

GROVE. TMS700E





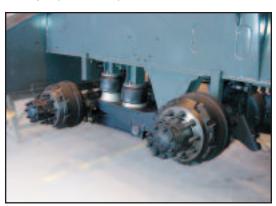


features

Optional 20 ft. (6.1 m) or 40 ft. (12.2 m) swingaway extension inserts offer excellent capacities with an unprecedented tip height of up to 212 ft.



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



Cummins ISM 450 diesel carrier engine delivers horsepower and torque needed to negotiate tough jobsites and achieve highway travel speeds





36 - 110 ft. (11 - 33.5 m) four section full power sequenced synchronized MEGAFORM™ boom designed for maximum vertical and lateral strength



specifications

Superstructure



36 ft. - 110 ft. (11 m - 33.5 m) four section, full power sequenced synchronized boom.

Maximum Tip Height: 118 ft. (35.9 m).



Folding Lattice Extension

33 ft. - 56 ft. (10.1 m - 17.1 m) folding lattice swingaway extension offsettable at 0°, 25° or 45°. Stows alongside base boom section. Maximum Tip Height: 172.5 ft. (52.6 m)



*Optional 20 ft. (6.1 m) or 40 ft. (12.2 m) Swingaway

Installs between boom nose and extension, non-stowable. Maximum Tip Height: 192 ft. (58.5 m) - 20 ft. (6.1 m) insert 212 ft. (64.6 m) - 40 ft. (12.2 m) insert



Boom Nose

Quick reeving type boom nose with 3 nylatron sheaves (4 for 60 ton rating) mounted on heavy duty tapered roller bearings with removable pin-type rope guards. Removable auxiliary boom nose with removable pin type rope guard.



Boom Elevation

One double acting hydraulic cylinder with integral holding valve provides elevation from -3° to 78°.



Load Moment & Anti-Two Block System

Standard "Graphics Display" load moment and anti-two block system with audio-visual warning and control lever lockout. These systems provide electronic display of boom angle, boom length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending twoblock condition. The standard "Work Area Definition System" allows the operator to pre-select and define safe working areas. If the crane approaches the pre-set limits, audio-visual warnings aid the operator in avoiding job-site obstructions.



High visibility, all steel cab with acoustical lining and tinted safety glass throughout. Deluxe seat with armrest mounted hydraulic single axis controls. Dash panel incorporates gauges for all engine functions. Other standard features include: sliding side and rear windows, hot water heat, electric windshield wash/wipe, circulating air fan, sliding skylight with sunscreen and electric skylight wiper, fire extinguisher, cup holder.



Planetary swing with foot applied multi-disc wet brake. Spring applied, hydraulically released parking brake. Two position plunger type and 360° mechanical house locks operated from

Maximum speed: 2.0 RPM.



Counterweight

11,000 lbs. (4 990 kg) consisting of (2) 5,500 lb. (2 495 kg) sections. *Optional "Heavy Lift" package consisting of (1) additional 5,500 lb. (2 495 kg) section, for a total of 16,500 lb. (7 484 kg). Hydraulic installation/removal.



Hydraulic System

Four main gear pumps with a combined capacity of 135.4 GPM (513 L/m). Individual post pressure compensated valve banks. Maximum operating pressure: 4000 psi (27.6 Mpa). Return line type filter with full flow by-pass protection and service indicator. Replaceable cartridge with beta rating of

170 gallons (643 L) reservoir. Remote mounted oil cooler with thermostatically controlled electric motor driven fan.



Hoist Specifications Main and Auxiliary Hoists-Model

Planetary reduction with integral automatic brake, electronic hoist drum rotation indicator, and hoist drum cable follower. Grooved drum.

1st Layer: 18,134 lb. (8 226 kg) Sinale Line Pull:

3rd Layer: 15,420 lb. (6 994 kg) 5th Layer: 13,413 lb. (6 084 kg)

531 FPM (162 m/min) Maximum Single Line Speed:

16,800 lb. (7 620 kg) Maximum Permissible Line Pull:

w/standard 6 x 37 class rope

16,800 lb. (7 620 kg) w/optional 35 x 7 class rope

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

Rope Length: 500 ft. (152 m)

Rope Type: 6 x 36 WS non-rotation

resistant

Optional 35 x 7 rotation

resistant

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, single stage, double box beam outriggers with inverted jack and integral holding valves. Quick release type steel outrigger floats 24 in. (610 mm) diameter. Three position setting with fully extended, intermediate (50%) extended and fully retracted capacities.



☐ Outrigger Controls

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



Engine

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



Fuel Tank Capacity

100 gallons (379 L).



○ Transmission

Roadranger 11 speeds forward, 3 reverse.



Drive 8 x 4 x 4.



T Steering

Front axle, single circuit, mechanical steering with hydraulic assist



→ Axles

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



O Brakes

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



Suspension

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



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

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

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



■ Lights

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



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



← | Electrical System

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



☑ Maximum Speed

65 MPH (104 kph)



Gradeability (Theoretical)

70%

Miscellaneous Standard Equipment

Aluminum fenders with rear storage compartments; dual rear view mirrors; electronic back-up alarm; pump disconnect; tire inflation kit; air cleaner restriction indicator; block and ball stowage; chrome package which includes aluminum wheels, and LMI data logger.

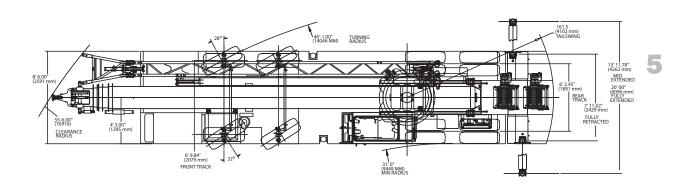
*Optional Equipment

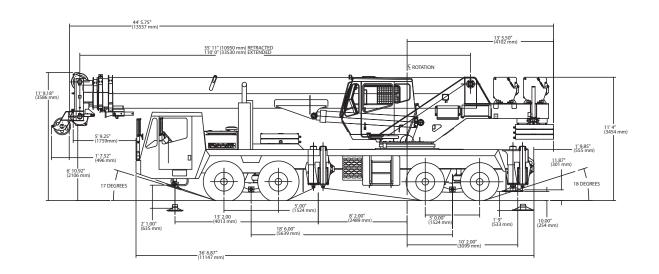
- *Flashing Light Package includes amber strobe for both cabs *Trailing Boom Package - includes trailer air and electrical disconnects and trailing boom kit with no spin differential (less dolly)
- *Hookblocks
- *Air conditioning
- *Rear pintle hook
- *Aluminum outrigger pads
- *Cross axle differential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

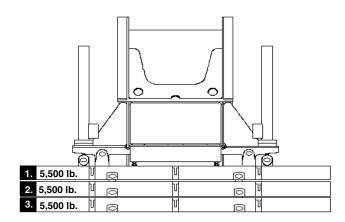
*Denotes optional equipment



dimensions







| | 1 | 2 | 3 |
|-----------------------------|---|---|---|
| Counterweight Configuration | | | |
| Zero | | | |
| 5,500 lb. (2 495 kg) | • | | |
| 11,000 lb. (4 990 kg) | • | • | |
| 16,500 lb. (7 485 kg) | • | • | • |

Load Chart Configuration — 360°

| 16,500 lb. | 11,000 lb. | 5,500 lb. | 0 lb. |
|------------|----------------|-----------|----------------|
| ×≡●□ | ×≡●□ | ×■●□ | × ■ ● □ |
| × | × ■ | × = | × ■ |
| × | × I | × I | × m |
| × | × | × | × |
| × | × | × | × |
| | * = • □ | **** | |

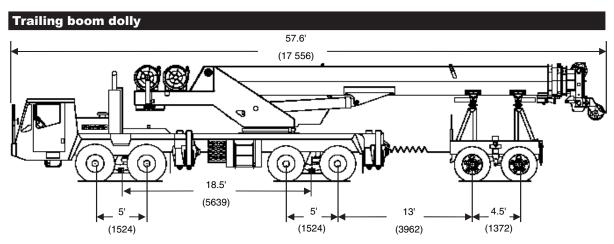
Outrigger Span 20 ft. = **★** 14 ft. = **■** 8 ft. = **●** Rubber P&C = **□**

