GROVE. TMS800E



features

• 41-128 ft. (12.6-39 m) 4 section full power Mega Form boom

- 33-56 ft. (10-17 m) manual offset bi-fold swingaway
 - 2 x 20 ft. intermediate lattice inserts
 - 24,000 lb. (10 886 kg) counterweight with hydraulic removal system
 - Cummins ISM 450, six cylinder after cooled 450 hp (336 kW)
 - Front and rear air ride suspension

contents

Features

Specifications

Dimensions

Travel Proposal

Working Range

Main Boom and Swingaway Charts

Swingaway Charts w/one or two 20' inserts

Load Handling

Truck Mounted Hydraulic Crane



2

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°.

MEDDE 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 4

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.



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



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. (8 165 kg).

*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.

11 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 l)



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.

Single Line Pull:	1st Layer: 20,250 lb. (9 185 kg) 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 Li	ine 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
Rope Type:	6 x 36 EIPS IWRC, Special Flexible 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).

O Transmission

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

Drive $8 \times 4 \times 4$.

T Steering

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



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.



Tires

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



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

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.



Two 12V – maintenance free batteries provides 12 V electrical system. Standard battery disconnect.

🛛 Maximum Speed

65 MPH (104 kph)



70%

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.

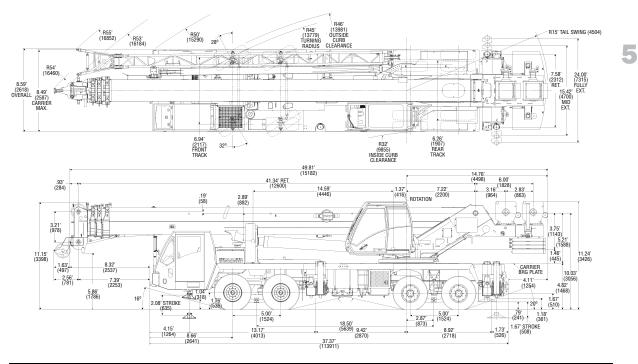
*Optional Equipment

*Flashing Light Package (Includes amber strobe for superstructure and carrier cabs) *Air conditioning *Dual boom base mounted floodlights *Hookblocks *Intle 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

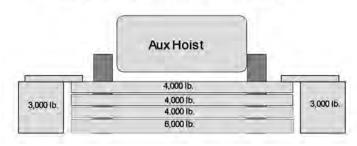


dimensions



Unit Configuration lb. (kg.)	Fre	ont	Re	ar	Gro	SS
Maximum Design Allowable Axle/Tire Loads Basic machine including 128 ft. (39 m) main boom, main hoist with cable,	49,200	(22 317)	60,000	(27 216)	109,200	(49 533)
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						
& 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	80	(36)	-17	(-8)	63	(29)
Air conditioning superstructure	-32	(-15)	225	(102)	193	(88)
Aluminum outrigger pads	-6	(-3)	-66	(-30)	-72	(-33)
Remove:						
33-56 ft. bi-fold swingaway	-3,042	(-1 380)	410	(186)	-2,632	(-1 194)
40T block	-1,327	(-602)	504	(229)	-823	(-373)
10T headache ball Auxiliary hoist cable	-838 448	(-380) (203)	270 -1,237	(122) (-561)	-568 -789	(-258) (-358)
Effect per foot of extending boom:	762	(-346)	-762	(346)	0	(0)

Counterweight Configurations



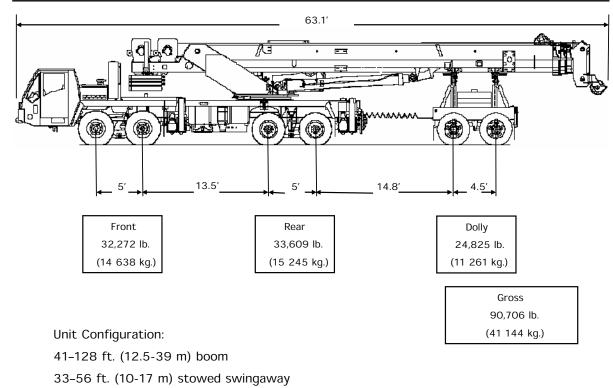
Load Chart Configurations

	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	Х	
24,000 lb.	3X	Х	2X

dimensions

Boom over front

6



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

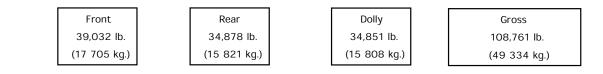
Driver

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

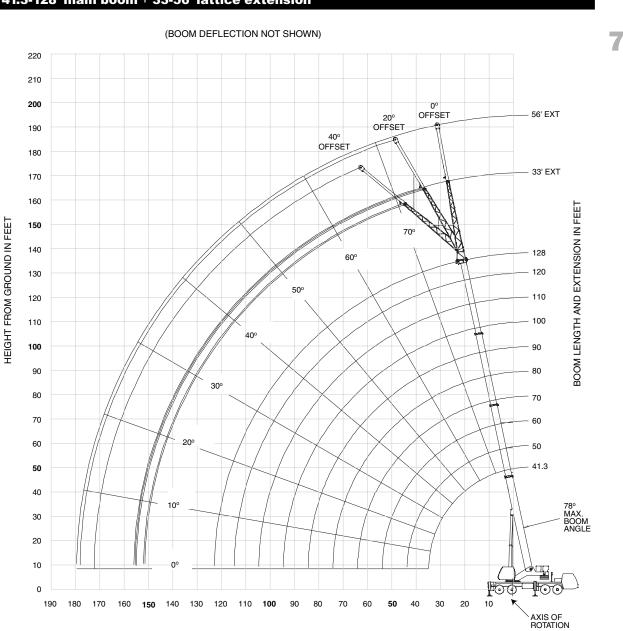
No counterweight

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



TMS800E

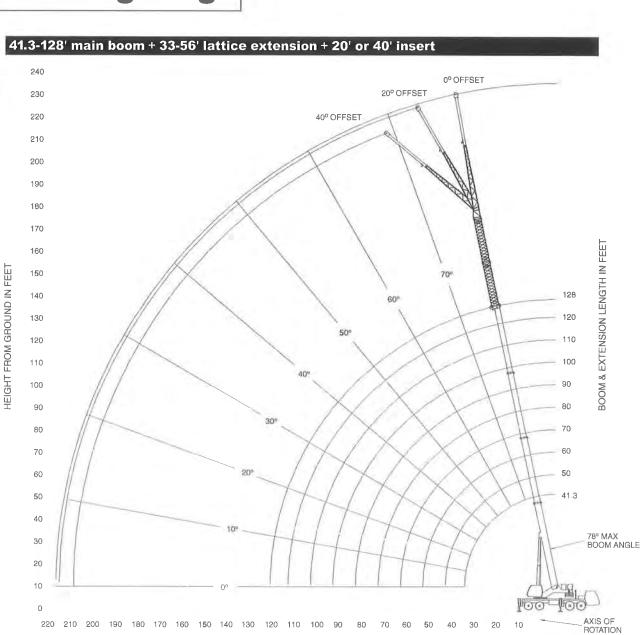


41.3-128' main boom + 33-56' lattice extension

OPERATING RADIUS IN FEET FROM AXIS OF ROTATION



working range



OPERATING RADIUS IN FEET FROM AXIS OF ROTATION



GROVE.

