GROVE

TMS800E

product guide

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

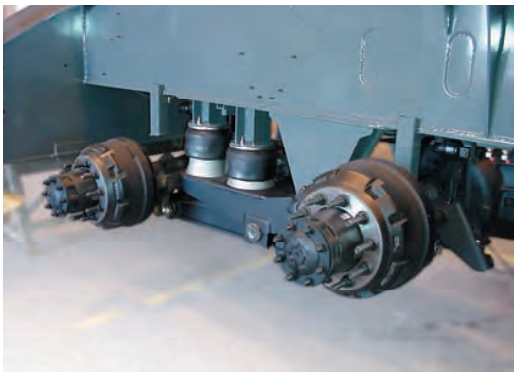
Truck Mounted Hydraulic Crane

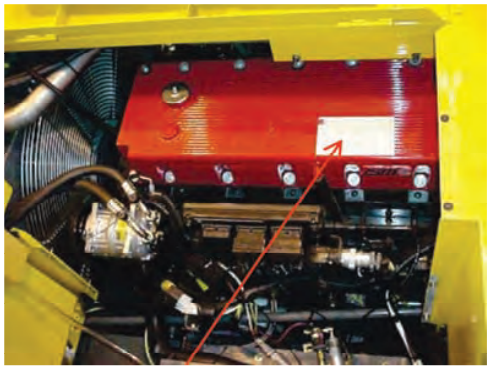
Manitowoc Crane Group

features

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.

Manitowoc Crane Group

specifications

Superstructure

Boom

41 ft. - 128 ft. (12.5 m - 39 m) four section, full power MegaForm boom.
Maximum Tip Height: 135 ft. (41.1 m).

Boom Nose

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

Boom Elevation

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

Offsettable Lattice Extension

33 - 56 ft. (10 - 17 m) bifold lattice swingaway extension, manual offsettable at 0°, 20° and 40°.
Maximum tip height: 191 ft. (58.2 m)

*Lattice Jib Extensions

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

Load Moment & Anti-Two Block System

Standard “Graphics Display” load moment and anti-two block system with audio-visual warning and control lever lockout. These systems provide electronic display of boom angle, boom length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending 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

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.

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)

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: 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 Line Pull:	16,800 lb. (7 620 kg) 6X36 rope 17,160 lb. (7 784 kg) 35X7 rope
Rope Diameter:	3/4 in. (19 mm)
Rope Length:	600 ft. (183 m) Main Hoist 607 ft. (185 m) Auxiliary Hoist
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).

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

Drive 8 x 4 x 4.

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

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

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.

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

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

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

Maximum Speed
65 MPH (104 kph)

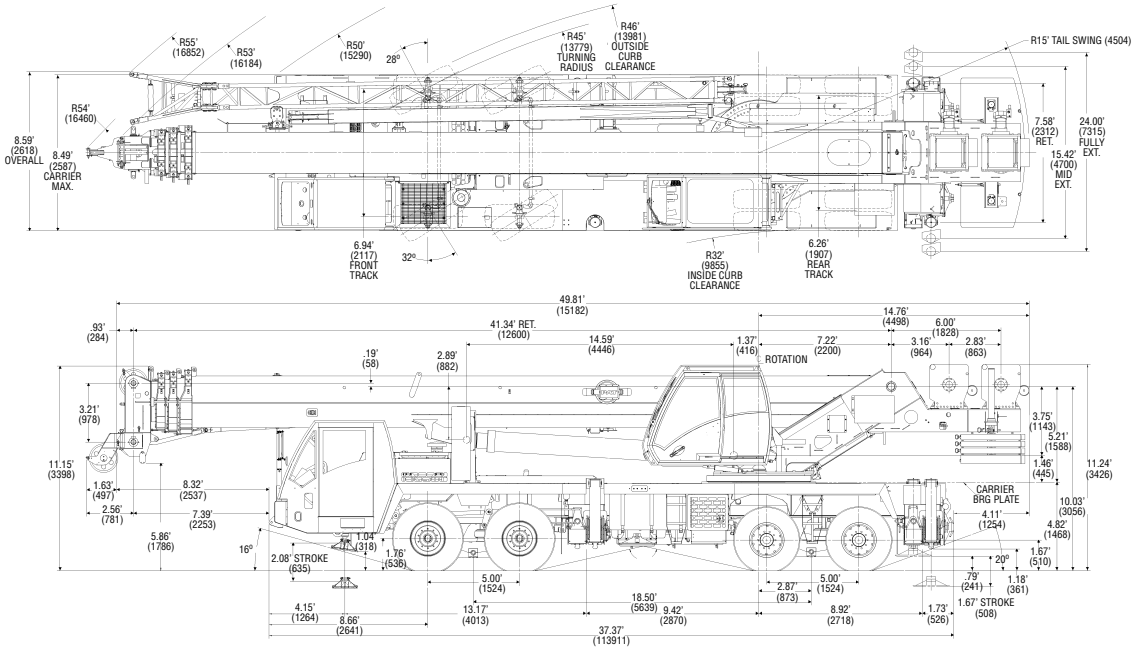
Gradeability (Theoretical)
70%

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
*Pintle hook (rear)
*Cross axle differential locks
*Trailing Boom Package
*Aluminum outrigger pads
*Air horn
*Heavy Counterweight package
*Tow cable
*LMI light bar
*Wind speed indicator
*Winterfront radiator cover