6

travel proposals

Boom over front | The state of the state of

| (1 524) | | | | (1 524) | > | |
|--|--------|----------|--------|-------------|-------------|----------|
| Unit Configuration lb. (kg) | Gr | oss | Fr | ont | R | lear |
| Basic machine including 110 ft. (33.5 m) main boom, main and auxiliary hoists with cable, driver and no counterweight. | 74,712 | (33 889) | 37,097 | (16 827) | 37,615 | (17 062) |
| Additions: | | | | | | |
| 5,500 lb. (2 495 kg.) counterweight pinned on superstructure | 5,500 | (2495) | -2,214 | $(1\ 004)$ | 7,714 | (3 499) |
| 11,000 lb. (4 990 kg.) counterweight pinned on superstructure | 11,000 | (4 990) | -4,428 | $(2\ 009)$ | 15,428 | (6 998) |
| 16,500 lb. (7 485 kg.) counterweight pinned on superstructure | 16,500 | (7 484) | -6,642 | (3 013) | 23,142 | (10 497) |
| 5,500 lb. (2 495 kg.) counterweight stowed on carrier deck | 5,500 | (2 495) | 4,692 | (2 128) | 808 | (367) |
| 11,000 lb. (4 990 kg.) counterweight stowed on carrier deck | 11,000 | (4 990) | 9,384 | (4 257) | 1,616 | (733) |
| Swingaway carrier brackets | 330 | (150) | 282 | (128) | 48 | (22) |
| 33 ft. (10.1 m) swingaway | 1,730 | (785) | 1,972 | (895) | -242 | (-110) |
| 33 - 56 ft. (10.1 - 17.1 m) swingaway | 2,480 | (1 125) | 2,502 | (1 135) | -22 | (-10) |
| Auxiliary boom nose | 130 | (59) | 251 | (114) | -121 | (-55) |
| 40 ton (35 mt) hookblock stowed in trough | 800 | (363) | 1,142 | (518) | -342 | (-155) |
| 50 ton (45 mt) hookblock stowed in trough | 1,000 | (454) | 1,428 | (648) | -428 | (-194) |
| 60 ton (55 mt) hookblock stowed in trough | 1,250 | (567) | 1,785 | (810) | -535 | (-243) |
| 8.3 ton (7.5 mt) headache ball stowed in trough | 371 | (168) | 530 | (240) | -159 | (-72) |
| Air conditioning superstructure cab | 285 | (129) | 10 | (5) | 275 | (125) |
| Air conditioning chassis cab | 88 | (40) | 115 | (52) | -27 | (-12) |

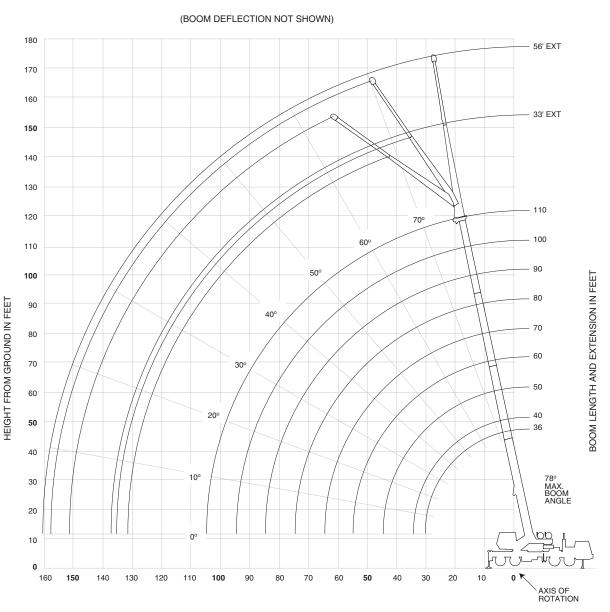


| Unit Configuration lb. (kg.) | Gr | oss | Front | | Rear | | Dolly | |
|---|--------|----------|--------|----------|--------|----------|--------|---------|
| Basic machine including 110 ft. (33.5 m) main boom, main and auxiliary hoists with cable, driver, no counterweight and 6,000 lb. (2 722 kg.) tandem axle dolly. | 80,737 | (36 622) | 33,479 | (15 186) | 29,275 | (13 279) | 17,983 | (8 157) |
| Additions: | | | | | | | | |
| 5,500 lb. (2 495 kg.) counterweight stowed on carrier deck. | 5,500 | (2 495) | 4,692 | (2 128) | 808 | (367) | 0 | (0) |
| 11,000 lb. (4 990 kg.) counterweight stowed on carrier deck. | 11,000 | (4 990) | 9,384 | (4 257) | 1,616 | (733) | 0 | (0) |
| 33 ft. (10.1 m) swingaway with brackets. | 2,060 | (934) | 281 | (128) | 239 | (108) | 1,540 | (699) |
| 33 - 56 ft. (10.1 - 17.1 m) swingaway with brackets. | 2,810 | (1 275) | 384 | (174) | 326 | (148) | 2,100 | (953) |
| Auxiliary boom nose. | 130 | (59) | -24 | (-11) | -20 | (-9) | 174 | (79) |
| 40 ton (35 mt) hookblock hanging at boom nose. | 800 | (363) | -126 | (-57) | -107 | (-49) | 1,033 | (469) |
| 50 ton (45 mt) hookblock hanging at boom nose. | 1,000 | (454) | -157 | (-71) | -134 | (-61) | 1,291 | (586) |
| 60 ton (55 mt) hookblock hanging at boom nose. | 1,250 | (567) | -197 | (-89) | -167 | (-76) | 1,614 | (732) |
| 8.3 ton (7.5 mt) headache ball hanging at boom nose. | 371 | (168) | -58 | (-26) | -50 | (-23) | 479 | (217) |

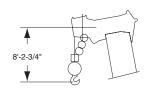
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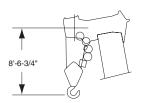
working range

36-110' main boom + 33-56' lattice extension



OPERATING RADIUS IN FEET FROM AXIS OF ROTATION





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

| - 110 ft. | 16,500 lbs. | 100% 20' 0" | | Q 360 | | | | | |
|-----------|----------------------|------------------|------------------|------------------------|------------------|------------------|------------------|------------------|------------------|
| | | | | | #0001 | | | | |
| Feet | | | | | Main Boom Length | | | | |
| | 35 120,000 | 40 84.400 | 50 80.200 | **60 *62,500 | 70 | 80 | 90 | 100 | 110 |
| 10 | (69) | (72) | (76) | (78) | | | | | |
| 12 | 100,000 (65.5) | 84,400 (68.5) | 80,200 (73.5) | 62,500 (77) | *36,800 (78) | | | | |
| 15 | 87,300 (59.5) | 82,700 (63.5) | 80,200 (70) | 61,000 (74) | 36,800 (76.5) | *36,800 (78) | *31,000 (78) | | |
| 20 | 68,250 | 65,000 | 64,300 | 50,650 | 36,800 | 36,800 | 31,000 | *29,100 | *24,000 |
| | (49) 54,900 | (55) 53.100 | (63.5) 52.000 | (69) 41,800 | (72) 36.800 | (75) 34.000 | (77) 30.000 | (78) 27.000 | (78) 24.000 |
| 25 | (36) | (45) | (56.5) | (63.5) | (68) | (71) | (73.5) | (76) | (77.5) |
| 30 | | 39,350 (31.5) | 38,700 (48.5) | 37,850 (57.5) | 33,400 (63) | 29,000 (67) | 25,300 (70.5) | 24,200 (72.5) | 22,000 (75) |
| 35 | | | 29,400 (40) | 28,400 (51.5) | 28,700 (58) | 25,000 (63) | 22,200 (67) | 21,750 (69.5) | 20,000 (72) |
| 40 | | | 23,050 (28) | 22,100 (45) | 22,750 (53) | 22,000 (59) | 20,200 (63) | 19,000 (66.5) | 18,500 (69) |
| 45 | | | (==) | 17,550 (37) | 18,250 (47.5) | 18,800 (54.5) | 17,800 (59.5) | 17,300 (63) | 17,300 (66.5) |
| 50 | | | | 14,050 (26.5) | 14,850 (41) | 15,600 (49.5) | 16,000 (55.5) | 16,000 | 16,000 (63.5) |
| 55 | | | | (====) | 12,200 (33.5) | 12,950 (44.5) | 13,650 (51) | 14,100 (56.5) | 14,100 |
| 60 | | | | | 10,050 (24) | 10,850 (38.5) | 11,600 (47) | 12,000 (52.5) | 12,200 (57) |
| 65 | | | | | ` ′ | 9,110 (31.5) | 9,900 (42) | 10,250 (48.5) | 10,600 (53.5) |
| 70 | | | | | | 7,650 (22.5) | 8,450 (36.5) | 8,820 (44.5) | 9,000 (50) |
| 75 | | | | | | (==:=) | 7,210 (30) | 7,580 (40) | 7,800 (46.5) |
| 80 | | | | | | | 6,150 (21.5) | 6,490 (34.5) | 6,600 (42.5) |
| 85 | | | | | | | , , | 5,550 (28.5) | 5,800 (38) |
| 90 | | | | | | | | 4,730 (20.5) | 5,000 (33) |
| 95 | | | | | | | | | 4,270 (27.5) |
| 100 | | | | | | | | | 3,600 (19.5) |
| | | | | or indicated length (r | | | | | 0 |
| | angles are in degree | s. | | degree boom angle (| no load) | | | | 110 |

