



TNS875 Carrier-mounted hydraulic crane



Tires

Front:

Rear:

Carrier specifications

Frame	High strength alloy steel all welded box-type construction with integral outrigger housings and front/rear lifting, towing and tie down lugs.	Optional Tires	Front: Rear:	tube typ	20-22PR Michelin radial
Outrigger System	Hydraulic single stage, double box telescopic beam and jack outriggers with integral holding valves. All steel fabricated quick release type outrigger floats 30.5" (775mm) diameter. Standard fifth front stabilizer for 360° duties.	Brakes	clude mo	isture accu	ls. Air dryer provided to pre- umulation. Spring set emer- h rear axles with emergency
Outrigger Controls	Located in superstructure cab and on both sides of the carrier frame. Push button controls requiring two-handed operation for safety.	Lights	•	•	ng head, tail, braking, onal and hazard warning
	Crane level indicator (sight bubble) adjacent to controls.	Cab		-	Il steel fabricated with
Engine	GM6-71T six cylinder turbo-charged water cooled diesel, 426 cu. in. (7 L) 280 bhp (208 kw) (Gross) @ 2100 RPM. Maximum torque 785 ft. lbs. (109 kg/m) @ 1000 RPM.		throughous ble seat. (instrument ometer, v	ut. Deluxe Complete on ntation incontraction incontraction	d tinted safety glass fabric covered fully adjusta- driving controls and engine cluding tachometer, speed- water temp. oil pressure, fuel
Optional Engine	Cummins NTC300 six cylinder turbo-charged water cooled diesel 855 cu. in. (14 L) 300 bhp (224 kw) (Gross) @ 2100 RPM. Maximum net torque 1000 ft. lbs. (138 kg/m) @ 1300 RPM.		Other sta defroster,	ndard item electric w	auge with A/V warning. as include hot water heater/ indshield wash/wipe, fire elt and door and window
Fuel Tank	(1) 100 gallons (379 L)	Maximum Speed	47.8 MPI	H (76.9 kp	oh)
Electrical System	Four 12 volt - maintenance free batteries, 24 volt starting.	Gross Vehicle Weight & Axle Loads	Front Tan Rear Tand G.V.W.:		AACHINE 36,380 lbs. (16,502 kgs) 64,596 lbs. (29,301 kgs) 100,976 lbs. (45,803 kgs)
Drive	8 x 4	Miscellaneous		view mirro	ors, hookblock fiedown sling
Steering	Front axle steering, worm and roller type with hydraulic assist.	Standard Equipment			alarm, light package.
Transmission	Roadranger gearbox with 9 speeds forward and 2 reverse, with 2 speed auxiliary transmission.	Optional Equipment	pressure/	high wate	olock heater, engine low oil er temperature, audio visua
Optional Transmission	Automatic, with 5 speeds forward, 1 reverse, with 2 speed auxiliary transmission.		tire inflati		ngine brake, back-up alarm,
Axies	Axles 1 & 2, steering, tubular steel, 100 in. track. Axles 3 & 4, single reduction drive, 100 in. track with inter-axle differential lock.				Grave feature or patent pending. ptional equipment.
Suspension	Front axles (1 & 2) spring mounted tandem. Rear axles (3 & 4) solid mount tandem with equalizing beam.				

18:00x22.5-18PR highway tread,

12:00x24-16PR highway tread,

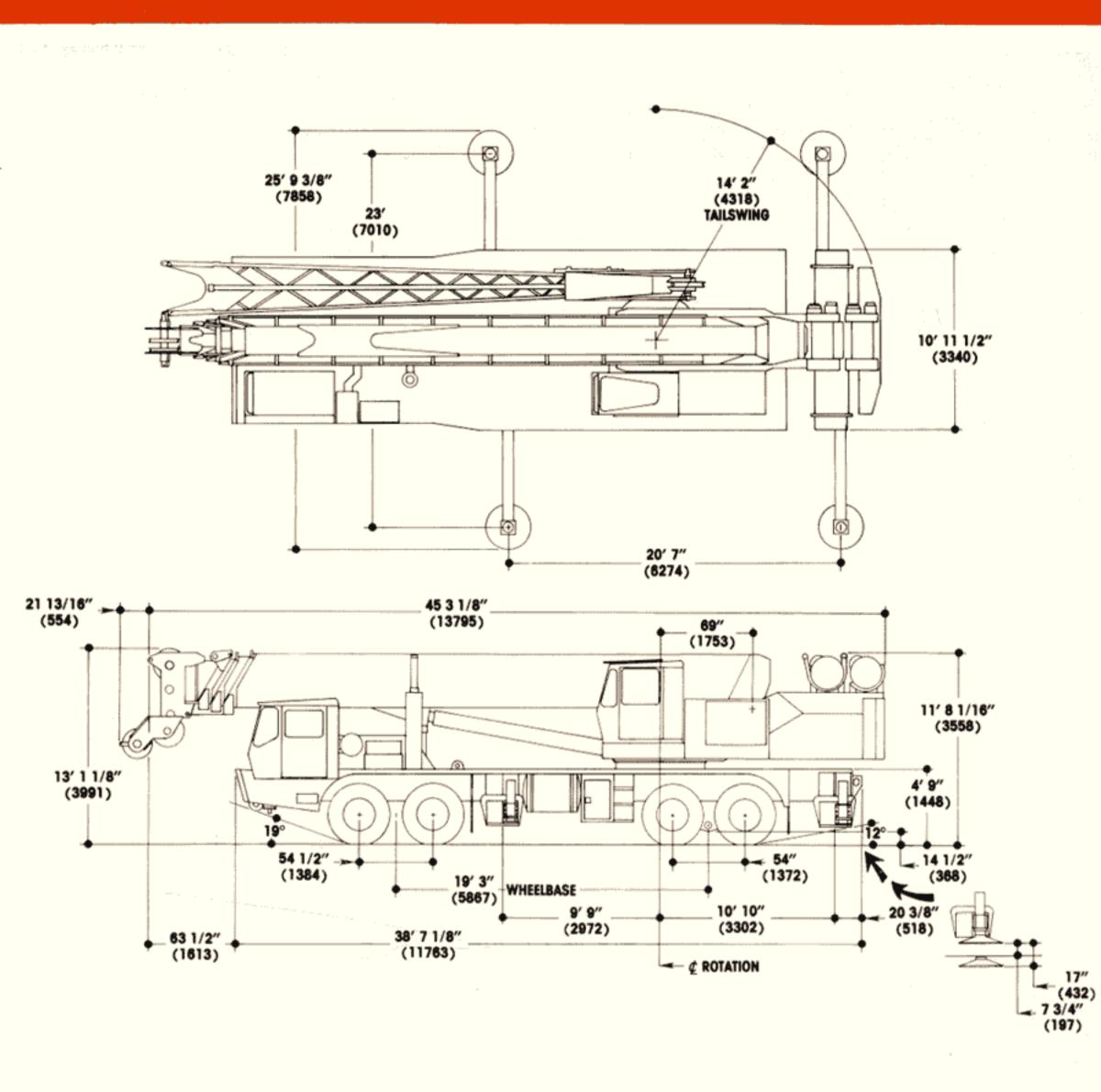
tubeless.

tube type.