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

9

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	41.3-128 ft.	24,000 lb		100% " spread	Q 360°						
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $						F	ounds				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		41.3	50	60	**70	80	90	100	110	120	128
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	8										
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	9										
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	10	147,000	86,000								
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	12	130,500	86,000	86,000							
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	15	111,000	86,000	86,000	41,000						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	20	87,650	86,000	85,900	41,000	39,000					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	25	67,700	67,450	67,250	41,000	39,000	38,800	38,700	31,950		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	30	50,550	50,800	50,750	41,000	39,000	38,800	36,150	31,950	25,750	14,600
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	35	(01)	38,600	38,750	38,650	38,150	34,100	31,350	29,300	25,750	14,600
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	40		30,300	30,500	30,600	31,550	30,050	27,500	25,650	23,900	14,600
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	45		(= !)	24,550	24,700	25,700	26,500	24,400	22,700	21,450	14,600
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	50			20,050	20,250	21,150	22,050	21,850	20,250	19,100	14,600
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	55	Note 10		(21.5)	16,750	17,650	18,500	19,300	18,200	17,100	14,600
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	60				13,950	14,800	15,650	16,450	16,450	15,450	14,600
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	65				(20.3)	12,450	13,300	14,150	14,550	14,000	13,350
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	70					10,500	11,300	12,150	12,600	12,700	12,150
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						(18.5)	9,650	10,500	10,950	11,350	11,050
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	80						8,220	9,100	9,530	9,950	10,100
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	85						(17.5)	7,870	8,300	8,710	9,090
$\begin{array}{c cccc} 95 & \begin{array}{c} 6,260 & 6,660 & 7,030 \\ (25) & (35) & (40.5) \\ 100 & \begin{array}{c} 5,410 \\ (16) & \begin{array}{c} 5,810 & 6,170 \\ (30) & (36.5) \\ (24) & (32) \\ (16) & \begin{array}{c} 27 \\ (24) & (32) \\ (16) & \begin{array}{c} 4,360 \\ (27) \\ (16) & \begin{array}{c} 4,090 \\ (21) \\ (21) \end{array} \end{array}$	90							6,800	7,220	7,620	8,000
$\begin{array}{c cccc} 100 & & & 5,410 & 5,810 & 6,170 \\ \hline 100 & & & (30) & (36.5) \\ 105 & & & & 5,040 & 5,410 \\ (24) & & & (32) \\ 110 & & & & 4,360 & 4,720 \\ (16) & & & & (16) & (27) \\ 115 & & & & & 4,090 \\ \hline 115 & & & & & & 4,090 \\ \hline 115 & & & & & & & & (21) \\ \end{array}$	95							(17)	6,260	6,660	7,030
$\begin{array}{c cccc} (16) & (30) & (36.5) \\ \hline & (30) & (5.5) \\ \hline & (30) & (5.5) \\ \hline & (24) & (32) \\ \hline & (24) & (32) \\ \hline & (24) & (27) \\ \hline & (16) & (27) \\ \hline & (16) & (27) \\ \hline & (21) \hline \hline \\ \hline & (21) \hline \hline \\ \hline & (21) \hline \hline \\ \hline \hline \\ \hline \hline \hline \\ \hline \hline \hline \hline \hline \hline \\ \hline \hline$	100								5,410	5,810	6,170
(24) (32) 110 4,360 4,720 (16) (27) 4,090 (21) 2,520 (21)									(16)	. ,	. ,
110 (16) (27) 115 (21) 2520											
(21)											(27)
0 500	115										(21)
120 (10)	120										3,530 (10)

Minimum boom angle (deg.) for indicated length (no load)
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.
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 at Zero Degree Boom Angle										
Boom Angle	Main Boom Length in Feet									
	•	5								
0	,5	5,5	,5	,	5,	,	,	,	,	
			5.							
Note R ef	ference radii	in feet.							A	

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

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

GROVE

9

120

24,000 lbs

33-56 ft.

Q

360

100%

10

41.3 - 128 ft.	33-56 ft.			100% ft. 0 in.	360°	
			Pour	nds		
		3 ft. LENGTH			56 ft. LENGTH	
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	ctions.	A6-829-1038	392			

41.3 - 128 ft.

GROVE

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 SAE J-765.
- 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).

TMS800E

11

41.3 - 128 ft.	33-56 ft.	20 - 40 ft. 24,000 lbs		000 lbs	100% 24 ft. 0 in.	Q 360°	
			Pou	nds			
	76 ft. (56 f	t. LENGTH +	1 INSERT)	96 ft. (56	ft. LENGTH +	2 INSERTS	
G	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	4,470		3,520	3,740		
80	(70) 4,730	(75) 4,110	4,050	(72.5) 3,520	(77) 3,420		
85	(68.5) 4,310	(73.5) 3,790	(77) 3,500	(71.5) 3,300	(75.5) 3,100	*3,250	
	(67) 3,940	(72) 3,500	(75.5) 3,260	(70) 2,970	(74.5) 2,820	(78) 2,720	
90	(65.5) 3,610	(70) 3,240	(73.5) 3,030	(68.5) 2,660	(73) 2,560	(76) 2,490	
95	(63.5) 3,310	(68.5)	(72)	(67)	(71.5)	(74.5)	
100	(62)	(67)	(70.5)	(65.5)	(70)	(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)		(00)	(0110)	
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	(43.3) 1,270 (41.5)	1,230 (46)	1,230 (48)				
160	1,160	1,120	1,130 (45)				
165	(39) 1,050 (26.5)	(43.5) 1,020	(40)				
	(36.5)	(40.5)	1				
Minimum hoors	nglo						
Minimum boom a (°) for indicate length (no load	ed 35 d)	39	43.5	53.5	58	60.5	
Maximum boo		70			70		

lengui (no loau)			
Maximum boom length (ft.) at 0° boom angle (no load)	70		70
NOTE: () Boom angles are	in degrees.		A6-829-103894

#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 SAE J-765.
- 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).

