	(71.5)	(76)				
7,120	6,790	6,210	6,040	4,980	4,370				
(60)	(63.5)	(65.5)	(64.5)	(70)	(74)				
6,100	6,370	5,870	5,570	4,650	4,120				
(58)	(61)	(63.5)	(63)	(68)	(72)				
5,210	5,920	5,560	5,150	4,360	3,890				
(55.5)	(59)	(61)	(61)	(66.5)	(70)				
4,430	5,050	5,280	4,780	4,090	3,680				
(53.5)	(56.5)	(59)	(59.5)	(64.5)	(68.5)				
3,730	4,290	4,720	4,120	3,840	3,480				
(51)	(54.5)	(56.5)	(57.5)	(62.5)	(66.5)				
3,100	3,600	3,980	3,530	3,610	3,300				
(48.5)	(52)	(54)	(55.5)	(60.5)	(64.5)				
2,540	2,980	3,320	2,990	3,400	3,130				
(46)	(49.5)	(51)	(53.5)	(58.5)	(62.5)				
2,030	2,420	2,720	2,510	3,200	2,970				
(43.5)	(46.5)	(48.5)	(52)	(56.5)	(60)				
1,560	1,910	2,180	2,060	2,840	2,820				
(40.5)	(44)	(45)	(49.5)	(54.5)	(58)				
1,130	1,440		1,660	2,350	2,680				
(37.5)	(41)		(47.5)	(52.5)	(55.5)				
	1,010 (37.5)		1,290 (45.5)	1,900 (50)	2,310 (53)				
				1,490 (48)	1,820 (50.5)				
				1,110 (45)	1,380 (47.5)				
e th 36.5	36.5	43.5	43	44	46				
th e	90			80	20.103775				
	0° OFFSET *11,900 (78) 11,900 (73.5) 11,900 (73.5) 11,900 (70) 11,900 (70) 11,900 (60) 10,000 (68) 10,000 (64) 8,280 (62) 7,120 (60) 6,100 (55.5) 4,430 (53.5) 3,730 (51) 3,100 (48.5) 2,540 (46) 2,030 (43.5) 1,560 (40.5) 1,130 (37.5)	OFFSET         OFFSET           *11,900 (78)         *11,600 (75.5)           11,900 (75.5)         *11,600 (78)           11,900 (73.5)         *11,600 (78)           11,900 (71.5)         *11,600 (75)           11,900 (71.5)         *11,600 (75)           11,900 (68)         *7,200 (67)           (68)         *7,260 (67.5)           8,280 (62)         *6,790 (60)         *6,370 (63.5)           6,100 (55.5)         *6,790 (61)         *6,370 (61)           5,210 (55.5)         *5,920 (53.5)         *5,920 (55.5)           (53.3)         *4,290 (51)         *5,920 (51)           (53.5)         *3,100 (48.5)         *3,600 (48.5)           (48)         *2,930 (46.5)         *2,420 (43.5)           (43.5)         *4,290 (40.5)         *1,130 (40.5)           *4,430         *2,420 (43.5)         *4,290 (40.5)           *1,130 (40.5)         *4,430 (40.5)         *1,440 (37.5)           ***         ***         ***           ***         ***         ***           ***         ***         ***           ***         ***         ***           ***         ***         ***           ***         *** <t< td=""><td>33 ft. LENGTH  0° 20° 40° OFFSET OFFSET  *11,900 (78)  11,900 (73.5) (78)  11,900 (73.5) (78)  11,900 (73.5) (75)  11,900 (75.5)  11,900 (75.5)  11,900 (75.5)  11,900 (75.5)  11,900 (75.5)  11,900 (75.5)  11,900 (75.5)  11,900 (77.5) (78)  11,900 (77.5) (78)  11,900 (77.5) (78)  11,900 (80,00 (73.5)  10,000 (80,00 (74.30)  (66) (69.5) (70)  10,000 (80,00 (74.30)  (66) (67.5) (70)  8,280 (65.5) (68)  (61) (63.5) (65.5)  6,100 (63.5) (65.5)  6,100 (63.5) (65.5)  6,100 (63.5) (65.5)  6,100 (63.5) (65.5)  5,210 (50,00 (60)  (60)  (</td><td>  Pounds   Sas</td><td>  Pounds   33 ft. LENGTH   56 ft LENGTH    </td></t<>	33 ft. LENGTH  0° 20° 40° OFFSET OFFSET  *11,900 (78)  11,900 (73.5) (78)  11,900 (73.5) (78)  11,900 (73.5) (75)  11,900 (75.5)  11,900 (75.5)  11,900 (75.5)  11,900 (75.5)  11,900 (75.5)  11,900 (75.5)  11,900 (75.5)  11,900 (77.5) (78)  11,900 (77.5) (78)  11,900 (77.5) (78)  11,900 (80,00 (73.5)  10,000 (80,00 (74.30)  (66) (69.5) (70)  10,000 (80,00 (74.30)  (66) (67.5) (70)  8,280 (65.5) (68)  (61) (63.5) (65.5)  6,100 (63.5) (65.5)  6,100 (63.5) (65.5)  6,100 (63.5) (65.5)  6,100 (63.5) (65.5)  5,210 (50,00 (60)  (60)  (	Pounds   Sas	Pounds   33 ft. LENGTH   56 ft LENGTH				