Superstructure specifications

Boom	36 ft. to 114 ft. (11m - 34.7m) four section Trapezoidal† power pinned or optional full power boom. Telescopic sections slide on adjustable and replaceable nylatron pads. Max- imum tip height: 122 ft. (37.2m).	HYDRAULIC Pumps	e C	wo tandem main gear pur ngine through PTO with m combined capacity 178 GI	anual disconnect. PM (674 LPM).
Swingaway Extension	33 ft. (10.1m) lattice swingaway boom extension stows alongside base boom section when not in use, offsettable at 2°, 15° or 30°. Max-	Valves	0	recision four way double of individual valve banks per control of multiple crane fu	ermit simultaneous nctions.
*Optional	imum tip height: 155 ft. (47.2m). 33 ft. to 58 ft. (17.7m) telescopic lattice	Filter	ti	suction line type, full flow to on and filter by-pass indic artridge, 7/17/22 micron	ator, replaceable
Telescopic Swingaway	swingaway extension with offset links, offsettable at 2°, 15° or 30°. Stows alongside base boom when not in use. Maximum tip height: 178 ft. (54.6m).	Reservoir	2 te	260 gallons (984 L) with ser, external sight gauge, clarap mounted to frame.	spin-on breather fil-
Optional Jib Extension	46 ft. (14m), 60 ft. (18.3m) 74 ft. (22.6m) and 88 ft. (26.8m) fixed offset jib. Maximum tip height: 206 ft. (62.8m).	Oil Cooler HOIST SPEC	IFICATIONS	eries parallel circuitry and	-
Boom Nose	Six sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards. *Optional removable auxiliary boom nose with removable pin type rope guard.		a W	oth high line pull and spe ind down, equal speed, pl with integral automatic bra loist drum rotation indicate	anetary reduction ke and electronic
Boom Elevation	Two double acting hydraulic cylinders with integral holding valve provides elevation from -4° to 80°.	Make/Mode	l	Grove Main Hoist HO *Auxiliary Hoist Ho High Range	, ,
Load Moment & Anti-Two Block System	Standard load moment and anti-two block system with audio-visual warning and control lever lockout to alert operator of impending two-block condition. Electronic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load and actual load indication is provided.	Maximum single line speed	Intermedic layer Top layer	(138m/min) ate 528 FPM (161m/min) 602 FPM (183m/min)	227 FPM (69m/min) 264 FPM (80m/min) 301 FPM (92m/min)
Cab	Full vision, all steel fabricated with accoustical lining and tinted safety glass throughout. Dash panel incorporates gauges for all engine functions. Other standard features include: hinged skylight, sliding left side door and sliding right	Maximum single line pull	Intermedic layer Top layer	(3702 kg)	16,322 lbs. (7404 kg) 14,056 lbs. (6376 kg) 12,344 lbs. (5599 kg)
	side window, electric winshield wash-wipe, cir- culating air fan, heater, swing horn, fire extin- guisher, seat belt. *Optional items: electric sky- light wiper and air conditioning.	Maximum permissible line pull w/5:1 Stren		Main 14,720 lbs. (6677 kg)	Aux. 12,920 lbs. (5575 kg)
Swing	Ball bearing swing circle with 360° continuous rotation. Grove planetary "glide swing" with foot actuated disc brake, spring applied hydraulically released park brake and 360° position positive turntable lock. Combination controls provided for hand or foot operation.	Maximum rope stowage		Auxiliar 650 ft. of 3/4 in (198m of 1st †Patented Grove featur *Denotes optional equi	dia. rope 9mm) e or patent pending.
Counterweight	Swing speed 1.8 RPM. Fixed position pinned to turntable. *Power installation and removal system is available. Weight varies depending on hoist configuration.				

Dimensions



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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 optional 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

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





AXLE WEIGHT DISTRIBUTION CHART

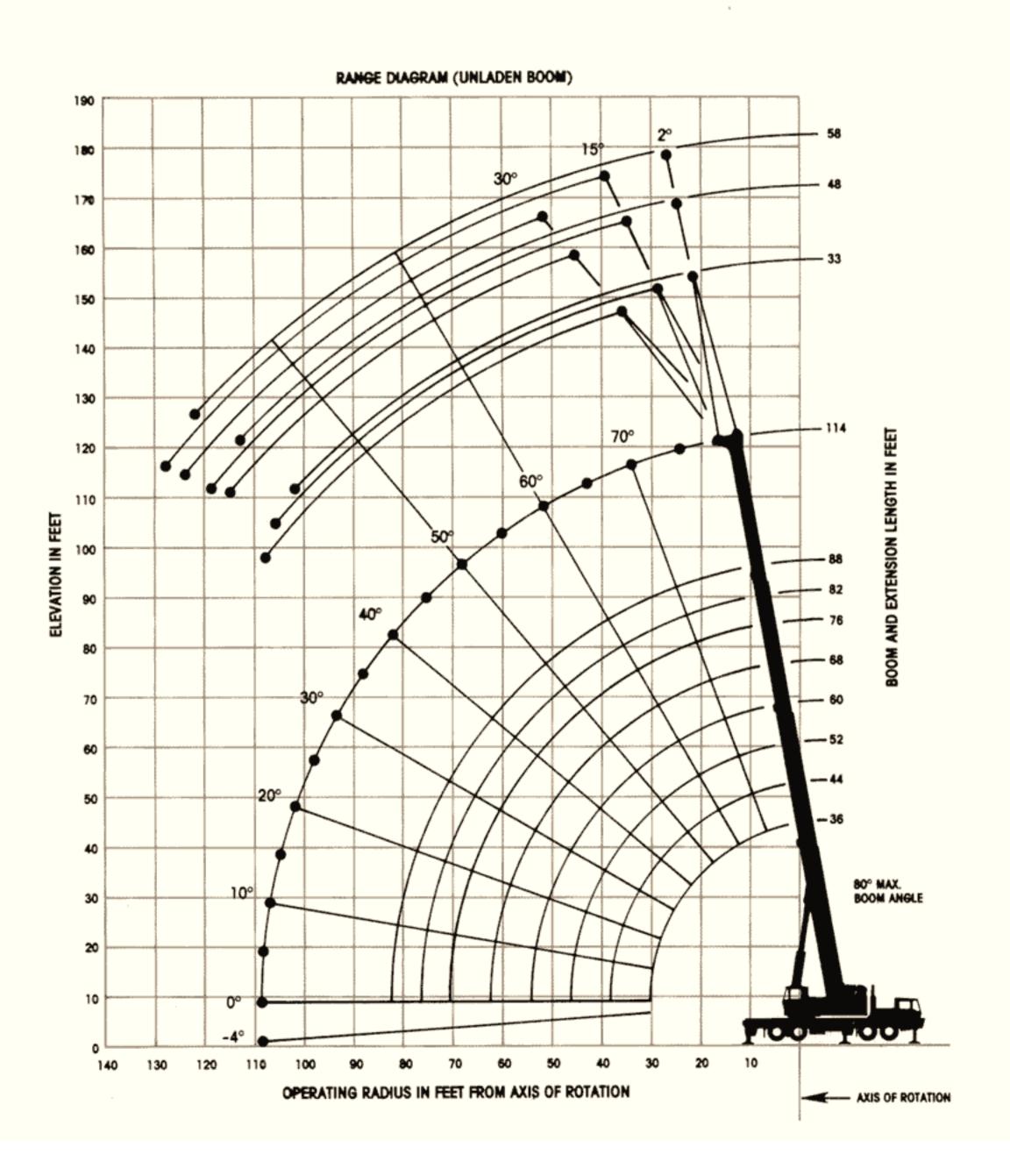
		POUNDS			KILOGRAMS	
	GROSS	FRONT	REAR	GROSS	FRONT	REAR
Basic standard unit including 36-114 ft. (11-34.7m) trapezoidal boom, 33 ft. (10m) offsettable swingaway, Grove model HO30B-26 main hoist with 650 ft. (198m) of 3/4 in. (19mm) diameter rope, fifth outrigger jack, GM6-71T diesel engine, Fuller transmission, 18:00 tires front and 12:00 tires rear and standard counterweight.	100,975	36,380	64,595	45,803	16,502	29,301
SUBSTITUTE						
33-58 ft. (10-17.7m) Telescoping Offsettable Swing- away	+1,024	+882	+142	+464	+400	+64
Cummins NTC300 Engine	+500	+517	-17	+227	+235	8
Caterpillar 3306TA Engine	+50	+52	-2	+23	+24	-1
36-114 ff. (11-34.7m) Full Power Boom	+2,559	+1,459	+1,100	+1,161	+662	+499
ADDITIONS						
Model H030B-16 Auxiliary Hoist with Wire Rope (includes counterweight sub.)	+830	-404	+1,234	+376	-183	+559
Auxiliary Boom Nose	+230	+409	-179	+104	+185	-81
80 Ton Hookblock (stowed)	+1,930	+2,506	-576	+875	+1,137	-262
REMOVE						
10,500 lb. (4763 kg) Counterweight	-10,500	+5,500	-16,000	-4,763	+2,995	-7,258
8,800 lb. (3992 kg) Counterweight - use when equipped with auxiliary hoist	-8,800	+4,630	-13,430	-3,992	+2,100	-6,092
33 ft. (10m) Offsettable Swingaway	-2,679	-2,193	-486	-1,215	-995	-220