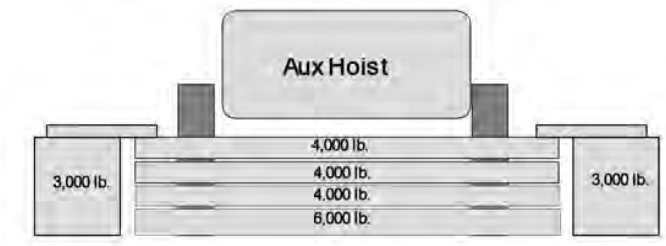
**Denotes optional equipment*

dimensions



Unit Configuration lb. (kg.)	Front		Rear		Gross	
Maximum Design Allowable Axle/Tire Loads	49,200	(22 317)	60,000	(27 216)	109,200	(49 533)
Basic machine including 128 ft. (39 m) main boom, main hoist with cable, full fuel & hydraulic oil, zero counterweight, 200 lb. driver	38,469	(17 450)	41,439	(18 796)	79,908	(36 246)
Add auxiliary hoist with cable, auxiliary boom nose, 500 lbs. rigging & 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	-838	(-380)	270	(122)	-568	(-258)
Auxiliary hoist cable	448	(203)	-1,237	(-561)	-789	(-358)
Effect per foot of extending boom:	762	(-346)	-762	(346)	0	(0)

Counterweight Configurations



Load Chart Configurations

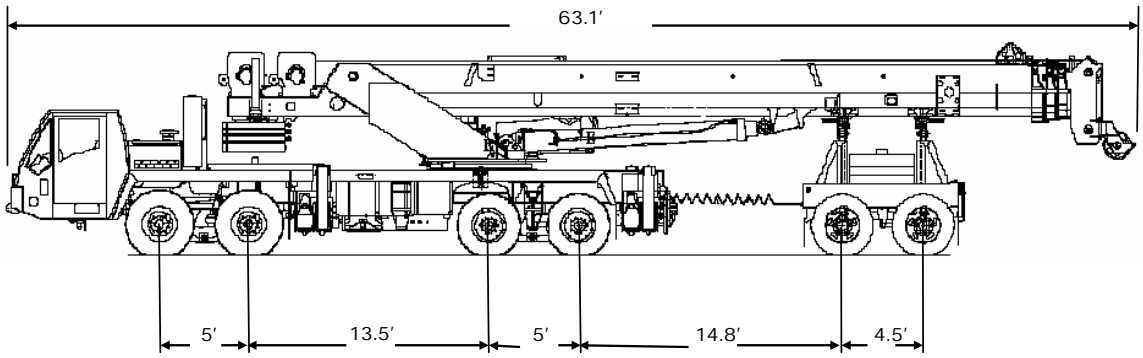
	4,000 lb.	6,000 lb.	3,000 lb.
8,000 lb.	2X		
10,000 lb.	X	X	
12,000 lb.	3X		
14,000 lb.	2X	X	
18,000 lb.	3X	X	
24,000 lb.	3X	X	2X

TMS800E

GROVE

dimensions

Boom over front



Front	Rear	Dolly
32,272 lb. (14 638 kg.)	33,609 lb. (15 245 kg.)	24,825 lb. (11 261 kg.)

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

Unit Configuration:
41–128 ft. (12.5-39 m) boom
33–56 ft. (10-17 m) stowed swingaway
Main and auxiliary hoists with cable
40 ton hook block hanging from boom nose
10 ton headache ball stowed in front tray
500 lbs of Rigging & Cribbing
Driver
2 axle boom dolly [6,200 lb. (2 812 kg.)]
No counterweight

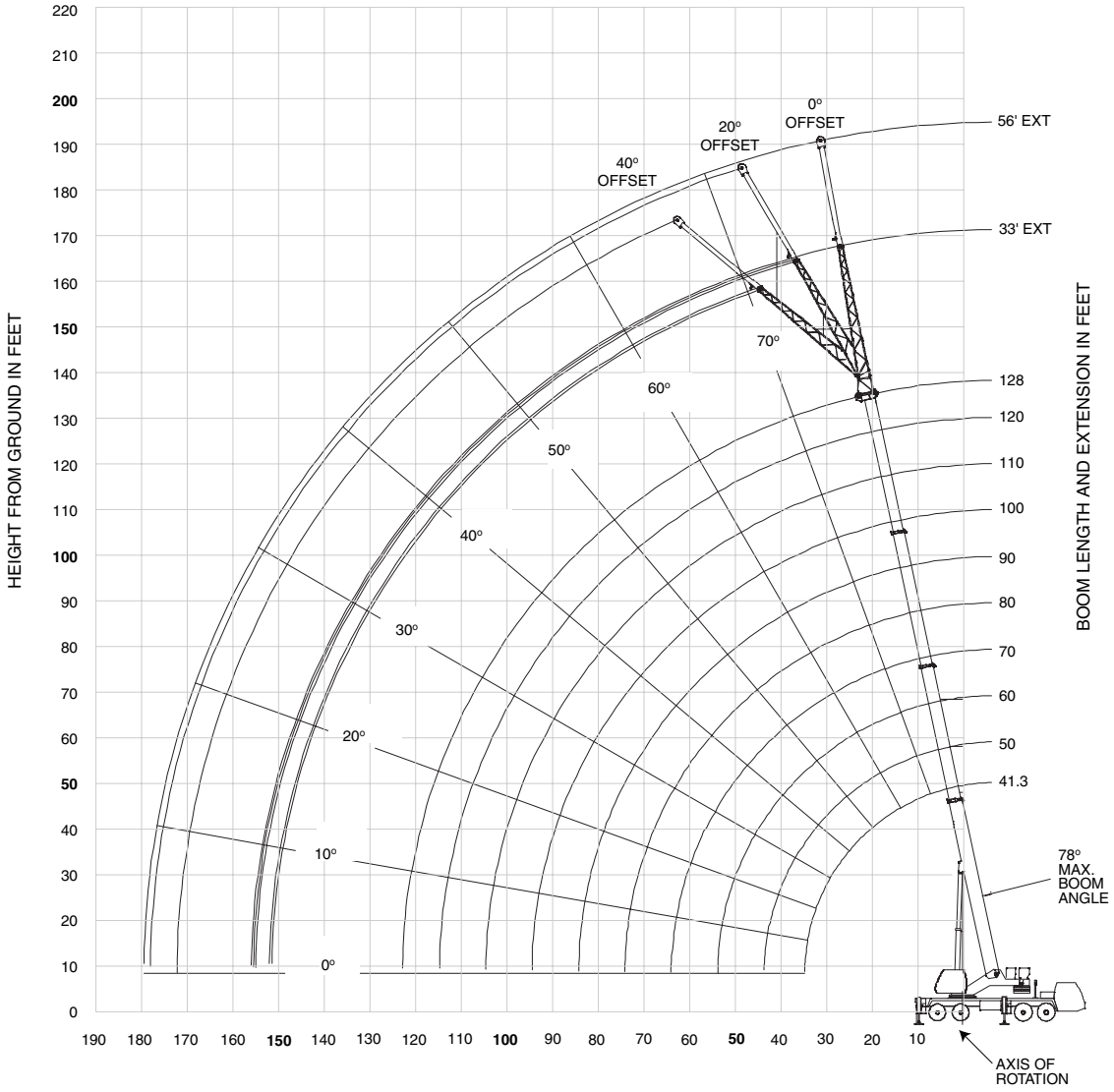
Additions:
8,000 lb. (3 629 kg.) counterweight stowed on the chassis deck
10,000 lb. (4 536 kg.) counterweight stowed on the boom dolly

