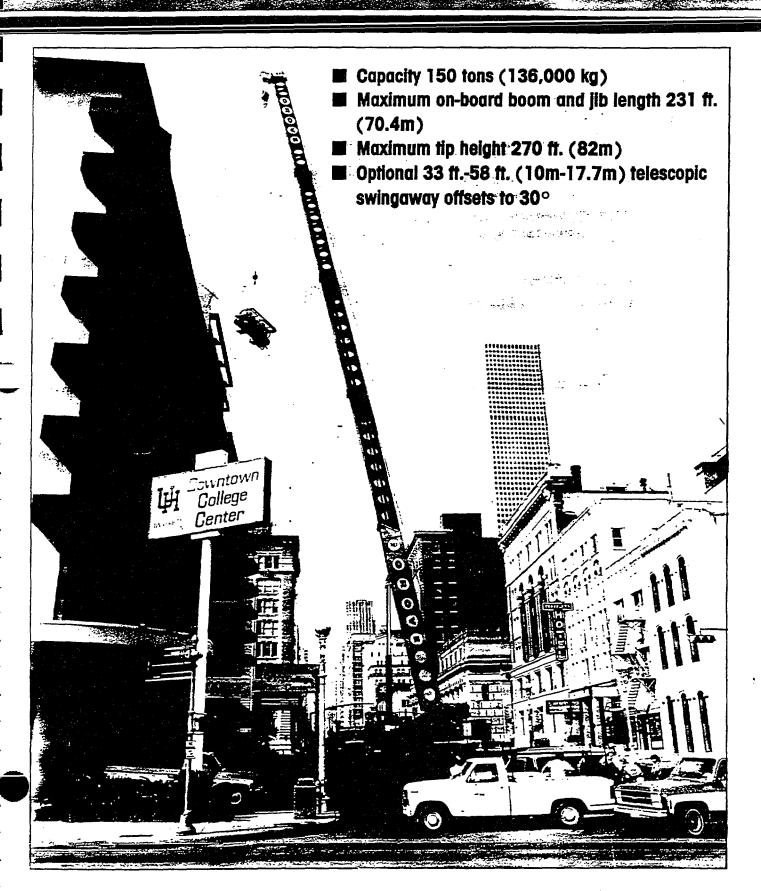


TW1500

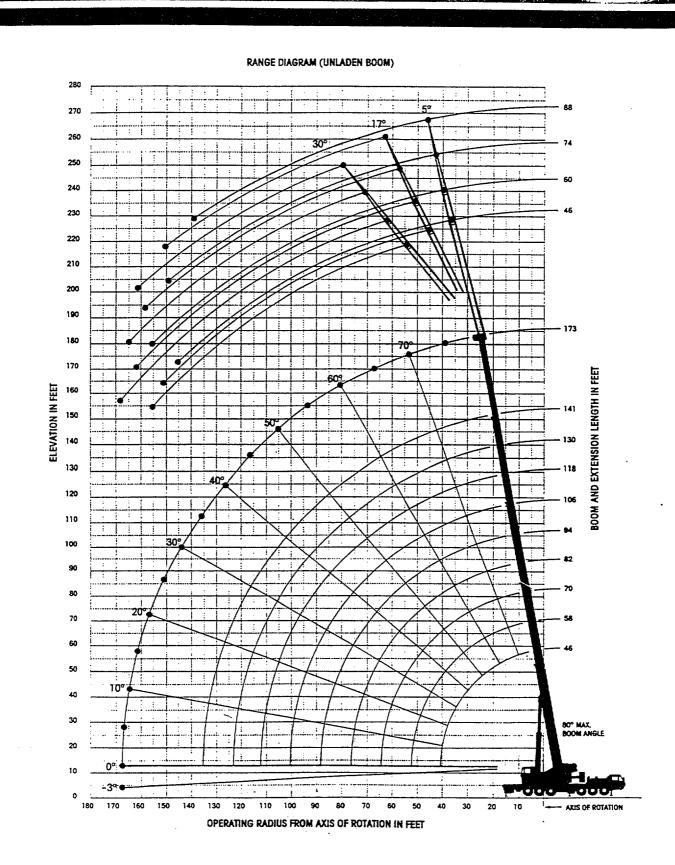
Truck-mounted hydraulic crane

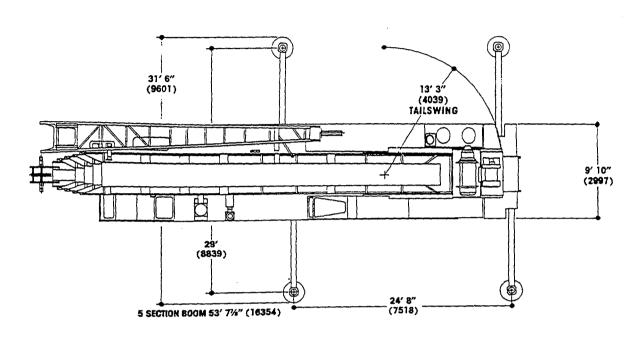


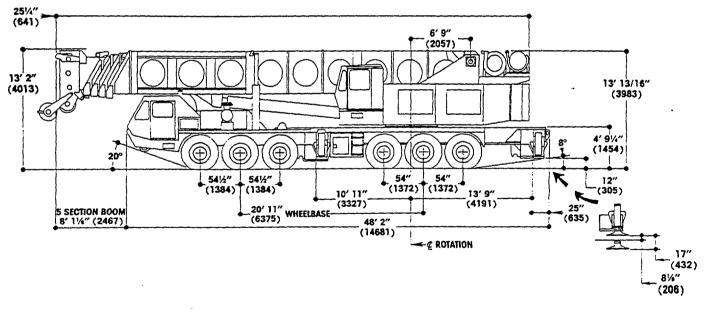


TM 1500

85% Domestic/173 ft. Aerial Power Pinned Boom & 88 ft. Fixed Offset Jib







Distributed By

Constant improvement and engineering progress makes it necessary that we reserve the right to make specification, equipment, and price changes without notice. Illustrations shown may include aptional equipment and accessories and may not include all standard equipment.

North and South America, Far East, Australasia

GROVE MANUFACTURING COMPANY

Box 21 = Shady Grove = Pennsylvania 17256 (717) 597-8121 - telex: 842308 - fax: (717) 597-4062

Europe, Africa, Middle East, Indian Sub-continent

GROVE COLES LTD.

Tefford Rd. • Bicester • Oxfordshire OX6 OTZ (0869) 246800 • telex: 837447 • fax: 0869-246965

Carrier specifications

Lights

| Frame | High strength alloy steel all welded box-type construction with integral outrigger housings and front/rear lifting, towing and tie down lugs. | Cab | Two man design, all steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe fabric covered fully adjustable seat. Complete driving controls and engine instrumentation including tachometer, speed ometer, voltmeter, water temp. oil pressure, fue level, air pressure gauge with A/V warning. Other standard items include hot water heater, defroster, electric windshield wash/wipe, fire extinguisher, seat belt and door and window locks. | | | | |
|----------------------------|--|---|---|--|--|--|--|
| Outrigger System | Hydraulic double stage double box telescopic beam and jack outriggers with integral holding valves. All steel fabricated quick release type outrigger floats 30.5 in. (775mm) diameter. Standard fifth front stabilizer for 360° duties. | | | | | | |