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

1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with

NOTES:

- 2. The 33 ft. extension length may be used with single or double part line lifting service. The 56 ft. extension length may be used for single line lifting service only.
- 3. For main boom lengths less than 128 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 set up. For boom angles not shown, use rating of th next lower boom angle.
- 4. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- 5. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 6. Capacities listed are with outriggers properly extended and vertical jacks set only.
- 7. When lifting over the main boom nose with 33 ft. or 56 ft. extension erected, the outriggers must be fully extended or 50% extended (15 ft. 5 in. spread).















26

	Pounds								
7	'6 ft. (56 ft. L	ENGTH + 1	INSERT)	96 ft. (56 ft.	LENGTH + 2	(INSERTS)			
Feet	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET			
50	4,850 (77.5)								
55	4,850 (76)			3,520 (78)					
60	4,850 (74.5)			3,520 (77)					
65	4,850 (73)	*5,290 (78)		3,520 (75.5)					
70	4,850 (71.5)	4,860 (76.5)		3,520 (74)					
75	4,850 (70)	4,470 (75)		3,520 (72.5)	3,740 (77)				
80	4,730 (68.5)	4,110 (73.5)	4,050 (77)	3,520 (71.5)	3,420 (75.5)				
85	4,310 (67)	3,790 (72)	3,500 (75.5)	3,300 (70)	3,100 (74.5)	*3,250 (78)			
90	3,940 (65.5)	3,500 (70)	3,260 (73.5)	2,970 (68.5)	2,820 (73)	2,720 (76)			
95	3,610 (63.5)	3,240 (68.5)	3,030 (72)	2,660 (67)	2,560 (71.5)	2,490 (74.5)			
100	3,310 (62)	3,000 (67)	2,830 (70.5)	2,390 (65.5)	2,320 (70)	2,270 (73)			
105	3,040 (60.5)	2,770 (65)	2,630 (68.5)	2,140 (64)	2,100 (68.5)	2,070 (71.5)			
110	2,790 (59)	2,570 (63.5)	2,450 (66.5)	1,920 (62.5)	1,900 (67)	1,890 (70)			
115	2,560 (57)	2,370 (61.5)	2,280 (65)	1,710 (61)	1,710 (65.5)	1,710 (68.5)			
120	2,250 (55.5)	2,200 (60)	2,120 (63)	1,520 (59.5)	1,540 (64)	1,550 (66.5)			
125	1,840 (53.5)	2,030 (58)	1,970 (61)	1,350 (58)	1,380 (62.5)	1,390 (65)			
130	1,460 (52)	1,880 (56.5)	1,830 (59)	1,190 (56.5)	1,230 (60.5)	1,250 (63.5)			
135	1,110 (50)	1,700 (54.5)	1,700 (57)		1,080 (59)	1,110 (61.5)			
140		1,320 (52.5)	1,570 (55)						
145			1,300 (52.5)						
Minimum boom angle (°) for indicated length (no load)	48.5	50.5	50.5	55	58	60.5			
Maximum boom length (ft.) at 0° boom angle (no load)		60			60				
NOTE: ( ) Boom angle #LMI operating code. *This capacity is base	Refer to LIV	Il manual for		nstructions.	A6-8	29-103789			

