

Grove TMS800E

Product Guide



- 12,6 m 39 m (41 ft 128 ft) four-section full power MEGAFORM™ boom
- 10 m 17 m (33 ft 56 ft) manual offset
- 2 x 20 ft intermediate lattice inserts
- 10 886 kg (24,000 lb) counterweight with hydraulic removal system
- Cummins QSM 402, six-cylinder after cooled 300 kW (402 hp) engine
- Front and rear air ride suspension

Features



MEGAFORM™ boom

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



Lattice extension

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



Suspension system

Standard front and rear air ride suspension provides a comfortable ride at maximum speed of 105 km/h (65 mph).



Cummins diesel carrier engine

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

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Specifications

Superstructure



Boom

12,5 m - 39 m (41 ft - 128 ft) four section, full power MEGAFORM™ boom. Maximum tip height: 41,1 m (135 ft).



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 $+78^{\circ}$.



Offsettable lattice extension

10 m - 17 m (33 ft - 56 ft) bifold lattice swingaway extension, manual offsettable at 0°, 20° and 40°. Maximum tip height: 58,2 m (191 ft)



* Optional lattice extension

Two 6,1 m (20 ft) inserts for use with lattice swingaway extension to increase length up to 23,2 m (76 ft) or 29,3 m (96 ft).

Maximum tip height: 70,1 m (230 ft)



Load moment and 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 two-block 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

3629 kg (8000 lb) consisting of various sections with hydraulic installation/removal system.

*Optional "Heavy Lift" package consisting of (1) 1814 kg (4000 lb) and (1) 2722 kg (6000 lb) section, for a total of 8165 kg (18,000 lb).

*Optional "XL" counterweight package consisting of (1) 2721 kg (6000 lb) slab, (1) 1814 kg (4000 lb) slab and (2) 1361 kg (3000 lb) wing weights in addition to standard; for a total of 10 886 kg (24,000 lb) of counterweight.



Hydraulic system

1 piston and 3 gear type pumps with a total capacity of 678 l/m (179 gpm). Maximum operating pressure, 27,6 MPa (4000 psi).

Thermostatically controlled oil cooler keeps oil at optimum operating temperature. Tank capacity: 693 L (183 gal)



Hoist

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: 9185 kg (20,250 lb)

3rd layer: 7716 kg (17,010 lb) 5th layer: 6650 kg (14,660 lb)

Specifications

Superstructure continued

Maximum line speed: 157 m/min (514 fpm)

Maximum permissible line pull:

7620 kg (16 800 lb) 6x36 rope 7620 kg (16 800 lb) 35x7 rope

Rope diameter: 19 mm (3/4 in)

Rope length: 183 m (600 ft) main hoist

185 m (607 ft) auxiliary hoist

Rope type: 6 x 36 EIPS IWRC, Special Flexible

35 x 7 Class, Rotation Resistant

Maximum rope stowage: 256 m (841 ft)

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 610 mm (24 in) 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 QSM 402 10,8 L diesel Tier 3 (Off Highway EPA Certified) six cylinders, after cooled, 300 kW (402 bhp) (gross) @ 1800 RPM. Maximum torque 1898 Nm (1400 ft lb) @ 1400 RPM.

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

Fuel Requirement - Maximum of 5000 ppm sulfur content.



Fuel tank capacity

379 L (100 gal).



Transmission

Roadranger manual transmission with 11 speeds forward, three speeds reverse.



8 x 4 x 4.



Steering

Drive

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



Axles

Front: (2) beam-type steering axles, 2,12 m (83.4 in)

Rear: (2) single reduction drive axles, 1,89 m (74.5 in) track. Inter-axle differential locks.



Brakes

S-cam, dual air split system operating on all wheels. Spring-applied, air released parking brake acting on rear axles. Air dryer.



Suspension

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



Tires

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

Rear: 315/80R 22.5 tubeless, mounted on aluminum disc wheels, inner steel.



Lights

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

Specifications

Carrier continued



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, door lock, air horn, and air conditioning.



Electrical system

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



Maximum speed

104 km/h (65 mph)



Gradeability (theoretical)

70%

Miscellaneous standard equipment

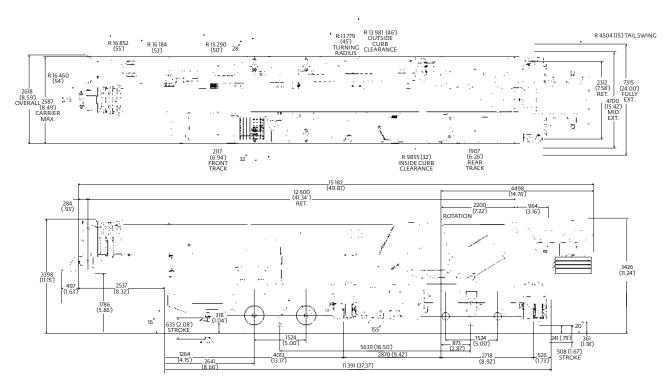
Aluminum fenders with rear storage compartments; dual rear view mirrors; electronic back-up alarm; sling/tool box; tire inflation kit; air cleaner restriction indicator; headache ball stowage; aluminum wheels, event recorder.

* Optional equipment

- Auxiliary Lighting and Convenience Package: Includes amber strobe for superstructure and carrier cab, dual boom base mounted floodlights and LMI light bar.
- Hook blocks
- Pintle hook (rear)
- Cross axle differential locks
- Trailing Boom Package
- Aluminum outrigger pads
- Counterweight Packages
- Tow cable
- Wind speed indicator
- Winterfront radiator cover

Dimensions

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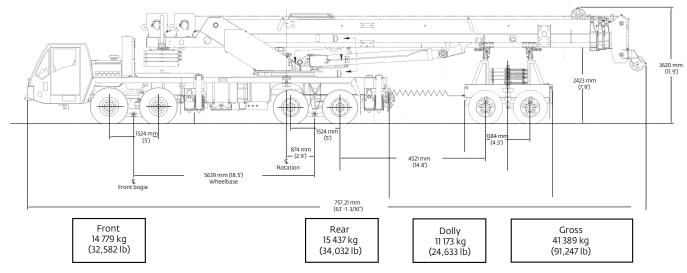


Note: Dimensions shown as mm (ft).

Unit configuration kg (lb)	Fr	ont	R	ear	Gr	oss
Basic machine including 128 ft main boom, 56 ft bifold swingaway, main and auxiliary hoists with cable, auxiliary boom nose, air conditioning in both cabs, 40 USt hook block tied to bumper, 10 USt headache ball stowed, zero counterweight, 200 lb driver	19 933	(43,943)	18 509	(40,804)	38 441	(84,747)
Add 4000 lb counterweight pinned to superstructure	18 965	(41,809)	21 298	(46,954)	40 263	(88,763)
Add 10,000 lb counterweight (6000 lb on deck/4000 lb pinned to superstructure)	21 261	(46,872)	21 729	(47,904)	42 990	(94,776)
Add 14,000 lb counterweight (8000 lb on deck/6000 lb pinned to superstructure)	21 549	(47,506)	23 261	(51,280)	44 809	(98,786)
Add 18,000 lb counterweight (8000 lb on deck/10,000 lb pinned to superstructure)	20 581	(45,372)	26 050	(57,430)	46 631	(102,802)
Substitute:						
Aluminum outrigger pads	-3	(-6)	-30	(-66)	-33	(-72)
Remove:						
33 ft-56 ft bifold swingaway	-1365	(-3010)	166	(365)	-1200	(-2645)
40 USt hook block	-602	(-1327)	229	(504)	-373	(-823)
10 USt headache ball	-380	(-838)	122	(270)	-258	(-568)
Auxiliary hoist with cable	84	(185)	-240	(-530)	-156	(-345)
Air conditioning - carrier	-36	(-80)	8	(17)	-29	(-63)
Air conditioning - superstructure	15	(32)	-102	(-225)	-88	(-193)
Effect per foot of extended boom:	-346	(762)	346	(-762)	0	(0)
Axle/tire allowable	22 317	(49,200)	27 216	(60,000)	49 533	(109,200)

Grove TMS800E

Travel proposals



Unit Configuration:

12,5 m - 39 m (41 ft - 128 ft) boom

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

Main and auxiliary hoists with cable

40 USt hook block hanging from boom nose

10 USt headache ball stowed in front tray

500 lb of rigging and cribbing

Driver

2 axle boom dolly [2722 kg (6,000 lb)]