| Outrigger Controls | Located in the superstructure cab and on both sides of the carrier frame. Push button controls | | | | | | |
| | requiring two-handed operation for safety. Crane level indicator (sight bubble) adjacent to | | 42.1 MPH (67.3 kph) | | | | |
| Engine | each set of controls. GM8V-92TA, eight cylinder turbo-charged water cooled diesel, 736 cu. in. (12.1 L), 430 hp | Gross Vehicle Weight & Axie Loads | BASIC STANDARD MACHINE Front: 57,341 lbs. (26,010 kgs) Rear: 134,796 lbs. (61,143 kgs) G.V.W.: 192,137 lbs. (87,153 kgs) | | | | |
| | (321 kw) (Gross) @ 2100 RPM. Maximum net torque 1123 fl. lbs. (169 kg/m) @ 1400 RPM. | Miscellaneous Standard | Dual rear view mirrors, hookblock stowage trough, electronic back-up alarm, light package | | | | |
| Fuel Tank | (1) 100 gallons (378.5 L) | Equipment | jacobs engine brake and tire inflation kit. | | | | |
| Capacity Electrical System | Four 12 volt - maintenance free batteries, 24 volt starting. | Optional Equipment | Immersion engine block heater, engine low oil pressure/high water temperature, audio visual warning. | | | | |
| Drive | 12 x 6 | | †Patented Grove feature or patent pending. *Denotes optional equipment. | | | | |
| Steering | Front axle steering, cam and lever type with hydraulic assist. | | cantivas opriorios aquiprinasis. | | | | |
| Transmission | Fuller Roadranger, 9 speeds forward, 2 reverse. | | - | | | | |
| Axies | Front: (3) Rockwell tubular steering FL951, 100 in. (2540mm) track. Rear: (3) Rockwell EPRC 1735 planetary drive, 85 in. (2159mm) track. | | • | | | | |
| Suspension | Front axies (3) spring mounted tridem. Rear axies (3) solid mount tridem with equalizing beams. | | | | | | |
| Tires | Michelin 14:00x20-22PR (G-20X) radial pty tires front and rear. | | | | | | |
| Brakes | Full air on all wheels. Air dryer provided to pre- clude moisture accumulation. Spring set emer- gency brake on all rear axles with emergency release. | | | | | | |