8 9 10 12 15 20 25 25	41.3 +160,000 (73) ++150,000 (71.5) 147,000 (70) 130,500 (67) 111,000 (62) 87,650	50 (75) 86,000 (74) 86,000 (71.5) 86,000	60 60 86,000 (77) 86 000	**70		Pounds Length in Feet 90	100	110	120	128
8 9 10 12 15 20	+160,000 (73) ++150,000 (71.5) 147,000 (70) 130,500 (67) 111,000 (62) 87,650	86,000 (75) 86,000 (74) 86,000 (71.5) 86,000	86,000 (77)	**70			100	110	120	128
8 9 10 12 15 20	+160,000 (73) ++150,000 (71.5) 147,000 (70) 130,500 (67) 111,000 (62) 87,650	86,000 (75) 86,000 (74) 86,000 (71.5) 86,000	86,000 (77)	**70	80	90	100	110	120	128
9 10 12 15 20	++150,000 (71.5) 147,000 (70) 130,500 (67) 111,000 (62) 87,650	(75) 86,000 (74) 86,000 (71.5) 86,000	(77)							
10 12 15 20	(71.5) 147,000 (70) 130,500 (67) 111,000 (62) 87,650	(75) 86,000 (74) 86,000 (71.5) 86,000	(77)							
12 15 20	(70) 130,500 (67) 111,000 (62) 87,650	(74) 86,000 (71.5) 86,000	(77)							
15 20	(67) 111,000 (62) 87,650	86,000 (71.5) 86,000	96,000							
20	111,000 (62) 87,650	86,000	86,000 (75)	41,000 (77)						
_	87,650		86,000	41,000	39,000					
_		(67.5) 86,000	(71.5) 85,900	(74.5) 41,000	(76.5) 39,000	38,800	*38,700	*31,950		
25	(53.5) 63,700	(61) 63,750	(66.5) 63,300	(70) 41,000	(73) 39,000	(75) 38,800	(78) 38,700	(78) 31,950	*25,750	*14,6
	(44)	(54)	(61)	(65.5)	(69)	(71.5)	(74)	(75.5)	(78)	(7
30	45,450 (31)	45,650 (46.5)	45,600 (55.5)	41,000 (61)	39,000 (65)	38,800 (68.5)	36,150 (70.5)	31,950 (72.5)	25,750 (74.5)	14,6 (75
35		34,450 (37)	34,550 (49.5)	34,500 (56.5)	35,450 (61)	34,100 (65)	31,350 (67.5)	29,300 (70)	25,750 (72)	14,6 (7
40		26,800 (24)	27,000 (42)	27,100 (51)	28,050 (57)	28,950 (61)	27,500 (64.5)	25,650 (67.5)	23,900 (69.5)	14,6 (7
45		(24)	21,550	21,700	22,650	23,500	24,350	22,700	21,450	14,6
			(33.5) 17,450	(45.5) 17,600	(52.5) 18,550	(57.5) 19,450	(61.5) 20,200	(64.5) 20,250	(67) 19,100	(68 14,6
50			(21.5)	(39) 14,400	(47.5) 15,300	(53.5) 16,150	(58) 16,950	(61.5) 17,300	(64.5) 17,100	(6 14,6
55				(31.5)	(42.5)	(49.5)	(54.5)	(58.5)	(62)	(6
60				11,800 (20.5)	12,700 (36.5)	13,500 (45)	14,350 (51)	14,750 (55.5)	15,100 (59)	14,6 (61
65					10,550 (29)	11,350 (40)	12,200 (47)	12,600 (52)	13,000 (56)	13,3 (5
70					8,760	9,550	10,400	10,850	11,250	11,6
75					(18.5)	(34) 8,010	(42.5) 8,890	(48.5) 9,320	(53) 9,740	(5 10,1
										(53 8,7
80						(17.5)	(32.5)	(41)	(47)	(50
85							(26)	(36.5)	(43)	7,6 (47
90								5,880 (31)		6,6 (4
95								5,000	5,410	5,7 (40
100								4,220	4,620	4,9
105								(10)	3,920	(36 4,2
										(3 3,6
110									(16)	(2
										3,0 (2
115										2,5 (1
; ; ; 1	80 85 90 95 00 05 10	80 85 90 95 00 05 10 15 20	80 85 90 95 00 05 10 15 20	80 85 90 95 00 05 10 15 20 um boom angle (deg.) for indicated length (no load)	80 85 90 95 00 05 10 15 20 um boom angle (deg.) for indicated length (no load)	80 85 90 95 00 05 10 15 20 um boom angle (deg.) for indicated length (no load)	(27.3) 80 6,690 (17.5) 85 90 95 00 05 10 15 20 um boom angle (deg.) for indicated length (no load)	(27.3) (36) 80 (6.30) 7,580 85 (17.5) (32.5) 90 5,460 (26) 90 5,460 (17) 95 00 5 10 15 20	(27.3) (36) (43) 80 (17.5) (32.5) 8.010 (17.5) (32.5) (41) 85 (26) (36.5) 90 5.460 5.880 (17) (31) 95 5.000 00 4.220 (16) 16 10 15 20 1	(27.3) (35) (43) (30) 80 (17.5) (32.5) 8,010 8,430 (17.5) (32.5) (41) (47) 85 (26) (36.5) (43) 90 5,460 5,880 6,290 (17) (31) (39.5) 95 (25) (25) (35) 00 (25) (35) (40) 90 (17) (31) (39.5) 95 (26) (36.5) (43) 90 (17) (31) (39.5) 90 (17) (31) (39.5) 90 (17) (31) (39.5) 90 (17) (31) (39.5) 90 (16) (30) (25) 90 (16) (30) (24) 90 (16) (16) (16) 91 (16) (16) (16) 92 (16) (16) (16) 10 (16) (16) (16) 15 (16)

*This capacity is based upon maximum obtainable boom angle.
*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.

Boom				N	lain Boom Length	in Feet				
Angle	41.3	50	60	**70	80	90	100	110	120	
00	20,750	15,150	10,500	6,700	5,100	3,900	2,900	2,000	1,300	
0	(34.1)	(42.8)	(52.8)	(63)	(72.8)	(82.8)	(92.8)	(102.8)	(112.8)	
ote: () Reference radii in feet. A6-829-103749										

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

13

41.3 - 128 ft. 33 - 56 ft. 18,000 lbs 100% 360 Pounds Θ 33 ft. LENGTH 56 ft. LENGTH 0° 20° 40° 0° 20° 40° OFFSET OFFSET OFFSET OFFSET OFFSET OFFSET Feet *11,900 (78) 35 11,900 (75.5) 6,060 (77.5) 40 11,900 6,060 11.600 45 (73.5) (78) (76) 11,900 10,600 *9,700 6,060 50 (715)(75) (78)(745)11.900 9,770 (73) 8,470 (75.5) 6.060 55 (70) (73) 11,000 7,920 (73.5) *6,040 9,020 6,060 60 (68) (71) (71) (78) 10,000 (66) 8,360 (69.5) 7,430 (72) 6,060 (69.5) 5,900 (75) 65 9,190 6.980 *4.930 7.780 6.060 5.730 70 (64) (67.5) (70) (68) (73.5) (78) 5,330 (71.5) 8,460 7,260 (65.5) 6,580 6,060 4,640 75 (62) (68) (66)(76) 7,820 (60) 6,790 (63.5) 6,210 (65.5) 6,040 (64.5) 4,980 (70) 4,370 (74) 80 7,250 (58) 6,370 5,870 5,570 4,650 4,120 85 (61) (63.5) (63) (68) (72) 6,740 (55.5) 5,150 (61) 5,990 5,560 4,360 3,890 90 (59) (61) (66.5)(70) 6,290 (53.5) 5.640 5 280 4.780 4 0 9 0 3 680 95 (56.5) (59) (59.5) (64.5) (68.5) 4,440 (57.5) 3,840 (62.5) 5,750 (51) 5,320 (54.5) 5,020 (56,5) 3,480 100 (66.5) 4,770 (54) 5,020 (48.5) 5,030 3,610 (60.5) 3,300 (64.5) 4,130 (55.5) 105 (52) 4,360 (46) 3,400 (58.5) 4,760 (49.5) 4.550 3.850 3.130 110 (51) (53.5) (62.5) 3,760 (43.5) 4,340 (48.5) 3,200 (56.5) 4,150 (46.5) 3,590 2,970 115 (52)(60)3.560 3.360 3.020 2,820 3.840 120 (45) (40.5) (44) (49.5) (54.5) (58) 2,710 (37.5) 3,020 (41) 3,140 2,840 2,680 125 2,250 (34) 2,520 (37.5) 2,540 (53) 2 690 2 810 130 (45.5) (50) 2,070 2,400 2,540 2,420 1,830 135 (30.5) (34) (43) (48) (50.5) 1,440 (26.5) 1,640 (29.5) 2,030 (40.5) 2,300 (47.5) 2,400 140 (45) 1,690 (38) 1,080 (21.5) 2,110 (42.5) 145 1,370 (35) 1,730 (39.5) 150 1,380 (36) 1,070 (31.5) 155 1,060 (32.5) 160 Minimum boom angle 20 43 5 30 315 46 (°) for indicated length 28 (no load) Maximum boom length (ft.) at 0° boom angle 110 100 (no load)