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with
- 2. The 56 ft. extension length may be used for single line lifting service only.
- 3. For main boom lengths less than 128 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 set up. For boom angles not shown, use rating of the next lower boom angle.
- 4. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- 5. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 6. Capacities listed are with outriggers properly extended and vertical jacks set only.
- 7. When lifting over the main boom nose with 56 ft. extension erected and inserts, the outriggers must be fully extended and vertical jacks set.



NOTES:

41.3 - 128 ft.	4.000 lbs	1	<b>—</b>	(A)						
	.,000 1.00		4' 0"		A David					
					Pour					
Feet	41.3	50	60	**70	Main Boom Leng 80	th in Feet 90	100	110	120	128
8	++150,000 (73)									
9	++150,000 (71.5)	86,000 (75)								
10	142,500 (70)	86,000 (74)	86,000 (77)							
12	126,500 (67)	86,000 (71.5)	86,000 (75)	41,000 (77)						
15	108,000 (62)	86,000 (67.5)	86,000 (71.5)	41,000 (74.5)	39,000 (76.5)					
20	75,150 (53.5)	73,500 (61)	72,600 (66.5)	41,000 (70)	39,000 (73)	38,800 (75)	*38,700 (78)	*31,950 (78)		
25	47,700 (44)	47,750 (54)	47,300 (61)	41,000 (65.5)	39,000 (69)	38,800 (71.5)	38,700 (74)	31,950 (75.5)	*25,750 (78)	*14,600 (78)
30	33,200 (31)	33,400 (46.5)	33,400 (55.5)	33,100 (61)	34,150 (65)	35,250 (68.5)	36,150 (70.5)	31,950 (72.5)	25,750 (74.5)	14,600 (75.5)
35	(/	24,550 (37)	24,700 (49.5)	24,650 (56.5)	25,550 (61)	26,550 (65)	28,050 (67.5)	28,100 (70)	25,750 (72)	14,600 (73)
40		18,550 (24)	18,750 (42)	18,850 (51)	19,750 (57)	20,650 (61)	21,700 (64.5)	21,950 (67.5)	22,150 (69.5)	14,600 (71)
45		(21)	14,450 (33.5)	14,550 (45.5)	15,550 (52.5)	16,400 (57.5)	17,250 (61.5)	17,550 (64.5)	17,850 (67)	14,600 (68.5)
50			11,150 (21.5)	11,350 (39)	12,250 (47.5)	13,150 (53.5)	13,900 (58)	14,250 (61.5)	14,600 (64.5)	14,600
55			(21.5)	8,830 (31.5)	9,720 (42.5)	10,550 (49.5)	11,350 (54.5)	11,700 (58.5)	12,100 (62)	12,700 (64)
60				6,800 (20.5)	7,650 (36.5)	8,490 (45)	9,320	9,710 (55.5)	10,050 (59)	10,550
65				(20.5)	5,960	6,770	(51) 7,660	8,040	8,430	(61.5) 8,840
70					(29) 4,540	(40) 5,340	(47) 6,220	(52) 6,650	(56) 7,050	(59) 7,400
75					(18.5)	(34) 4,120	(42.5) 5,010	(48.5) 5,440	(53) 5,850	(56) 6,200
80						(27.5) 3,070	(38) 3,970	(45) 4,400	(50) 4,810	(53.5) 5,170
85						(17.5)	(32.5)	(41) 3,500	(47) 3,910	(50.5) 4,280
90							(26) 2,300	(36.5)	(43) 3,110	(47.5) 3,510
95							(17)	(31) 2,020	(39.5)	(44) 2,810
100								(25) 1,400	(35) 1,790	(40.5) 2,170
105								(16)	(30) 1,240	(36.5) 1,580
110									(24)	(32) 1,050
	m angle (deg.) for i	indicated leng	th (no load)						23	(27) 26
Maximum boo #LMI operating *This capacity Note: ( ) Boom	m length (ft.) at 0 d g code. Refer to Ll is based upon ma n angles are in dec	leg. boom and MI manual for aximum obtain grees.	gle (no load) instructions. able boom angle		0					110
++9 parts of li	ne required to lift th	us capacity (u			o Degree Boom		reeving diagra	m.		
Boom					Main Boom Leng					
Angle	41.3 20.750	50 15,150	9,680	70 80 5,760	90 3,850	100 2,550	110 1,900	1,090		
0°	(34.1)	(42.8)	(52.8)	(63)	(72.8)	(82.8)	(92.8)	(102.8)	۸6-	829-103754