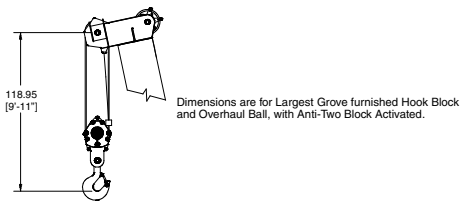
Front	Rear	Dolly	Gross
39,032 lb. (17 705 kg.)	34,878 lb. (15 821 kg.)	34,851 lb. (15 808 kg.)	108,761 lb. (49 334 kg.)

load charts

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

(BOOM DEFLECTION NOT SHOWN)





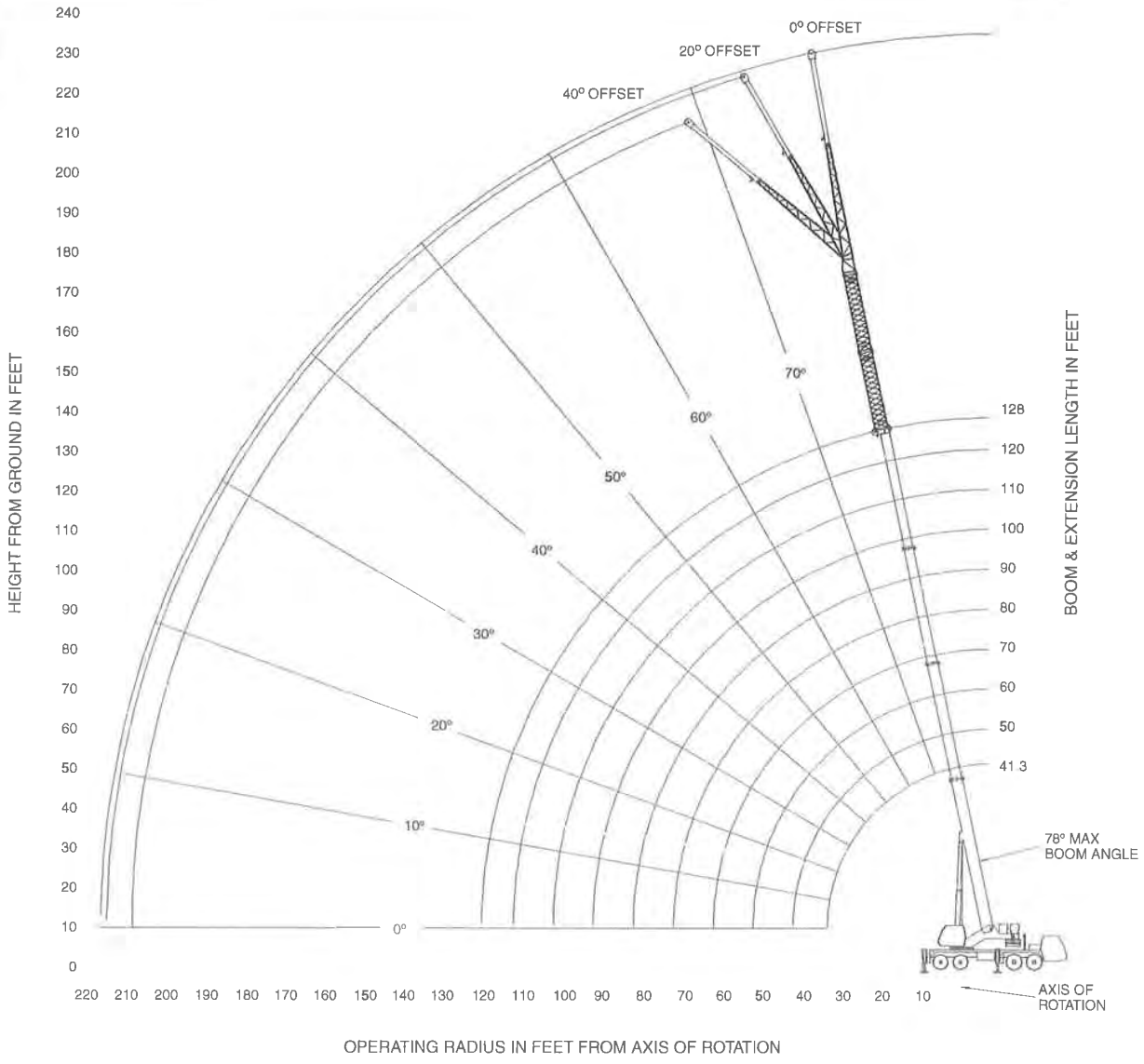
Dimensions are for Largest Grove furnished Hook Block and Overhaul Ball, with Anti-Two Block Activated.