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85% Domestic/36 ft.-114 ft. Power Pinned Boom



RATED LIFTING CAPACITIES IN POUNDS POWER PINNED BOOM (ON OUTRIGGERS - 360°)

Radius in Foot		Main Bo	om Lengt	h in Feet (Power Pin	ned Fly Re	etracted)		Power Pin.
in Feet	24	- 44	50	(0)		7.			Fly Ext. 88 ft.
40	36	44	52	60	68	76	82	88	114
10	150,000	106,700	101,600	100,000	96,700				
	(67)	(71.5)	(74.5)	(77)	(79)				
12	123,500	106,700	101,600	96,500	87,850	84,700			
	(63)	(68.5)	(72)	(75)	(77)	(78.5)			
15	105,000	105,000	95,300	84,900	79,200	77,550	70,250	64,500	
	(57.5)	(64)	(68.5)	(72)	(74.5)	(76)	(77.5)	(79)	
20	78,850	78,850	78,850	70,550	64,350	63,800	59,400	55,000	38,750
	(47)	(56.5)	(62.5)	(66.5)	(70)	(72)	(74)	(75.5)	(80)
25	60,000	60,000	60,000	60,000	54,000	49,700	47,150	45,600	34,000
	(34)	(48)	(55.5)	(61)	(65.5)	(67.5)	(70.5)	(72)	(77)
30		46,150	46,150	46,150	46,150	42,750	40,450	39,150	30,300
		(38)	(48.5)	(55.5)	(60.5)	(63.5)	(66.5)	(68.5)	(74.5)
35		33,850	33,850	33,850	33,850	33,850	33,850	33,850	27,250
		(24.5)	(40.5)	(49.5)	(55.5)	(58.5)	(62.5)	(65)	(71.5)
40			25,900	25,900	25,900	25,900	25,900	25,900	24,750
			(30.5)	(42.5)	(50)	(54)	(58.5)	(61.5)	(69)
45			20,300	20,300	20,300	20,300	20,300	20,300	22,650
			(14.5)	(34.5)	(44)	(49)	(54)	(57.5)	(66)
50				16,200	16,200	16,200	16,200	16,200	19,400
				(24)	(37.5)	(43.5)	(49.5)	(53.5)	(63)
60					10,500	10,500	10,500	10,500	13,350
					(17.5)	(30.5)	(39)	(44)	(57)
70							6,740	6,740	9,420
							(24.5)	(33)	(50.5)
80								4,090	6,610
								(14)	(43)
90									4,510
									(34.5)
100									2,890
									(23)
/linimun	n boom o	ngle (deç	g.) for indi	cated len	gth (no lo	ad)		0	0
Maximu	eximum boom length (ft.) at 0 deg. boom angle (no load) 88								

Note: Boom angles are in degrees.

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CAPACITIES FOR 33 FT. - 58 FT. TELE. EXTENSION (ON OUTRIGGERS - 360 $^{\circ}$)