Note: ( ) Reference radii in feet.

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

TMS800











28

			Pound	s		
	3	3 ft. LENGT	Н	5	66 ft. LENGT	TH
Feet	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
35	*11,900 (78)					
40	11,900 (75.5)			6,060 (77.5)		
45	11,900 (73.5)	*11,600 (78)		6,060 (76)		
50	11,900 (71.5)	10,600 (75)	*9,700 (78)	6,060 (74.5)		
55	11,900 (70)	9,770 (73)	8,470 (75.5)	6,060 (73)		
60	11,000 (68)	9,020 (71)	7,920 (73.5)	6,060 (71)	*6,040 (78)	
65	9,930 (66)	8,360 (69.5)	7,430 (72)	6,060 (69.5)	5,900 (75)	
70	8,440 (64)	7,780 (67.5)	6,980 (70)	6,060 (68)	5,730 (73.5)	*4,930 (78)
75	7,170 (62)	7,260 (65.5)	6,580 (68)	6,060 (66)	5,330 (71.5)	4,640 (76)
80	6,080 (60)	6,790 (63.5)	6,210 (65.5)	6,040 (64.5)	4,980 (70)	4,370 (74)
85	5,140 (58)	5,870 (61)	5,870 (63.5)	5,570 (63)	4,650 (68)	4,120 (72)
90	4,310 (55.5)	4,970 (59)	5,540 (61)	4,900 (61)	4,360 (66.5)	3,890 (70)
95	3,570 (53.5)	4,180 (56.5)	4,680 (59)	4,160 (59.5)	4,090 (64.5)	3,680 (68.5)
100	2,920 (51)	3,480 (54.5)	3,910 (56.5)	3,470 (57.5)	3,840 (62.5)	3,480 (66.5)
105	2,340 (48.5)	2,830 (52)	3,220 (54)	2,850 (55.5)	3,610 (60.5)	3,300 (64.5)
110	1,810 (46)	2,250 (49.5)	2,590 (51)	2,300 (53.5)	3,180 (58.5)	3,130 (62.5)
115	1,330 (43.5)	1,720 (46.5)	2,030 (48.5)	1,820 (52)	2,640 (56.5)	2,970 (60)
120		1,240 (44)	1,520 (45)	1,400 (49.5)	2,150 (54.5)	2,740 (58)
125				1,020 (47.5)	1,710 (52.5)	2,200 (55.5)
130					1,300 (50)	1,700 (53)
135					, ,	1,240 (50.5)
Minimum boom angle (°) for indicated length (no load)		42.5	43.5	46.5	48	49
Maximum boom length (ft.) at 0° boom angle (no load)	ı	80			70	