-

NOTE: () Boom angles are in degrees. A6-829-103771 #LMI operating code. Refer to LMI manual for operating instructions.

*This capacity is based upon maximum boom angle.

NOTES:

Q

- 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.
- 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).



	41.3 - 128 ft.	56 ft.	20 - 40 ft.	18,00	0 lbs	100% 24' 0"	Q 360°
.4	ſ			Pound	s)
		76 ft. (56 ft. LE	ENGTH + 1 I	NSERT)	96 ft. (56 ft. I	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	1,080 (59)	1,110 (61.5)
	140	1,670 (48)	1,590 (52.5)	1,570 (55)	(00)	(00)	(01.0)
	145	1,530 (46)	1,470 (50.5)	1,450 (52.5)			
	150	1,400 (43.5)	1,340	1,340			
	155	(43.5) 1,160 (41.5)	(48) 1,230 (46)	(50.5) 1,230 (48)			
	160	(41.0)	1,120	1,130			
	Minimum boom ar (°) for indicated length (no load	ı 39	(43.5) 40.5	(45) 43.5	53.5	58	60.5
	Maximum boon length (ft.) at 0° b angle (no load)	n Dom	70			70	200 102795

NOTE: () Boom angles are in degrees. #LMI operating code. Refer to LMI manual for operating instructions. *This capacity is based upon maximum boom angle. A6-829-103785

TMS800E

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 SAE J-765.
- 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.

41.3 - 128ft.	14,000 lbs	(– 100%	Q 360°							
			24' 0"		Pou	nds) 1
Feet				1	Main Boom Length	n in Feet)
	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 (73)	38,800 (75)	*38,700 (78)	*31,950 (78)			-
25	59,150 (44)	59,150 (54)	58,700 (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	41,950	42,150	42,100	41,000	39,000	38,800	36,150	31,950	25,750	14,600	
35	(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	
40		(37) 24,450	(49.5) 24,650	(56.5) 24,750	(61) 25,650	(65) 26,550	(67.5) 27,500	(70) 25,650	(72) 23,900	(73) 14,600	
		(24)	(42) 19,500	(51) 19,650	(57) 20,650	(61) 21,500	(64.5) 22,350	(67.5) 22,650	(69.5) 21,450	(71) 14,600	
45			(33.5) 15,650	(45.5) 15,800	(52.5) 16,750	(57.5) 17,650	(61.5) 18,400	(64.5) 18,750	(67) 19,100	(68.5) 14,600	
50			(21.5)	(39)	(47.5)	(53.5)	(58)	(61.5)	(64.5)	(66)	
55				12,800 (31.5)	13,700 (42.5)	14,550 (49.5)	15,350 (54.5)	15,700 (58.5)	16,100 (62)	14,600 (64)	
60				10,400 (20.5)	11,250 (36.5)	12,050 (45)	12,900 (51)	13,300 (55.5)	13,650 (59)	14,150 (61.5)	
65					9,240 (29)	10,050 (40)	10,900 (47)	11,300 (52)	11,700 (56)	12,100 (59)	
70					7,550 (18.5)	8,350 (34)	9,220 (42.5)	9,650 (48.5)	10,050 (53)	10,400 (56)	
75					(10.0)	6,900	7,780	8,210	8,630	8,980	
80						(27.5) 5,660	(38) 6,550	(45) 6,980	(50) 7,390	(53.5) 7,760	
85						(17.5)	(32.5) 5,490	(41) 5,910	(47) 6,320	(50.5) 6,700	
							(26) 4,560	(36.5) 4,980	(43) 5,380	(47.5) 5,770	
90							(17)	(31) 4,150	(39.5) 4,550	(44) 4,930	
95								(25)	(35)	(40.5)	
100								3,420 (16)	3,810 (30)	4,190 (36.5)	
105									3,150 (24)	3,520 (32)	
110									2,560 (16)	2,930 (27)	
115									· · /	2,390 (21)	
120										1,900	
Minimum boom	angle (deg.) for indic	cated length (r	no load)							(10) 9	
Maximum boon	n length (ft.) at 0 deg.	boom angle ((no load)							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. ++9 parts of line required to lift this capacity (using aux. boom nose). Refer to Operator's & Safety Handbook for reeving diagam.

i i o parto or ini	e required to int tri	is capacity (usin	iy aux. D	001111036). 116	iei io Operaic	1 5 & Galety I lai		ceving ula	yann.			
				Lifting Capa	cities at Zero	Degree Boom	Angle					
Boom	Annia											
Angle	41.3	50	60	**70	80	90	100	110	120			
٥°	20,750	15,150		10,500	6,700	5,100	3,9	000	2,900	2,000	1,300	
0	(34.1)	(42.8)		(52.8)	(63)	(72.8)	(82	2.8)	(92.8)	(102.8)	(112.8)	

Note: () Reference radii in feet. (34.1) (42.0) (32.0) (35.1) (35

A6-829-103750

-

H

Q

10	41.3 - 128 ft. 33	- 56 ft.	14,0	00 lbs	100% 24' 0		360°
16				Pounds	6		
		33	ft. LENGTH		56	6 ft. LENGTH	ł
	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)		28.5	43.5	35	36	46
	Maximum boom length (ft.) at 0° boom angle (no load)	1	110			90	
	NOTE: () Boom angles	are in dec	irees.			A6-82	9-103772

NOTE: () Boo angles are in degrees. A6-829-103772 #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.
- 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.
- 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).



17

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 SAE J-765.
- 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.