No counterweight

Air conditioning, both cabs

Additions:

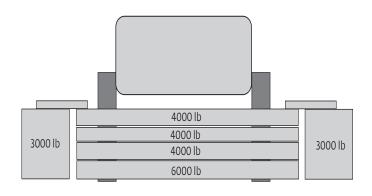
3629 kg (8000 lb) counterweight stowed on the chassis deck

4536 kg (10,000 lb) counterweight stowed on the boom dolly

Front 17 844 kg (39,339 lb)

Rear 16 012 kg (35,301 lb) Dolly 15 721 kg (34,659 lb) Gross 49 577 kg (109,299 lb)

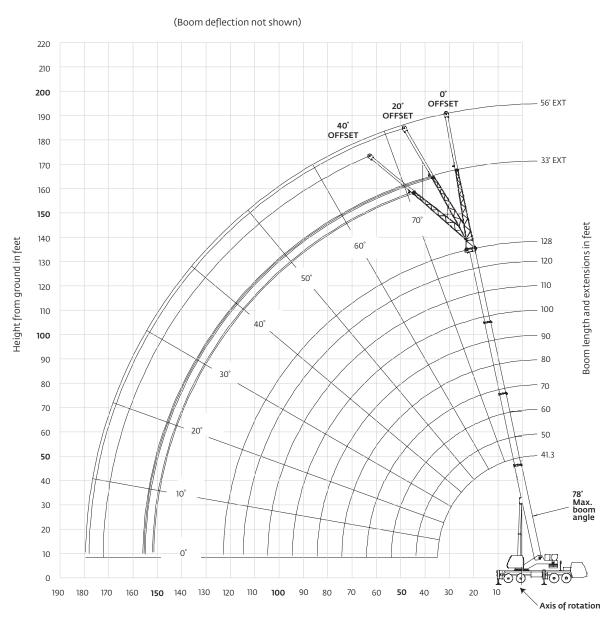
Counterweight configurations



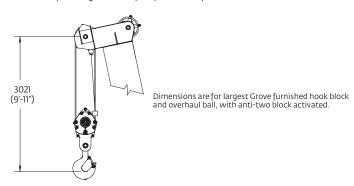
L	oad chart co	onfiguration	ıs
	4000 lb	6000 lb	3000 lb
0 lb			
4000 lb	Χ		
8000 lb	2X		
10,000 lb	Χ	X	
12,000 lb	3X		
14,000 lb	2X	Χ	
18,000 lb	3X	X	
24,000 lb	3X	X	2X

Working range

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

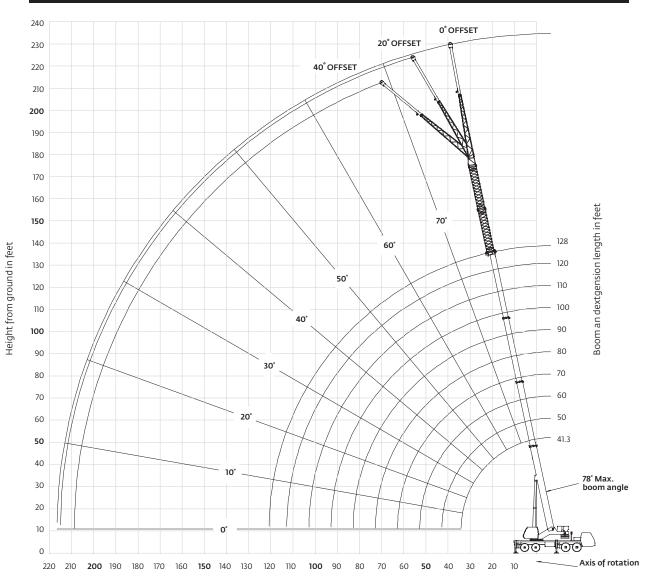


Operating radius in feet from axis of rotation

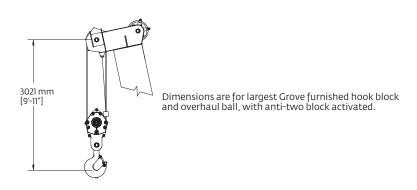


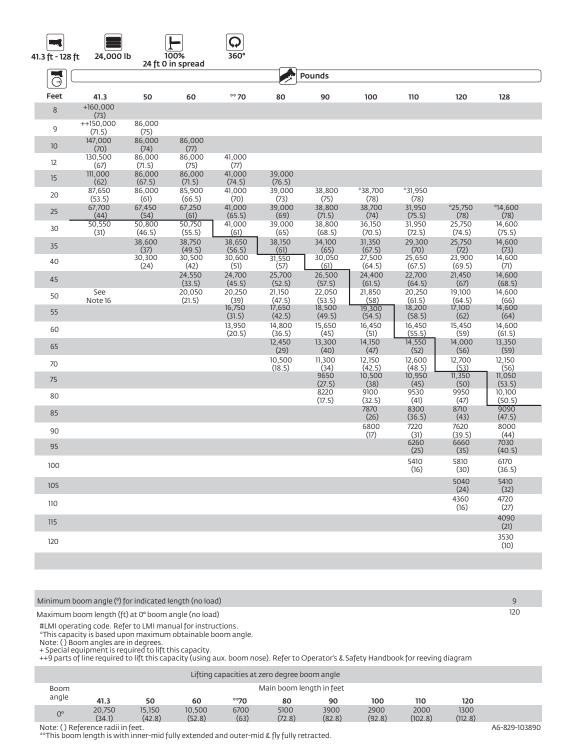
Working range

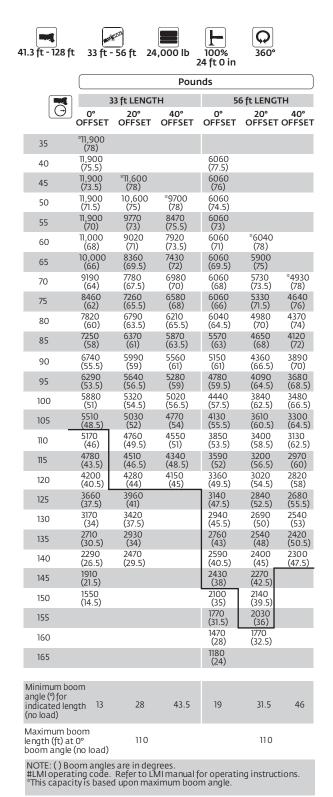
41.3 ft – 128 ft main boom + 33 ft – 56 ft lattice extension + 20 ft or 40 ft insert



Operating radius in feet from axis of rotation







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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 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).



Pounds											
	76 ft (56 ft LENGTH + 1 INSERT) 96 ft (56 ft LENGTH + 2 INSERT										
Θ	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET					
50	4850 (77.5)										
55	4850 (76)			3520 (78)							
60	4850 (74.5)			3520 (77)							
65	4850 (73)	*5290 (78)		3520 (75.5)							
70	4850 (71.5)	4860 (76.5)		3520 (74)							
75	4850 (70)	4470 (75)		3520 (72.5)	3740 (77)						
80	4730 (68.5)	4110 (73.5)	4050 (77)	3520 (71.5)	3420 (75.5)						
85	4310 (67)	3790 (72)	3500 (75.5)	3300 (70)	3100 (74.5)	*3250 (78)					
90	3940 (65.5)	3500 (70)	3260 (73.5)	2970 (68.5)	2820 (73)	2720 (76)					
95	3610 (63.5)	3240 (68.5)	3030 (72)	2660 (67)	2560 (71.5)	2490 (74.5)					
100	3310 (62)	3000 (67)	2830 (70.5)	2390 (65.5)	2320 (70)	2270 (73)					
105	3040 (60.5)	2770 (65)	2630 (68.5)	2140 (64)	2100 (68.5)	2070 (71.5)					
110	2790 (59)	2570 (63.5)	2450 (66.5)	1920 (62.5)	1900 (67)	1890 (70)					
115	2560 (57)	2370 (61.5)	2280 (65)	1710 (61)	1710 (65.5)	1710 (68.5)					
120	2350 (55.5)	2200 (60)	2120 (63)	1520 (59.5)	1540 (64)	1550 (66.5)					
125	2160 (53.5)	2030 (58)	1970 (61)	1350 (58)	1380 (62.5)	1390 (65)					
130	1990 (52)	1880 (56.5)	1830 (59)	1190 (56.5)	1230 (60.5)	1250 (63.5)					
135	1820 (50)	1730 (54.5)	1700 (57)	1040 (55)	1080 (59)	1110 (61.5)					
140	1670 (48)	1590 (52.5)	1570 (55)								
145	1530 (46)	1470 (50.5)	1450 (52.5)								
150	1400 (43.5)	1340 (48)	1340 (50.5)								
155	1270 (41.5)	1230 (46)	1230 (48)								
160	1160 (39)	1120 (43.5)	1130 (45)								
165	1050 (36.5)	1020 (40.5)									
Inimun ngle (°) f ndicated ength (n	for 35	39	43.5	53.5	58	60.5					
Aaximun ength (ft	n boom	70			70						
IOTE: ()	Boom angles erating code. F	are in deg Refer to LM	rees. II manual fo	or operating	instruction	S.					
This cap	acity is based	upon max	ımum boor	n angle.	1.6	.020_10200					