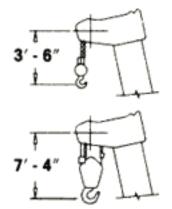
Ref. ft. Ibs. Ref. ft.																			
Rod Cop Rod		33 ff. LENGTH					48 ft. LENGTH				58 ft. LENGTH								
Red Cap Red		2°0	FFSET	15° C	FFSET	30° C	FFSET	2 0	FFSET	15° C	FFSET	30° C	FFSET	2 0	FFSET	15° C	FFSET	30° C	FFSET
80							,	******	,										Cap. Ibs.
75								PO	WER PIN	NED FLY	RETRACT	ED							
70 38.7 21.500 44.8 16.000 50.8 12.000 45.2 14.000 54.2 8.800 62.9 7.000 51.3 11.000 61.5 8.000 71.4 6.00 65 48.4 17.800 54.0 14.000 59.4 11.200 56.0 11.800 64.4 7.800 72.3 6.600 62.9 9.500 72.3 7.200 81.4 5.50 60 57.6 14.200 62.8 11.500 67.4 9.540 66.4 10.300 74.1 7.100 81.0 6.200 74.0 8.600 82.7 6.400 90.7 5.20 55 66.4 9.950 71.1 8.210 75.0 6.940 76.2 8.420 83.2 6.500 89.2 5.130 84.6 7.250 92.4 5.490 99.4 4.2 50 74.7 7.040 78.8 5.860 81.9 5.040 85.5 5.950 91.6 4.620 96.6 3.700 94.6 5.070 101.5 3.850 107.3 2.90 45 82.3 4.940 85.9 4.130 88.2 3.620 94.1 4.150 99.4 3.220 103.3 2.610 103.9 3.470 109.8 2.600 114.4 2.0 POWER PINNED FLY EXTENDED 80 25.5 22.500 31.9 15.150 38.6 10.950 29.9 15.500 39.5 10.000 48.9 7.140 33.2 10.300 44.4 7.780 55.9 5.5 75 37.8 16.700 43.9 11.600 50.1 8.890 43.3 11.250 52.5 7.840 61.4 5.890 47.8 8.840 58.1 6.130 68.9 4.50 70 49.8 13.750 55.6 9.240 61.2 7.400 56.5 8.530 65.3 6.300 73.5 4.950 61.4 6.760 71.5 4.960 81.5 3.8 65 61.5 11.100 66.9 7.560 71.9 6.270 69.2 6.720 77.5 5.190 85.0 4.220 75.0 5.350 84.3 4.100 93.4 3.30 60 72.6 8.970 77.7 6.320 82.0 5.400 81.4 5.440 89.1 4.350 95.8 3.640 87.9 4.340 96.4 3.440 104.6 2.8 60 93.2 3.680 97.3 2.920 100.1 2.450 103.8 3.340 110.2 2.470 115.1 1.880 111.8 2.040 118.5 2.040 124.4 1.4 60 93.2 3.680 97.3 2.920 100.1 2.450 103.8 3.340 110.2 2.470 115.1 1.880 111.8 2.040 118.5 2.040 124.4 1.4 60 124.4 1.4 60 93.2 3.680 97.3 2.920 100.1 2.450 103.8 3.340 110.2 2.470 115.1 1.880 111.8 2.040 118.5 2.040 124.4 1.4 60 93.2 3.680 97.3 2.920 100.1 2.450 103.8 3.340 110.2 2.470 115.1 1.880 111.8 2.040 118.5 2.040 124.4 1.4 60 93.2 3.680 97.3 2.920 100.1 2.450 103.8 3.340 110.2 2.470 115.1 1.880 111.8 2.040 118.5 2.040 124.4 1.4 60 93.2 3.680 97.3 2.920 100.1 2.450 103.8 3.340 110.2 2.470 115.1 1.880 111.8 2.040 118.5 2.040 124.4 1.4 60 93.2 3.680 97.3 2.920 100.1 2.450 103.8 3.340 110.2 2.470 115.1 1.880 111.8 2.040 118.5 2.040 1124.4 1.4 60 93.2 3.680 97.3 2.920 100.1 2.450 103.8 3.340 110.2 2.470 115.1 1.880 111.8 2.040 118.5 2	80	18.6	30,000	25.4	20,000	32.5	15,000	22.5	20,000	32.6	12,000	42.8	10,000	27.0	16,000	38.4	10,000	50.1	7,800
65 48.4 17,800 54.0 14,000 59.4 11,200 56.0 11,800 64.4 7,800 72.3 6,600 62.9 9,500 72.3 7,200 81.4 5,50 60 57.6 14,200 62.8 11,500 67.4 9,540 66.4 10,300 74.1 7,100 81.0 6,200 74.0 8,600 82.7 6,400 90.7 5,20 55 66.4 9,950 71.1 8,210 75.0 6,940 76.2 8,420 83.2 6,500 89.2 5,130 84.6 7,250 92.4 5,490 99.4 4,20 50 74.7 7,040 78.8 5,860 81.9 5,040 85.5 5,950 91.6 4,620 96.6 3,700 94.6 5,070 101.5 3,850 107.3 2,90 45 82.3 4,940 85.9 4,130 88.2 3,620 94.1 4,150 99.4 3,220 103.3 2,610 103.9 3,470 109.8 2,600 114.4 2,00 000 000 000 000 000 000 000 000 00	75	28.8	25,600	35.2	18,000	41.8	13,300	34.0	16,500	43.5	10,000	53.0	8.100	39.3	13,200	50.1	9,000	61.0	6,600
60 57.6 14,200 62.8 11,500 67.4 9,540 66.4 10,300 74.1 7,100 81.0 6,200 74.0 8,600 82.7 6,400 90.7 5,20 55 66.4 9,950 71.1 8,210 75.0 6,940 76.2 8,420 83.2 6,500 89.2 5,130 84.6 7,250 92.4 5,490 99.4 4,20 50 74.7 7,040 78.8 5,860 81.9 5,040 85.5 5,950 91.6 4,620 96.6 3,700 94.6 5,070 101.5 3,850 107.3 2,90 45 82.3 4,940 85.9 4,130 88.2 3,620 94.1 4,150 99.4 3,220 103.3 2,610 103.9 3,470 109.8 2,600 114.4 2,00 200 200 200 200 200 200 200 200 20	70	38.7	21.500	44.8	16,000	50.8	12,000	45.2	14,000	54.2	8,800	62.9	7,000	51.3	11,000	61.5	8,000	71.4	6,000
55 66.4 9,950 71.1 8,210 75.0 6,940 76.2 8,420 83.2 6,500 89.2 5,130 84.6 7,250 92.4 5,490 99.4 4,250 74.7 7,040 78.8 5,860 81.9 5,040 85.5 5,950 91.6 4,620 96.6 3,700 94.6 5,070 101.5 3,850 107.3 2,940 85.9 4,130 88.2 3,620 94.1 4,150 99.4 3,220 103.3 2,610 103.9 3,470 109.8 2,600 114.4 2,050	65	48.4	17,800	54.0	14,000	59.4	11,200	56.0	11,800	64.4	7,800	72.3	6,600	62.9	9,500	72.3	7,200	81.4	5,500
50 74.7 7.040 78.8 5,860 81.9 5,040 85.5 5,950 91.6 4,620 96.6 3,700 94.6 5,070 101.5 3,850 107.3 2,96 45 82.3 4,940 85.9 4,130 88.2 3,620 94.1 4,150 99.4 3,220 103.3 2,610 103.9 3,470 109.8 2,600 114.4 2,040 POWER PINNED FLY EXTENDED 80 25.5 22,500 31.9 15,150 38.6 10,950 29.9 15,500 39.5 10,000 48.9 7,140 33.2 10,300 44.4 7,780 55.9 5,55 75 37.8 16,700 43.9 11,600 50.1 8,890 43.3 11,250 52.5 7,840 61.4 5,890 47.8 8,840 58.1 6,130 68.9 4,56 70 49.8 13,750 55.6 9,240 61.2 7,400 56.5<	60	57.6	14,200	62.8	11,500	67.4	9,540	66.4	10,300	74.1	7,100	81.0	6,200	74.0	8,600	82.7	6,400	90.7	5,200