Degree Boom Angle Main Boom Length in Feet Boom Angle

| 36 - 110 ft. | 16.500 lbs. | 100% | Ç | ver | | | | | |
|-------------------|----------------------|-----------------------------|-----------------------------|-------------------|--------------------------|------------------|------------------|------------------|------------------|
| | າວ,ວບບ ເມຣ. | 20' 0" | | ver ear | | | | | |
| | | | | | #0001 | | | | |
| Feet | 35 | 40 | 50 | **60 | Main Boom Length i 70 | in Feet 80 | 90 | 100 | 110 |
| 10 | 120,000 (69) | 84,400 (72) | 80,200 (76) | *62,500 (78) | 70 | 00 | 90 | 100 | 110 |
| 12 | 100,000 (65.5) | 84,400 (68.5) | 80,200 (73.5) | 62,500 (77) | *36,800 (78) | | | | |
| 15 | 87,300 (59.5) | 82,700 (63.5) | 80,200 (70) | 61,000 (74) | 36,800 (76.5) | *36,800 (78) | *31,000 (78) | | |
| 20 | 68,250 (49) | 65,000 (55) | 64,300 (63.5) | 50,650 (69) | 36,800 (72) | 36,800 (75) | 31,000 (77) | *29,100 (78) | *24,000 (78) |
| 25 | 55,650 (36) | 53,100 (45) | 52,000 (56.5) | 41,800 (63.5) | 36,800 (68) | 34,000 (71) | 30,000 (73.5) | 27,000 (76) | 24,000 (77.5) |
| 30 | | 44,100 (31.5) | 39,600 (48.5) | 38,000 (57.5) | 33,400 (63) | 29,000 (67) | 25,300 (70.5) | 24,200 (72.5) | 22,000 (75) |
| 35 | | | 32,400 (40) | 29,750 (51.5) | 28,700 (58) | 25,000 (63) | 22,200 (67) | 21,750 (69.5) | 20,000 (72) |
| 40 | | | 26,050 (28) | 25,500 (45) | 23,600 (53) | 22,000 (59) | 20,200 (63) | 19,000 (66.5) | 18,500 (69) |
| 45 | | | | 20,000 (37) | 19,700 (47.5) | 18,800 (54.5) | 17,800 (59.5) | 17,300 (63) | 17,300 (66.5) |
| 50 | | | | 17,850 (26.5) | 16,800 (41) | 16,500 (49.5) | 16,000 (55.5) | 16,000 (60) | 16,000 (63.5) |
| 55 | | | | <u> </u> | 14,900 (33.5) | 14,650 (44.5) | 14,100 (51) | 14,100 (56.5) | 14,100 (60) |
| 60 | | | | | 13,050 (24) | 12,800 (38.5) | 12,200 (47) | 12,200 (52.5) | 12,200 (57) |
| 65 | | | | | | 11,450 (31.5) | 10,800 (42) | 10,600 (48.5) | 10,600 (53.5) |
| 70 | | | | | | 10,100 (22.5) | 9,450 (36.5) | 9,000 (44.5) | 9,000 (50) |
| 75 | | | | | | | 8,290 (30) | 7,800 (40) | 7,800 (46.5) |
| 80 | | | | | | | 7,140 (21.5) | 6,600 (34.5) | 6,600 (42.5) |
| 85 | | | | | | | | 5,800 (28.5) | 5,800 (38) |
| 90 | | | | | | | | 5,000 (20.5) | 5,000 (33) |
| 95 | | | | | | | | | 4,440 (27.5) |
| 100 | | | | | | | | | 3,880 (19.5) |
| | | | m angle (deg.) for | | , | | | | 0 |
| .MI operating co | angles are in degree | s. anual for instruction | length (ft.) at 0 de ns. | gree boom angle (| no load) | | | | 110 |
| iis capacity is t | based on maximum | boom angle. | Lifting Capacitie | es at Zero Degree | Boom Angle | | | | |

Boom Angle

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

| 36 - 110 ft. | 33 | - 56 ft. | 16,500 lbs | 3. | 100% 20' 0" | Q 360 |
|-----------------------------------|-----------------------|------------------------|------------------------|-----------------------|------------------------|------------------------|
| | | | Po | unds | | |
| | | 33 ft. LENGTI | | 1100.44 | 56 ft. LENGT | |
| Feet | #0021 0° OFFSET | #0022 25° OFFSET | #0023 45° OFFSET | #0041 0° OFFSET | #0042 25° OFFSET | #0043 45° OFFSET |
| 30 | 12,900 (78) | | | | | |
| 35 | 12,900 (76) | | | *8,330 (78) | | |
| 40 | 12,900 (74) | *10,850 (78) | | 8,330 (77.5) | | |
| 45 | 12,900 (72) | 10,450 (77) | *7,410 (78) | 8,330 (76) | | |
| 50 | 12,100 (70) | 10,000 (74.5) | 7,200 (77.5) | 8,330 (74.5) | | |
| 55 | 11,100 (68) | 9,220 (72.5) | 6,990 (75) | 8,250 (73) | *5,300 (78) | |
| 60 | 10,100 (66) | 8,550 (70.5) | 6,800 (72.5) | 7,540 (71) | 5,140 (77) | |
| 65 | 9,130 (63.5) | 7,930 (68) | 6,650 (70.5) | 7,160 (69) | 5,100 (75) | *3,860 (78) |
| 70 | 8,460 (61.5) | 7,380 (65.5) | 6,490 (68) | 6,820 (67.5) | 5,100 (73) | 3,790 (77.5) |
| 75 | 7,840 (59) | 6,900 (63) | 6,370 (65.5) | 6,300 (65.5) | 4,800 (71) | 3,660 (75) |
| 80 | 7,230 (56.5) | 6,470 (60.5) | 6,110 (62.5) | 5,810 (63.5) | 4,580 (69) | 3,550 (73) |
| 85 | 6,470 (54) | 6,070 (58) | 5,780 (60) | 5,370 (61.5) | 4,470 (67.5) | 3,450 (71) |
| 90 | 5,670 (51) | 5,720 (55.5) | 5,480 (57) | 4,980 (59.5) | 4,330 (65.5) | 3,410 (68.5) |
| 95 | 4,970 (48.5) | 5,400 (52.5) | 5,200 (54) | 4,630 (57) | 4,070 (63) | 3,300 (66.5) |
| 100 | 4,350 (45.5) | 4,840 (49.5) | 4,950 (51) | 4,320 (55) | 3,830 (61) | 3,260 (64) |
| 105 | 3,790 (42.5) | 4,210 (46.5) | 4,470 (47.5) | 4,040 (52.5) | 3,620 (58.5) | 3,220 (62) |
| 110 | 3,290 (39.5) | 3,640 (43) | | 3,760 (50.5) | 3,410 (56) | 3,180 (59.5) |
| 115 | 2,830 (36) | 3,130 (39.5) | | 3,290 (48) | 3,230 (53.5) | 3,060 (56.5) |
| 120 | 2,420 (32) | 2,660 (35) | | 2,860 (45.5) | 3,050 (51) | 2,940 (53.5) |
| 125 | 2,040 (27.5) | 2,240 (30.5) | | 2,470 (42.5) | 2,890 (48.5) | 2,800 (50.5) |
| 130 | 1,700 (22) | | | 2,120 (39.5) | 2,590 (45.5) | |
| 135 | | | | 1,790 (36.5) | 2,200 (42.5) | |
| 140 | | | | 1,480 (33) | 1,840 (38.5) | |
| 145 | | | 100 | 1,200 (29.5) | 1,500 (34.5) | |
| Min. boom | | No Lo | oad Stability D | ata | | |
| angle for indicated length | 21º | 25° | 45° | 28° | 28° | 45° |
| Max. boom length at 0° boom angle | | 100 ft. | | | 90 ft. | |

NOTE: () Boom angles are in degrees.

A6-829-101337

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

- 1. All capacities above the bold line are based on structural strength of boom extension.
- 2. 33 ft. and 56 ft. boom extension lengths may be used for single line lifting service.
- 3. Radii listed are for a fully extended boom with the boom extension erected. For main boom lengths less than fully extended, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is configured. For boom angles not shown, use the rating of the next lower boom angle.
- 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.

^{*}This capacity is based upon maximum boom angle.

10

| -Mil | | <u> </u> | ζ | 7 | | | | | |
|-------------------|---|-----------------------------|-------------------------------|-------------------|---------------------|------------------|------------------|------------------|------------------------|
| 36 - 110 ft. | 11,000 lbs. | 100% 20' 0" | 36 | 50 | | | | | |
| 7 | | | | | #0101 | | | | |
| Feet | 35 | 40 | 50 | **60 | Main Boom Length in | r Feet 80 | 90 | 100 | 110 |
| 10 | 120,000 | 84,400 | 80,200 | *62,500 | 70 | 80 | 90 | 100 | 110 |
| | (69) 100.000 | (72) 84.400 | (76) 80.200 | (78) 62.500 | *36.800 | | | | |
| 12 | (65.5) 87,300 | (68.5) 82,700 | (73.5) 80,200 | (77) 61,000 | (78) 36,800 | *36,800 | *31,000 | | |
| 15 | (59.5) | (63.5) | (70) | (74) | (76.5) | (78) | (78) | | |
| 20 | 68,250 (49) | 65,000 (55) | 64,300 (63.5) | 50,650 (69) | 36,800 (72) | 36,800 (75) | 31,000 (77) | *29,100 (78) | *24,000 (78) |
| 25 | 48,550 (36) | 48,350 (45) | 47,650 (56.5) | 41,800 (63.5) | 36,800 (68) | 34,000 (71) | 30,000 (73.5) | 27,000 (76) | 24,000 (77.5) |
| 30 | , , | 34,300 (31.5) | 33,650 (48.5) | 32,800 (57.5) | 33,400 (63) | 29,000 (67) | 25,300 (70.5) | 24,200 (72.5) | 22,000 (75) |
| 35 | | (= 112) | 25,250 (40) | 24,350 (51.5) | 25,000 (58) | 25,000 (63) | 22,200 (67) | 21,750 (69.5) | 20,000 (72) |
| 40 | | | 19,500 | 18,700 | 19,350 | 20,050 | 20,200 | 19,000 | 18,500 |
| 45 | | | (28) | (45) 14,650 | (53) 15,350 | (59) 16,050 | (63) 16,750 | (66.5) 17,300 | (69) 17,300 |
| | | | | (37) | (47.5) 12,350 | (54.5) 13,050 | (59.5) 13,750 | (63) 14,300 | (66.5) 14,850 |
| 50 | | | | (26.5) | (41) | (49.5) 10.700 | (55.5) | (60) 11.900 | (63.5) |
| 55 | | | | | 9,960 (33.5) | (44.5) | 11,450 (51) | (56.5) | 12,400 (60) |
| 60 | | | | | 8,040 (24) | 8,850 (38.5) | 9,590 (47) | 10,000 (52.5) | 10,400 (57) |
| 65 | | | | | | 7,280 (31.5) | 8,070 (42) | 8,450 (48.5) | 8,830 (53.5) |
| 70 | | | | | | 5,970 (22.5) | 6,760 (36.5) | 7,140 (44.5) | 7,480 (50) |
| 75 | | | | | | (===-) | 5,660 (30) | 6,020 (40) | 6,350 (46.5) |
| 80 | | | | | | | 4,710 | 5,050 | 5,370 |
| 85 | | | | | | | (21.5) | (34.5) 4,200 | (42.5) 4,510 |
| | | | | | | | | (28.5) 3,460 | (38) 3,750 |
| 90 | | | | | | | | (20.5) | (33) |
| 95 | | | | | | | | | (27.5) |
| 100 | | | | | | | | | 2,480 (19.5) |
| | | | om angle (deg.) for | | , | | | | 110 |
| #LMI operating or | angles are in degrees ode. Refer to LMI ma based on maximum | s. anual for instruction | i length (ft.) at 0 de ns. | gree boom angle | (no ioau) | | | | 110 |
| Thio dapacity is | bacca on maximum | boom angle. | Lifting Capaciti | es at Zero Degree | Boom Angle | | | | |
| Boom Angle | 0.5 | 40 | | | om Length in Feet | | | 400 | 440 |
| Angle 0° | 35 29,050 | 40 24,450 | 50 16,000 | **60 9,340 | 70 6,710 | 5,030 | 90 4,020 | 100 2,920 | 110 2,030 |
| _ | (29.8) | (34.2) | (44.2) | (54.6) | (64.2) | (74.2) | (84.2) | (94.2) A6 | (104.2) -829-101320 |
| NOTE: () Refere | nce radii in reet. | | | | | | | 710 | |