41.3 - 128 ft.	56 ft.	20 - 40 ft.	14,00	00 lbs	100% 24' 0"	360°
			Pounds	6		
	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)	(04) 1,920 (62.5)	1,900 (67)	1,890 (70)
115	2,560	2,370	2,280	1,710	1,710	1,710 (68.5)
120	(57) 2,350 (55.5)	(61.5) 2,200 (60)	(65) 2,120 (62)	(61) 1,520 (50.5)	(65.5) 1,540	1,550
125	(55.5) 2,160 (52.5)	(60) 2,030 (58)	(63) 1,970	(59.5) 1,350	(64) 1,380 (62.5)	(66.5) 1,390
130	(53.5) 1,990	(58) 1,880	(61) 1,830	(58) 1,190	(62.5) 1,230	(65) 1,250
135	(52) 1,820	(56.5) 1,730	(59) 1,700	(56.5) 1,040	(60.5) 1,080	(63.5) 1,110
140	(50) 1,600	(54.5) 1,590	(57) 1,570	(55)	(59)	(61.5)
145	(48) 1,260	(52.5) 1,470	(55) 1,450			
150	(46)	(50.5) 1,340	(52.5) 1,340			
155		(48)	(50.5) 1,230			
160		(46)	(48)			
Minimum boom angle (°) for indicated length (no load)	e 43.5	44.5	(45) 44	53.5	58	60.5
Maximum boom length (ft.) at 0° boon angle (no load)	n	70				60

H

Q

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 ft.	12,000 lbs	1	00%	Q 360°						
18						Poun	ds				
	Feet	41.3	50	60	۸ **70	lain Boom Length 80	in Feet 90	100	110	120	128
	8	++150,000 (73)									
	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 (77)						
	15	110,000 (62)	86,000 (67.5)	86,000 (71.5)	41,000 (74.5)	39,000					
	20	(62) 83,950 (53.5)	(67.5) 83,650 (61)	(71.5) 83,450 (66.5)	41,000 (70)	(76.5) 39,000 (73)	38,800 (75)	*38,700 (78)	*31,950 (78)		
	25	56,850	56,900	56,450	41,000 (65.5)	39,000	38,800	38,700	31,950	*25,750	*14,600
	30	(44) 40,200 (24)	(54) 40,400	(61) 40,350	40,050	(69) 39,000	(71.5) 38,800	(74) 36,150	(75.5) 31,950 (72.5)	(78) 25,750 (74.5)	(78) 14,600
	35	(31)	(46.5) 30,200 (37)	(55.5) 30,350 (40.5)	(61) 30,250 (56 5)	(65) 31,200	(68.5) 32,200	(70.5) 31,350	(72.5) 29,300	(74.5) 25,750 (72)	(75.5) 14,600 (72)
	40		(37) 23,250 (24)	(49.5) 23,450 (42)	(56.5) 23,550 (51)	(61) 24,500 (57)	(65) 25,400	(67.5) 26,450	(70) 25,650	(72) 23,900	(73) 14,600 (74)
	45		(24)	18,500	18,650	19,600	(61) 20,450	(64.5) 21,300	(67.5) 21,650	(69.5) 21,450	(71) 14,600
	50			(33.5) 14,750 (21.5)	(45.5) 14,950	(52.5) 15,850	(57.5) 16,750	(61.5) 17,500	(64.5) 17,850	(67) 18,200	(68.5) 14,600
	55			(21.5)	(39) 12,000	(47.5) 12,900	(53.5) 13,750	(58) 14,550	(61.5) 14,900	(64.5) 15,300	(66) 14,600
	60				(31.5) 9,680	(42.5) 10,500	(49.5) 11,350	(54.5) 12,200	(58.5) 12,550	(62) 12,950	(64) 13,450
	65				(20.5)	(36.5) 8,580	(45) 9,400	(51) 10,250	(55.5) 10,650	(59) 11,050	(61.5) 11,450
	70					(29) 6,950	(40) 7,750	(47) 8,620	(52) 9,050	(56) 9,460	(59) 9,810
	75					(18.5)	(34) 6,350	(42.5) 7,230	(48.5) 7,660	(53) 8,080	(56) 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
	100								(25) 3,020	(35) 3,410	(40.5) 3,790
	105								(16)	(30) 2,770	(36.5) 3,140
	110									(24) 2,190	(32) 2,560
	115									(16)	(27) 2,040
											(21) 1,570
	120 Minimum boom a	angle (deg.) for indi	icated length (n	o load)							(10)
	Maximum boom #LMI operating o *This capacity is	length (ft.) at 0 deg code. Refer to LMI based upon maxin ingles are in degree	i. boom angle (r manual for instr num obtainable	no load) uctions.							120
		<u> </u>		Lifting Ca	pacities at Zero D	egree Boom Ang	le				
lin –	Boom Angle	41.3	50	60 **70		lain Boom Length 90	in Feet 100 110	120			

BUUIII					viain boom Leng	Jui III I CCL					
Angle	41.3	50	60 **70	80	90	100	110	120			
00	20,750	15,150	10,500	6,700	5,100	3,900		2,900	2,000	1,300	
0	(34.1)	(42.8)	(52.8)	(63)	(72.8)	(82.8)		(92.8)	(102.8)	(112.8)	
	ence radii in feet.			6 1 1 1 1						A	6-829-103751

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

19

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 SAE J-765.
- 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).

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)		32.5	43.5	38	39.5	46
Maximum boom lengt (ft.) at 0° boom angle (no load)	h	100				90
NOTE: () Boom angles	s are in deg		oporating in	atructions	A6-8	29-103773

Q

360°

100% 24' 0"

56 ft LENGTH

<u>ار ا</u> 41.3 - 128 ft.

Θ

33 - 56 ft.

33 ft. LENGTH

12,000 lbs

Pounds

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



20

41.3 - 128 ft.	56 ft.	20 - 40 ft.	12,00	0 lbs	100% 24' 0"	Q 360°
			Pound	ls		
	76 ft. (56 ft.	LENGTH + 1	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	3,940 (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 ang (°) for indicated length (no load)	le 46	46	46.5	53.5	58	60.5
Maximum boom length (ft.) at 0° boo angle (no load)	m	70			60	
NOTE: () Boom ang			operating in	otructions	A6-8	29-103787

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 SAE J-765.
- 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.

3			24' 0"		Poun	ds)
⊖ ⊆ et					Main Boom Length	in Feet)
8	41.3 ++150,000	50	60	**70	80	90	100	110	120	128
	(73) ++150,000	86.000								
9	(71.5)	86,000 (75) 86,000	86,000							
0	(70)	(74)	(77)	41.000						
2	128,000 (67)	86,000 (71.5)	86,000 (75)	41,000 (77)						
5	109,500 (62)	86,000 (67.5)	86,000 (71.5)	41,000 (74.5)	39,000 (76.5)					
0	82,700 (53.5)	82,400 (61)	82,200 (66.5)	41,000 (70)	39,000 (73)	38,800 (75)	*38,700 (78)	*31,950 (78)		
5	54,550 (44)	54,600 (54)	54,150 (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)
D	38,450 (31)	38,650 (46.5)	38,600 (55.5)	38,300 (61)	39,000 (65)	38,800 (68.5)	36,150 (70.5)	31,950 (72.5)	25,750 (74.5)	14,600 (75.5)
5		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)
)		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)
5		(24)	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)
)			13,850	14,050	14,950	15,850	16,600	16,950	17,300	14,600
5			(21.5)	(39) 11,200	(47.5) 12,100 (42.5)	(53.5) 12,950 (49.5)	(58) 13,750	(61.5) 14,100 (58.5)	(64.5) 14,500 (62)	(66) 14,600 (64)
)				(31.5) 8,960	9,810	10,650	(54.5) 11,450	11,850	12,250	12,700
5				(20.5)	(36.5) 7,930	(45) 8,740	(51) 9,610	(55.5) 10,000	(59) 10,400	(61.5) 10,800
					(29) 6,350	(40) 7,140	(47) 8,020	(52) 8,450	(56) 8,850	(59) 9,210
)					6,350 (18.5)	(34)	(42.5) 6,670	(48.5)	(53) 7,520	(56) 7,870
5						5,790 (27.5) 4,620	(38) 5,520	(45) 5,950	(50)	(53.5) 6,720
)						(17.5)	(32.5) 4,520	(41)	(47) 5,350	(50.5) 5,730
5							(26)	4,940 (36.5)	(43)	(47.5)
)							3,650 (17)	4,070 (31)	4,470 (39.5)	4,870 (44)
5								3,300 (25)	3,700 (35)	4,080 (40.5)
0								2,610 (16)	3,000 (30)	3,380 (36.5)
5									2,390 (24)	2,760 (32)
0									1,830 (16)	2,200 (27)
5									(19)	1,700 (21)
0										1,240
n boom	angle (deg.) for indic	ated length ((no load)							(10) 9