Full lighting including head, tail, braking, reversing, directional and hazard warning

lights.

Superstructure specifications

| | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | | | 1 May 2 Kg2. | A 10 | | | |
|--|---|--|--|--|--|--|--|--|
| | | | : | | | 3, | | |
| | 46 ft. to 173 ft. (14m - 53m) five section Trapezoidal† full power boom. Each boom section has individually controlled telescope sections supported on graphite impregnated nylatron wear pads. Maximum tip height: 182 ft. | Engine | cool (15: net t | GM8.2L eight cylinder turbo-charged water cooled diesel. 500 cu. in. (8.2 L), 205 hp (153 kw) (Gross) @ 3000 RPM. Maximum net torque: 383 ft. lbs. (53 kg/m) @ 1700 RPM. | | | | |
| Swingaway Extension | (55m). 33 ft. (10.1m) initice swingaway boom extension stows alongside base boom section when not in use, offsettable at 2°, 15° or 30°. Maximum tip height: 215 ft. (66m). | HYDRAULIC Pumps | Six r ture | x main gear pumps powered by superstruc- re engine. Manual pump disconnect. Com- ned capacity 349 GPM (1321 lpm). | | | | |
| *Optional Telescopic | 33 ft. to 58 ft. (10m-18m) telescopic lattice swingaway extension with offset links, | Valves | 6 inc | | banks p | acting control valve ermit simultaneous inctions. | | |
| Swingaway | offsettable at 2°, 15° or 30°. Stows alongside base boom when not in use. Maximum tip height: 240 ft. (73m). | Filter | tion : | Return line type, full flow with by-pass protection and filter by-pass indicator, replaceable cartridge, 25 micron filtration rating. | | | | |
| *Optional Jib Extension | 60 ft. (18m) or 88 ft. (27m) fixed offset jib. Also available are 60 ft. and 88 ft. power luffing jibs. Maximum tip height: 270 ft. (82m). | Reservoir | 420 ter, e | 420 gallons (1590 L) with spin-on breather fi ter, external sight gauge, clean out access, strap mounted to frame. | | | | |
| Boom Nose | Eight sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope | Oil Cooler | | low, fin and | tube, oil i | o air. | | |
| | guards. Standard removable auxiliary boom nose with remestable pin type rope guard. | HOIST SPECI | Serie | | | two motors provided ranges. Power u | | |
| Boom Elevation | Dual double acting hydraulic cylinders with integral holding valve provides elevation from -3° to 80°. | | and e with hoist | and down, equal speed, planetary reduction with integral automatic brake and electronic hoist drum rotation indicator. | | | | |
| Loca Moment & Ami-Two Block System | Audio-visual (light/buzzer) warning system and control lever lockout with electronic display of: boom angle, length, radius, boom tip | Make/Model | Ma | | c. Hoist H | del 44-26(H) and 030B-26(H) Auxiliary | | |
| w/EMI | height, relative load moment, rated load and actual load indication. | Maximum single line | Bottom layer | 314 FPM (96m/min) | | 454 FPM (138m/min) 528 FPM | | |
| Cab | Full vision, all steel fabricated with accoustical lining and tinted safety glass throughout. Dash panel incorporates gauges for all engine func- tions. Other standard features include: hinged | speed | speed Intermediate layer Top layer | | e 366 FPM (112m/min) 419 FPM (128m/min) | | | |
| | skylight, sliding left side door and sliding right side window, electric winshield wash-wipe, circulating air fan, heater and defroster, swing horn, fire extinguisher, seat belt. *Optional items: electric skylight wiper and air conditioning. | Maximum single line pull | Bottom layer Intermediate layer Top layer | 24,90 (1129 21,32 (9674 18,65 (8460 | 5 kg) 7 lbs. 1 kg) 0 lbs. | 16,322 lbs. (7404 kg) 14,056 lbs. (6376 kg) 12,344 lbs. (5599 kg) | | |
| Swing | Roller bearing swing circle with 360° continuous rotation. Grove planetary "gilde swing" with toot actuated disc brake, spring applied | Maximum pe line pull w/5: strength facto | :1 | 22,766 (1032 | 0 lbs. | 12,920 lbs. (5,861 kg) | | |
| | hydraulically released park brake and 360° position positive turntable lock. Combination controls provided for hand or foot operation. Swing speed 1.9 RPM. | Maximum rope stowage | 950 ft. of 1 (290m of | • | | of 3/4" dia. rd sm of 19.1mm) | | |
| Counterweight | Turntable mounted, power installed and removed, hydraulically extended to working | | | | d Grove feature optional equi | or patent pending. pment. | | |