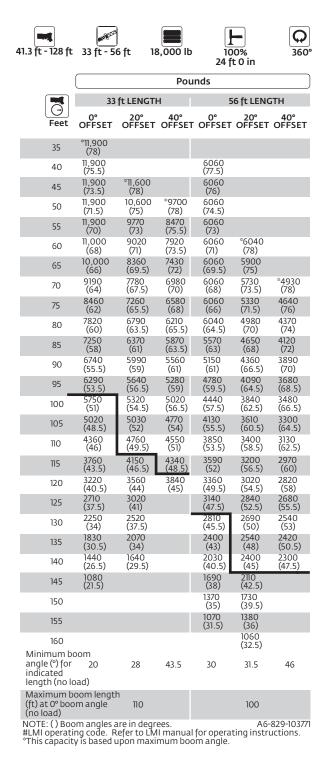
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NOTES:

- 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 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).

41.3 ft - 128 ft	18,000 lb	100		Q 360°						
		24 ft	O IN		P	ounds				
Feet	41.3	50	60	°° 70	Main boor 80	n length in fe 90	et 100	110	120	128
8	+160,000			,,						0
9	(73) ++150,000	86,000								
10	(71.5) 147,000	(75) 86,000	86,000							
12	(70) 130,500	(74) 86,000	(77) 86,000	41,000						
15	(67) 111,000 (62)	(71.5) 86,000 (67.5)	(75) 86,000 (71.5)	(77) 41,000 (74.5)	39,000 (76. E)					
20	87,650 (53.5)	86,000 (61)	85,900 (66.5)	41,000 (70)	(76.5) 39,000 (73)	38,800 (75)	*38,700 (78)	*31,950 (78)		
25	63,700	63,750	63,300	41,000	39,000	38,800	38,700	31,950	*25,750 (70)	*14,600 (78)
30	(44) 45,450	(54) 45,650	(61) 45,600	(65.5) 41,000 (61)	(69) 39,000	(71.5) 38,800	(74) 36,150	(75.5) 31,950	(78) 25,750	(78) 14,600
35	(31)	(46.5) 34,450	(55.5) 34,550 (40.5)	34,500	(65) 35,450	(68.5) 34,100 (65)	(70.5) 31,350 (67.5)	(72.5) 29,300 (70)	(74.5) 25,750 (72)	(75.5) 14,600
40		(37) 26,800	(49.5) 27,000 (42)	(56.5) 27,100	(61) 28,050	28,950	27,500 (64.5)	25,650	(72) 23,900	(73) 14,600 (71)
45		(24)	21,550	(51) 21,700	(57) 22,650 (52.5)	(61) 23,500	24,350	(67.5) 22,700	(69.5) 21,450	14,600
50			(33.5) 17,450 (21.5)	(45.5) 17,600 (39)	(52.5) 18,550 (47.5)	(57.5) 19,450	(61.5) 20,200 (58)	(64.5) 20,250 (61.5)	(67) 19,100 (64.5)	(68.5) 14,600 (66)
55			(21.3)	14,400	(47.5) 15,300	(53.5) 16,150	16,950	17,300	(64.5) 17,100	14,600 (64)
60				(31.5) 11,800 (20.5)	(42.5) 12,700	(49.5) 13,500 (45)	(54.5) 14,350 (51)	(58.5) 14,750 (55.5)	(62) 15,100 (50)	14,600 (61.5)
65				(20.3)	(36.5) 10,550 (29)	11,350	12,200 (47)	12,600 (52)	(59) 13,000 (56)	13,350 (59)
70					8760	(40) 9550 (24)	10,400 (42.5)	10,850	(56) 11,250	11,600 (56)
75					(18.5)	(34) 8010 (27.5)	8890 (38)	(48.5) 9320 (45)	(53) 9740 (50)	10,100 (53.5)
80						6690 (17.5)	7580 (32.5)	8010 (41)	8430 (47)	8790 (50.5)
85						(17.5)	6450 (26)	6880 (36.5)	7290 (43)	7670 (47.5)
90							5460 (17)	5880 (31)	6290 (39.5)	6670 (44)
95							(17)	5000 (25)	5410 (35)	5780 (40.5)
100								4220 (16)	4620 (30)	4990 (36.5)
105								(10)	3920 (24)	4280 (32)
110									3280 (16)	3650 (27)
115									(10)	3080 (21)
120										2560 (10)
	om angle (°) for									9
#LMI operatii *This capacit Note: () Boor + Special equi	om length (ft) a ng code. Refer t y is based upon m angles are in c ipment is requir ine required to l	o LMI manua maximum o degrees. ed to lift this	al for instruct btainable boo s capacity.	ions. om angle.). Refer to Ope	rator's & Safet	:y Handbook f	or reeving dia	ıgram.	120
Boom			Lifting c		ero degree boo Nain boom lend					
angle	41.3	50	60	°°70	80	90	100	110	120	
0°	20,750 (34.1)	15,150 (42.8)	10,500 (52.8)	6700 (63)	5100 (72.8)	3900 (82.8)	2900 (92.8)	2000 (102.8)	1300 (112.8)	
Note: () Refe	rence radii in fee	et.							A6-	829-103749

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



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).



(Pou	nds		
	76 ft (56 ft I	ENGTH +	1 INSERT)	96 ft (56 ft LE	NGTH+2	INSERTS)
Feet	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
50	4850 (77.5)					
55	4850 (76)			3520 (78)		
60	4850 (74.5)			3520 (77)		
65	4850 (73)	*5290 (78)		3520 (75.5)		
70	4850 (71.5)	4860 (76.5)		3520 (74)		
75	4850 (70)	4470 (75)		3520 (72.5)	3740 (77)	
80	4730 (68.5)	4110 (73.5)	4050 (77)	3520 (71.5)	3420 (75.5)	
85	4310 (67)	3790 (72)	3500 (75.5)	3300 (70)	3100 (74.5)	*3250 (78)
90	3940 (65.5)	3500 (70)	3260 (73.5)	2970 (68.5)	2820 (73)	2720 (76)
95	3610 (63.5)	3240 (68.5)	3030 (72)	2660 (67)	2560 (71.5)	2490 (74.5)
100	3310 (62)	3000 (67)	2830 (70.5)	2390 (65.5)	2320 (70)	2270 (73)
105	3040 (60.5)	2770 (65)	2630 (68.5)	2140 (64)	2100 (68.5)	2070 (71.5)
110	2790 (59)	2570 (63.5)	2450 (66.5)	1920 (62.5)	1900 (67)	1890 (70)
115	2560 (57)	2370 (61.5)	2280 (65)	1710 (61)	1710 (65.5)	1710 (68.5)
120	2350 (55.5)	2200 (60)	2120 (63)	1520 (59.5)	1540 (64)	1550 (66.5)
125	2160 (53.5)	2030 (58)	1970 (61)	1350 (58)	1380 (62.5)	1390 (65)
130	1990 (52)	1880 (56.5)	1830 (59)	1190 (56.5)	1230 (60.5)	1250 (63.5)
135	1820 (50)	1730 (54.5)	1700 (57)	1040 (55)	1080 (59)	1110 (61.5)
140	1670 (48)	1590 (52.5)	1570 (55)			
145	1530 (46)	1470 (50.5)	1450 (52.5)			
150	1400 (43.5)	1340 (48)	1340 (50.5)			
155	1160 (41.5)	1230 (46)	1230 (48)			
160		1120 (43.5)	1130 (45)			
Minimum boo angle (°) for indicated leng (no load)	20	40.5	43.5	53.5	58	60.5
Maximum bo length (ft) at boom angle (0°	70			70	
NOTE: () B	oom angle	are in de	egrees.		A6-82	9-103785

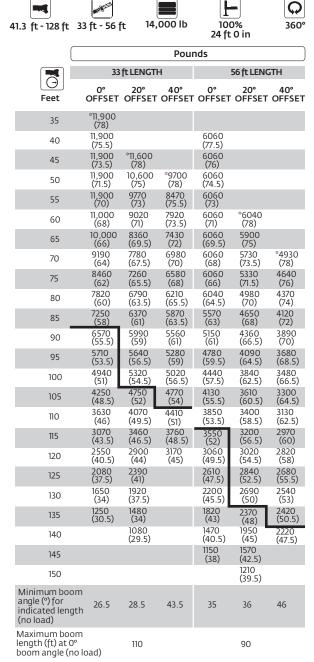
NOTE: () Boom angles are in degrees.
#LMI operating code. Refer to LMI manual for operating instructions.
*This capacity is based upon maximum boom angle.