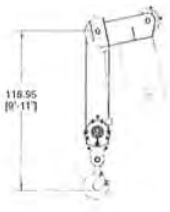
THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

GROVE

working range

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





Dimensions are for Largest Grove furnished Hook Block and Overhaul Ball, with Anti-Two Block Activated

GROVE.

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load charts

41.3-128 ft. | 24,000 lbs | 100% 24' 0" spread | 360°

Pounds

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

Minimum boom angle (deg.) for indicated length (no load)	9
Maximum boom length (ft.) at 0 deg. boom angle (no load)	120

#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 ° ,5 5,5 ,5 , 5, , , , ,	
. . 5.	

Note R eference radii in feet. A--
This o om length is with inner-mid full eten ded and outer-mid & fl full retra cted.

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TMS800E

GROVE

load charts

10

41.3 - 128 ft.	33-56 ft.	24,000 lbs	100% 24 ft. 0 in.	360°

Pounds

	33 ft. LENGTH			56 ft. LENGTH		
	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 (no load)	13	28	43.5	19	31.5	46
Maximum boom length (ft.) at 0° boom angle (no load)	110			110		

NOTE: ( ) Boom angles are in degrees. A6-829-103892
#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).

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load charts

41.3 - 128 ft.	33-56 ft.	20 - 40 ft.	24,000 lbs	100% 24 ft. 0 in.	360°

Pounds

	76 ft. (56 ft. LENGTH + 1 INSERT)			96 ft. (56 ft. LENGTH + 2 INSERTS		
	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
50	4,850 (77.5)					
55	4,850 (76)			3,520 (78)		
60	4,850 (74.5)			3,520 (77)		
65	4,850 (73)	*5,290 (78)		3,520 (75.5)		
70	4,850 (71.5)	4,860 (76.5)		3,520 (74)		
75	4,850 (70)	4,470 (75)		3,520 (72.5)	3,740 (77)	
80	4,730 (68.5)	4,110 (73.5)	4,050 (77)	3,520 (71.5)	3,420 (75.5)	
85	4,310 (67)	3,790 (72)	3,500 (75.5)	3,300 (70)	3,100 (74.5)	*3,250 (78)
90	3,940 (65.5)	3,500 (70)	3,260 (73.5)	2,970 (68.5)	2,820 (73)	2,720 (76)
95	3,610 (63.5)	3,240 (68.5)	3,030 (72)	2,660 (67)	2,560 (71.5)	2,490 (74.5)
100	3,310 (62)	3,000 (67)	2,830 (70.5)	2,390 (65.5)	2,320 (70)	2,270 (73)
105	3,040 (60.5)	2,770 (65)	2,630 (68.5)	2,140 (64)	2,100 (68.5)	2,070 (71.5)
110	2,790 (59)	2,570 (63.5)	2,450 (66.5)	1,920 (62.5)	1,900 (67)	1,890 (70)
115	2,560 (57)	2,370 (61.5)	2,280 (65)	1,710 (61)	1,710 (65.5)	1,710 (68.5)
120	2,350 (55.5)	2,200 (60)	2,120 (63)	1,520 (59.5)	1,540 (64)	1,550 (66.5)
125	2,160 (53.5)	2,030 (58)	1,970 (61)	1,350 (58)	1,380 (62.5)	1,390 (65)
130	1,990 (52)	1,880 (56.5)	1,830 (59)	1,190 (56.5)	1,230 (60.5)	1,250 (63.5)
135	1,820 (50)	1,730 (54.5)	1,700 (57)	1,040 (55)	1,080 (59)	1,110 (61.5)
140	1,670 (48)	1,590 (52.5)	1,570 (55)			
145	1,530 (46)	1,470 (50.5)	1,450 (52.5)			
150	1,400 (43.5)	1,340 (48)	1,340 (50.5)			
155	1,270 (41.5)	1,230 (46)	1,230 (48)			
160	1,160 (39)	1,120 (43.5)	1,130 (45)			
165	1,050 (36.5)	1,020 (40.5)				
Minimum boom angle (°) for indicated length (no load)	35	39	43.5	53.5	58	60.5
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).

TMS800E

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

load charts

12

41.3- 128 ft. | 18,000 lbs | 100% 24' 0" | 360°

Pounds

Feet	Main Boom Length in Feet 41.3	50	60	**70	80	90	100	110	120	128
8	+160,000 (73)									
9	++150,000 (71.5)	86,000 (75)								
10	147,000 (70)	86,000 (74)	86,000 (77)							
12	130,500 (67)	86,000 (71.5)	86,000 (75)	41,000 (77)						
15	111,000 (62)	86,000 (67.5)	86,000 (71.5)	41,000 (74.5)	39,000 (76.5)					
20	87,650 (53.5)	86,000 (61)	85,900 (66.5)	41,000 (70)	39,000 (73)	38,800 (75)	*38,700 (78)	*31,950 (78)		
25	63,700 (44)	63,750 (54)	63,300 (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	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)	14,600 (75.5)
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)	14,600 (73)
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)	14,600 (71)
45			21,550 (33.5)	21,700 (45.5)	22,650 (52.5)	23,500 (57.5)	24,350 (61.5)	22,700 (64.5)	21,450 (67)	14,600 (68.5)
50			17,450 (21.5)	17,600 (39)	18,550 (47.5)	19,450 (53.5)	20,200 (58)	20,250 (61.5)	19,100 (64.5)	14,600 (66)
55				14,400 (31.5)	15,300 (42.5)	16,150 (49.5)	16,950 (54.5)	17,300 (58.5)	17,100 (62)	14,600 (64)
60				11,800 (20.5)	12,700 (36.5)	13,500 (45)	14,350 (51)	14,750 (55.5)	15,100 (59)	14,600 (61.5)
65					10,550 (29)	11,350 (40)	12,200 (47)	12,600 (52)	13,000 (56)	13,350 (59)
70					8,760 (18.5)	9,550 (34)	10,400 (42.5)	10,850 (48.5)	11,250 (53)	11,600 (56)
75						8,010 (27.5)	8,890 (38)	9,320 (45)	9,740 (50)	10,100 (53.5)
80						6,690 (17.5)	7,580 (32.5)	8,010 (41)	8,430 (47)	8,790 (50.5)
85							6,450 (26)	6,880 (36.5)	7,290 (43)	7,670 (47.5)
90							5,460 (17)	5,880 (31)	6,290 (39.5)	6,670 (44)
95								5,000 (25)	5,410 (35)	5,780 (40.5)
100								4,220 (16)	4,620 (30)	4,990 (36.5)
105									3,920 (24)	4,280 (32)
110									3,280 (16)	3,650 (27)
115										3,080 (21)
120										2,560 (10)
Minimum boom angle (deg.) for indicated length (no load)										9
Maximum boom length (ft.) at 0 deg. boom angle (no load)										120