removed, hydraulically extended to working position and retracted to stowed or travel position. 15,700 lbs. (7122 kg) with aux: hoist;

BOOM

46 FT. TO 173 FT. AERIAL POWER PINNED BOOM CAPACITIES ON OUTRIGGERS FULLY EXTENDED - 360°

| Radius in Feet | | | Main Boon | | | r Pinned Ry | Retracted) | | | Power Pi Ry Ext. & 141 f |
|-------------------|-----------|------------|-------------|-------------|---------|-------------|------------|--------|--------|--------------------------------|
| | 46 | 58 | 70 | 82 | 94 | 106 | 118 | 130 | 141 | 173 |
| 10 | 300,000 | | | | | | | | | |
| | (74.5) | | | | | | | | | 1 |
| 12 | 280,000 | 143,500 | 142.000 | | | | | | | |
| | (72) | (76) | (79) | | | | | | | <u> </u> |
| 15 | 235,000 | 143,500 | 141,500 | 130,000 | | | İ | | | |
| | (67.5) | (72.5) | (76.5) | (78.5) | | | | | | |
| 20 | 173,500 | 143,500 | 123,500 | 112,000 | 102,000 | 90,300 | | | | |
| | (60.5) | (67.5) | (72) | (75) | (77.5) | (79.5) | | | | |
| 25 | 135.500 | 131,500 | 110,500 | 98,650 | 89,250 | 78,550 | 73.700 | 69,300 | | |
| | (52) | (61.5) | (67.5) | (71) | (74) | (76.5) | (78.5) | (80) | | |
| 30 | 106,000 | 106,000 | 98,000 | 88.350 | 78,750 | 69,250 | 45,100 | 61.000 | 000.00 | - |
| | (43) | (55.5) | (63) | (67.5) | (71) | (73.5) | (76) | (77.5) | (79.5) | ļ |
| 35 | 84,700 | 84,700 | 84,700 | 80,150 | 69,000 | 60,750 | 57,150 | 54,000 | 52,150 | |
| | (30.5) | (49) | (58) | (63.5) | (67.5) | (70.5) | (73) | (75.5) | (77.5) | |
| 40 | | 70,500 | 70.500 | 70,500 | 61,300 | 54,000 | 50.600 | 48,300 | 45,850 | 38,000 |
| | | (41) | (52.5) | (59.5) | (64) | (67.5) | (70.5) | (73) | (75) | (79) |
| 45 | | 57,250 | 57,250 | 57,250 | 55,000 | 48,500 | 45,200 | 43,050 | 40,400 | 35.750 |
| | | (32) | (47) | (55) | (60.5) | (64.5) | (68) | (71) | (73) | (77) |
| 50 | | 46,550 | 46,550 | 46,550 | 44,550 | 43,050 | 40.700 | 38,250 | 35,750 | 32,100 |
| | } | (17.5) | (40.5) | (50.5) | (57) | (61.5) | (65) | (68.5) | (71) | (75.5) |
| 60 | | | 32,000 | 32,000 | 32,000 | 32,000 | 32,000 | 30,750 | 28,500 | 26,350 |
| | | | (22.5) | (39.5) | (48.5) | (55) | (59.5) | (63.5) | (66.5) | (72) |
| 70 | | | | 22,550 | 22,550 | 22,550 | 22,550 | 22,550 | 22,550 | 22,000 |
| | | | | (25) | (39.5) | (47.5) | (53) | (58) | (61.5) | (68.5) |
| 80 | | | | | 15,900 | 15,900 | 15,900 | 15,900 | 15,900 | 18,500 |
| | | | | | (27) | (39) | (46.5) | (52.5) | (56.5) | (64.5) |
| 90 | | | | | | 11,000 | 11,000 | 11,000 | 11,000 | 15,250 |
| | | | | | | (28) | (38.5) | (46.5) | (51.5) | (60.5) |
| 100 | | | | | | | 7,260 | 7,260 | 7,260 | 11,750 |
| | | | | | | | (29) | (39) | (45.5) | (56.5) |
| 110 | | | | | | | 4.260 | 4.260 | 4,260 | 8,520 |
| | | | | | | | (12.5) | (30.5) | (39) | (52) |
| 120 | | | | | | | | 1,830 | 1,830 | 5,850 |
| | | | | | | | | (17.5) | (31) | (47.5) |
| 130 | | | | | | | | | | 3,610 |
| | | | | | | | | | | (42.5) |
| 140 | | | | | | | | | | 1,710 |
| | | | | | | | <u> </u> | | | (36.5) |
| nimum t | oom angle | (deg.) lor | ndicated le | ngth (no lo | ad) | | | | 20 | 30 |