NOTES:

- 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 ft- 128 ft	14,000 lb		0%	Q 360°						
		24 ft	t 0 in		Pou	nds				
Feet	41.3	50	60	°°70	Main boom ler 80	ngth in feet 90	100	110	120	128
8	++150,000	30	00	70	80	30	100	110	120	120
9	(73) ++150,000	86,000								
10	(71.5) 145,500 (70)	(75) 86,000 (74)	86,000 (77)							
12	129,000	86,000 (71.5)	86,000 (75)	41,000 (77)						
15	(67) 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 (75)	*38,700 (78)	*31,950 (78)		
25	59,150 (44)	59,150 (54)	58,700 (61)	41,000	(73) 39,000 (60)	38,800	38,700	31,950	*25,750 (78)	*14,600 (78)
30	41,950	42,150	42,100 (55.5)	(65.5) 41,000 (61)	(69) 39,000	(71.5) 38,800 (68.5)	(74) 36,150	(75.5) 31,950	25,750	14,600
35	(31)	(46.5) 31,600	31,750	31,700	(65) 32,600	33,600	(70.5) 31,350	(72.5) 29,300	(74.5) 25,750 (72)	(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	23,900	(73) 14,600
45		(24)	(42) 19,500	(51) 19,650	(57) 20,650 (52.5)	(61) 21,500 (57.5)	(64.5) 22,350 (61.5)	(67.5) 22,650 (64.5)	(69.5) 21,450	(71) 14,600 (68 E)
50			(33.5) 15,650 (21.5)	(45.5) 15,800	(52.5) 16,750	(57.5) 17,650	(61.5) 18,400 (58)	(64.5) 18,750	(67) 19,100 (64.5)	(68.5) 14,600
55			(21.5)	(39) 12,800	(47.5) 13,700	(53.5) 14,550	15,350	(61.5) 15,700 (58.5)	16,100	(66) 14,600
60				(31.5)	(42.5) 11,250	(49.5) 12,050	(54.5) 12,900	(58.5) 13,300	(62) 13,650	(64) 14,150
65				(20.5)	(36.5) 9240 (30)	(45) 10,050	(51) 10,900	(55.5) 11,300	(59) 11,700	(61.5) 12,100
70					(29) 7550	(40) 8350	(47) 9220	(52) 9650	(56) 10,050	(59) 10,400
75					(18.5)	(34) 6900	(42.5) 7780	(48.5) 8210	(53) 8630	(56) 8980
80						(27.5) 5660	(38) 6550	(45) 6980	(50) 7390	(53.5) 7760
85						(17.5)	(32.5) 5490	(41) 5910	(47) 6320	(50.5) 6700
90							(26) 4560	(36.5) 4980	(43) 5380	(47.5) 5770
95							(17)	(31) 4150	(39.5) 4550	(44) 4930
100								(25) 3420	(35) 3810	(40.5) 4190
105								(16)	(30) 3150 (24)	(36.5) 3520
110									2560	(32) 2930
115									(16)	(27) 2390
120										(21) 1900
	om angle (°) for									(10)
#LMI operati *This capacit Note: () Boor	oom length (ft) ng code. Refer y is based upon m angles are in ine required to	to LMI manu maximum o degrees.	al for instruct btainable boo city (using aux	ions. om angle. «. boom nose)			ty Handbook (for reeving dia	agram.	120
Boom			Lipung Ca	•	ero degree boo Main boom len					
angle	41.3 20,750	50 15,150	60 10,500	** 70 6700	80 5100	90 3900	100 2900	110 2000	120 1300	
0°	(34.1) rence radii in fe	(42.8)	(52.8)	(63)	(72.8)	(82.8)	(92.8)	(102.8)	(112.8)	829-103750

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



NOTE: () Boom 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:

- 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).













			Poun	ds		
7	6 ft (56 ft LEN	IGTH+1II	NSERT)	96 ft (56 ft L	ENGTH+	2 INSERTS)
Feet	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
50	4850 (77.5)					
55	4850 (76)			3520 (78)		
60	4850 (74.5)			3520 (77)		
65	4850 (73)	*5290 (78)		3520 (75.5)		
70	4850 (71.5)	4860 (76.5)		3520 (74)		
75	4850 (70)	4470 (75)		3520 (72.5)	3740 (77)	
80	4730 (68.5)	4110 (73.5)	4050 (77)	3520 (71.5)	3420 (75.5)	
85	4310 (67)	3790 (72)	3500 (75.5)	3300 (70)	3100 (74.5)	*3250 (78)
90	3940 (65.5)	3500 (70)	3260 (73.5)	2970 (68.5)	2820 (73)	2720 (76)
95	3610 (63.5)	3240 (68.5)	3030 (72)	2660 (67)	2560 (71.5)	2490 (74.5)
100	3310 (62)	3000 (67)	2830 (70.5)	2390 (65.5)	2320 (70)	2270 (73)
105	3040 (60.5)	2770 (65)	2630 (68.5)	2140 (64)	2100 (68.5)	2070 (71.5)
110	2790 (59)	2570 (63.5)	2450 (66.5)	1920 (62.5)	1900 (67)	1890 (70)
115	2560 (57)	2370 (61.5)	2280 (65)	1710 (61)	1710 (65.5)	1710 (68.5)
120	2350	2200	2120	1520	1540	1550
125	(55.5) 2160	(60) 2030	(63) 1970	(59.5) 1350	(64) 1380	(66.5) 1390
130	(53.5) 1990	(58) 1880	(61) 1830	(58) 1190	(62.5) 1230	(65) 1250
135	(52) 1820	(56.5) 1730	(59) 1700	(56.5) 1040	(60.5) 1080	(63.5) 1110
140	(50) 1600	(54.5) 1590	(57) 1570	(55)	(59)	(61.5)
145	(48) 1260	(52.5) 1470	(55) 1450			
150	(46)	(50.5) 1340	(52.5)			
155		(48) 1100	(50.5) 1230			
160		(46)	1020			
Minimum boo angle (°) for indicated leng (no load)	42 F	44.5	(45)	53.5	58	60.5
Maximum bollength (ft) at (boom angle (I	o° o load)	70			60	829-103786

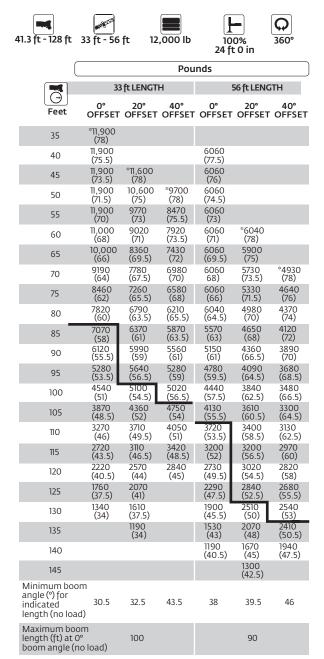
NOTE: () Boom angles are in degrees. A6-829-103786 #LMI operating code. Refer to LMI manual for operating instructions. *This capacity is based upon maximum boom angle.