| mwg. | | <u> </u> | (| $\widehat{\mathbf{a}}$ | | | | | |
|-----------------|---|-----------------------|---------------------|------------------------|--------------------|------------------|------------------|------------------|------------------|
| 36 - 110 ft. | 11,000 lbs. | 100% 20' 0" | | Over Rear | | | | | |
| | | | | | #0101 | | | | |
| Feet | 0.5 | 40 | 50 | **60 | Main Boom Length i | | | 400 | 440 |
| 40 | 35 120.000 | 84.400 | 80.200 | *62.500 | 70 | 80 | 90 | 100 | 110 |
| 10 | (69) 100,000 | (72) 84.400 | (76) 80,200 | (78) 62.500 | *36.800 | | | | |
| 12 | (65.5) | (68.5) | (73.5) | (77) | (78) | | | | |
| 15 | 87,300 (59.5) | 82,700 (63.5) | 80,200 (70) | 61,000 (74) | 36,800 (76.5) | *36,800 (78) | *31,000 (78) | | |
| 20 | 68,250 (49) | 65,000 (55) | 64,300 (63.5) | 50,650 (69) | 36,800 (72) | 36,800 (75) | 31,000 (77) | *29,100 (78) | *24,000 (78) |
| 25 | 52,900 | 52,700 | 52,000 | 41,800 | 36,800 | 34,000 | 30,000 | 27,000 | 24,000 |
| _ | (36) | (45) 41.750 | (56.5) 39.600 | (63.5) 38.000 | (68) 33.400 | (71) 29.000 | (73.5) 25.300 | (76) 24.200 | (77.5) 22.000 |
| 30 | | (31.5) | (48.5) | (57.5) | (63) | (67) | (70.5) | (72.5) | (75) |
| 35 | | | 32,400 (40) | 29,750 (51.5) | 28,700 (58) | 25,000 (63) | 22,200 (67) | 21,750 (69.5) | 20,000 (72) |
| 40 | | | 26,050 (28) | 25,500 (45) | 23,600 (53) | 22,000 (59) | 20,200 (63) | 19,000 (66.5) | 18,500 (69) |
| 45 | | | (20) | 20,000 | 19,700 | 18,800 | 17,800 | 17,300 | 17,300 |
| 50 | | | | (37) 16,650 | (47.5) 16.800 | (54.5) 16.500 | (59.5) 16.000 | (63) 16.000 | (66.5) 16.000 |
| | | | | (26.5) | (41) 14.500 | (49.5) 14.650 | (55.5) 14.100 | (60) 14,100 | (63.5) 14,100 |
| 55 | | | | | (33.5) | (44.5) | (51) | (56.5) | (60) |
| 60 | | | | | 12,100 (24) | 12,800 (38.5) | 12,200 (47) | 12,200 (52.5) | 12,200 (57) |
| 65 | | | | | | 10,950 (31.5) | 10,800 (42) | 10,600 (48.5) | 10,600 (53.5) |
| 70 | | | | | | 9,290 (22.5) | 9,450 (36.5) | 9,000 (44.5) | 9,000 |
| 75 | | | | | | (22.0) | 8,290 | 7,800 | 7,800 |
| | | | | | | | (30) 7,140 | (40) 6.600 | (46.5) 6.600 |
| 80 | | | | | | | (21.5) | (34.5) | (42.5) |
| 85 | | | | | | | | (28.5) | 5,800 (38) |
| 90 | | | | | | | | 5,000 (20.5) | 5,000 (33) |
| 95 | | | | | | | | | 4,440 (27.5) |
| 100 | | | | | | | | | 3,880 (19.5) |
| | | Minimum boo | m angle (deg.) fo | r indicated length (| no load) | | | | (19.5) |
| | | Maximum boom | length (ft.) at 0 d | legree boom angle | (no load) | | | | 110 |
| LMI operating c | angles are in degrees ode. Refer to LMI ma based on maximum | anual for instruction | S. | | | | | | |
| oupdony is | on maximum | ungio. | Lifting Capacit | ies at Zero Degree | Boom Angle | | | | |

11

NOTES:

- All capacities above the bold line are based on structural strength of boom extension.
- 2. 33 ft. and 56 ft. boom extension lengths may be used for single line lifting service.
- 3. Radii listed are for a fully extended boom with the boom extension erected. For main boom lengths less than fully extended, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is configured. For boom angles not shown, use the rating of the next lower boom angle.
- WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 6. Capacities listed are with outriggers properly extended and vertical jacks set only.

| 36 - 110 ft. | 33 | - 56 ft. | 11,000 lbs | S. | 100% 20' 0" | 360 |
|---|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|
| | | | Po | unds | | |
| | | 33 ft. LENGT | Н | | 56 ft. LENGT | Н |
| \bigcirc | #0121 0° | #0122 | #0123 45° | #0141 0° | #0142 | #0143 45° |
| Feet | OFFSET | 25° OFFSET | OFFSET | OFFSET | 25° OFFSET | OFFSET |
| 30 | 12,900 (78) | | | | | |
| 35 | 12,900 (76) | | | *8,330 (78) | | |
| 40 | 12,900 (74) | *10,850 (78) | | 8,330 (77.5) | | |
| 45 | 12,900 (72) | 10,450 (77) | *7,410 (78) | 8,330 (76) | | |
| 50 | 12,100 (70) | 10,000 (74.5) | 7,200 (77.5) | 8,330 (74.5) | | |
| 55 | 11,100 (68) | 9,220 (72.5) | 6,990 (75) | 8,250 (73) | *5,300 (78) | |
| 60 | 10,100 (66) | 8,550 (70.5) | 6,800 (72.5) | 7,540 (71) | 5,140 (77) | |
| 65 | 9,130 (63.5) | 7,930 (68) | 6,650 (70.5) | 7,160 (69) | 5,100 (75) | *3,860 (78) |
| 70 | 7,960 (61.5) | 7,380 (65.5) | 6,490 (68) | 6,820 (67.5) | 5,100 (73) | 3,790 (77.5) |
| 75 | 6,870 (59) | 6,900 (63) | 6,370 (65.5) | 6,300 (65.5) | 4,800 (71) | 3,660 (75) |
| 80 | 5,930 (56.5) | 6,470 (60.5) | 6,110 (62.5) | 5,810 (63.5) | 4,580 (69) | 3,550 (73) |
| 85 | 5,120 (54) | 5,880 (58) | 5,780 | 5,370 (61.5) | 4,470 (67.5) | 3,450 (71) |
| 90 | 4,410 (51) | 5,070 (55.5) | 5,440 (57) | 4,960 (59.5) | 4,330 (65.5) | 3,410 (68.5) |
| 95 | 3,780 (48.5) | 4,350 (52.5) | 4,680 (54) | 4,310 (57) | 4,070 (63) | 3,300 (66.5) |
| 100 | 3,230 (45.5) | 3,710 (49.5) | 4,010 (51) | 3,730 (55) | 3,830 (61) | 3,260 (64) |
| 105 | 2,730 (42.5) | 3,140 (46.5) | 3,410 (47.5) | 3,210 (52.5) | 3,620 (58.5) | 3,220 (62) |
| 110 | 2,280 (39.5) | 2,630 (43) | | 2,750 (50.5) | 3,410 (56) | 3,180 (59.5) |
| 115 | 1,870 (36) | 2,170 (39.5) | | 2,330 (48) | 3,020 (53.5) | 3,060 (56.5) |
| 120 | 1,500 (32) | 1,750 (35) | | 1,940 (45.5) | 2,550 (51) | 2,800 (53.5) |
| 125 | 1,170 (27.5) | 1,360 (30.5) | | 1,590 (42.5) | 2,130 (48.5) | 2,330 (50.5) |
| 130 | | | | 1,270 (39.5) | 1,740 (45.5) | |
| 135 | | | | | 1,390 (42.5) | |
| 140 | | | | | 1,060 (38.5) | |
| Minut | | No L | oad Stability | Data | | |
| Min. boom angle for indicated length | 25° | 25° | 45° | 33° | 36° | 45° |
| Max. boom | | | | | | |

NOTE: () Boom angles are in degrees.