NOTE: Boom angles are in degrees.

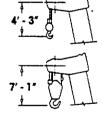
A6-829-007136 & -007143

CAPACITIES FOR 33 FT. FIXED LENGTH EXTENSION ON OUTRIGGERS - 360°

| on outrioutes - out | | | | | | | | |
|-------------------------|--------------------|--------------|--------------------|--------------|--------------------|--------------|--|--|
| Main | 2 0 | FFSET | 15° C | FFSET | 30° OFFSET | | | |
| Boom Angle (Deg.) | Rad. Ref. (ft.) | Cap. ibs. | Rad. Ref. (ft.) | Cap. Ibs. | Rad. Ref. (ft.) | Cap. Ibs. | | |
| 80 | 39.1 | 22,850 | 45.9 | 20,200 | 52.0 | 14,750 | | |
| 75 | 56.6 | 17,400 | 63.0 | 16,100 | 68.7 | 12,750 | | |
| 70 | 73.7 | 14,000 | 79.6 | 12,950 | 84.8 | 10,700 | | |
| ó5 | 90.2 | 11,850 | 95.5 | 10,750 | 100.3 | 9,210 | | |
| 60 | 106.0 | 10,750 | 110.8 | 9,140 | 115.0 | 8,050 | | |
| - 55 | 121.1 | 7,240 | 125.2 | 6,160 | 128.8 | 5,320 | | |
| 50 | 135.2 | 4,330 | 138.6 | 3,700 | 141.8 | 3,150 | | |

A6-829-008157

DIMENSIONS ARE FOR LARGEST GROVE FURNISHED HOOK BLOCK AND HEADACHE BALL, WITH ANTI-TWO BLOCK ACTIVATED.