NOTES:

- 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 ft - 128 f	t 12,000 lb	<u> </u>	- 0%	Q						
			t 0 in		Pour	ıds				
Feet					lain boom ler	gth in feet				
	41.3 ++150,000	50	60	°°70	80	90	100	110	120	128
8	(73) ++150,000	86,000								
9	(71.5) 145,000	(75) 86,000	86,000							
10	(70) 128,500	(74) 86,000	(77) 86,000	41,000						
12	(67)	(71.5)	(75)	(77)	30,000					
15	110,000 (62)	86,000 (67.5)	86,000 (71.5)	41,000 (74.5)	39,000 (76.5)					
20	83,950 (53.5)	83,650 (61)	83,450 (66.5)	41,000 (70)	39,000 (73)	38,800 (75)	*38,700 (78)	*31,950 (78)		
25	56,850 (44)	56,900 (54)	56,450 (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	40,200 (31)	40,400 (46.5)	40,350 (55.5)	40,050 (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	. ,	30,200 (37)	30,350 (49.5)	30,250 (56.5)	31,200 (61)	32,200 (65)	31,350 (67.5)	29,300 (70)	25,750 (72)	14,600 (73)
40		23,250 (24)	23,450 (42)	23,550 (51)	24,500 (57)	25,400 (61)	26,450 (64.5)	25,650 (67.5)	23,900 (69.5)	14,600 (71)
45		(24)	18,500	18,650	19,600	20,450	21,300	21,650	21,450 (67)	14,600
50			(33.5)	(45.5) 14,950	(52.5) 15,850	(57.5) 16,750	(61.5) 17,500	(64.5) 17,850	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) 9680	(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) 8580	(45) 9400	(51) 10,250	(55.5) 10,650	(59) 11,050	(61.5) 11,450
					(29) 6950	(40) 7750	(47) 8620	(52) 9050	(56) 9460	(59) 9810
70					(18.5)	(34) 6350	(42.5) 7230	(48.5) 7660	(53) 8080	(56) 8430
75						(27.5) 5140	(38) 6040	(45) 6460	(50) 6880	(53.5) 7240
80						(17.5)	(32.5)	(41)	(47)	(50.5)
85							5010 (26)	5430 (36.5)	5840 (43)	6220 (47.5)
90							4110 (17)	4520 (31)	4930 (39.5)	5320 (44)
95								3730 (25)	4120 (35)	4510 (40.5)
100								3020 (16)	3410 (30)	3790 (36.5)
105									2770 (24)	3140 (32)
110									2190 (16)	2560 (27)
115									(10)	2040 (21)
120										1570 (10)
1inimum b	oom angle (°) fo	r indicated le	ngth (no load)						9
LMI operat This capaci	oom length (ft) ing code. Refer ty is based upor om angles are in	to LMI manu n maximum o	al for instruct btainable boo	cions. om angle.						120
Boom			Lifting C	•	ero degree bo Main boom len					
angle	41.3	50	60	°°70	80	90	100	110	120	
0°	20,750 (34.1)	15,150 (42.8)	10,500 (52.8)	6700 (63)	5100 (72.8)	3900 (82.8)	2900 (92.8)	2000 (102.8)	1300 (112.8)	

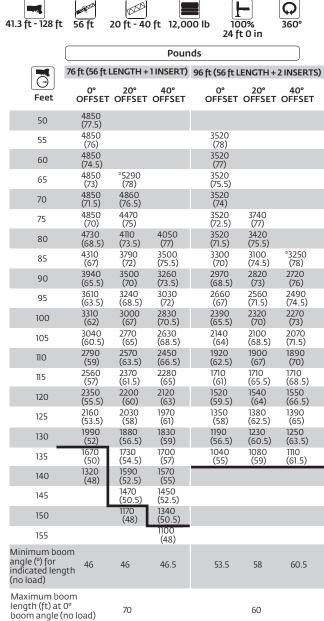
Note: () Reference radii in feet. **This boom length is with inner-mid fully extended and outer-mid & fly fully retracted.



NOTE: () Boom angles are in degrees. A6-829-103773 #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 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.
- 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).



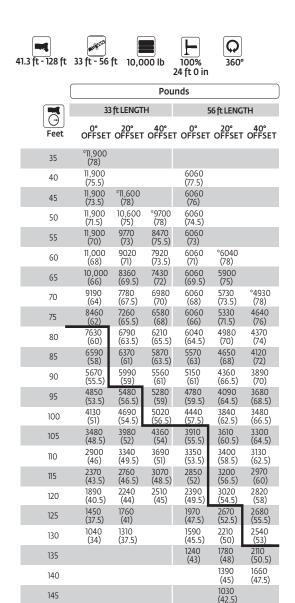
NOTE: () Boom angles are in degrees. A6-829-103787 #LMI operating code. Refer to LMI manual for operating instructions. *This capacity is based upon maximum boom angle.

NOTES:

- 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 ft - 128 f	10,000	b 10		Q 360°						
	10,0001		t 0 in		Pour	ıds				
[G] L				N.	lain boom le					
Feet	41.3 ++150,000	50	60	**70	80	90	100	110	120	128
8	(73) ++150,000	86,000								
9	(71.5) 144,500	(75) 86,000	86,000							
10	(70) 128,000	(74) 86,000	(77) 86,000	41,000						
12	(67) 109,500	(71.5) 86,000	(75) 86,000	(77) 41,000	39,000					
15	(62) 82,700	(67.5) 82,400	(71.5) 82,200	(74.5) 41,000	(76.5) 39,000	38,800	*38,700	*31,950		
20	(53.5) 54,550	(61) 54,600	(66.5) 54,150	(70) 41,000	(73) 39,000	(75) 38,800	(78) 38,700	(78) 31,950	*25,750	*14,600
25	(44) 38,450	(54) 38,650	(61) 38,600	(65.5) 38,300	(69) 39,000	(71.5) 38,800	(74) 36,150	(75.5) 31,950	(78) 25,750	(78) 14,600
30	(31)	(46.5) 28,800	(55.5) 28,950	(61) 28,850	(65) 29,800	(68.5) 30,750	(70.5) 31,350	(72.5) 29,300	(74.5) 25,750	(75.5) 14,600
35		(37)	(49.5) 22,300	(56.5) 22,400	(61) 23,300	(65)	(67.5) 25,250	(70)	(72)	(73) 14,600
40		22,100 (24)	(42)	(51)	(57)	24,200 (61)	(64.5)	25,500 (67.5)	23,900 (69.5) 20.900	(71)
45			17,500 (33.5)	17,650 (45.5)	18,600 (52.5)	19,450 (57.5)	20,300 (61.5)	20,600 (64.5)	(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				8960 (20.5)	9810 (36.5)	10,650 (45)	11,450 (51)	11,850 (55.5)	12,250 (59)	12,700 (61.5)
65					7930 (29)	8740 (40)	9610 (47)	10,000 (52)	10,400 (56)	10,800 (59)
70					6350 (18.5)	7140 (34)	8020 (42.5)	8450 (48.5)	8850 (53)	9210 (56)
75						5790 (27.5)	6670 (38)	7100 (45)	7520 (50)	7870 (53.5)
80						4620 (17.5)	5520 (32.5)	5950 (41)	6360 (47)	6720 (50.5)
85							4520 (26)	4940 (36.5)	5350 (43)	5730 (47.5)
90							3650 (17)	4070 (31)	4470 (39.5)	4870 (44)
95								3300 (25)	3700 (35)	4080 (40.5)
100								2610 (16)	3000 (30)	3380 (36.5)
105									2390 (24)	2760 (32)
110									1830 (16)	2200 (27)
115										1700 (21)
120										1240 (10)
Maximum b #LMI operat *This capacit Note: () Boo	poom angle (°) oom length (ft ing code. Refer vy is based upor m angles are ir line required to) for 0° boom of to LMI manuon n maximum o n degrees.	angle (no load al for instruct btainable boo city (using au	d). ions. om angle. k. boom nose)	. Refer to Ope		ty Handbook f	or reeving dia	agram	9
Boom			, ,	N	1ain boom Ien	gth in feet				
angle	41.3 20,750	50 15,150	60 10,500	** 70 6700	80 5100	90 3900	100 2900	110 2000	120 1300	
0°	(34.1) rence radii in f	(42.8)	(52.8)	(63)	(72.8)	(82.8)	(92.8)	(102.8)	(112.8)	A6-829-103752

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



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

100

43.5

40.5

41.5

80

46

Minimum boom angle (°) for 33 indicated length

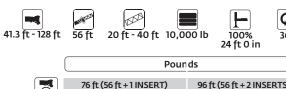
(no load)

Maximum boom
length (ft) at 0° boom

angle (no load)

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 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).