A6-829-101338

*This capacity is based upon maximum boom angle.

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

12

| 6 - 110 ft. | 5,500 lbs. | 100% 20' 0" | 3 | 60° | | | | | |
|-------------|------------------|------------------|-------------------|--------------------|---------------------|------------------|------------------|------------------|------------------|
| 7 C | | | | | #0201 | | | | |
| Feet | 35 | 40 | 50 | **60 | Main Boom Length in | Feet 80 | 90 | 100 | 110 |
| 10 | 118,500 | 84,400 | 80,200 | *62,500 | 70 | 00 | 30 | 100 | 110 |
| 12 | (69) 100,000 | (72) 84,400 | (76) 80,200 | (78) 62,500 | *36,800 | | | | |
| 15 | (65.5) 87,300 | (68.5) 82,700 | (73.5) 80,200 | (77) 61,000 | (78) 36,800 | *36,800 | *31,000 | | |
| | (59.5) 66,000 | (63.5) 65.000 | (70) 64,300 | (74) 50.650 | (76.5) 36,800 | (78) 36.800 | (78) 31.000 | *29.100 | *24.000 |
| 20 | (49) | (55) | (63.5) | (69) | (72) | (75) | (77) | (78) | (78) |
| 25 | 41,100 (36) | 41,000 (45) | 40,600 (56.5) | 40,150 (63.5) | 36,800 (68) | 34,000 (71) | 30,000 (73.5) | 27,000 (76) | 24,000 (77.5) |
| 30 | | 28,400 (31.5) | 28,150 (48.5) | 27,750 (57.5) | 28,450 (63) | 29,000 (67) | 25,300 (70.5) | 24,200 (72.5) | 22,000 (75) |
| 35 | | , | 20,700 (40) | 20,300 (51.5) | 21,000 (58) | 21,750 (63) | 22,200 (67) | 21,750 (69.5) | 20,000 (72) |
| 40 | | | 15,600 (28) | 15,350 (45) | 16,050 (53) | 16,750 (59) | 17,500 (63) | 17,900 (66.5) | 18,300 (69) |
| 45 | | | (20) | 11,750 (37) | 12,500 (47.5) | 13,200 (54.5) | 13,950 (59.5) | 14,300 (63) | 14,700 (66.5) |
| 50 | | | | 9,040 (26.5) | 9,850 (41) | 10,550 (49.5) | 11,250 (55.5) | 11,650 (60) | 12,000 (63.5) |
| 55 | | | | (20.0) | 7,720 (33.5) | 8,500 (44.5) | 9,210 (51) | 9,570 (56.5) | 9,940 (60) |
| 60 | | | | | 6.010 | 6.810 | 7.550 | 7.900 | 8,260 |
| 65 | | | | | (24) | (38.5) 5,410 | (47) 6,190 | (52.5) 6,540 | (57) 6,880 |
| | | | | | | (31.5) 4,250 | (42) 5.020 | (48.5) 5,400 | (53.5) 5,740 |
| 70 | | | | | | (22.5) | (36.5) | (44.5) | (50) |
| 75 | | | | | | | 4,030 (30) | 4,420 (40) | 4,770 (46.5) |
| 80 | | | | | | | 3,190 (21.5) | 3,570 (34.5) | 3,940 (42.5) |
| 85 | | | | | | | | 2,830 (28.5) | 3,200 (38) |
| 90 | | | | | | | | 2,180 (20.5) | 2,550 (33) |
| 95 | | | | | | | | , 5.5, | 1,980 (27.5) |
| 100 | | | | | | | | | 1,470 (19.5) |
| | | Minimum boo | m angle (deg.) fo | r indicated length | (no load) | | | | 0 |

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

| | | | L | ifting Capacities | at Zero Degree Bo | om Angle | | | |
|-------------|------------------|------------------|------------------|-------------------|-------------------|-----------------|-----------------|-----------------|------------------|
| Boom | | | | Main Bo | om Length in Feet | | | | |
| Angle | 35 | 40 | 50 | **60 | 70 | 80 | 90 | 100 | 110 |
| 0° | 28,850 (29.8) | 21,800 (34.2) | 12,500 (44.2) | 7,080 (54.6) | 4,830 (64.2) | 3,410 (74.2) | 2,570 (84.2) | 1,710 (94.2) | 1,080 (104.2) |
| NOTE () D (| F1 | | | | | | | Δ6- | 820-101322 |

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

| 36 - 110 ft. | 5,500 lbs. | 100% 20' 0" | Ov Re | er | | | | | |
|--------------------|-----------------------|------------------|-------------------------|--------------------|--------------------|------------------|------------------|------------------|------------------|
| | | 20 0 | Re | ai | #0201 | | | | |
| (G) (| | | | 1 | Main Boom Length i | n Feet | | | |
| Feet | 35 | 40 | 50 | **60 | 70 | 80 | 90 | 100 | 110 |
| 10 | 120,000 (69) | 84,400 (72) | 80,200 (76) | *62,500 (78) | | | | | |
| 12 | 100,000 (65.5) | 84,400 (68.5) | 80,200 (73.5) | 62,500 (77) | *36,800 (78) | | | | |
| 15 | 87,300 (59.5) | 82,700 (63.5) | 80,200 (70) | 61,000 (74) | 36,800 (76.5) | *36,800 (78) | *31,000 (78) | | |
| 20 | 66,000 (49) | 65,000 (55) | 64,300 (63.5) | 50,650 (69) | 36,800 (72) | 36,800 (75) | 31,000 (77) | *29,100 (78) | *24,000 (78) |
| 25 | 50,050 (36) | 49,850 (45) | 49,500 (56.5) | 41,800 (63.5) | 36,800 (68) | 34,000 (71) | 30,000 (73.5) | 27,000 (76) | 24,000 (77.5) |
| 30 | | 38,100 (31.5) | 38,200 (48.5) | 38,000 (57.5) | 33,400 (63) | 29,000 (67) | 25,300 (70.5) | 24,200 (72.5) | 22,000 (75) |
| 35 | | | 28,700 (40) | 28,600 (51.5) | 28,700 (58) | 25,000 (63) | 22,200 (67) | 21,750 (69.5) | 20,000 (72) |
| 40 | | | 22,200 (28) | 22,200 (45) | 23,000 (53) | 22,000 (59) | 20,200 (63) | 19,000 (66.5) | 18,500 (69) |
| 45 | | | | 17,600 (37) | 18,400 (47.5) | 18,800 (54.5) | 17,800 (59.5) | 17,300 (63) | 17,300 (66.5) |
| 50 | | | | 14,100 (26.5) | 14,950 (41) | 15,750 (49.5) | 16,000 (55.5) | 16,000 (60) | 16,000 (63.5) |
| 55 | | | | | 12,250 (33.5) | 13,050 (44.5) | 13,800 (51) | 14,100 (56.5) | 14,100 (60) |
| 60 | | | | | 10,050 (24) | 10,900 (38.5) | 11,650 (47) | 12,000 (52.5) | 12,200 (57) |
| 65 | | | | | | 9,100 (31.5) | 9,890 (42) | 10,200 (48.5) | 10,550 (53.5) |
| 70 | | | | | | 7,590 (22.5) | 8,380 (36.5) | 8,740 (44.5) | 9,000 (50) |
| 75 | | | | | | | 7,100 (30) | 7,480 (40) | 7,800 (46.5) |
| 80 | | | | | | | 5,990 (21.5) | 6,370 (34.5) | 6,600 (42.5) |
| 85 | | | | | | | | 5,410 (28.5) | 5,770 (38) |
| 90 | | | | | | | | 4,570 (20.5) | 4,920 (33) |
| 95 | | | | | | | | | 4,180 (27.5) |
| 100 | | | | | | | | | 3,520 (19.5) |
| | | Minimum bo | om angle (deg.) for i | indicated length (| no load) | | | | 0 |
| NOTE: () Boom s | angles are in degrees | | n length (ft.) at 0 deg | gree boom angle | (no load) | | | | 110 |

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

| Litting Capacities at Zero Degree Boom Angle | | | | | | | | | | |
|--|------------------|------------------|------------------|--------------------------|-----------------|-----------------|-----------------|-----------------|------------------|--|
| Boom | | | | Main Boom Length in Feet | | | | | | |
| Angle | 35 | 40 | 50 | **60 | 70 | 80 | 90 | 100 | 110 | |
| 00 | 29,050 (29.8) | 24,450 (34.2) | 17,050 (44.2) | 11,600 (54.6) | 8,550 (64.2) | 6,520 (74.2) | 5,190 (84.2) | 3,950 (94.2) | 3,020 (104.2) | |
| A6-829-101323 | | | | | | | | | | |

NOTE: () Reference radii in feet.