45 82.3 4,940 85.9 4,130 88.2 3,620 94.1 4,150 99.4 3,220 103.3 2,610 103.9 3,470 109.8 2,600 114.4 2,045	55	66.4	9,950	71.1	8,210	75.0	6,940	76.2	8,420	83.2	6,500	89.2	5,130	84.6	7,250	92.4	5,490	99.4	4,210
POWER PINNED FLY EXTENDED 80 25.5 22.500 31.9 15,150 38.6 10,950 29.9 15,500 39.5 10,000 48.9 7,140 33.2 10,300 44.4 7,780 55.9 5,55 75 37.8 16,700 43.9 11,600 50.1 8,890 43.3 11,250 52.5 7,840 61.4 5,890 47.8 8,840 58.1 6,130 68.9 4,50 70 49.8 13,750 55.6 9,240 61.2 7,400 56.5 8,530 65.3 6,300 73.5 4,950 61.4 6,760 71.5 4,960 81.5 3,81 65 61.5 11,100 66.9 7,560 71.9 6,270 69.2 6,720 77.5 5,190 85.0 4,220 75.0 5,350 84.3 4,100 93.4 3,30 60 72.6 8,970 77.7 6,320 82.0 5,400 81.4	50	74.7	7.040	78.8	5,860	81.9	5,040	85.5	5,950	91.6	4,620	96.6	3,700	94.6	5,070	101.5	3,850	107.3	2,960
80 25.5 22.500 31.9 15,150 38.6 10,950 29.9 15,500 39.5 10,000 48.9 7,140 33.2 10,300 44.4 7,780 55.9 5,50 75 37.8 16,700 43.9 11,600 50.1 8,890 43.3 11,250 52.5 7,840 61.4 5,890 47.8 8,840 58.1 6,130 68.9 4,59 70 49.8 13,750 55.6 9,240 61.2 7,400 56.5 8,530 65.3 6,300 73.5 4,950 61.4 6,760 71.5 4,960 81.5 3,81 65 61.5 11,100 66.9 7,560 71.9 6,270 69.2 6,720 77.5 5,190 85.0 4,220 75.0 5,350 84.3 4,100 93.4 3,36 60 72.6 8,970 77.7 6,320 82.0 5,400 81.4 5,440 89.1 4,350 95.8 3,640 87.9 4,340 96.4 3,440 104.6 2,86 <td>45</td> <td>82.3</td> <td>4,940</td> <td>85.9</td> <td>4,130</td> <td>88.2</td> <td>3,620</td> <td>94.1</td> <td>4,150</td> <td>99.4</td> <td>3,220</td> <td>103.3</td> <td>2,610</td> <td>103.9</td> <td>3,470</td> <td>109.8</td> <td>2,600</td> <td>114.4</td> <td>2,010</td>	45	82.3	4,940	85.9	4,130	88.2	3,620	94.1	4,150	99.4	3,220	103.3	2,610	103.9	3,470	109.8	2,600	114.4	2,010
75 37.8 16,700 43.9 11,600 50.1 8,890 43.3 11,250 52.5 7,840 61.4 5,890 47.8 8,840 58.1 6,130 68.9 4,54 70 49.8 13,750 55.6 9,240 61.2 7,400 56.5 8,530 65.3 6,300 73.5 4,950 61.4 6,760 71.5 4,960 81.5 3,83 65 61.5 11,100 66.9 7,560 71.9 6,270 69.2 6,720 77.5 5,190 85.0 4,220 75.0 5,350 84.3 4,100 93.4 3,36 60 72.6 8,970 77.7 6,320 82.0 5,400 81.4 5,440 89.1 4,350 95.8 3,640 87.9 4,340 96.4 3,440 104.6 2,86 55 83.2 5,870 87.9 4,780 91.4 4,040 93.0 4,500 100.1 3,700 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>PC</td><td>OWER PIN</td><td>NED FLY</td><td>EXTEND</td><td>ED</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								PC	OWER PIN	NED FLY	EXTEND	ED							
70 49.8 13,750 55.6 9,240 61.2 7,400 56.5 8,530 65.3 6,300 73.5 4,950 61.4 6,760 71.5 4,960 81.5 3,83 65 61.5 11,100 66.9 7,560 71.9 6,270 69.2 6,720 77.5 5,190 85.0 4,220 75.0 5,350 84.3 4,100 93.4 3,30 60 72.6 8,970 77.7 6,320 82.0 5,400 81.4 5,440 89.1 4,350 95.8 3,640 87.9 4,340 96.4 3,440 104.6 2,86 55 83.2 5,870 87.9 4,780 91.4 4,040 93.0 4,500 100.1 3,700 105.8 3,060 100.2 3,590 107.9 2,920 114.9 2,44 50 93.2 3,680 97.3 2,920 100.1 2,450 103.8 3,340 110.2 2,470	80	25.5	22,500	31.9	15,150	38.6	10,950	29.9	15,500	39.5	10,000	48.9	7,140	33.2	10,300	44.4	7,780	55.9	5,530
65 61.5 11,100 66.9 7,560 71.9 6,270 69.2 6,720 77.5 5,190 85.0 4,220 75.0 5,350 84.3 4,100 93.4 3,36 60 72.6 8,970 77.7 6,320 82.0 5,400 81.4 5,440 89.1 4,350 95.8 3,640 87.9 4,340 96.4 3,440 104.6 2,86 55 83.2 5,870 87.9 4,780 91.4 4,040 93.0 4,500 100.1 3,700 105.8 3,060 100.2 3,590 107.9 2,920 114.9 2,44 50 93.2 3,680 97.3 2,920 100.1 2,450 110.2 2,470 115.1 1,880 111.8 2,040 118.5 2,040 124.4 1,44	75	37.8	16,700	43.9	11,600	50.1	8,890	43.3	11,250	52.5	7,840	61.4	5,890	47.8	8,840	58.1	6.130	68.9	4,590
60 72.6 8,970 77.7 6,320 82.0 5,400 81.4 5,440 89.1 4,350 95.8 3,640 87.9 4,340 96.4 3,440 104.6 2,86 55 83.2 5,870 87.9 4,780 91.4 4,040 93.0 4,500 100.1 3,700 105.8 3,060 100.2 3,590 107.9 2,920 114.9 2,450 50 93.2 3,680 97.3 2,920 100.1 2,450 103.8 3,340 110.2 2,470 115.1 1,880 111.8 2,040 118.5 2,040 124.4 1,440	70	49.8	13,750	55.6	9,240	61.2	7.400	56.5	8,530	65.3	6,300	73.5	4,950	61.4	6,760	71.5	4,960	81.5	3,870
55 83.2 5,870 87.9 4,780 91.4 4,040 93.0 4,500 100.1 3,700 105.8 3,060 100.2 3,590 107.9 2,920 114.9 2,45 50 93.2 3,680 97.3 2,920 100.1 2,450 103.8 3,340 110.2 2,470 115.1 1,880 111.8 2,040 118.5 2,040 124.4 1,45	65	61.5	11,100	66.9	7,560	71.9	6,270	69.2	6,720	77.5	5,190	85.0	4,220	75.0	5,350	84.3	4,100	93.4	3,300
50 93.2 3,680 97.3 2,920 100.1 2,450 103.8 3,340 110.2 2,470 115.1 1,880 111.8 2,040 118.5 2,040 124.4 1,44	60	72.6	8,970	77.7	6,320	82.0	5,400	81.4	5,440	89.1	4,350	95.8	3,640	87.9	4,340	96.4	3,440	104.6	2,860
	55	83.2	5,870	87.9	4,780	91.4	4,040	93.0	4,500	100.1	3,700	105.8	3,060	100.2	3,590	107.9	2,920	114.9	2,450
45 4004 0000 4044 4540 4004 4040 4000 4404 4000	50	93.2	3,680	97.3	2,920	100.1	2,450	103.8	3,340	110.2	2,470	115.1	1,880	111.8	2,040	118.5	2,040	124.4	1,410
45 102.4 2,080 106.1 1,540 108.1 1,260 113.9 2,020 119.6 1,390 122.5 1,610 128.1 1,040	45	102.4	2,080	106.1	1,540	108.1	1,260	113.9	2,020	119.6	1,390			122.5	1,610	128.1	1,040	:.	