			Pound	ds		
	76 ft (56 f	t+1INSE	RT)	96 ft (56	ft+2INS	ERTS)
Feet	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
50	4850 (77.5)					
55	4850 (76)			3520 (78)		
60	4850 (74.5)			3520 (77)		
65	4850 (73)	*5290 (78)		3520 (75.5)		
70	4850 (71.5)	4860 (76.5)		3520 (74)		
75	4850 (70)	4470 (75)		3520 (72.5)	3740 (77)	
80	4730 (68.5)	4110 (73.5)	4050 (77)	3520 (71.5)	3420 (75.5)	
85	4310 (67)	3790 (72)	3500 (75.5)	3300 (70)	3100 (74.5)	*3250 (78)
90	3940 (65.5)	3500 (70)	3260 (73.5)	2970 (68.5)	2820 (73)	2720 (76)
95	3610 (63.5)	3240 (68.5)	3030 (72)	2660 (67)	2560 (71.5)	2490 (74.5)
100	3310 (62)	3000 (67)	2830 (70.5)	2390 (65.5)	2320 (70)	2270 (73)
105	3040 (60.5)	2770 (65)	2630 (68.5)	2140 (64)	2100 (68.5)	2070 (71.5)
110	2790 (59)	2570 (63.5)	2450 (66.5)	1920 (62.5)	1900 (67)	1890 (70)
115	2560 (57)	2370 (61.5)	2280 (65)	1710 (61)	1710 (65.5)	1710 (68.5)
120	2350 (55.5)	2200 (60)	2120 (63)	1520 (59.5)	1540 (64)	1550 (66.5)
125	2150 (53.5)	2030 (58)	1970 (61)	1350 (58)	1380 (62.5)	1390 (65)
130	1750 (52)	1880 (56.5)	1830 (59)	1190 (56.5)	1230 (60.5)	1250 (63.5)
135	1380 (50)	1730 (54.5)	1700 (57)	1040 (55)	1080 (59)	1110 (61.5)
140	1040 (48)	1590 (52.5)	1570 (55)			
145		1240 (50.5)	1450 (52.5)			
150			1200 (50.5)			
Minimum boom angle (°) for indicated length (no load)	46.5	48	48	54	58	60.5
Maximum boor length (ft) at 0° boom angle (no		70			60	

NOTE: () Boom angles are in degrees. A6-829-103788 #LMI operating code. Refer to LMI manual for operating instructions. *This capacity is based upon maximum boom angle.

- 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 ft - 128 ft	8000 lb	10	0%	Q						
			t 0 in		Pour	nde .				
Ö					Main boom le					
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	86,000	86,000	41,000						
15	(67) 109,000	(71.5) 86,000	(75) 86,000	(77) 41,000	39,000					
20	(62) 81,450	(67.5) 80,150	(71.5) 79,250	(74.5) 41,000	(76.5) 39,000	38,800	*38,700	*31,950		
25	(53.5) 52,250	(61) 52,300	(66.5) 51,850	(70) 41,000	(73) 39,000	(75) 38,800	(78) 38,700	(78) 31,950	*25,750	*14,600
	(44) 36,700	(54) 36,900	(61) 36,850	(65.5) 36,600	(69) 37,650	(71.5) 38,700	(74) 36,150	(75.5) 31,950	(78) 25,750	(78) 14,600
30	(31)	(46.5) 27,400	(55.5) 27,500	(61) 27,450	(65) 28,400	(68.5) 29,350	(70.5) 30,850	(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		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)	14,600 (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)	14,600 (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)	14,600 (66)
55				10,400 (31.5)	11,300 (42.5)	12,150 (49.5)	12,950 (54.5)	13,300 (58.5)	13,700 (62)	14,300 (64)
60				8240 (20.5)	9100 (36.5)	9930 (45)	10,750 (51)	11,150 (55.5)	11,500 (59)	12,000 (61.5)
65				(====	7270 (29)	8090 (40)	8960 (47)	9360 (52)	9740 (56)	10,150 (59)
70					5750 (18.5)	6540 (34)	7420 (42.5)	7850 (48.5)	8250 (53)	8610 (56)
75					(10.5)	5230 (27.5)	6120	6550	6960	7310 (53.5)
80						4100	(38) 5000	(45) 5430	(50) 5840	6210
85						(17.5)	(32.5) 4040	(41) 4460	(47) 4870	(50.5) 5250
90							(26) 3200	(36.5) 3620	(43) 4020	(47.5) 4420
							(17)	(31) 2870	(39.5) 3270	(44) 3660
95								(25) 2210	(35) 2600	(40.5) 2980
100								(16)	(30) 2000	(36.5) 2380
105									(24)	(32)
110									1470 (16)	1840 (27)
115										1350 (21)
	om angle (°) for oom length (ft)									9 102
#LMI operati *This capacit Note: () Boor	ng code. Refer y is based upon m angles are in ine required to	to LMI manu maximum o degrees.	al for instruct btainable boo	ions. om angle.). Refer to Ope	rator's & Safe	ty Handbook (for reeving dia	ıgram	102
				apacities at z	ero degree bo	om angle		-		
Boom angle	41.3	50	60	°°70	/lain boom ler 80	igth in feet 90	100	110	120	
0°	20,750 (34.1)	15,150 (42.8)	10,500 (52.8)	6700 (63)	5000 (72.8)	3540	2780	1870 (102.8)	1190	
Note: () Refe	rence radii in fe length is with ii	et.				(82.8)	(92.8)	(102.8)	(112.8)	A6-829-1037

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

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			Poun	ds		
	33 f	t LENGTI	1	5	6 ft LENG	TH
Feet	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20°	40°
35	*11,900 (78)					
40	11,900 (75.5)			6060 (77.5)		
45	11,900 (73.5)	*11,600 (78)		6060 (76)		
50	11,900 (71.5)	10,600 (75)	*9700 (78)	6060 (74.5)		
55	11,900 (70)	9770 (73)	8470 (75.5)	6060 (73)		
60	11,000 (68)	9020 (71)	7920 (73.5)	6060 (71)	*6040 (78)	
65	10,000 (66)	8360 (69.5)	7430 (72)	6060 (69.5)	5900 (75)	
70	9190 (64)	7780 (67.5)	6980 (70)	6060 (68)	5730 (73.5)	*4930 (78)
75	8280 (62)	7260 (65.5)	6580 (68)	6060 (66)	5330 (71.5)	4640 (76)
80	7120 (60)	6790 (63.5)	6210 (65.5)	6040 (64.5)	4980 (70)	4370 (74)
85	6100 (58)	6370 (61)	5870 (63.5)	5570 (63)	4650 (68)	4120 (72)
90	5210 (55.5)	5920 (59)	5560 (61)	5150 (61)	4360 (66.5)	3890 (70)
95	4430 (53.5)	5050 (56.5)	5280 (59)	4780 (59.5)	4090 (64.5)	3680 (68.5)
100	3730 (51)	4290 (54.5)	4720 (56.5)	4120 (57.5)	3840 (62.5)	3480 (66.5)
105	3100 (48.5)	3600 (52)	3980 (54)	3530 (55.5)	3610 (60.5)	3300 (64.5)
110	2540 (46)	2980 (49.5)	3320 (51)	2990 (53.5)	3400 (58.5)	3130 (62.5)
115	2030 (43.5)	2420 (46.5)	2720 (48.5)	2510 (52)	3200 (56.5)	2970 (60)
120	1560 (40.5)	1910 (44)	2180 (45)	2060 (49.5)	2840 (54.5)	2820 (58)
125	1130 (37.5)	1440 (41)		1660 (47.5)	2350 (52.5)	2680 (55.5)
130		1010 (37.5)		1290 (45.5)	1900 (50)	2310 (53)
135					1490 (48)	1820 (50.5)
140					1110 (45)	1380 (47.5)
Minimum bo angle (°) for indicated len (no load)	36.5	36.5	4.35	43	44	46
Maximum bo length (ft) at boom angle (0°	90			80	

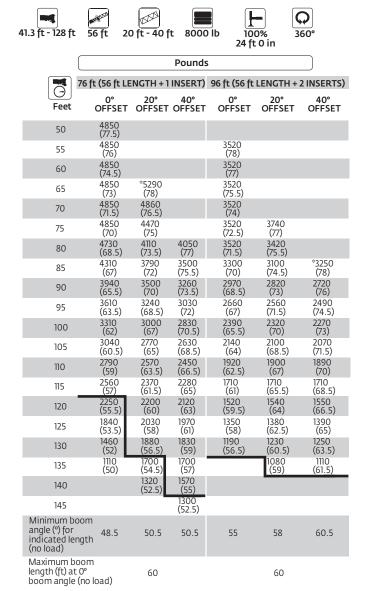
NOTES:

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).