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

						•	•							
Boom		Main Boom Length in Feet												
Angle	41.3	50	60	**70	80	90	100	110	120					
٥°	20,750	15,150		0,500	6,700	5,100	3,900		2,900	2,000	1,300			
U	(34.1)	(42.8)	(52.8)	(63)	(72.8)	(82.8)		(92.8)	(102.8)	(112.8)			
Note: () Reference radii in feet A6-829-103752														

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

TMS800E

22

41.3 - 128 ft. 3	33 - 56 ft.	10,000 lbs	100 24'		Q 360°			
(Pound	s				
	33	ft. LENGTH		56 ft. LENGTH				
Feet	0° OFFSET	20° OFFSET	40° OFFSET	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)	(10)	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	(04)	(01.0)		1,240 (43)	1,780 (48)	2,110 (50.5)		
140				(+3)	(48) 1,390 (45)	(30.3) 1,660 (47.5)		
145					(43) 1,030 (42.5)	(41.3)		
Minimum boom a (°) for indicated le (no load)		34	43.5	40.5	41.5	46		
Maximum boom le (ft.) at 0° boom a (no load)	ength ngle	100				80		
NOTE: () Boom a	nales are in dea	rees			46-83	0_103774		

NOTE: () Boom angles are in degrees. #LMI operating code. Refer to LMI manual for operating instructions. *This capacity is based upon maximum boom angle. A6-829-103774

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 SAE J-765.
- 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).

23

Q

360°

100%

24' 0"

- 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 SAE J-765.
- 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.

	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 (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	2,150 (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 angle (°) for indicated length (no load)	46.5	48	48	54	58	60.5
Maximum boom ength (ft.) at 0° boom angle (no load)	I	70			60	

DD

20 - 40 ft.

10,000 lbs

Pounds

-41.3 - 128 ft.

56 ft.

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 ft	. 8,000 lbs		1 00%	Q 360°						
G		:	24' 0"		Poun	ds				
				1	Vain Boom Length					
Feet	41.3	50	60	**70	80	90	100	110	120	128
8	++150,000 (73)									
9	++150,000 (71.5)	86,000 (75)								
10	143,500 (70)	86,000 (74)	86,000 (77)							
12	127,500 (67)	86,000 (71.5)	86,000 (75)	41,000 (77)						
15	109,000 (62)	86,000 (67.5)	86,000 (71.5)	41,000 (74.5)	39,000 (76.5)					
20	81,450 (53.5)	80,150 (61)	79,250 (66.5)	41,000 (70)	39,000 (73)	38,800 (75)	*38,700 (78)	*31,950 (78)		
25	52,250 (44)	52,300 (54)	51,850 (61)	41,000	39,000 (69)	38,800 (71.5)	38,700 (74)	31,950 (75.5)	*25,750 (78)	*14,60 (78
30	36,700 (31)	36,900 (46.5)	36,850 (55.5)	36,600 (61)	37,650 (65)	38,700 (68.5)	36,150 (70.5)	31,950 (72.5)	25,750 (74.5)	14,60 (75.5
35	()	27,400 (37)	27,500 (49.5)	27,450 (56.5)	28,400 (61)	29,350 (65)	30,850 (67.5)	29,300 (70)	25,750 (72)	14,60 (73
40		20,900 (24)	21,100 (42)	21,200 (51)	22,100 (57)	23,000 (61)	24,050 (64.5)	24,300 (67.5)	23,900 (69.5)	14,60 (71
45		(= -)	16,450 (33.5)	16,600 (45.5)	17,600 (52.5)	18,400 (57.5)	19,300 (61.5)	19,600 (64.5)	19,900 (67)	14,60 (68.5
50			12,950 (21.5)	13,150 (39)	14,050 (47.5)	14,950 (53.5)	15,700 (58)	16,050 (61.5)	16,400 (64.5)	14,60
55			(21.0)	10,400 (31.5)	(47.5) 11,300 (42.5)	12,150 (49.5)	12,950 (54.5)	13,300 (58.5)	13,700 (62)	14,30 (64
60				8,240 (20.5)	9,100 (36.5)	9,930 (45)	10,750 (51)	(55.5) (55.5)	(02) 11,500 (59)	12,00 (61.5
65				(20.3)	7,270 (29)	8,090 (40)	8,960 (47)	9,360 (52)	9,740 (56)	10,15 (59
70					5,750 (18.5)	6,540 (34)	(47) 7,420 (42.5)	7,850 (48.5)	8,250 (53)	(55 8,61 (56
75					(10.5)	5,230	6,120	6,550	6,960	7,31
80						(27.5) 4,100	(38) 5,000	(45) 5,430	(50) 5,840	(53.5
85						(17.5)	(32.5) 4,040	(41) 4,460	(47) 4,870	(50.5 5,25
90							(26) 3,200	(36.5) 3,620	(43) 4,020	(47.5 4,42
95							(17)	(31) 2,870	(39.5) 3,270	(44 3,66
100								(25) 2,210	(35) 2,600	(40.8 2,98
105								(16)	(30) 2,000	(36.5 2,38
110									(24) 1,470	(32 1,84
115									(16)	(27 1,35
	m angle (deg.) for ind	licated length (n	io load)							(21
	om length (ft.) at 0 deg	• •	,							102

 \mathbf{O}

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

Boom		Main Boom Length in Feet										
Angle	41.3	50	60	**70	80	90	100	110	120			
0°	20,750 (34.1)	15,150 (42.8)		0,500 52.8)	6,700 (63)	5,000 (72.8)	3,540 (82.8)		2,780 (92.8)	1,870 (102.8)	1,190 (112.8)	
	nce radii in feet.										A6-82	29-103753