#LMI operating code. Refer to LMI manual for instructions.
*This capacity is based upon maximum obtainable boom angle.
Note: ( ) Boom angles are in degrees.
+ Special equipment is required to lift this capacity.
++9 parts of line required to lift this capacity (using aux. boom nose). Refer to Operator's & Safety Handbook for reeving diagram.

Lifting Capacities at Zero Degree Boom Angle

Boom Angle	Main Boom Length in Feet 41.3	50	60	**70	80	90	100	110	120
0°	20,750 (34.1)	15,150 (42.8)	10,500 (52.8)	6,700 (63)	5,100 (72.8)	3,900 (82.8)	2,900 (92.8)	2,000 (102.8)	1,300 (112.8)

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

A6-829-103749

TMS800E

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.

load charts

41.3 - 128 ft.	33 - 56 ft.	18,000 lbs	100% 24' 0"	360°

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

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:

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

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

load charts

14

41.3 - 128 ft.	56 ft.	20 - 40 ft.	18,000 lbs	100% 24' 0"	360°

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

NOTE: ( ) Boom angles are in degrees. A6-829-103785
#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 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.

TMS800E

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.

load charts

41.3 - 128ft. | 14,000 lbs | 100% 24' 0" | 360°

Pounds

Feet	Main Boom Length in 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	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 (31)	42,150 (46.5)	42,100 (55.5)	41,000 (61)	39,000 (65)	38,800 (68.5)	36,150 (70.5)	31,950 (72.5)	25,750 (74.5)	14,600 (75.5)
35		31,600 (37)	31,750 (49.5)	31,700 (56.5)	32,600 (61)	33,600 (65)	31,350 (67.5)	29,300 (70)	25,750 (72)	14,600 (73)
40		24,450 (24)	24,650 (42)	24,750 (51)	25,650 (57)	26,550 (61)	27,500 (64.5)	25,650 (67.5)	23,900 (69.5)	14,600 (71)
45			19,500 (33.5)	19,650 (45.5)	20,650 (52.5)	21,500 (57.5)	22,350 (61.5)	22,650 (64.5)	21,450 (67)	14,600 (68.5)
50			15,650 (21.5)	15,800 (39)	16,750 (47.5)	17,650 (53.5)	18,400 (58)	18,750 (61.5)	19,100 (64.5)	14,600 (66)
55				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						6,900 (27.5)	7,780 (38)	8,210 (45)	8,630 (50)	8,980 (53.5)
80						5,660 (17.5)	6,550 (32.5)	6,980 (41)	7,390 (47)	7,760 (50.5)
85							5,490 (26)	5,910 (36.5)	6,320 (43)	6,700 (47.5)
90							4,560 (17)	4,980 (31)	5,380 (39.5)	5,770 (44)
95								4,150 (25)	4,550 (35)	4,930 (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 (10)
Minimum boom angle (deg.) for indicated length (no load)										9
Maximum boom length (ft.) at 0 deg. boom angle (no load)										120

#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	Main Boom Length in Feet 41.3	50	60	**70	80	90	100	110	120
0°	20,750 (34.1)	15,150 (42.8)	10,500 (52.8)	6,700 (63)	5,100 (72.8)	3,900 (82.8)	2,900 (92.8)	2,000 (102.8)	1,300 (112.8)

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

A6-829-103750

TMS800E

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GROVE

load charts

16

41.3 - 128 ft.	33 - 56 ft.	14,000 lbs	100% 24' 0"	360°

Pounds

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

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:

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

GROVE

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load charts

41.3 - 128 ft.	56 ft.	20 - 40 ft.	14,000 lbs	100% 24' 0"	360°

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

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:

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.

TMS800E

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GROVE

load charts


41.3 - 128 ft.


12,000 lbs


100%
24' 0"