NOTE: () Boom angles are in degrees. A6-829-1037 #LMI operating code. Refer to LMI manual for operating instructions. *This capacity is based upon maximum boom angle.

A6-829-103775



NOTE: () Boom angles are in degrees. A #LMI operating code. Refer to LMI manual for operating instructions. *This capacity is based upon maximum boom angle. A6-829-103789

NOTES:

- 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.

1.3 ft - 128 ft	4000 lb	100 24 ft		Q 360°						
		24 0	0 111		Pour	ıds				
Feet	41.3	50	60	™ **70	lain boom le 80	ngth 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)	*14,60 (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)	14,60 (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)	14,60 (71)
45			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	12,250 (47.5)	13,150 (53.5)	13,900	14,250 (61.5)	14,600 (64.5)	14,60 (66)
55			(=:::)	8830 (31.5)	9720 (42.5)	10,550 (49.5)	11,350 (54.5)	11,700 (58.5)	12,100 (62)	12,700 (64)
60				6800 (20.5)	7650 (36.5)	8490 (45)	9320 (51)	9710 (55.5)	10,050 (59)	10,550
65				(20.3)	5960 (29)	6770 (40)	7660 (47)	8040 (52)	8430 (56)	8840 (59)
70					4540 (18.5)	5340 (34)	6220 (42.5)	6650 (48.5)	7050 (53)	7400 (56)
75					(1212)	4120 (27.5)	5010 (38)	5440 (45)	5850 (50)	6200 (53.5)
80						3070 (17.5)	3970 (32.5)	4400 (41)	4810 (47)	5170 (50.5
85						(17.3)	3080 (26)	3500 (36.5)	3910 (43)	4280 (47.5)
90							2300	2710 (31)	3110 (39.5)	3510 (44)
95							(17)	2020 (25)	2420 (35)	2810 (40.5
100								1400 (16)	1790 (30)	2170 (36.5
105								(10)	1240 (24)	1580
110									(24)	1050
/limimum bo	oom angle (°)		_						23	(27)
LMI operatir This capacity Iote: () Boor	om length (f ng code. Refe y is based up n angles are ne required t	er to LMI ma on maximun in degrees.	nual for instr n obtainable nacity (using	uctions. boom angle	ose). Refer to	o Operator's & boom angle	Safety Han	dbook for ree	eving diagrar	110 n
Boom	43.5	F.C.			lain boom le	J 1	100	11.5		
angle 0°	41.3 20,750	50 15,150	60 9680	** 70 5760	80 3850	90 2550	1900	110		
	(34.1) rence radii in	(42.8) feet.	(52.8) ully extended	(63)	(72.8)	(82.8)	(92.8)	(102.8)	A	6-829-103

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		Pounds								
	33	ft LENGTH		5	6 ft LENG	ТН				
Feet	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET				
35	*11,900 (78)									
40	11,900 (75.5)			6060 (77.5)						
45	11,900 (73.5)	*11,600 (78)		6060 (76)						
50	11,900 (71.5)	10,600 (75)	*9700 (78)	6060 (74.5)						
55	11,900 (70)	9770 (73)	8470 (75.5)	6060 (73)						
60	11,000 (68)	9020 (71)	7920 (73.5)	6060 (71)	*6040 (78)					
65	9930 (66)	8360 (69.5)	7430 (72)	6060 (69.5)	5900 (75)					
70	8440 (64)	7780 (67.5)	6980 (70)	6060 (68)	5730 (73.5)	*4930 (78)				
75	7170 (62)	7260 (65.5)	6580 (68)	6060 (66)	5330 (71.5)	4640 (76)				
80	6080 (60)	6790 (63.5)	6210 (65.5)	6040 (64.5)	4980 (70)	4370 (74)				
85	5140 (58)	5870 (61)	5870 (63.5)	5570 (63)	4650 (68)	4120 (72)				
90	4310 (55.5)	4970 (59)	5540 (61)	4900 (61)	4360 (66.5)	3890 (70)				
95	3570 (53.5)	4180 (56.5)	4680 (59)	4160 (59.5)	4090 (64.5)	3680 (68.5)				
100	2920 (51)	3480 (54.5)	3910 (56.5)	3470 (57.5)	3840 (62.5)	3480 (66.5)				
105	2340 (48.5)	2830 (52)	3220 (54)	2850 (55.5)	3610 (60.5)	3300 (64.5)				
110	1810 (46)	2250 (49.5)	2590 (51)	2300 (53.5)	3180 (58.5)	3130 (62.5)				
115	1330 (43.5)	1720 (46.5)	2030 (48.5)	1820 (52)	2640 (56.5)	2970 (60)				
120		1240 (44)	1520 (45)	1400 (49.5)	2150 (54.5)	2740 (58)				
125				1020 (47.5)	1710 (52.5)	2200 (55.5)				
130					1300 (50)	1700 (53)				
135						1240 (50.5)				
Minimum boo angle (°) for indicated length (no loa	40.5	42.5	43.5	46.5	48	49				
Maximum bo length (ft) at boom angle (0°	80			70					

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

NOTES:

- 2. The 33 ft extension length may be used with ingle 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							
	76 ft (56 ft	LENGTH +	+1 INSERT)	96 ft (56 ft	LENGTH+:	2 INSERTS)		
Feet	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET		
50	4850 (77.5)							
55	4850 (76)			3520 (78)				
60	4850 (74.5)			3520 (77)				
65	4850 (73)	*5290 (78)		3520 (75.5)				
70	4850 (71.5)	4860 (76.5)		3520 (74)				
75	4850 (70)	4470 (75)		3520 (72.5)	3740 (77)			
80	4730 (68.5)	4110 (73.5)	4050 (77)	3520 (71.5)	3420 (75.5)			
85	4310 (67)	3790 (72)	3500 (75.5)	3300 (70)	3100 (74.5)	*3250 (78)		
90	3940 (65.5)	3500 (70)	3260 (73.5)	2970 (68.5)	2820 (73)	2720 (76)		
95	3610 (63.5)	3240 (68.5)	3030 (72)	2660 (67)	2560 (71.5)	2490 (74.5)		
100	3310 (62)	3000 (67)	2830 (70.5)	2390 (65.5)	2320 (70)	2270 (73)		
105	3040 (60.5)	2770 (65)	2630 (68.5)	2140 (64)	2100 (68.5)	2070 (71.5)		
110	2580 (59)	2570 (63.5)	2450 (66.5)	1920 (62.5)	1900 (67)	1890 (70)		
115	2070 (57)	2370 (61.5)	2280 (65)	1710 (61)	1710 (65.5)	1710 (68.5)		
120	1600 (55.5)	2200 (60)	2120 (63)	1320 (59.5)	1540 (64)	1550 (66.5)		
125	1180 (53.5)	1970 (58)	1970 (61)		1380 (62.5)	1390 (65)		
130		1510 (56.5)	1830 (59)		1230 (60.5)	1250 (63.5)		
135		1090 (54.5)	1520 (57)			1110 (61.5)		
140			1130 (55)					
Minimum bo angle (°) for indicated length (no loa	52.5	53	53.5	58	59	60.5		
Maximum be length (ft) at boom angle	:0°	60			50			

NOTE: () Boom angles are in degrees. A6-829-103790 #LMI operating code. Refer to LMI manual for operating instructions. *This capacity is based upon maximum boom angle.