A6-829-008421 & -008460

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

Main	2° O	FFSET	15° C	FFSET	30° O	FFSET	
Boom Angle (Deg.)	Rad. Ref. ft.	Cap. Ibs.	Rad. Ref. ft.	Cap. Ibs.	Rad. Ref. ft.	Cap. lbs.	
	POWER PINNED FLY RETRACTED						
80	18.6	30,000	25.4	20,500	32.5	15,500	
75	28.8	26,100	35.2	18,500	41.8	13,800	
70	38.7	22,000	44.8	16,500	50.8	12,500	
65	48.4	18,300	54.0	14,500	59.4	11.700	
60	57.6	14,850	62.8	12,200	67.4	10,150	
55	66.4	10,650	71.1	8,890	75.0	7,600	
50	74.7	7,750	78.8	6,550	81.9	5,720	
45	82.3	5,660	85.9	4,820	88.2	4,310	
		POWER I	PINNED FLY	EXTENDED			
80	25.5	23,000	31.9	15,650	38.6	11,450	
75	37.8	17,200	43.9	12,100	50.1	9,390	
70	49.8	14,250	55.6	9,740	61.2	7,900	
65	61.5	11,600	66.9	8,060	71.9	6,770	
60	72.6	9,600	77.7	6,820	82.0	5,900	
55	83.2	6,610	87.9	5,500	91.4	4,740	
50	93.2	4,430	97.3	3,650	100.1	3,170	
45	102.4	2,830	106.1	2,280	108.1	1,990	

A6-829-008477 & -008484



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

WEIGHT REDUCTIONS FOR LOAD HANDLING DEVICES

33 FT. EXTENSION WITH 36 FT114 FT. BOOM						
†Stowed - 673 lbs. †Erected - 6,243 lbs.						
33 FT58 FT. TELE. EXTENSION WITH 36 FT114 FT. BOOM						
†Stowed - 926 lbs.						
†Erected (ret.) -	9,322 lbs.					
†Erected (ext.) -	12,860 lbs.					

†Reduction of main boom capacities.

HOOKBLOCKS:	
15 Ton, 1 Sheave	650 lbs.
80 Ton, 6 Sheave	1,930 lbs.
Auxiliary Boom Head	230 lbs.
10 Ton Headache Ball	560 lbs.
7 1/2 Ton Headache Ball	338 lbs.

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 no exceed 85% of the tipping load on outriggers (75% of the tipping load on rubber) as determined by SAE J765 OCT80 Crane Stability Test Code.
- This chart is intended as a guide only. The individual crane's load chart operating instructions and other instruction plates give details of the conditions under which the crane may be operated. ALL OF THESE INSTRUCTIONS MUST BE READ AND UNDERSTOOD PRIOR TO OPERATING THE CRANE.
- 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 fires to spread the load to a larger bearing surface.
- G. 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.
- Tires shall be inflated to the recommended pressure before lifting on rubber.
- 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 shown may include optional 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

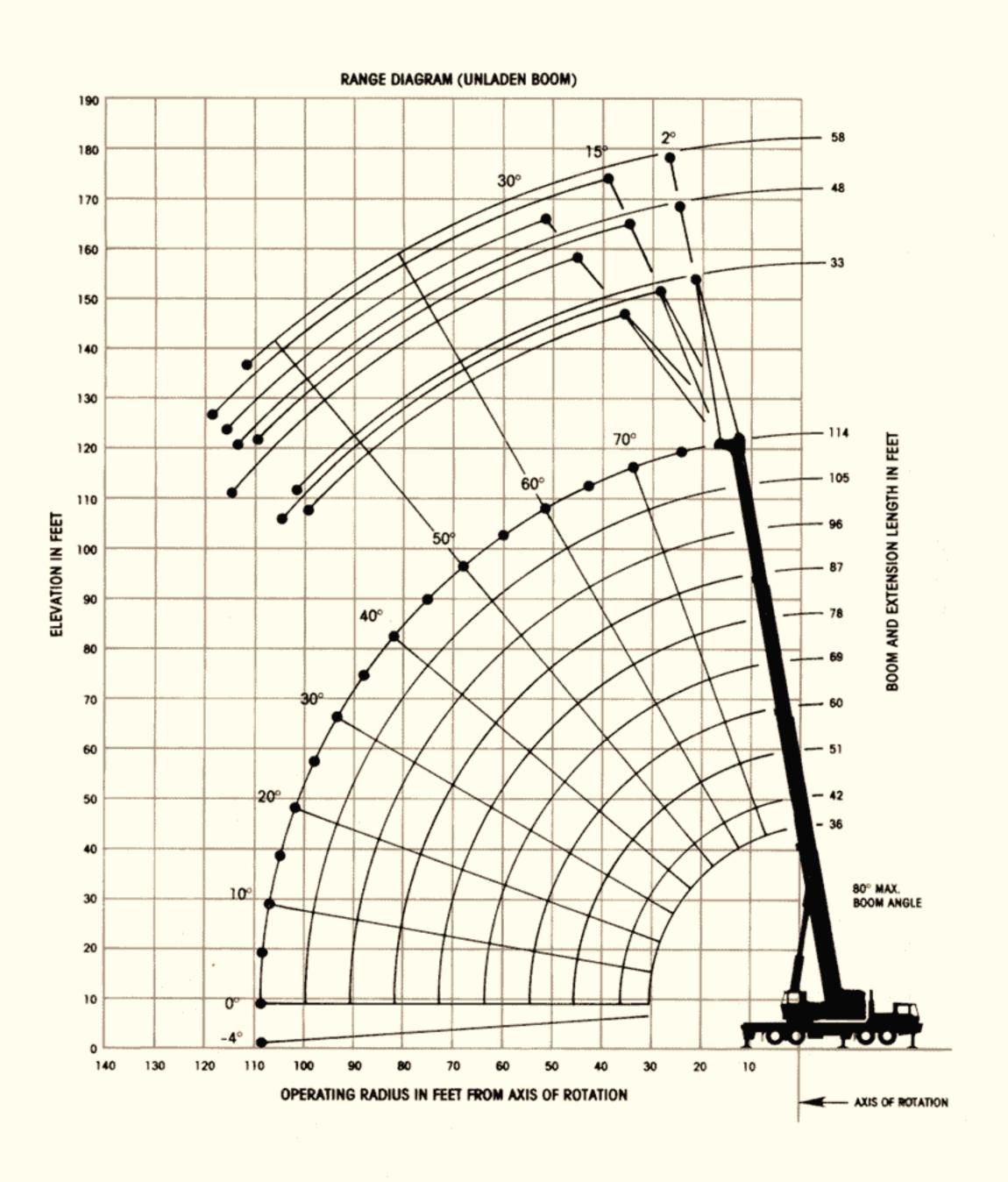
Telford Rd. = Bicester = Oxfordshire OX6 OTZ (0869) 246800 = telex: 837447 = fax: 0869-246965