360°

18

Pounds

Feet	Main Boom Length in 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	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 (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			18,500 (33.5)	18,650 (45.5)	19,600 (52.5)	20,450 (57.5)	21,300 (61.5)	21,650 (64.5)	21,450 (67)	14,600 (68.5)
50			14,750 (21.5)	14,950 (39)	15,850 (47.5)	16,750 (53.5)	17,500 (58)	17,850 (61.5)	18,200 (64.5)	14,600 (66)
55				12,000 (31.5)	12,900 (42.5)	13,750 (49.5)	14,550 (54.5)	14,900 (58.5)	15,300 (62)	14,600 (64)
60				9,680 (20.5)	10,500 (36.5)	11,350 (45)	12,200 (51)	12,550 (55.5)	12,950 (59)	13,450 (61.5)
65					8,580 (29)	9,400 (40)	10,250 (47)	10,650 (52)	11,050 (56)	11,450 (59)
70					6,950 (18.5)	7,750 (34)	8,620 (42.5)	9,050 (48.5)	9,460 (53)	9,810 (56)
75						6,350 (27.5)	7,230 (38)	7,660 (45)	8,080 (50)	8,430 (53.5)
80						5,140 (17.5)	6,040 (32.5)	6,460 (41)	6,880 (47)	7,240 (50.5)
85							5,010 (26)	5,430 (36.5)	5,840 (43)	6,220 (47.5)
90							4,110 (17)	4,520 (31)	4,930 (39.5)	5,320 (44)
95								3,730 (25)	4,120 (35)	4,510 (40.5)
100								3,020 (16)	3,410 (30)	3,790 (36.5)
105									2,770 (24)	3,140 (32)
110									2,190 (16)	2,560 (27)
115										2,040 (21)
120										1,570 (10)
Minimum boom angle (deg.) for indicated length (no load)										9
Maximum boom length (ft.) at 0 deg. boom angle (no load)										120

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

Lifting Capacities at Zero Degree Boom Angle

Boom Angle	Main Boom Length in Feet									
	41.3	50	60	**70	80	90	100	110	120	
0°	20,750 (34.1)	15,150 (42.8)	10,500 (52.8)	6,700 (63)	5,100 (72.8)	3,900 (82.8)	2,900 (92.8)	2,000 (102.8)	1,300 (112.8)	

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

A6-829-103751

TMS800E

GROVE

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load charts


41.3 - 128 ft.


33 - 56 ft.


12,000 lbs


100%
24' 0"


360°

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

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:

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).

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GROVE

load charts

20

41.3 - 128 ft.	56 ft.	20 - 40 ft.	12,000 lbs	100% 24' 0"	360°

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

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:

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.

TMS800E

GROVE

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load charts

41.3 - 128 ft. | 10,000 lbs | 100% 24' 0" | 360°

Pounds

Feet	Main Boom Length in 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	144,500 (70)	86,000 (74)	86,000 (77)							
12	128,000 (67)	86,000 (71.5)	86,000 (75)	41,000 (77)						
15	109,500 (62)	86,000 (67.5)	86,000 (71.5)	41,000 (74.5)	39,000 (76.5)					
20	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)		
25	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)
30	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)
35		28,800 (37)	28,950 (49.5)	28,850 (56.5)	29,800 (61)	30,750 (65)	31,350 (67.5)	29,300 (70)	25,750 (72)	14,600 (73)
40		22,100 (24)	22,300 (42)	22,400 (51)	23,300 (57)	24,200 (61)	25,250 (64.5)	25,500 (67.5)	23,900 (69.5)	14,600 (71)
45			17,500 (33.5)	17,650 (45.5)	18,600 (52.5)	19,450 (57.5)	20,300 (61.5)	20,600 (64.5)	20,900 (67)	14,600 (68.5)
50			13,850 (21.5)	14,050 (39)	14,950 (47.5)	15,850 (53.5)	16,600 (58)	16,950 (61.5)	17,300 (64.5)	14,600 (66)
55				11,200 (31.5)	12,100 (42.5)	12,950 (49.5)	13,750 (54.5)	14,100 (58.5)	14,500 (62)	14,600 (64)
60				8,960 (20.5)	9,810 (36.5)	10,650 (45)	11,450 (51)	11,850 (55.5)	12,250 (59)	12,700 (61.5)
65					7,930 (29)	8,740 (40)	9,610 (47)	10,000 (52)	10,400 (56)	10,800 (59)
70					6,350 (18.5)	7,140 (34)	8,020 (42.5)	8,450 (48.5)	8,850 (53)	9,210 (56)
75						5,790 (27.5)	6,670 (38)	7,100 (45)	7,520 (50)	7,870 (53.5)
80						4,620 (17.5)	5,520 (32.5)	5,950 (41)	6,360 (47)	6,720 (50.5)
85							4,520 (26)	4,940 (36.5)	5,350 (43)	5,730 (47.5)
90							3,650 (17)	4,070 (31)	4,470 (39.5)	4,870 (44)
95								3,300 (25)	3,700 (35)	4,080 (40.5)
100								2,610 (16)	3,000 (30)	3,380 (36.5)
105									2,390 (24)	2,760 (32)
110									1,830 (16)	2,200 (27)
115										1,700 (21)
120										1,240 (10)
Minimum boom angle (deg.) for indicated length (no load)										9
Maximum boom length (ft.) at 0 deg. boom angle (no load)										120

#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	Main Boom Length in Feet 41.3	50	60	**70	80	90	100	110	120
0°	20,750 (34.1)	15,150 (42.8)	10,500 (52.8)	6,700 (63)	5,100 (72.8)	3,900 (82.8)	2,900 (92.8)	2,000 (102.8)	1,300 (112.8)

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

A6-829-103752

TMS800E

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GROVE

load charts


41.3 - 128 ft.


33 - 56 ft.


10,000 lbs


100%
24' 0"


360°

22

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

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.

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

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.

load charts

41.3 - 128 ft.	56 ft.	20 - 40 ft.	10,000 lbs	100% 24' 0"	360°

Feet	Pounds					
	76 ft. (56 ft. LENGTH + 1 INSERT)			96 ft. (56 ft. LENGTH + 2 INSERTS)		
	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 length (ft.) at 0° boom angle (no load)		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.

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.

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GROVE

load charts


41.3 - 128 ft.