NOTES:

- 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 ft - 128 ft	0 lb	100 24 ft		Q 360°						
		24 (. 0 111		Pour	ds				
Feet					/ain boom lei	-				
8	41.3 ++150,000	50	60	**70	80	90	100	110	120	128
9	(73) ++150,000	86,000								
10	(71.5) 141,500	(75) 86,000	86,000							
12	(70) 125,500 (67)	(74) 86,000 (71.5)	(77) 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		
25	(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	*14,600
30	(44) 29,700	(54) 29,950	(61) 29,900	(65.5) 29,600	(69) 30,650	(71.5) 31,750	(74) 34,200 (70.5)	(75.5) 31,950	(78) 25,750	(78) 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
45		(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
50			(33.5) 9390	(45.5) 9570	(52.5) 10,450	(57.5) 11,350	(61.5) 12,100	(64.5) 12,600	(67) 13,100	(68.5) 13,600
55			(21.5)	(39) 7230	(47.5) 8120	(53.5) 8990	(58) 9770	(61.5) 10,200	(64.5) 10,700	(66) 11,100
60				(31.5) 5360	(42.5) 6210	(49.5) 7050	(54.5) 7880	(58.5) 8330	(62) 8790	(64) 9130
				(20.5)	(36.5) 4640	(45) 5460	(51) 6340	(55.5) 6780	(59) 7210	(61.5) 7520
65					(29) 3330	(40) 4130	(47) 5020	(52) 5480	(56) 5900	(59) 6200
70					(18.5)	(34) 3000	(42.5) 3900	(48.5) 4340	(53) 4760	(56) 5080
75						(27.5) 2030	(38) 2940	(45) 3370	(50) 3780	(53.5) 4110
80						(17.5)	(32.5)	(41) 2520	(47) 2920	(50.5) 3260
85							(26)	(36.5)	(43)	(47.5)
90							1390 (17)	1780 (31)	2170 (39.5)	2510 (44)
95								1130 (25)	1500 (35)	1820 (40.5)
100										1220 (36.5)
	boom angle (24	29	35
#LMI operat *This capaci Note: () Boo	boom length ing code. Refe ty is based upo om angles are i line required to	r to LMI manu on maximum o n degrees.	ial for instruct obtainable bo icity (using au	tions. oom angle. ux. boom nose	e). Refer to Op ero degree bo		ety Handboo	k for reeving c	100 Iiagram	
Boom angle	41.2	EO	60	°*70	Main boom Ien	gth in feet 90	110			
0°	41.3 20,750	13,750	8000	4390	2690	1550	1030			
Note: () Ref	(34.1) erence radii in length is with		(52.8) y extended ar	(63) nd outer-mid	(72.8) & fly fully retra	(82.8) cted.	(92.8)		A6-	829-103755

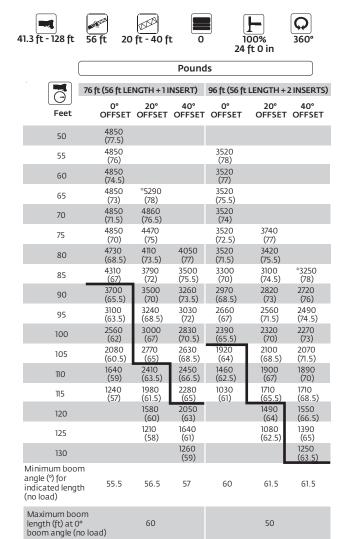


	Pounds								
	33	ftLENGTH	1	5	6 ft LENG	пн			
Feet	0°	20°	40°	0° OFFSET	20°	40°			
35	*11,900 (78)								
40	11,900 (75.5)			6060 (77.5)					
45	11,900 (73.5)	*11,600 (78)		6060 (76)					
50	11,900 (71.5)	10,600 (75)	*9700 (78)	6060 (74.5)					
55	11,900 (70)	9770 (73)	8470 (75.5)	6060 (73)					
60	10,050 (68)	9020 (71)	7920 (73.5)	6060 (71)	*6040 (78)				
65	8410 (66)	8360 (69.5)	7430 (72)	6060 (69.5)	5900 (75)				
70	7010 (64)	7640 (67.5)	6980 (70)	6060 (68)	5730 (73.5)	*4930 (78)			
75	5840 (62)	6460 (65.5)	6580 (68)	6030 (66)	5330 (71.5)	4640 (76)			
80	4840 (60)	5440 (63.5)	6070 (65.5)	5110 (64.5)	4980 (70)	4370 (74)			
85	3980 (58)	4560 (61)	5120 (63.5)	4310 (63)	4650 (68)	4120 (72)			
90	3230 (55.5)	3780 (59)	4290 (61)	3610 (61)	4360 (66.5)	3890 (70)			
95	2570 (53.5)	3100 (56.5)	3560 (59)	3000 (59.5)	4000 (64.5)	3680 (68.5)			
100	1990 (51)	2490 (54.5)	2910 (56.5)	2440 (57.5)	3380 (62.5)	3480 (66.5)			
105	1460 (48.5)	1940 (52)	2320 (54)	1950 (55.5)	2810 (60.5)	3300 (64.5)			
ПО		1440 (49.5)	1740 (51)	1510 (53.5)	2310 (58.5)	2920 (62.5)			
115			1220 (48.5)	1100 (52)	1850 (56.5)	2380 (60)			
120					1430 (54.5)	1900 (58)			
125					1040 (52.5)	1460 (55.5)			
130						1020 (53)			
Minimum boor angle (°) for indicated lengt (no load)	16	46.5	47.5	51	51.5	52			
Maximum boor length (ft) at 0° boom angle (no		70			60				

NOTE: () Boom angles are in degrees. A6-829-103777 #LMI operating code. Refer to LMI manual for operating instructions. *This capacity is based upon maximum boom angle.

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).



NOTE: () Boom angles are in degrees. A6-829-103791 #LMI operating code. Refer to LMI manual for operating instructions. *This capacity is based upon maximum boom angle.

NOTES:

- 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.

Load handling

Weight reductions for load handling devices

33 ft-56 ft folding boom extension	
*33 ft extension (erected)	5590 lb
*56 ft extension (erected)	13,060 lb
*76 ft extension (1 insert erected)	13,670 lb
*96 ft extension (2 inserts erected)	20,680 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
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Hookblocks and headache balls:	
75 Ust, 4 sheave	1275 lb +
40 Ust, 3 sheave	823 lb +
10 Ust, 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.

Boom section vs. section extension percentages

Main boom length in feet										
	41.3	50	60	70	80	90	100	110	120	128
Boom section	ns:			Per	cent e	extens	ion			
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

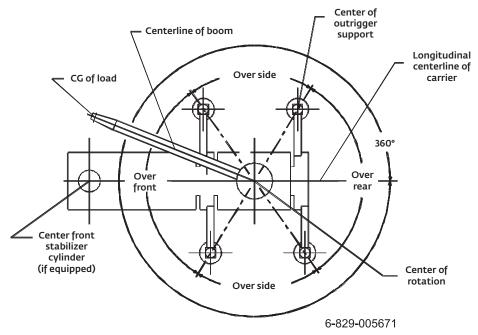
	Line pulls and reeving	informatio	on
		Permissible	e Nominal
Hoists	Cable/Specs.	Line pulls	Cable length
	3/4 in (19 mm) 6x37 Class,		
Main	EIPS, IWRC Special Flexible	16,800 lb	600 ft
	Min. Breaking Strength 58,800	lb	
	19 mm (.75 in) Flex-X 35		
Main & A	ux Rotation resistant	16,800 lb	607 ft
	(non-rotating)		
	Min breaking strength 85,800	lb	

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

Hoist performance									
Wire	re Hoist line pulls Dru								
Rope	Two spe	ed hoist	Capa	city (ft)					
Layer	Low	High							
	Available lb*	Available lb*	Layer	Total					
1	20,250	9610	101	101					
2	18,490	8770	110	211					
3	17,010	8070	120	331					
4	15,750	7470	129	460					
5	14,660	6960	139	599					

*Max. lifting capacity: 6x37 or 35x7 class = 17,160 lb

Working area diagram



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



Manitowoc Cranes

Regional headquarters

Americas

Manitowoc, Wisconsin, USA Tel: +1 920 684 6621 Fax: +1 920 683 6277

Shady Grove, Pennsylvania, USA

Tel: +17175978121 Fax: +17175974062

Europe, Middle East, Africa

Ecully, France Tel: +33 (0)472182020 Fax: +33 (0)472182000

China

Shanghai, China Tel: +86 21 6457 0066 Fax: +86 21 6457 4955

Greater Asia-Pacific

Singapore Tel: +65 6264 1188 Fax: +65 6862 4040

Regional offices

Americas

Brazil
Alphaville
Mexico
Monterrey
Chile
Santiago

Europe, Middle East,

Africa
Czech Republic
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