CAPACITIES FOR 33 FT. - 58 FT. TELE. EXTENSION ON OUTRIGGERS - 360°

| Main | | 33 ft. EXTENSION | | | | | | 48 ft. EXTENSION | | | | | 58 ff. EXTENSION | | | | | |
|--------|------------------|------------------|------------------|--------------|------------------|--------------|------------------|------------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|
| Boom | 2 0 | FFSET | 15° C | FFSET | 30°C | FFSET | 2 0 | FFSET | 15° C | FFSET | 30° C | OFFSET | 2 0 | FFSET | 15° C | FFSET | 30°C | OFFSET |
| (Deg.) | Rad. Ref. ft. | Cap. Ibs. | Rad. Ref. ft. | Cap. lbs. | Rad. Ref. ft. | Cap. lbs. | Rad. Ref. ft. | Cap. Ibs. | Rad. Ref. ft. | Cap. ibs. | Rad. Ref. ft. | Cap. lbs. | Rad. Ref. ft. | Cap. Ibs. | Rad. Ref. ft. | Cap. lbs. | Rad. Ref. ft. | Cap. Ibs. |
| 80 | 39.1 | 22,300 | 45.9 | 19,650 | 52.0 | 14,200 | 43.9 | 14,800 | 55.9 | 12.700 | 65.0 | 9.040 | 45.1 | 9,600 | 59.1 | 8,300 | 69.6 | 7.000 |
| 75 | 56.6 | 16,850 | 63.0 | 15.550 | 68.7 | 12.200 | 62.5 | 13,700 | 73.4 | 10,900 | 81.8 | 8,320 | 65.0 | 9.150 | 77.9 | 7,950 | 87.8 | 6.440 |
| 70 | 73.7 | 13,450 | 79.6 | 12,400 | 84.8 | 10,150 | 80.7 | 11,600 | 90.3 | 8,840 | 97.9 | 7.110 | 84.4 | 8.550 | 96.2 | 7,200 | 105.5 | 5.760 |
| 65 | 90.2 | 11,300 | 95.5 | 10,200 | 100.3 | 8,670 | 98.2 | 9.230 | 106.7 | 7,330 | 113.3 | 6,120 | 103.2 | 7.630 | 113.8 | 6,000 | 122.3 | 4.970 |
| 60 | 106.0 | 10,200 | 110.8 | 8,600 | 115.0 | 7,450 | 115.1 | 7,550 | 122.1 | 6.210 | 127.9 | 5,340 | 121.2 | 6,260 | 130.5 | 5,100 | 138.2 | 4,360 |
| 55 | 121.1 | 6,440 | 125.2 | 5.370 | 128.8 | 4.540 | 131.1 | 5,200 | 136.7 | 3.860 | 141.5 | 2,950 | 138.2 | 4.650 | 146.2 | 3.265 | 153.1 | 2.380 |
| 50 | 135.2 | 3,520 | 138.6 | 2,910 | 141.8 | 2,360 | 146.1 | 2.580 | 150.2 | 1,790 | i | 1 | 154.3 | 2,235 | | | | |

A6-829-007158

CAPACITIES FOR 46 FT. - 88 FT. FIXED OFFSET JIBS ON OUTRIGGERS - 360°

| Main | | | 46 F | r. JIB | | 60 FT. JIB | | | | | | |
|-----------------|------------------------|----------------|--------------------|--------------|--------------------|--------------|--------------------|--------------|--------------------|--------------|--------------------|--------------|
| Boom | 5° O | FFSET | 17° O | FFSET | 30° O | FFSET | 5° O | FSET | 17° O | FFSET | 30° O | FFSET |
| Angle (Deg.) | Rad. Ref. (ft.)* | Cap. Ibs.** | Rad. Ref. (ft.) | Cap. Ibs, | Rad. Ref. (ft.) | Cap. lbs. | Rad. Ref. (ft.) | Cap. lbs. | Rad. Ref. (ff.) | Cap. Ibs. | Rad. Ref. (ft.) | Cap. Ibs. |
| 80 | 44.4 | 14,900 | 52.4 | 12,600 | 59.8 | 8,120 | 47.1 | 12,500 | 58.6 | 8,530 | 68.7 | 5,350 |
| 77.5 | 53.7 | 14,450 | 61.6 | 11,650 | 68.8 | 7,750 | 57.1 | 11.650 | 68.2 | 7,850 | 78.1 | 5,070 |
| 75 | 62.9 | 14,000 | 70.6 | 10,850 | 77.6 | 7,410 | 67.0 | 10,800 | 77.9 | 7,260 | 87.3 | 4.830 |
| 72.5 | 72.0 | 13,600 | 79.5 | 10,150 | 86.2 | 7,120 | 76.8 | 10,000 | 87.2 | 6.760 | 96.5 | 4,610 |
| 70 | 81.0 | 12,470 | 88.3 | 9,550 | 94.8 | 6,860 | 86.5 | 9,230 | 96.5 | 6,330 | 105.3 | 4.420 |
| 67.5 | 89.8 | 11,250 | 96.9 | 8.980 | 103.2 | 6,630 | 96.0 | 8,500 | 105.6 | 5,950 | 114.2 | 4,250 |
| <i>6</i> 5 | 98.4 | 8,850 | 105.3 | 7,940 | 113.2 | 6,430 | 105.2 | 7,850 | 114.5 | 5,620 | 122.7 | 4,100 |
| 62.5 | 106.9 | 6,900 | 113.5 | 6,550 | 119.2 | 6,210 | 114.3 | 6,430 | 123.2 | 5,270 | 130.9 | 3,970 |
| 60 | 115.1 | 5,370 | 121.5 | 5,080 | 126.9 | 4,800 | 123.2 | 5,010 | 131.6 | 4,500 | 138.9 | 3,850 |
| 55 | 131.0 | 3,050 | 136.8 | 2,870 | 141.6 | 2,700 | 140.2 | 2,980 | 147.7 | 2,670 | 154.1 | 2,370 |
| 50 | 145.9 | 1,550 | 151.1 | 1,460 | 155.2 | 1,370 | 156.2 | 1,430 | 162.7 | 1,260 | 168.2 | 1,100 |