FORM NO.: LCTMS875P.P. DATE: 289-10M PRINTED IN II S A





85% Domestic/36 ft.-114 ft. Full Power Boom



RATED LIFTING CAPACITIES IN POUNDS FULL POWER BOOM (ON OUTRIGGERS - 360°)

Radius				Mai	n Boom L	ength in f	eet			
in Feet	36	42	51	60	69	78	87	96	105	114
10	150,000	106,700	101,600	100,000	96,700					
	(67)	(70.5)	(74)	(77)	(79)					
12	123,500	106,700	101,600	96,500	87,850	84,700				
	(63)	(67.5)	(71.5)	(75)	(77)	(79)				
15	105,000	105,000	95,300	84,900	79,200	77,550	64,500			
	(57.5)	(63)	(68)	(72)	(74.5)	(77)	(79)		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
20	78,850	78,850	78,850	70,550	64,350	63,800	55,000	51,900	48,450	38,750
	(47)	(54.5)	(61.5)	(66.5)	(70)	(73)	(75.5)	(77)	(78.5)	(80)
25	60,000	60,000	60,000	60,000	54,000	49,700	45,600	43,600	41,300	34,000
	(34)	(45.5)	(55)	(61)	(65.5)	(69)	(72)	(74)	(76)	(77)
30		46,750	46,750	46,750	46,650	42,750	39,150	38,400	35,350	30,300
		(34)	(47.5)	(55.5)	(61)	(65)	(68.5)	(71)	(73)	(74.5)
35		34,950	34,950	34,950	34,950	34,950	34,050	32,700	30,700	27,250
		(16.5)	(39)	(49.5)	(56)	(61)	(64.5)	(67.5)	(70)	(72)
40			26,850	26,850	26,850	26,850	26,850	26,850	26,850	24,750
			(28.5)	(42.5)	(50.5)	(56.5)	(61)	(64.5)	(67)	(69)
45				21,200	21,200	21,200	21,200	21,200	21,200	21,200
				(34.5)	(45)	(51.5)	(57)	(61)	(64)	(66.5)
50				17,050	17,050	17,050	17,050	17,050	17,050	17,050
				(24)	(38.5)	(46.5)	(52.5)	(57.5)	(61)	(63.5)
60					11,300	11,300	11,300	11,300	11,300	11,300
					(20)	(35)	(43.5)	(49.5)	(54)	(57.5)
70							7,560	7,560	7,560	7,560
							(32)	(40.5)	(46.5)	(51)
80							4,900	4,900	4,900	4,900
							(12.5)	(29.5)	(38)	(44)
90								2,920	2,920	2,920
								(7)	(27)	(35.5)
100									. 3	1,380
										(24.5)
Minimum	boom a	ngle (deg	.) for indic	ated leng	gth (no lo	ad)				10
Maximun	laximum boom length (ft.) at 0 deg. boom angle (no load)									94

Note: Boom angles are in degrees.

A6-829-008823

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

Main			33 ft. L	ENGTH					48 ft. L	ENGTH					58 ft. L	ENGTH		
Boom Angle	2° O	FFSET	15° C	FFSET	30° C	FFSET	2° O	FFSET	15° C	FFSET	30° C	FFSET	2° 0	FFSET	15° O	FFSET	30° C	FFSET
(Deg.)	Rad. Ref. ft.	Cap. Ibs.	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.	Cap. Ibs.	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.	Cap. Ibs.	Rad. Ref. ft.	Cap. Ibs.	Rad. Ref. ft	Cap. Ibs
80	27.0	22,500	32.9	15,150	39.2	10,950	30.2	15,500	39.8	10,000	50.5	7,140	33.1	10,300	47.0	7,780	58.7	5,530
75	39.2	16.700	44.8	11,600	50.6	8.890	43.7	11,250	52.8	7.840	62.8	5,890	47.5	8,840	60.5	6,130	71.4	4,590
70	51.0	13,750	56.2	9,240	61.6	7,400	56.8	8,530	65.5	6,300	74.6	4,950	61.5	6,760	73.5	4,960	83.6	3,870
65	62.5	11,100	67.3	7,560	72.1	6,270	69.6	6,720	77.6	5,190	85.9	4,220	75.1	5,350	86.0	4.100	95.2	3,300
60	73.5	7,970	77.8	6,320	82.0	5,400	81.8	5,440	89.2	4,350	96.5	3,640	88.1	4,340	97.8	3,440	106.0	2,860
55	83.9	5,120	87.7	4,280	91.3	3,550	93.4	4,360	100.0	3,220	106.3	2,290	100.5	3,590	108.9	2,510	116.0	1,540
50	93.7	3,100	96.9	2,540	99.9	2,060	104.2	2,590	110.1	1,790	115.3	1,160	112.1	2,050	119.1	1,160		
45	102.8	1,620	105.4	1,240			114.3	1,280										

A6-829-008410A

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 no exceed 85% of the tipping load on outriggers (75% of the tipping load on rubber) as determined by SAE J765 OCT80 Crane Stability Test Code.
- This chart is intended as a guide only. The individual crane's load chart operating instructions and other instruction plates give details of the conditions under which the crane may be operated. ALL OF THESE INSTRUCTIONS MUST BE READ AND UNDERSTOOD PRIOR TO OPERATING THE CRANE.
- 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.
- Tires shall be inflated to the recommended pressure before lifting on rubber.
- 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 shown may include optional equipment and accessories and may not include all standard equipment.

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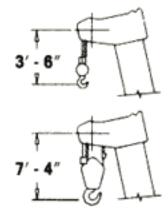
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CAPACITIES FOR 33 FT. FIXED LENGTH EXTENSION (ON OUTRIGGERS - 360°)

		, , , , , , ,	INIOUEN		/			
Main	2° 0	FFSET	15° C	FFSET	30° OFFSET			
Angle (Deg.)	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.	Cap. lbs.		
80	27.0	23,000	32.9	15,650	39.2	11,450		
75	39.2	17,200	44.8	12,100	50.6	9.390		
70	51.0	14,250	56.2	9,740	61.6	7,900		
65	62.5	11,600	67.3	8.060	72.1	6,770		
60	73.5	8,700	77.8	6,820	82.0	5,900		
55	83.9	5,860	87.7	4,990	91.3	4,250		
50	93.7	3,840	96.9	3,260	99.9	2,770		
45	102.8	2,360	105.4	1,970	107.7	1,660		

A6-829-008492A



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

WEIGHT REDUCTIONS FOR LOAD HANDLING DEVICES

33 FT. EXTENSION WITH 36 FT114 FT. BOOM						
†Stowed - 673 lbs. †Erected - 6,243 lbs.						
33 FT58 FT. TEL WITH 36 FT11						
+Stowed -	926 lbs.					
†Erected (ret.) - †Erected (ext.) -	9,322 lbs. 12,860 lbs.					