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

### NOTES:

- All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAF L765
- The 33 ft. extension length may be used with single or double part line lifting service. The 56 ft. extension length may be used for single line lifting service only.
- For main boom lengths less than 128 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 set up. For boom angles not shown, use rating of th 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.
- When lifting over the main boom nose with 33 ft. or 56 ft. extension erected, the outriggers must be fully extended or 50% extended (15 ft. 5 in. spread).















Q
360°

		24 0									
	Pounds										
	76 ft. (56 ft. I	LENGTH + 1	INSERT)	96 ft. (56 ft.	LENGTH + :	NSERTS)					
Feet	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET					
50	4,850 (77.5)										
55	4,850 (76)			3,520 (78)							
60	4,850 (74.5)			3,520 (77)							
65	4,850 (73)	*5,290 (78)		3,520 (75.5)							
70	4,850 (71.5)	4,860 (76.5)		3,520 (74)							
75	4,850 (70)	4,470 (75)		3,520 (72.5)	3,740 (77)						
80	4,730 (68.5)	4,110 (73.5)	4,050 (77)	3,520 (71.5)	3,420 (75.5)						
85	4,310 (67)	3,790 (72)	3,500 (75.5)	3,300 (70)	3,100 (74.5)	*3,250 (78)					
90	3,940 (65.5)	3,500 (70)	3,260 (73.5)	2,970 (68.5)	2,820 (73)	2,720 (76)					
95	3,610 (63.5)	3,240 (68.5)	3,030 (72)	2,660 (67)	2,560 (71.5)	2,490 (74.5)					
100	3,310 (62)	3,000 (67)	2,830 (70.5)	2,390 (65.5)	2,320 (70)	2,270 (73)					
105	3,040 (60.5)	2,770 (65)	2,630 (68.5)	2,140 (64)	2,100 (68.5)	2,070 (71.5)					
110	2,580 (59)	2,570 (63.5)	2,450 (66.5)	1,920 (62.5)	1,900 (67)	1,890 (70)					
115	2,070 (57)	2,370 (61.5)	2,280 (65)	1,710 (61)	1,710 (65.5)	1,710 (68.5)					
120	1,600 (55.5)	2,200 (60)	2,120 (63)	1,320 (59.5)	1,540 (64)	1,550 (66.5)					
125	1,180 (53.5)	1,970 (58)	1,970 (61)		1,380 (62.5)	1,390 (65)					
130		1,510 (56.5)	1,830 (59)		1,230 (60.5)	1,250 (63.5)					
135		1,090 (54.5)	1,520 (57)			1,110 (61.5)					
140			1,130 (55)								
Minimum boom angle (°) for indicated length (no load)	e 52.5	53	53.5	58	59	60.5					
Maximum boom length (ft.) at 0° boom	n	60			50						

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

A6-829-103790

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with
- 2. The 56 ft. extension length may be used for single line lifting service only.
- 3. For main boom lengths less than 128 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 set up. For boom angles not shown, use rating of the next lower boom angle.
- 4. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- 5. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 6. Capacities listed are with outriggers properly extended and vertical jacks set only.
- 7. When lifting over the main boom nose with 56 ft. extension erected and inserts, the outriggers must be fully extended and vertical jacks set.