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

13

| | ■ Nif |
|----|--------------|
| 36 | _ 110 ft |









| 36 - 110 ft. | 33 | - 56 ft. | 5,500 lbs | s. | 100% | 360 |
|---|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|
| | Po | | | ounds | 20' 0" | |
| | | 33 ft. LENGT | | | 56 ft. LENGT | H |
| $\left[\Theta \right]$ | #0221 | #0222 | #0223 | #0241 | #0242 | #0243 |
| Feet | 0° OFFSET | 25° OFFSET | 45° OFFSET | 0° OFFSET | 25º OFFSET | 45° OFFSET |
| 30 | 12,900 (78) | | | | | |
| 35 | 12,900 (76) | | | *8,330 (78) | | |
| 40 | 12,900 (74) | *10,850 (78) | | 8,330 (77.5) | | |
| 45 | 12,900 (72) | 10,450 (77) | *7,410 (78) | 8,330 (76) | | |
| 50 | 12,100 (70) | 10,000 (74.5) | 7,200 (77.5) | 8,330 (74.5) | | |
| 55 | 10,450 (68) | 9,220 (72.5) | 6,990 (75) | 8,250 (73) | *5,300 (78) | |
| 60 | 8,780 (66) | 8,550 (70.5) | 6,800 (72.5) | 7,540 (71) | 5,140 (77) | |
| 65 | 7,420 (63.5) | 7,930 (68) | 6,650 (70.5) | 7,160 (69) | 5,100 (75) | *3,860 (78) |
| 70 | 6,280 (61.5) | 7,260 (65.5) | 6,490 (68) | 6,820 (67.5) | 5,100 (73) | 3,790 (77.5) |
| 75 | 5,310 (59) | 6,180 (63) | 6,370 (65.5) | 6,030 (65.5) | 4,800 (71) | 3,660 (75) |
| 80 | 4,490 (56.5) | 5,250 (60.5) | 5,840 (62.5) | 5,150 (63.5) | 4,580 (69) | 3,550 (73) |
| 85 | 3,770 (54) | 4,450 (58) | 4,950 (60) | 4,400 (61.5) | 4,470 (67.5) | 3,450 (71) |
| 90 | 3,150 (51) | 3,750 (55.5) | 4,180 (57) | 3,730 (59.5) | 4,330 (65.5) | 3,410 (68.5) |
| 95 | 2,590 (48.5) | 3,130 (52.5) | 3,490 (54) | 3,140 (57) | 4,070 (63) | 3,300 (66.5) |
| 100 | 2,100 (45.5) | 2,580 (49.5) | 2,890 (51) | 2,620 (55) | 3,590 (61) | 3,260 (64) |
| 105 | 1,660 (42.5) | 2,080 (46.5) | 2,340 (47.5) | 2,160 (52.5) | 3,030 (58.5) | 3,220 (62) |
| 110 | 1,270 (39.5) | 1,640 (43) | | 1,740 (50.5) | 2,520 (56) | 2,880 (59.5) |
| 115 | | 1,240 (39.5) | | 1,360 (48) | 2,050 (53.5) | 2,360 (56.5) |
| 120 | | | | 1,010 (45.5) | 1,640 (51) | 1,890 (53.5) |
| 125 | | | | | 1,250 (48.5) | 1,450 (50.5) |
| | | No L | oad Stability | Data | | |
| Min. boom angle for indicated length | 37° | 37º | 45° | 45° | 46° | 480 |
| Max. boom length at 0° | | 80 ft | | | 60 ft | |

NOTE: () Boom angles are in degrees.

A6-829-101339

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

- 1. All capacities above the bold line are based on structural strength of boom extension.
- 2. 33 ft. and 56 ft. boom extension lengths may be used for single line lifting service.
- 3. Radii listed are for a fully extended boom with the boom extension erected. For main boom lengths less than fully extended, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is configured. For boom angles not shown, use the rating of the next lower boom angle.
- 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.

^{*}This capacity is based upon maximum boom angle.

14

| 36 - 110 ft. | 0 lbs. | 100% 20' 0' | | 360 | | | | | |
|------------------|--|-------------------------------|------------------|----------------------|--------------------|------------------|------------------|------------------|------------------|
| | | | | | #0801 | | | | |
| Q L | | | | | Main Boom Length i | n Feet | | | |
| Feet | 35 | 40 | 50 | **60 | 70 | 80 | 90 | 100 | 110 |
| 10 | 117,500 (69) | 84,400 (72) | 80,200 (76) | *62,500 (78) | | | | | |
| 12 | 100,000 (65.5) | 84,400 (68.5) | 80,200 (73.5) | 62,500 (77) | *36,800 (78) | | | | |
| 15 | 87,300 (59.5) | 82,700 (63.5) | 80,200 (70) | 61,000 (74) | 36,800 (76.5) | *36,800 (78) | *31,000 (78) | | |
| 20 | 56,000 (49) | 55,750 (55) | 55,300 (63.5) | 50,650 (69) | 36,800 (72) | 36,800 (75) | 31,000 (77) | *29,100 (78) | *24,000 (78) |
| 25 | 34,350 (36) | 34,300 (45) | 33,850 (56.5) | 33,400 (63.5) | 34,100 (68) | 34,000 (71) | 30,000 (73.5) | 27,000 (76) | 24,000 (77.5) |
| 30 | (30) | 23,350 (31.5) | 23,100 (48.5) | 22,700 (57.5) | 23,400 (63) | 24,150 (67) | 24,850 (70.5) | 24,200 (72,5) | 22,000 (75) |
| 35 | | | 16,650 (40) | 16,250 (51.5) | 16,950 (58) | 17,700 (63) | 18,400 (67) | 18,850 (69.5) | 19,300 (72) |
| 40 | | | 12,250 (28) | 12,000 (45) | 12,650 (53) | 13,400 | 14,100 (63) | 14,550 (66.5) | 14,950 (69) |
| 45 | | | (==) | 8,890 (37) | 9,620 (47.5) | 10,300 (54.5) | 11,050 (59.5) | 11,450 (63) | 11,800 (66.5) |
| 50 | | | | 6,510 (26.5) | 7,330 (41) | 8,040 (49.5) | 8,750 (55.5) | 9,130 (60) | 9,510 (63.5) |
| 55 | | | | | 5,470 (33.5) | 6,250 (44.5) | 6,960 (51) | 7,320 (56.5) | 7,690 (60) |
| 60 | | | | | 3,990 (24) | 4,790 (38.5) | 5,530 (47) | 5,880 (52.5) | 6,240 (57) |
| 65 | | | | | | 3,580 (31.5) | 4,350 (42) | 4,700 (48.5) | 5,050 (53.5) |
| 70 | | | | | | 2,560 (22.5) | 3,340 (36.5) | 3,710 (44.5) | 4,060 (50) |
| 75 | | | | | | | 2,480 (30) | 2,870 (40) | 3,220 (46.5) |
| 80 | | | | | | | 1,740 (21.5) | 2,130 (34.5) | 2,500 (42.5) |
| 85 | | | | | | | | 1,480 (28.5) | 1,850 (38) |
| 90 | | | | | | | | | 1,290 (33) |
| | | nimum boom angle | , | | | | | 14 | 26 |
| #LMI operating c | Maxin angles are in degree ode. Refer to LMI n based on maximum | es. nanual for instruction | ins. | om angle (no load) | | | | | 90 |
| | | | Lifting Capaci | ities at Zero Degree | - | | | | |
| Poom | | | | Main Ro | om Length in Feet | | | | |

| *This capacity is b | ased on maximum | boom angle. | | | | | | |
|---------------------|------------------|-------------|------------------|-------------------|-------------------|--------|-----------------|---|
| | | | Lifting Capaciti | es at Zero Degree | Boom Angle | | | |
| Boom | | | | Main Bo | om Length in Feet | | | |
| Angle | 35 | 40 | 50 | **60 | 70 | 80 | 90 | _ |
| 0 | 23,700 (29.8) | 17,650 | 9,550 (44.2) | 4,810 | 2,960 | 1,840 | 1,210 (84,2) | - |
| | (29.8) | (34.2) | (44.2) | (54.6) | (64.2) | (74.2) | (04.2) | |

NOTE: () Reference radii in feet.