| Main | | | 74 F | r. JIB | | 88 FT. JIB | | | | | | |
|-----------------|--------------------|--------------|--------------------|--------------|--------------------|--------------|------------------------|----------------|--------------------|--------------|--------------------|--------------|
| Boom | 5° O | FFSET | 17°0 | FFSET | 30°C | FFSET | 5° O | FFSET | 17° O | FFSET | 30° O | FFSET |
| Angle (Deg.) | Rad. Ref. (ft.) | Cap. ibs. | Rad. Ref. (ft.) | Cap. Ibs. | Rad. Ref. (ft.) | Cap. Ibs. | Rad. Ref. (ft.)* | Cap. 1bs.** | Rad, Ref. (ff.) | Cap. Ibs. | Rad. Ref. (ft.) | Cap. lbs. |
| 80 | 50.8 | 9,470 | 64.3 | 6,000 | 78.0 | 3,530 | 52.9 | 7,300 | 70.1 | 3.970 | 86.0 | 2.330 |
| 77.5 | 61.2 | 8,790 | 74.6 | 5,470 | 87.8 | 3,310 | 64.1 | 6,580 | 80.9 | 3.590 | 96.2 | 2.060 |
| 75 | 71.6 | 7,980 | 84.7 | 5,020 | 97.3. | 3,120 | 75.2 | 5,950 | 91.5 | 3,260 | 106.3 | 1.820 |
| 72.5 | 81.9 | 7,280 | 94.7 | 4,630 | 106.8 | 2,950 | 86.1 | 5,380 | 102.0 | 2,980 | 116.2 | 1,610 |
| 70 | 92.0 | 6,610 | 104.3 | 4,290 | 116.0 | 2,800 | 96.9 | 4,800 | 112.2 | 2,740 | 126.0 | 1,450 |
| 67.5 | 101.9 | 6,030 | 114.0 | 4.000 | 124.9 | 2,660 | 107.5 | 4,300 | 122.2 | 2,530 | 135.3 | 1,330 |
| 65 | 111.6 | 5,500 | 123.3 | 3,740 | 133.7 | 2,540 | 117.9 | 3,870 | 132.1 | 2,340 | 144.6 | 1,220 |
| 62.5 | 121.1 | 5,040 | 132.5 | 3,510 | 142.1 | 2,440 | 128.0 | 3,510 | 141.7 | 2,180 | 153.5 | 1,150 |
| 60 | 130.2 | 4,050 | 141.2 | 3,260 | 150.2 | 2,350 | 138.0 | 2,870 | 150.9 | 1,970 | 162.1 | 1,080 |
| 55 | 148.1 | 2,020 | 158.2 | 1,810 | 165.8 | 1,600 | | | | | | |

^{*}Reference radius refers to fully extended boom and appropriate jib length.