30

41.3 - 128 ft.	0	10	00%	(A) 360°						
			' 0"		Pour	ds				
$\Theta$					Main Boom Lengt					
Feet	41.3 ++150,000	50	60	**70	80	90	100	110	120	128
8	(73)									
9	++150,000 (71.5)	86,000 (75)								
10	141,500 (70)	86,000 (74)	86,000 (77)							
12	125,500 (67)	86,000 (71.5)	86,000 (75)	41,000 (77)						
15	105,500 (62)	86,000 (67.5)	86,000 (71.5)	41,000 (74.5)	39,000 (76.5)					
20	68,500 (53.5)	66,950 (61)	66,050 (66.5)	41,000 (70)	39,000 (73)	38,800 (75)	*38,700 (78)	*31,950 (78)		
25	43,100 (44)	43,150	42,700 (61)	41,000 (65.5)	39,000 (69)	38,800 (71.5)	38,700 (74)	31,950	*25,750 (78)	*14,600 (78)
30	29,700	(54) 29,950	29,900	29,600	30,650	31,750	34,200	(75.5) 31,950	25,750	14,600
35	(31)	(46.5) 21,750	(55.5) 21,850	(61) 21,800	(65) 22,750	(68.5) 23,700	(70.5) 25,200	(72.5) 25,550	(74.5) 25,750	(75.5) 14,600
40		(37) 16,150	(49.5) 16,350	(56.5) 16,450	(61) 17,400	(65) 18,250	(67.5) 19,350	(70) 19,800	(72) 20,250	(73) 14,600
		(24)	(42) 12,400	(51) 12,550	(57) 13,500	(61) 14,350	(64.5) 15,200	(67.5) 15,650	(69.5) 16,150	(71) 14,600
45			(33.5) 9.390	(45.5) 9.570	(52.5) 10.450	(57.5) 11,350	(61.5) 12.100	(64.5) 12,600	(67) 13,100	(68.5) 13,600
50			(21.5)	(39)	(47.5)	(53.5)	(58)	(61.5)	(64.5)	(66)
55				7,230 (31.5)	8,120 (42.5)	8,990 (49.5)	9,770 (54.5)	10,200 (58.5)	10,700 (62)	11,100 (64)
60				5,360 (20.5)	6,210 (36.5)	7,050 (45)	7,880 (51)	8,330 (55.5)	8,790 (59)	9,130 (61.5)
65					4,640 (29)	5,460 (40)	6,340 (47)	6,780 (52)	7,210 (56)	7,520 (59)
70					3,330 (18.5)	4,130 (34)	5,020 (42.5)	5,480 (48.5)	5,900 (53)	6,200 (56)
75					, ,	3,000 (27.5)	3,900 (38)	4,340 (45)	4,760 (50)	5,080 (53.5)
80						2,030 (17.5)	2,940	3,370	3,780	4,110
85						(17.5)	(32.5) 2,110	(41) 2,520	(47) 2,920	(50.5) 3,260
90							(26) 1,390	(36.5) 1,780	(43) 2,170	(47.5) 2,510
							(17)	(31) 1,130	(39.5) 1,500	(44) 1,820
95								(25)	(35)	(40.5) 1,220
100		and and and the models for	- IIV					24	29	(36.5)
		ndicated length (n leg. boom angle (						24	100	35
#LMI operating *This capacity i Note: ( ) Boom	code. Refer to LNs based upon ma angles are in deg	MI manual for instr iximum obtainable	ructions. boom angle.	). Refer to Opera	ator's & Safetv Ha	ndbook for reevin	a diagram.			
					Degree Boom Ar		Jg			
Boom Angle	44.0	50	60 **70		Main Boom Lengt					
0°	41.3 20,750	13,750	8,000	4,390	90 2,690	1,550	1,030			
Note: ( ) Refere	(34.1) nce radii in feet.	(42.8)	(52.8)	(63)	(72.8)	(82.8)	(92.8)		A6-	829-103755
ווווטטע פוווו	gui is willi lillier-f	mid fully extended	and outer-illu &	ny runy retracted						