8,000 lbs


100%
24' 0"


360°

24


Pounds

Feet	Main Boom Length in 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 (65.5)	39,000 (69)	38,800 (71.5)	38,700 (74)	31,950 (75.5)	*25,750 (78)	*14,600 (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)	14,600 (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)	14,600 (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				8,240 (20.5)	9,100 (36.5)	9,930 (45)	10,750 (51)	11,150 (55.5)	11,500 (59)	12,000 (61.5)
65					7,270 (29)	8,090 (40)	8,960 (47)	9,360 (52)	9,740 (56)	10,150 (59)
70					5,750 (18.5)	6,540 (34)	7,420 (42.5)	7,850 (48.5)	8,250 (53)	8,610 (56)
75						5,230 (27.5)	6,120 (38)	6,550 (45)	6,960 (50)	7,310 (53.5)
80						4,100 (17.5)	5,000 (32.5)	5,430 (41)	5,840 (47)	6,210 (50.5)
85							4,040 (26)	4,460 (36.5)	4,870 (43)	5,250 (47.5)
90							3,200 (17)	3,620 (31)	4,020 (39.5)	4,420 (44)
95								2,870 (25)	3,270 (35)	3,660 (40.5)
100								2,210 (16)	2,600 (30)	2,980 (36.5)
105									2,000 (24)	2,380 (32)
110									1,470 (16)	1,840 (27)
115										1,350 (21)
Minimum boom angle (deg.) for indicated length (no load)										9
Maximum boom length (ft.) at 0 deg. boom angle (no load)										102

#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	Main Boom Length in Feet									
	41.3	50	60	**70	80	90	100	110	120	
0°	20,750 (34.1)	15,150 (42.8)	10,500 (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)

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

A6-829-103753

TMS800E

GROVE

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load charts

41.3 - 128 ft.	33 - 56 ft.	8,000 lbs	100% 24' 0"	360°

Feet	Pounds					
	33 ft. LENGTH			56 ft LENGTH		
	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 are in degrees. A6-829-103775
#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 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).

TMS800E

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GROVE

load charts


41.3 - 128 ft.


56 ft.


20 - 40 ft.


8,000 lbs.


100%
24' 0"


360°

26

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

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

A6-829-103789

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.

TMS800E

GROVE

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load charts

41.3 - 128 ft. | 4,000 lbs | 100% 24' 0" | 360°

Pounds

Feet	Main Boom Length in 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	142,500 (70)	86,000 (74)	86,000 (77)							
12	126,500 (67)	86,000 (71.5)	86,000 (75)	41,000 (77)						
15	108,000 (62)	86,000 (67.5)	86,000 (71.5)	41,000 (74.5)	39,000 (76.5)					
20	75,150 (53.5)	73,500 (61)	72,600 (66.5)	41,000 (70)	39,000 (73)	38,800 (75)	*38,700 (78)	*31,950 (78)		
25	47,700 (44)	47,750 (54)	47,300 (61)	41,000 (65.5)	39,000 (69)	38,800 (71.5)	38,700 (74)	31,950 (75.5)	*25,750 (78)	*14,600 (78)
30	33,200 (31)	33,400 (46.5)	33,400 (55.5)	33,100 (61)	34,150 (65)	35,250 (68.5)	36,150 (70.5)	31,950 (72.5)	25,750 (74.5)	14,600 (75.5)
35		24,550 (37)	24,700 (49.5)	24,650 (56.5)	25,550 (61)	26,550 (65)	28,050 (67.5)	28,100 (70)	25,750 (72)	14,600 (73)
40		18,550 (24)	18,750 (42)	18,850 (51)	19,750 (57)	20,650 (61)	21,700 (64.5)	21,950 (67.5)	22,150 (69.5)	14,600 (71)
45			14,450 (33.5)	14,550 (45.5)	15,550 (52.5)	16,400 (57.5)	17,250 (61.5)	17,550 (64.5)	17,850 (67)	14,600 (68.5)
50			11,150 (21.5)	11,350 (39)	12,250 (47.5)	13,150 (53.5)	13,900 (58)	14,250 (61.5)	14,600 (64.5)	14,600 (66)
55				8,830 (31.5)	9,720 (42.5)	10,550 (49.5)	11,350 (54.5)	11,700 (58.5)	12,100 (62)	12,700 (64)
60				6,800 (20.5)	7,650 (36.5)	8,490 (45)	9,320 (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)
70					4,540 (18.5)	5,340 (34)	6,220 (42.5)	6,650 (48.5)	7,050 (53)	7,400 (56)
75						4,120 (27.5)	5,010 (38)	5,440 (45)	5,850 (50)	6,200 (53.5)
80						3,070 (17.5)	3,970 (32.5)	4,400 (41)	4,810 (47)	5,170 (50.5)
85							3,080 (26)	3,500 (36.5)	3,910 (43)	4,280 (47.5)
90							2,300 (17)	2,710 (31)	3,110 (39.5)	3,510 (44)
95								2,020 (25)	2,420 (35)	2,810 (40.5)
100								1,400 (16)	1,790 (30)	2,170 (36.5)
105									1,240 (24)	1,580 (32)
110										1,050 (27)
Minimum boom angle (deg.) for indicated length (no load)									23	26
Maximum boom length (ft.) at 0 deg. boom angle (no load)										110

#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	Main Boom Length in Feet 41.3	50	60	**70	80	90	100	110
0°	20,750 (34.1)	15,150 (42.8)	9,680 (52.8)	5,760 (63)	3,850 (72.8)	2,550 (82.8)	1,900 (92.8)	1,090 (102.8)

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

A6-829-103754

TMS800E

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GROVE

load charts


41.3 - 128 ft.


33 - 56 ft.


4,000 lbs


100%
24' 0"


360°

28

Feet	Pounds					
	33 ft. LENGTH			56 ft. LENGTH		
	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 length (ft.) at 0° boom angle (no load)		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:

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).

TMS800E

GROVE

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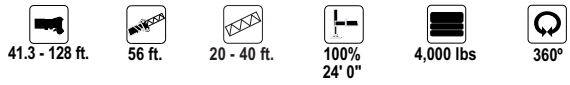
load charts



Feet	Pounds					
	76 ft. (56 ft. LENGTH + 1 INSERT)			96 ft. (56 ft. LENGTH + 2 INSERTS)		
	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 length (ft.) at 0° boom angle (no load)		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:

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.