**Capacities at loaded main boom angle.

NOTE: Jib litting capacities with auxiliary hoist only (3/4 in, wire rope).

A6-829-007220

WEIGHT REDUCTIONS FOR LOAD HANDLING DEVICES

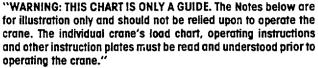
| 46 ft 173 ft. Boo | om with |
|-----------------------|-------------|
| *46 ft. Jib Erected - | 9,613 lbs. |
| *60 ft. Jib Erected - | 14,571 lbs. |
| *74 ft. Jib Erected - | 20,443 lbs. |
| *88 ft. Jib Erected - | 27,199 lbs. |

^{*}Reduction of main boom capacities

| HOOKBLOCKS: | |
|----------------------|------------|
| 30 Ton, 1 Sheave | 1.022 lbs. |
| 150 Ton, 8 Sheave | 5,254 lbs. |
| Auxiliary Boom Head | 261 lbs. |
| 10 Ton ∺eadache Ball | 560 lbs. |
| 15 Ton meadache Ball | 803 lbs. |

- All capacities above the bold line are based on structural strength of iib.
- 46', 60', 74' & 88' jibs may be used for two-part line lifting crane service only.
- 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.
- Rated load is based on loaded main boom angle with reference to horizontal, regardless of main boom length. (Ref. radius in ft. is for fully extended boom and power pinned fly extended 173 ft. boom length only.)
- Capacities listed are with fully extended outriggers and front jack cylinder extended according to proper procedure.
- 46 FT. JIB WARNING: With 46 ft. jib in working position, the boom angle must not be less than 50° since loss of stability will occur causing a tipping condition.
 - 60 FT. JIB WARNING: With 60 ft. jib in working position, the boom angle must not be less than 50° since loss of stability will occur causing a tipping condition.
 - 74 FT. JIB WARNING: With 74 ft. jib in working position, the boom angle must not be less than 55° since loss of stability will occur causing a tipping condition.
 - 88 FT. JIB WARNING: With 88 ft. jib in working position, the boom angle must not be less than 60° since loss of stability will occur causing a tipping condition.
- 7. JIB ERECTION NOTES:
 - A. Maximum total length of main boom for purpose of erecting jib, over rear or side, below 30° main boom angle is:
 - 46 ft. Jib 136 ft.
 - 60 ft. Jib 129 ft.
 - 74 ft. Jib 122 ft.
 - 88 ft. Jib 115 ft.
 - B. WARNING: Do not attempt to erect jib over front of machine, unless boom is fully retracted (power pinned fly extended).

NOTES FOR LIFTING CAPACITIES



- All rated loads have been tested to and meet minimum requirements of SAE J1063 OCT80 - Cantilevered Boom Crane Structures - Method of Test, and do not exceed 85% of the tipping load on outriggers as determined by SAE J765 OCT80 Crane Stability Test Code.
- Capacities given do not include the weight of hookblocks, slings, auxiliary lifting equipment and load handling devices. Their weights MUST be added to the load to be lifted. When more than minimum required reeving is used, the additional rope weight shall be considered part of the load.
- Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
- All capacities are for crane on firm, level surface. It may be necessary
 to have structural supports under the outrigger floats or tires to spread
 the load to a larger bearing surface.
- When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used.
- For outrigger operation, ALL outriggers shall be fully extended with tires raised free of ground before raising the boom or lifting loads.
- Unless otherwise stated, capacities are with powered boom sections equally extended.

Constant improvement and engineering progress makes it necessary that we reserve the right to make specification, equipment, and price changes without notice. Illustrations snown may include optional equipment and accessories and may not include all standard equipment.

North and South America, U.S.S.R., Far East, Australasia

GROVE MANUFACTURING COMPANY

Box 21 ■ Shady Grove ■ Pennsylvania 17256 (717) 597-8121 ■ telex: 842308 ■ fax: (717) 597-4062

Europe, Africa, Middle East, Indian Sub-continent

GROVE

Sunderland ■ SR4 6TT ■ England

(091) 565 6281 # telex: 53506 CRANES G # fox: (091) 564 0442

FORM NO.: LCTM1500P.P.

1289-5M-FB

PRINTED IN U.S.A.