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

| 36 - 110 ft. | 0 lbs. | 100% 20' 0" | Ov Rei | er | | | | | |
|------------------|--|-------------------------------|-----------------------------|----------------------------|--------------------------|--------------------------|----------------------------|----------------------------|--------------------------|
| [] | | | | | #0801 | | | | |
| Feet | 0.5 | 40 | 50 | | fain Boom Length i | | | 400 | 440 |
| 10 | 35 120,000 (69) | 40 84,400 (72) | 50 80,200 (76) | **60 *62,500 (78) | 70 | 80 | 90 | 100 | 110 |
| 12 | 100,000 (65.5) | 84,400 (68.5) | 80,200 (73.5) | 62,500 (77) | *36,800 (78) | | | | |
| 15 | 87,300 (59.5) | 82,700 (63.5) | 80,200 (70) | 61,000 (74) | 36,800 (76.5) | *36,800 (78) | *31,000 (78) | | |
| 20 | 62,400 (49) | 62,200 (55) | 61,800 (63.5) | 50,650 (69) | 36,800 (72) | 36,800 (75) | 31,000 (77) | *29,100 (78) | *24,000 (78) |
| 25 | 47,250 (36) | 47,050 (45) | 46,700 (56.5) | 41,800 (63.5) | 36,800 (68) | 34,000 (71) | 30,000 (73.5) | 27,000 (76) | 24,000 (77.5) |
| 30 | | 32,950 (31.5) | 33,100 (48.5) 24.600 | 33,050 (57.5) 24.500 | 33,400 (63) 25,350 | 29,000 (67) 25,000 | 25,300 (70.5) 22,200 | 24,200 (72.5) 21.750 | 22,000 (75) 20,000 |
| 35 | | | (40) 18,800 | (51.5) 18.750 | (58) 19.600 | (63) 20,450 | (67) 20,200 | (69.5) 19.000 | (72) 18,500 |
| 40 | | | (28) | (45) 14,650 | (53) 15,500 | (59) 16,300 | (63) 17,100 | (66.5) 17,300 | (69) 17,300 |
| 45 | | | | (37) 11,550 | (47.5) 12,400 | (54.5) 13,200 | (59.5) 14,000 | (63) 14,350 | (66.5) 14,750 |
| 50 55 | | | | (26.5) | (41) 9,990 | (49.5) 10,800 | (55.5) 11,550 | (60) 11,900 | (63.5) 12,300 |
| 60 | | | | | (33.5) 8,020 | (44.5) 8,860 | (51) 9,620 | (56.5) 9,980 | (60) 10,300 |
| 65 | | | | | (24) | (38.5) 7,240 | (47) 8,030 | (52.5) 8,370 | (57) 8,720 |
| 70 | | | | | | (31.5) 5,890 | (42) 6,680 | (48.5) 7,040 | (53.5) 7,380 |
| 75 | | | | | | (22.5) | (36.5) 5,520 (30) | (44.5) 5,910 (40) | (50) 6,240 (46.5) |
| 80 | | | | | | | 4,540 (21.5) | 4,910 (34.5) | 5,270 (42.5) |
| 85 | | | | | | | (=) | 4,050 (28.5) | 4,410 (38) |
| 90 | | | | | | | | 3,300 (20.5) | 3,650 (33) |
| 95 | | | | | | | | | 2,980 (27.5) |
| 100 | | | | | | | | | 2,380 (19.5) |
| | | | n angle (deg.) for ir | | , | | | | 0 |
| .MI operating co | angles are in degre ode. Refer to LMI n based on maximum | es. nanual for instruction | length (ft.) at 0 deg s. | ree boom angle (i | no load) | | | | 110 |
| | | | Lifting Capacities | at Zero Degree B | oom Angle | | | | |
| Boom Angle | 35 | 40 | 50 | Main Bo | om Length in Feet 70 | 80 | 90 | 100 | 110 |
| 0° | 29,050 (29.8) | 24,450 (34.2) | 15,250 (44.2) | 9,320 (54.6) | 6,660 (64.2) | 4,930 (74.2) | 3,820 (84.2) | 2,740 (94.2) | 1,940 (104.2) |
| TE: () Referer | | | | | | | | | 829-101325 |

load charts

15

| 36 - 110 ft. | 33 | - 56 ft. | 0 lbs. | | 100% 20' 0" | 360 | |
|--------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|--|
| | | | Po | unds | | | |
| | ; | 33 ft. LENGT | Н | | 56 ft. LENGTH | | |
| | #0821 | #0822 | #0823 | #0841 | #0842 | #0843 | |
| Feet | 0° OFFSET | 25° OFFSET | 45° OFFSET | 0° OFFSET | 25° OFFSET | 45° OFFSET | |
| 30 | 12,900 (78) | | | | | | |
| 35 | 12,900 (76) | | | *8,330 (78) | | | |
| 40 | 12,900 (74) | *10,850 (78) | | 8,330 (77.5) | | | |
| 45 | 12,800 (72) | 10,450 (77) | *7,410 (78) | 8,330 (76) | | | |
| 50 | 10,350 (70) | 10,000 (74.5) | 7,200 (77.5) | 8,330 (74.5) | | | |
| 55 | 8,510 (68) | 9,220 (72.5) | 6,990 (75) | 8,250 (73) | *5,300 (78) | | |
| 60 | 7,000 (66) | 8,330 (70.5) | 6,800 (72.5) | 7,540 (71) | 5,140 (77) | | |
| 65 | 5,770 (63.5) | 6,930 (68) | 6,650 (70.5) | 6,420 (69) | 5,100 (75) | *3,860 (78) | |
| 70 | 4,740 (61.5) | 5,760 (65.5) | 6,370 (68) | 5,370 (67.5) | 5,100 (73) | 3,790 (77.5) | |
| 75 | 3,870 (59) | 4,770 (63) | 5,310 (65.5) | 4,480 (65.5) | 4,800 (71) | 3,660 (75) | |
| 80 | 3,130 (56.5) | 3,920 (60.5) | 4,390 (62.5) | 3,710 (63.5) | 4,580 (69) | 3,550 (73) | |
| 85 | 2,480 (54) | 3,180 (58) | 3,610 (60) | 3,050 (61.5) | 4,110 (67.5) | 3,450 (71) | |
| 90 | 1,920 (51) | 2,540 (55.5) | 2,910 (57) | 2,470 (59.5) | 3,450 (65.5) | 3,410 (68.5) | |
| 95 | 1,420 (48.5) | 1,970 (52.5) | 2,310 (54) | 1,960 (57) | 2,860 (63) | 3,300 (66.5) | |
| 100 | , | 1,470 (49.5) | 1,760 (51) | 1,500 (55) | 2,330 (61) | 2,980 (64) | |
| 105 | | 1,020 (46.5) | 1,280 (47.5) | 1,090 (52.5) | 1,870 (58.5) | 2,390 (62) | |
| 110 | | | | | 1,450 (56) | 1,870 (59.5) | |
| | | | | | | | |

No Load Stability Data

48°

NOTE: () Boom angles are in degrees.

115

Min. boom angle for indicated

length

A6-829-101340

1,400 (56.5)

51º

1,060 (53.5)

51°

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

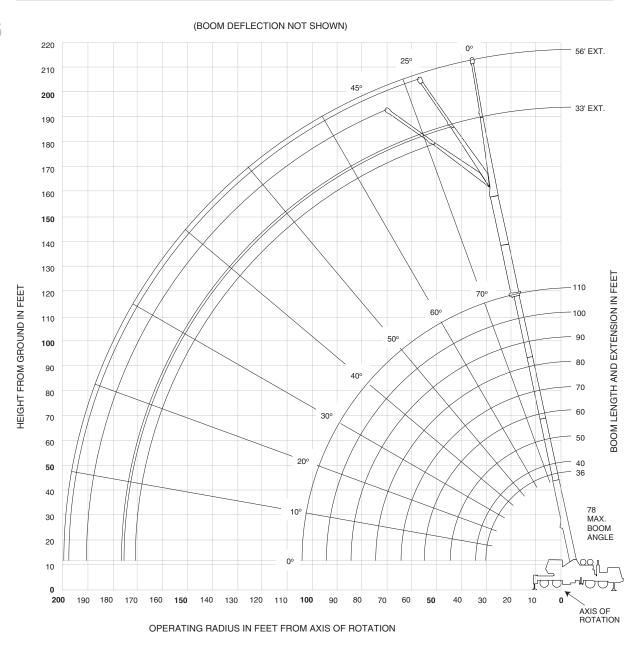
- 1. All capacities above the bold line are based on structural strength of boom extension.
- 2. 33 ft. and 56 ft. boom extension lengths may be used for single line lifting service.
- 3. Radii listed are for a fully extended boom with the boom extension erected. For main boom lengths less than fully extended, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is configured. For boom angles not shown, use the rating of the next lower boom angle.
- 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.

^{*}This capacity is based upon maximum boom angle.