TMS800E

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GROVE

load charts

30

41.3 - 128 ft. | 0 | 100% 24' 0" | 360°

Pounds

Feet	Main Boom Length in 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	141,500 (70)	86,000 (74)	86,000 (77)							
12	125,500 (67)	86,000 (71.5)	86,000 (75)	41,000 (77)						
15	105,500 (62)	86,000 (67.5)	86,000 (71.5)	41,000 (74.5)	39,000 (76.5)					
20	68,500 (53.5)	66,950 (61)	66,050 (66.5)	41,000 (70)	39,000 (73)	38,800 (75)	*38,700 (78)	*31,950 (78)		
25	43,100 (44)	43,150 (54)	42,700 (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	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)	14,600 (75.5)
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)	14,600 (73)
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)	14,600 (71)
45			12,400 (33.5)	12,550 (45.5)	13,500 (52.5)	14,350 (57.5)	15,200 (61.5)	15,650 (64.5)	16,150 (67)	14,600 (68.5)
50			9,390 (21.5)	9,570 (39)	10,450 (47.5)	11,350 (53.5)	12,100 (58)	12,600 (61.5)	13,100 (64.5)	13,600 (66)
55				7,230 (31.5)	8,120 (42.5)	8,990 (49.5)	9,770 (54.5)	10,200 (58.5)	10,700 (62)	11,100 (64)
60				5,360 (20.5)	6,210 (36.5)	7,050 (45)	7,880 (51)	8,330 (55.5)	8,790 (59)	9,130 (61.5)
65					4,640 (29)	5,460 (40)	6,340 (47)	6,780 (52)	7,210 (56)	7,520 (59)
70					3,330 (18.5)	4,130 (34)	5,020 (42.5)	5,480 (48.5)	5,900 (53)	6,200 (56)
75						3,000 (27.5)	3,900 (38)	4,340 (45)	4,760 (50)	5,080 (53.5)
80						2,030 (17.5)	2,940 (32.5)	3,370 (41)	3,780 (47)	4,110 (50.5)
85							2,110 (26)	2,520 (36.5)	2,920 (43)	3,260 (47.5)
90							1,390 (17)	1,780 (31)	2,170 (39.5)	2,510 (44)
95								1,130 (25)	1,500 (35)	1,820 (40.5)
100										1,220 (36.5)
Minimum boom angle (deg.) for indicated length (no load)								24	29	35
Maximum boom length (ft.) at 0 deg. boom angle (no load)									100	

#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	Main Boom Length in Feet						
	41.3	50	60	**70	80	90	110
0°	20,750 (34.1)	13,750 (42.8)	8,000 (52.8)	4,390 (63)	2,690 (72.8)	1,550 (82.8)	1,030 (92.8)

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

A6-829-103755

TMS800E

GROVE

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load charts

41.3 - 128 ft. | 33 - 56 ft. | 0 | 100% 24' 0" | 360°

Feet	Pounds					
	33 ft. LENGTH			56 ft LENGTH		
	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)		70			60	

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

A6-829-103777

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).

TMS800E

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GROVE

load charts

32

Feet	Pounds					
	76 ft. (56 ft. LENGTH + 1 INSERT)			96 ft. (56 ft. LENGTH + 2 INSERTS)		
	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 angle (°) for indicated length (no load)	55.5	56.5	57	60	61.5	61.5
Maximum boom length (ft.) at 0° boom angle (no load)		60			50	

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:

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.

TMS800E

GROVE

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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)	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.

Line Pulls and Reeving Information

Hoists	Cable Specs.	Permissible Line Pulls	Nominal Cable Length
Main	3/4" (19 mm) 6x37 Class, EIPS, IWRC Special Flexible Min. Breaking Strength 58,800 lb.	16,800 lb.	600 ft.
Main & Aux.	3/4" (19 mm) Flex-X 35 Rotation Resistant (Non-rotating) Min. Breaking Strength 85,800 lb.	17,160 lb.	607 ft.

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

Hoist Performance

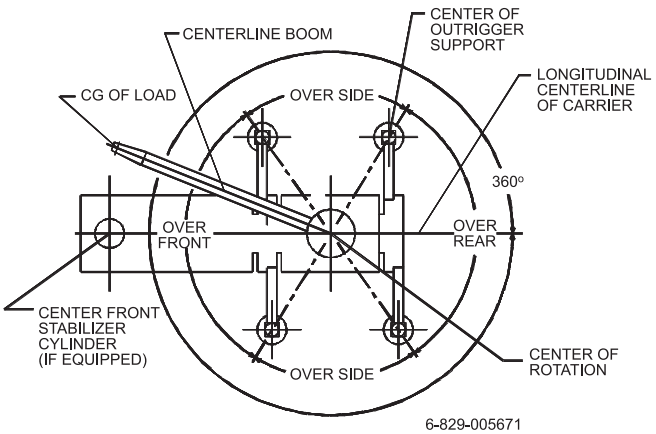
Wire Rope Layer	Hoist Line Pulls Two Speed Hoist Low Available lb.*	High Available lb.*	Drum Rope Capacity (ft.) Layer	Total
1	20,250	9,610	101	101
2	18,490	8,770	110	211
3	17,010	8,070	120	331
4	15,750	7,470	129	460
5	14,660	6,960	139	599

*Max. lifting capacity: 6x36 or 35x7 class = 17,160 lb.

Boom Section vs. Section Extension Percentages

	Main Boom Length in Feet									
	41.3	50	60	70	80	90	100	110	120	128
Boom sections:	Percent Extension									
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



6-829-005671

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

TMS800E

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.

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Notes

Notes

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