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

25

			24' ()"		
			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	8,280 (62)	7,260 (65.5)	6,580 (68)	6,060 (66)	5,330 (71.5)	4,640 (76)
80	7,120 (60)	6,790 (63.5)	6,210 (65.5)	6,040 (64.5)	4,980 (70)	4,370 (74)
85	6,100 (58)	6,370 (61)	5,870 (63.5)	5,570 (63)	4,650 (68)	4,120 (72)
90	5,210 (55.5)	5,920 (59)	5,560 (61)	5,150 (61)	4,360 (66.5)	3,890 (70)
95	4,430 (53.5)	5,050 (56.5)	5,280 (59)	4,780 (59.5)	4,090 (64.5)	3,680 (68.5)
100	3,730 (51)	4,290 (54.5)	4,720 (56.5)	4,120 (57.5)	3,840 (62.5)	3,480 (66.5)
105	3,100 (48.5)	3,600 (52)	3,980 (54)	3,530 (55.5)	3,610 (60.5)	3,300 (64.5)
110	2,540 (46)	2,980 (49.5)	3,320 (51)	2,990 (53.5)	3,400 (58.5)	3,130 (62.5)
115	2,030 (43.5)	2,420 (46.5)	2,720 (48.5)	2,510 (52)	3,200 (56.5)	2,970 (60)
120	1,560 (40.5)	1,910 (44)	2,180 (45)	2,060 (49.5)	2,840 (54.5)	2,820 (58)
125	1,130 (37.5)	1,440 (41)		1,660 (47.5)	2,350 (52.5)	2,680 (55.5)
130		1,010 (37.5)		1,290 (45.5)	1,900 (50)	2,310 (53)
135					1,490 (48)	1,820 (50.5)
140					1,110 (45)	1,380 (47.5)
Minimum boom angle (°) for indicated length (no load)	36.5	36.5	43.5	43	44	46
Maximum boom length (ft.) at 0° boom angle (no load)		90			80	
NOTE: () Boom angles			operating in	actructions	A6-82	29-103775

Q

360°

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.

41.3 - 128 ft. 33 - 56 ft.

8,000 lbs

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 SAE J-765.
- 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).



00	41.3 - 128 ft.	56 ft.	20 - 40 ft.	8,000	lbs.	100% 24' 0"	Q 360°
26				Pounds			
		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 (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 ang (°) for indicated length (no load)	48.5	50.5	50.5	55	58	60.5
	Maximum boom length (ft.) at 0° booi angle (no load)		60			60	
	NOTE: () Boom ang	les are in dec	grees. Al manual for	operating in	etructione	A6-8	29-103789

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 SAE J-765.
- 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.

					Poun	ds				J
<u> </u>					Main Boom Lengt)
et	41.3 ++150.000	50	60	**70	80	90	100	110	120	128
8	(73)	00.000								
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	33,400	33,400	33,100	34,150	35,250	36,150	31,950	25,750	14,600
35	(31)	(46.5) 24,550	(55.5) 24,700	(61) 24,650	(65) 25,550	(68.5) 26,550	(70.5) 28,050	(72.5)	(74.5) 25,750	(75.5) 14,600
10		(37) 18,550	(49.5) 18,750	(56.5) 18,850	(61) 19,750	(65) 20,650	(67.5) 21,700	(70) 21,950	(72) 22,150	(73) 14,600
		(24)	(42)	(51) 14,550	(57) 15,550	(61) 16,400	(64.5) 17,250	(67.5) 17,550	(69.5) 17,850	(71) 14,600
15			(33.5) 11,150	(45.5) 11,350	(52.5) 12,250	(57.5) 13,150	(61.5) 13,900	(64.5) 14,250	(67) 14,600	(68.5) 14,600
50			(21.5)	(39) 8,830	(47.5) 9,720	(53.5)	(58)	(61.5)	(64.5)	(66)
55				(31.5)	(42.5)	(49.5)	(54.5)	(58.5)	(62)	(64)
60				6,800 (20.5)	7,650 (36.5)	8,490 (45)	9,320 (51)	9,710 (55.5)	10,050 (59)	10,550 (61.5)
65					5,960 (29)	6,770 (40)	7,660 (47)	8,040 (52)	8,430 (56)	8,840 (59)
0					4,540 (18.5)	5,340 (34)	6,220 (42.5)	6,650 (48.5)	7,050 (53)	7,400 (56)
5						4,120 (27.5)	5,010 (38)	5,440 (45)	5,850 (50)	6,200 (53.5)
0						3,070 (17.5)	3,970 (32.5)	4,400 (41)	4,810 (47)	5,170 (50.5)
5						(1110)	3,080 (26)	3,500 (36.5)	3,910 (43)	4,280 (47.5)
0							2,300	2,710	3,110	3,510
5							(17)	(31) 2,020	(39.5) 2,420	(44) 2,810
00								(25) 1,400	(35) 1,790	(40.5) 2,170
								(16)	(30) 1,240	(36.5) 1,580
)5									(24)	(32)
10										(27)

#LMI operating code. Refer to LMI manual for instructions. *This capacity is based upon maximum obtainable boom angle. Note: () Boom angles are in degrees. ++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 D)egree Boom A	ngle					
Boom												
Angle	41.3	50	60	**70	80	90	100	110				
0°	20,750	15,150	9,680	5,7		3,850	2,550	1,900	1,090			
•	(34.1)	(42.8)	(52.8)	(6	3)	(72.8)	(82.8)	(92.8)	(102.8)			
	ence radii in fee	t.								A6-829-103754		

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

4,000 lbs

100%

24' 0"

41.3 - 128 ft. 33 - 56 ft.

28

	24 0											
			Pound	s								
	33	3 ft. LENGT	Н	5	6 ft. LENGT	Ή						
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)	40.5	42.5	43.5	46.5	48	49						
Maximum boom lengtl (ft.) at 0° boom angle (no load)		80			70	-829-10377						

Q

360

NOTE: () Boom angles are in degrees. #LMI operating code. Refer to LMI manual for operating instructions. *This capacity is based upon maximum boom angle. A6-829-103776

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 SAE J-765.
- 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).

4		Ŀ.
Q	9	
ų	2	
		9

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 SAE J-765.
- 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.

	Pounds									
	76 ft. (56 ft.	_ENGTH + 1	NSERT)	96 ft. (56 ft.	LENGTH + 2	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	2,580 (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)	52.5	53	53.5	58	59	60.5				
Maximum boom ength (ft.) at 0° boom angle (no load) IOTE: () Boom angle		60			50					

000

20 - 40 ft.

100%

-41.3 - 128 ft.

56 ft.