working range

36-110' main boom + 33-56' lattice extension + 20' or 40' insert

16









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













| 36 - 110 ft. | 33 - 56 | ft. 20 | 20 ft. 16,500 lb. | | 100% 20' 0" | 360 | |
|---|-----------------|-----------------|-------------------|-----------------|-----------------|-----------------|--|
| | | | Po | unds | | | |
| | | 33 ft. LENGTI | Н | | 56 ft. LENGTH | | |
| \bigcirc | #0064 | #0065 | #0066 | #0084 | #0085 | #0086 | |
| Feet | 0° OFFSET | 25° OFFSET | 45° OFFSET | 0º OFFSET | 25° OFFSET | 45° OFFSET | |
| 35 | *9,360 (78) | | | | | | |
| 40 | 9,360 (77.5) | | | *6,300 (78) | | | |
| 45 | 8,480 (76) | *7,480 (78) | | 6,300 (77.5) | | | |
| 50 | 7,680 (74) | 7,070 (77.5) | | 6,000 (77) | | | |
| 55 | 6,990 (72) | 6,470 (76) | 5,880 (78) | 5,990 (75.5) | | | |
| 60 | 6,390 (70) | 5,970 (74) | 5,480 (76.5) | 5,980 (73.5) | *4,840 (78) | | |
| 65 | 5,890 (68.5) | 5,570 (72.5) | 5,080 (74.5) | 5,510 (72) | 4,840 (77.5) | | |
| 70 | 5,390 (66.5) | 5,070 (70.5) | 4,780 (72.5) | 5,010 (70.5) | 4,440 (76.5) | | |
| 75 | 4,990 (64.5) | 4,770 (68.5) | 4,480 (70.5) | 4,560 (68.5) | 4,050 (75) | *3,760 (78) | |
| 80 | 4,650 (62.5) | 4,400 (66) | 4,190 (68) | 4,170 (67) | 3,870 (73) | 3,460 (77) | |
| 85 | 4,300 (60) | 4,150 (64) | 3,890 (66) | 3,820 (65) | 3,570 (71.5) | 3,260 (75) | |
| 90 | 4,000 (58) | 3,850 (62) | 3,690 (63.5) | 3,520 (63.5) | 3,320 (69.5) | 2,960 (73) | |
| 95 | 3,760 (56) | 3,650 (59.5) | 3,500 (61.5) | 3,220 (61.5) | 3,070 (67.5) | 2,770 (71) | |
| 100 | 3,510 (53.5) | 3,410 (57.5) | 3,300 (59) | 2,980 (59.5) | 2,880 (66) | 2,570 (69) | |
| 105 | 3,260 (51) | 3,210 (55) | 3,100 (56.5) | 2,780 (58) | 2,680 (64) | 2,460 (67) | |
| 110 | 3,070 (48.5) | 3,020 (52.5) | 2,930 (54) | 2,530 (56) | 2,480 (62) | 2,340 (65) | |
| 115 | 2,870 (46) | 2,870 (50) | 2,780 (51) | 2,340 (54) | 2,280 (60) | 2,200 (63) | |
| 120 | 2,550 (43.5) | 2,730 (47) | | 2,190 (52) | 2,140 (57.5) | 2,050 (60.5) | |
| 125 | 2,170 (40.5) | 2,500 (44) | | 2,000 (49.5) | 1,990 (55.5) | 1,910 (58) | |
| 130 | 1,820 (37.5) | 2,100 (41) | | 1,850 (47.5) | 1,850 (53) | 1,810 (55.5) | |
| 135 | 1,500 (34.5) | 1,730 (37.5) | | 1,720 (45) | 1,750 (51) | 1,670 (53) | |
| 140 | 1,210 (30.5) | 1,390 (33.5) | | 1,480 (42.5) | 1,610 (48.5) | | |
| 145 | | | | | 1,520 (45.5) | | |
| 150 | | | | | 1,370 (43) | | |
| Min hoom | | No Lo | oad Stability [| Data | | | |
| Min. boom angle at 110' boom length | 22° | 29° | 45° | 38° | 40° | 45° | |
| Max. boom length at 0° boom angle | | 100 ft. | | | 80 ft. | | |

NOTE: () Boom angles are in degrees.

A6-829-101484

*This capacity is based upon maximum boom angle.

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

- All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765.
- 2. 33 ft. and 56 ft. folding boom extension lengths may be used for single line lifting service only.
- For main boom lengths less than 110 ft. with the boom extension erected, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is configured. For boom angles not shown, use the rating of the next lower boom angle.
- WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- Capacities listed are with outriggers properly extended and vertical jacks set only.















A6-829-101494

18

| | Pounds | | | | | | | | |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|--|--|
| | | 33 ft. LENGT | Н | | 56 ft. LENGT | Н | | | |
| <u>(</u> | #0064 0° | #0065 25° | #0066 45° | #0084 0º | #0085 25° | #0086 45° | | | |
| Feet | OFFSET | OFFSET | OFFSET | OFFSET | OFFSET | OFFSET | | | |
| 45 | 6,560 (78) | | | | | | | | |
| 50 | 5,960 (76) | | | 4,510 (78) | | | | | |
| 55 | 5,360 (74.5) | 5,860 (78) | | 4,210 (77.5) | | | | | |
| 60 | 4,860 (73) | 5,260 (76.5) | *5,170 (78) | 3,910 (76) | | | | | |
| 65 | 4,370 (71) | 4,870 (75) | 4,670 (77.5) | 3,710 (74.5) | | | | | |
| 70 | 3,970 (69.5) | 4,370 (73) | 4,270 (75.5) | 3,410 (73) | *3,710 (78) | | | | |
| 75 | 3,670 (67.5) | 4,070 (71.5) | 3,980 (73.5) | 3,220 (71.5) | 3,420 (77.5) | | | | |
| 80 | 3,270 (66) | 3,670 (69.5) | 3,680 (72) | 2,820 (70) | 3,120 (76) | | | | |
| 85 | 2,980 (64) | 3,370 (68) | 3,380 (70) | 2,520 (68.5) | 2,820 (74.5) | 2,730 (77.5) | | | |
| 90 | 2,780 (62.5) | 3,080 (66) | 3,080 (68) | 2,320 (66.5) | 2,620 (72.5) | 2,530 (76) | | | |
| 95 | 2,480 (60.5) | 2,880 (64) | 2,890 (66) | 2,030 (65) | 2,330 (71) | 2,340 (74.5) | | | |
| 100 | 2,290 (58.5) | 2,580 (62) | 2,690 (64) | 1,830 (63.5) | 2,130 (69.5) | 2,140 (72.5) | | | |
| 105 | 2,090 (56.5) | 2,390 (60) | 2,390 (62) | 1,630 (62) | 1,930 (68) | 1,940 (71) | | | |
| 110 | 1,900 (54.5) | 2,190 (58) | 2,200 (60) | 1,440 (60) | 1,730 (66) | 1,740 (69) | | | |
| 115 | 1,700 (52.5) | 2,000 (56) | 2,100 (58) | 1,240 (58.5) | 1,540 (64.5) | 1,550 (67) | | | |
| 120 | 1,600 (50.5) | 1,800 (54) | 1,910 (55.5) | 1,140 (57) | 1,340 (62.5) | 1,450 (65) | | | |
| 125 | 1,410 (48) | 1,700 (51.5) | 1,710 (53) | | 1,240 (61) | 1,260 (63.5) | | | |
| 130 | 1,310 (46) | 1,510 (49.5) | 1,520 (50.5) | | 1,050 (59) | 1,160 (61.5) | | | |
| 135 | 1,120 (43.5) | 1,420 (47) | 1,420 (48) | | | | | | |
| 140 | 1,030 (41) | 1,220 (44.5) | | | | | | | |
| 145 | | 1,070 (41.5) | | | | | | | |
| | | No Lo | oad Stability | Data | | | | | |
| Min. boom angle at 110' boom length | 40° | 40° | 47° | 56° | 58° | 60° | | | |
| Max. boom length at 0° boom angle | | 70 ft. | | | 40 ft. | | | | |
| | | | | | | | | | |

NOTE: () Boom angles are in degrees.

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. 33 ft. and 56 ft. folding boom extension lengths may be used for single line lifting service only.
- For main boom lengths less than 110 ft. with the boom extension erected, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is configured. For boom angles not shown, use the rating of the next lower boom angle.
- WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- Capacities listed are with outriggers properly extended and vertical jacks set only.

TMS 700E

^{*}This capacity is based upon maximum boom angle.

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

24,390 lb.

*56 ft. Extension (Erected)

Weight Reductions for Load Handling Devices 33 ft.-56 ft. Folding Boom Extension *33 ft. Extension (Erected) 4.350 lb. *56 ft. Extension (Erected) 9,450 lb. Folding Ext. with 20 ft. Insert *33 ft. Extension (Erected) 9,410 lb. *56 ft. Extension (Erected) 16,010 lb. Folding Ext. with 40 ft. Insert *33 ft. Extension (Erected) 16,280 lb.

*Reduction of main boom capacities

(no deduct required for stowed boom extension)

When lifting over swingaway and/or jib combinations, deduct total weight of all load handling devices reeved over main boom nose directly from swingaway or jib capacity.

| Auxiliary Boom Nose | 137 lb. | | | | | |
|--|-------------|--|--|--|--|--|
| Hookblocks and Headache Balls: | | | | | | |
| HOOKDIOCKS and Headache Bails: | | | | | | |
| 60 Ton, 5 Sheave | 1,125 lb. + | | | | | |
| 50 Ton, 5 Sheave | 1,075 lb. + | | | | | |
| 40 Ton, 5 Sheave | 785 lb. + | | | | | |
| 8.3 Ton Headache Ball (non-swivel) | 350 lb. + | | | | | |
| 8.3 Ton Headache Ball (swivel) | 370 lb. + | | | | | |
| + Refer to rating plate for actual weight. | | | | | | |

NOTE: All load handling devices and boom attachments are considered part of the load and suitable allowances MUST BE MADE for their combined weights. Weights are for Grove furnished equipment.

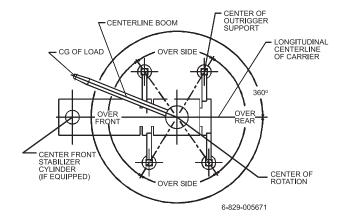
load handling

| 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. | 500 ft. | | | | | | | |
| Main & Aux. | 3/4" (19 mm) Flex-X 35 Rotation Resistant (Non-rotating) Min. Breaking Strength 85,800 lb. | 16,800 lb. | 500 ft. | | | | | | | |

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

| Hoist Performance | | | | |
|---|---|----------------|-----------------------------|-------|
| Wire Rope Layer | Hoist Line Pulls Two Speed Hoist Low High | | Drum Rope Capacity (ft.) | |
| Luyor | Available lb.* | Available lb.* | Layer | Total |
| 1 | 18,134 | 9,067 | 78 | 78 |
| 2 | 16,668 | 8,334 | 85 | 164 |
| 3 | 15,420 | 7,710 | 92 | 256 |
| 4 | 14,347 | 7,174 | 99 | 356 |
| 5 | 13,413 | 6,707 | 106 | 462 |
| 6 | 12,594 | 6,297 | 113 | 575 |
| *Max. lifting capacity: 6x37 or 35x7 class = 16,800 lb. | | | | |

Working Area Diagram



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





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