			24'	0"		
			Pounds	3		
	33 ft	. LENGTH		56	ft LENGTH	
Feet	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
35	*11,900 (78)					
40	11,900 (75.5)			6,060 (77.5)		
45	11,900 (73.5)	*11,600 (78)		6,060 (76)		
50	11,900 (71.5)	10,600 (75)	*9,700 (78)	6,060 (74.5)		
55	11,900 (70)	9,770 (73)	8,470 (75.5)	6,060 (73)		
60	10,050 (68)	9,020 (71)	7,920 (73.5)	6,060 (71)	*6,040 (78)	
65	8,410 (66)	8,360 (69.5)	7,430 (72)	6,060 (69.5)	5,900 (75)	
70	7,010 (64)	7,640 (67.5)	6,980 (70)	6,060 (68)	5,730 (73.5)	*4,930 (78)
75	5,840 (62)	6,460 (65.5)	6,580 (68)	6,030 (66)	5,330 (71.5)	4,640 (76)
80	4,840 (60)	5,440 (63.5)	6,070 (65.5)	5,110 (64.5)	4,980 (70)	4,370 (74)
85	3,980 (58)	4,560 (61)	5,120 (63.5)	4,310 (63)	4,650 (68)	4,120 (72)
90	3,230 (55.5)	3,780 (59)	4,290 (61)	3,610 (61)	4,360 (66.5)	3,890 (70)
95	2,570 (53.5)	3,100 (56.5)	3,560 (59)	3,000 (59.5)	4,000 (64.5)	3,680 (68.5)
100	1,990 (51)	2,490 (54.5)	2,910 (56.5)	2,440 (57.5)	3,380 (62.5)	3,480 (66.5)
105	1,460 (48.5)	1,940 (52)	2,320 (54)	1,950 (55.5)	2,810 (60.5)	3,300 (64.5)
110		1,440 (49.5)	1,740 (51)	1,510 (53.5)	2,310 (58.5)	2,920 (62.5)
115			1,220 (48.5)	1,100 (52)	1,850 (56.5)	2,380 (60)
120					1,430 (54.5)	1,900 (58)
125					1,040 (52.5)	1,460 (55.5)
130						1,020 (53)
Minimum boom angle (°) for indicated lengt (no load)		46.5	47.5	51	51.5	52
Maximum boom leng (ft.) at 0° boom angle (no load)		70			60	
NOTE: ( ) Boom angle #LMI operating code. *This capacity is base	Refer to LM	I manual for		nstructions.	A6-8	329-103777

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with
- 2. The 33 ft. extension length may be used with single or double part line lifting service. The 56 ft. extension length may be used for single line lifting service only.
- 3. For main boom lengths less than 128 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 set up. For boom angles not shown, use rating of th next lower boom angle.
- 4. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- 5. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 6. Capacities listed are with outriggers properly extended and vertical jacks set only.
- 7. When lifting over the main boom nose with 33 ft. or 56 ft. extension erected, the outriggers must be fully extended or 50% extended (15 ft. 5 in. spread).