Q

360°

4,000 lbs

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



						Poun	ds				
	Feet					Main Boom Lengt					
÷		41.3 ++150,000	50	60	**70	80	90	100	110	120	12
	8	(73)	00.000								
	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	86,000	86,000	41,000	39,000					
	20	(62) 68,500	(67.5) 66,950	(71.5) 66,050	(74.5) 41,000	(76.5) 39,000	38,800	*38,700	*31,950		
		(53.5) 43,100	(61) 43,150	(66.5) 42,700	(70) 41,000	(73) 39,000	(75) 38,800	(78) 38,700	(78) 31,950	*25,750	*14,
	25	(44)	(54)	(61)	(65.5)	(69)	(71.5)	(74)	(75.5)	(78)	(7
_	30	29,700 (31)	29,950 (46.5)	29,900 (55.5)	29,600 (61)	30,650 (65)	31,750 (68.5)	34,200 (70.5)	31,950 (72.5)	25,750 (74.5)	14, (75
	35		21,750 (37)	21,850 (49.5)	21,800 (56.5)	22,750 (61)	23,700 (65)	25,200 (67.5)	25,550 (70)	25,750 (72)	14,
	40		16,150 (24)	16,350 (42)	16,450 (51)	17,400 (57)	18,250 (61)	19,350 (64.5)	19,800 (67.5)	20,250 (69.5)	14,
	45		(24)	12,400	12,550	13,500	14,350	15,200	15,650	16,150	14,
1	50			(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
				(21.5)	(39) 7,230	(47.5) 8,120	(53.5) 8,990	(58) 9,770	(61.5) 10,200	(64.5) 10,700	(e 11,
	55				(31.5)	(42.5)	(49.5)	(54.5)	(58.5)	(62)	(
	60				5,360 (20.5)	6,210 (36.5)	7,050 (45)	7,880 (51)	8,330 (55.5)	8,790 (59)	9, (6
	65					4,640 (29)	5,460 (40)	6,340 (47)	6,780 (52)	7,210 (56)	7,
1	70					3,330	4,130	5,020	5.480	5,900 (53)	6,3
	75					(18.5)	(34) 3,000	(42.5) 3,900	(48.5) 4,340	4,760	(: 5,0
							(27.5) 2,030	(38) 2,940	(45) 3,370	(50) 3,780	(5:
	80						(17.5)	(32.5)	(41)	(47)	(5
	85							2,110 (26)	2,520 (36.5)	2,920 (43)	3, (4
	90							1,390 (17)	1,780 (31)	2,170 (39.5)	2,
	95							()	1,130 (25)	1,500	1, (4
	100								(23)	(35)	1,
M		n angle (deg.) for ir	dicated longth (n lood)					24	29	(36

#LMI operating code. Refer to LMI manual for instructions.
 *This capacity is based upon maximum obtainable boom angle.
 Note: () Boom angles are in degrees.
 ++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										
Boom										
Angle	41.3	50	60	**70	80	90	110			
0°	20,750 (34.1)	13,750 (42,8)		,000 52.8)	4,390 (63)	2,690 (72.8)	1,550 (82.8)	1,030 (92.8)		
Note: () Refere	ence radii in feet.	(12.0)	,	/	(<i>'</i>	(12.0)	(02:0)	(02.0)		A6-829-103755

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



$\mathbf{31}$

	24 0								
	Pounds								
	33 f	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 length (no load)	46	46.5	47.5	51	51.5	52			
Maximum boom length (ft.) at 0° boom angle (no load)	I	70			60				

41.3 - 128 ft. 33 - 56 ft.

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

A6-829-103777

Q

360°

100%

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 SAE J-765.
- 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).

	41.3 - 128 ft.	56 ft.	20 - 40 ft.	0		100% 24' 0"	Q 360°
32				Pounds	;		
		76 ft. (56 ft. L	ENGTH + 1	INSERT)	96 ft. (56 ft.	LENGTH + 2	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	3,700 (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 (60)	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 ang (°) for indicated length (no load)	e 55.5	56.5	57	60	61.5	61.5
	Maximum boom length (ft.) at 0° boon angle (no load)	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.

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 SAE J-765.
- 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.

A6-829-103791

load handling

Permissible Line Pulls

16,800 lb.

17,160 lb.

Nominal

Cable Length

600 ft.

607 ft.

Line Pulls and Reeving Information

Cable Specs.

3/4" (19 mm) 6x37 Class, EIPS, IWRC Special Flexible

Min. Breaking Strength 58,800 lb. 3/4" (19 mm) Flex-X 35

Rotation Resistant (Non-rotating)

Min. Breaking Strength 85,800 lb.

Hoists

Main

Main & Aux.

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 capacity.

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.

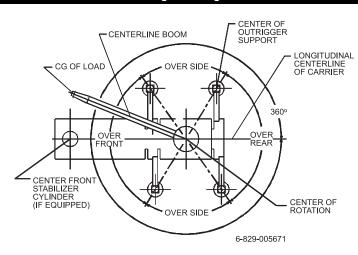
Weights are for Grove furnished equipment.

Hoist Performance									
Wire Rope Layer	Hoist Li Two Spe Low	Drum Capaci							
	Available lb.*	High 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 capa	acity: 6x36 or 35x7 cla	ass = 17,160 lb.						

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

Boom Section vs. Section Extension Percentages											
		Main Boom Length in Feet									
	41.3	50	60	70	80	90	100	110	120	128	
Boom sections	6:			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.



34



Notes

35





Manitowoc Crane Group - Americas Manitowoc, Wisconsin Facility Tel: [Int + 001] 920 684 6621 Fax: [Int + 001] 920 683 6277 Shady Grove, Pennsylvania Facility Tel: [Int + 001] 717 597 8121 Fax: [Int + 001] 717 597 4062 Manitowoc Crane Group - EMEA Europe Middle East & Africa Tel: [Int + 33] (0) 191 565 6281 Fax: [Int + 33] (0) 4 72 18 20 20 Manitowoc Crane Group - UK Europe Middle East & Africa Tel: [Int + 44] (0) 191 565 6281 Fax: [Int + 44] (0) 191 564 0442 Manitowoc Crane Group - Germany (Sales, Parts & Service) Tel: [Int + 49](0) 2173 8909 0 Fax: [Int + 49] (0) 2173 8909-30 Manitowoc Crane Group - France France & Africa (Sales, Parts & Service) Tel: [Int + 33] (0) 1 303 13150 Fax: [Int + 33] (0) 1 303 86085 Manitowoc Crane Group - Netherlands (Sales, Parts & Service) Tel: [Int + 31] (0) 76 578 39 99 Fax: [Int + 31] (0) 76 578 39 78 Manitowoc Crane Group - Italy Italy & Southern Europe (Sales, Parts & Service) Tel: [Int + 39] (0) 331 49 33 11 Fax: [Int + 39] (0) 331 49 33 30 Manitowoc Crane Group - Portugal Portugal & Spain (Sales, Parts & Service) Tel: [Int + 351] (0) 22 968 08 89 Fax: [Int + 351] (0) 22 968 08 97 Manitowoc Crane Group - Singapore Asia/Pacific excl China (Sales, Parts & Service) Tel: [Int + 65] 6861 1733 Fax: [Int + 65] 6862 4040 / 4142 Manitowoc Crane Group - Shanghai China (Sales, Parts & Service) Tel: [Int + 86] (0) 21 64955555 Fax: [Int + 86] (0) 2164852038 Manitowoc Crane Group - Beijing China (Sales, Parts & Service) Tel: [Int + 86] (0) 10 646 71690 Fax: [Int + 86] (0) 10 646 71691 Manitowoc Crane Group - Middle East (Sales) Tel: [Int + 971] (0) 4 348 4478 Fax: [Int + 971] (0) 4 348 4478 (Parts & Service) Tel: [Int + 973] (0) 9 660 899 Fax: [Int + 973] (0) 2 707 740

Distributed By:



www.manitowoccranegroup.com