			Pounds	8		
	76 ft. (56 ft. L	ENGTH + 1 I	NSERT)	96 ft. (56 ft.	LENGTH + 2	NSERTS)
Feet	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
50	4,850 (77.5)					
55	4,850 (76)			3,520 (78)		
60	4,850 (74.5)			3,520 (77)		
65	4,850 (73)	*5,290 (78)		3,520 (75.5)		
70	4,850 (71.5)	4,860 (76.5)		3,520 (74)		
75	4,850 (70)	4,470 (75)		3,520 (72.5)	3,740 (77)	
80	4,730 (68.5)	4,110 (73.5)	4,050 (77)	3,520 (71.5)	3,420 (75.5)	
85	4,310 (67)	3,790 _ (72)	3,500 (75.5)	3,300 (70)	3,100 (74.5)	*3,250 (78)
90	3,700 (65.5)	3,500 (70)	3,260 (73.5)	2,970 (68.5)	2,820 (73)	2,720 (76)
95	3,100 (63.5)	3,240 (68.5)	3,030 (72)	2,660 (67)	2,560 (71.5)	2,490 (74.5)
100	2,560 (62)	3,000 (67)	2,830 (70.5)	2,390 (65.5)	2,320 (70)	2,270 (73)
105	2,080 (60.5)	2,770 (65)	2,630 (68.5)	1,920 (64)	2,100 (68.5)	2,070 (71.5)
110	1,640 (59)	2,410 (63.5)	2,450 (66.5)	1,460 (62.5)	1,900 (67)	1,890 (70)
115	1,240 (57)	1,980 (61.5)	2,280 (65)	1,030 (61)	1,710 (65.5)	1,710 (68.5)
120	( )	1,580	2,050 (63)		1,490 (64)	1,550 (66.5)
125		1,210 (58)	1,640 (61)		1,080 (62.5)	1,390 (65)
130		(,	1,260 (59)		( )	1,250 (63.5)
Minimum boom angle (°) for indicated length (no load)	9 55.5	56.5	57	60	61.5	61.5
Maximum boom length (ft.) at 0° boom angle (no load) NOTE: ( ) Boom angl		60			50	

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with
- 2. The 56 ft. extension length may be used for single line lifting service only.
- 3. For main boom lengths less than 128 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 set up. For boom angles not shown, use rating of the next lower boom angle.
- 4. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- 5. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 6. Capacities listed are with outriggers properly extended and vertical jacks set only.
- 7. When lifting over the main boom nose with 56 ft. extension erected and inserts, the outriggers must be fully extended and vertical jacks set.



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

# load handling

### **Weight Reductions for Load Handling Devices**

33 ft56 ft. Folding Boom Extension	
*33 ft. Extension (Erected)	5590 lb.
*56 ft. Extension (Erected)	13060 lb.
*76 ft. (1 insert Erected)	13670 lb.
*96 ft. (2 inserts Erected)	20680 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 canacity.

Auxiliary Boom Nose	136 lb.
Hookblocks and Headache Balls:	
75 Ton, 4 Sheave	1275 lb. +
40 Ton, 3 Sheave	823 lb. +
10 Ton Overhaul Ball	568 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.

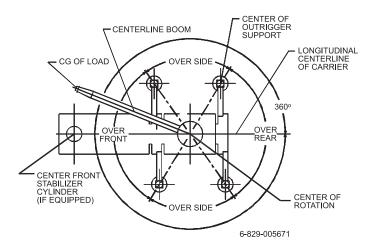
L	ine Pulls and Reeving	Informati	on
Hoists	Cable Specs.	Permissible Line Pulls	Nominal Cable Length
Main	3/4" (19 mm) 6x37 Class, EIPS, IWRC Special Flexible Min. Breaking Strength 58,800 lb.	16,800 lb.	600 ft.
Main & Aux.	3/4" (19 mm) Flex-X 35 Rotation Resistant (Non-rotating) Min. Breaking Strength 85 800 lb	17,160 lb.	607 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 Capaci							
	Available lb.*	Available lb.*	Layer	Total					
1	20,250	9,610	101	101					
2	18,490	8,770	110	211					
3	17,010	8,070	120	331					
4	15,750	7,470	129	460					
5	14,660	6,960	139	599					
	*Max. lifting cap	acity: 6x36 or 35x7 cl	lass = 17,160 lb.						

Boor	n Seci	tion v	vs. S	ectio	n Ext	tensi	on Pe	ercen	tage	s	
	Main Boom Length in Feet										
	41.3	50	60	70	80	90	100	110	120	128	
Boom sections	s:			Per	cent Ext	ension					
Inner-mid	0	30	65	100	100	100	100	100	100	100	
Outer-mid	0	0	0	0	7	34	52	69	86	100	
Fly	0	0	0	0	17	34	52	69	86	100	

### **Working Area Diagram**



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



# Notes

34



GROVE,

# Notes

35





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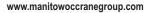














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