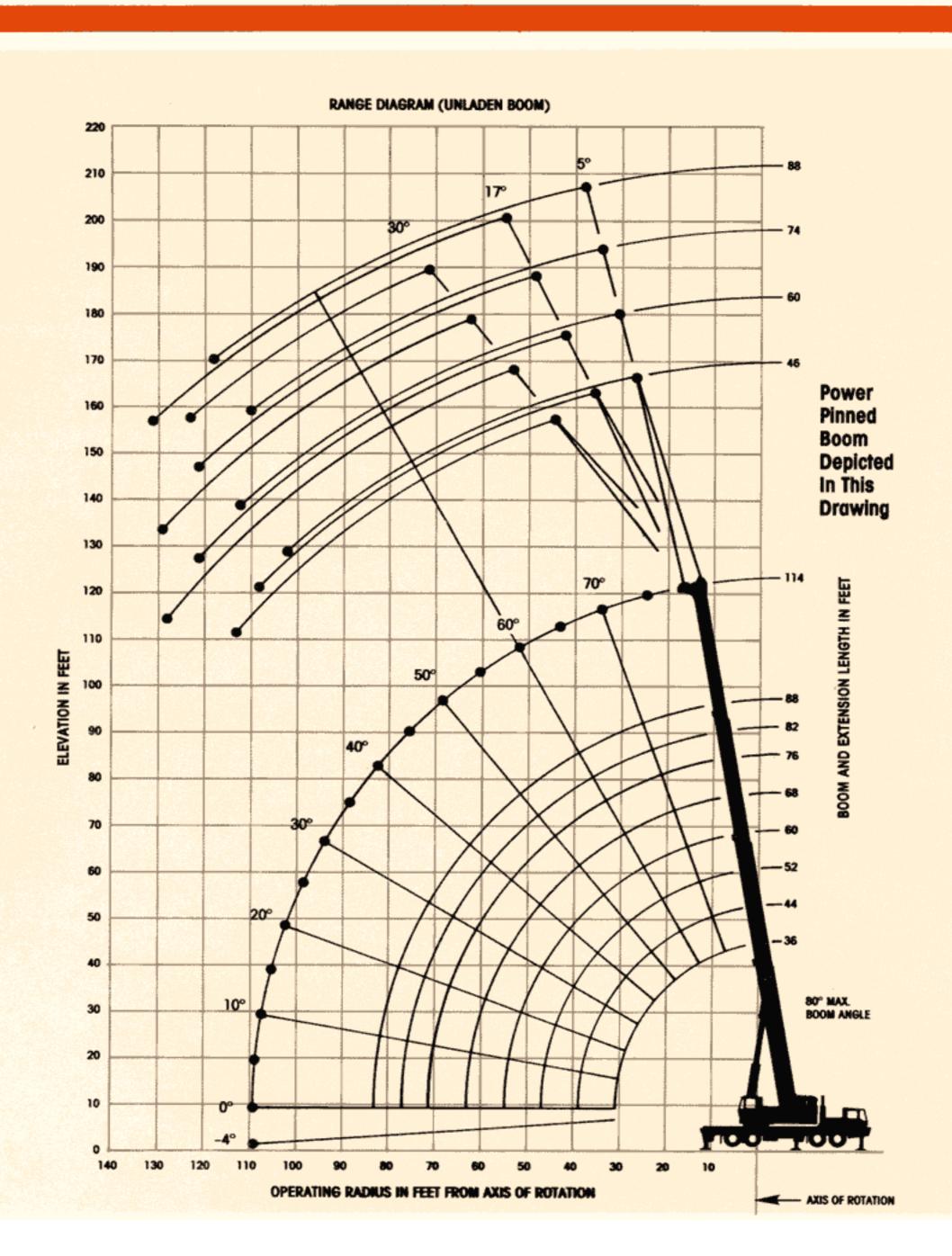
+Reduction of main boom capacities.

HOOKBLOCKS:	
15 Ton, 1 Sheave	650 lbs.
80 Ton, 6 Sheave	1,930 lbs.
Auxiliary Boom Head	230 lbs.
10 Ton Headache Ball	560 lbs.
7 1/2 Ton Headache Ball	338 lbs.





85% Domestic/36 ft.-114 ft. Full Power & Power Pinned Boom







85% Domestic/36 ft.-114 ft. Full Power & Power Pinned Boom

88 FT. FIXED OFFSET JIBS ON OUTRIGGERS - 360° WITH COUNTERWEIGHT

A6-829-004679B

Main	46 ff. JiB							60 ft. JiB						
Boom	5" OFFSET		17" OFFSET		30° C	FFSET	5° OFFSET		17" OFFSET		30° OFFSET			
Angle (Deg.)	Rad. Ref. ft.*	Cap.	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ff.	Cap.	Rad. Ref. ft.	Cap. Ibs.	Rad. Ref. ff.	Cap. lbs.	Rad. Ref. ft.	Cap. lbs.		
80	32.0	14,000	41.0	11,950	49.0	8,480	36.3	10,600	48.2	8,160	58.0	5,680		
77.5	38.4	13,350	47.2	11,550	55.2	8,080	43.3	9,970	54.5	7,790	64.7	5,320		
75	44.9	12,800	53.2	11,150	61.2	7,690	50.3	9,490	60.9	7,450	71.3	5,020		
72.5	51.2	12,250	59.6	10,300	67.2	7,350	57.2	8,930	67.5	7,130	77.8	4,760		
70	57.5	9,930	65.4	8,390	72.9	7,020	63.9	8,380	74.1	6,830	84.2	4,540		
67.5	63.7	7,970	71.4	6,870	78.6	6,100	70.6	6,710	80.6	5,610	90.3	4,340		
65	69.7	6,450	77.2	5,640	84.1	5,080	77.1	5,380	86.8	4,580	96.3	4,030		
62.5	75.6	5,240	82.8	4,640	89.5	4,220	83.4	4,320	92.7	3,730	102.1	3,310		
60	81.3	4,250	88.2	3,800	94.7	3,490	89.6	3,460	98.6	3,010	107.8	2,700		
55	92.4	2,750	99.0	2,490	104.4	2,320	101.4	2,130	110.0	1,870	118.3	1,700		
50	102.7	1,660	108.2	1,520	113.4	1,420	112.5	1,160	121.9	1,010	128.1	920		

Main			74 ft	. JiB		88 ff. JIB						
Boom	5° OFFSET		17° OFFSET		30° OFFSET		5° OFFSET		17° OFFSET		30° OFFSET	
Angle (Deg.)	Rad. Ref. ft.	Cap.	Rad. Ref. ft.	Cap. Ibs.	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.*	Cap.	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.	Cap. lbs.
80	39.8	8,160	53.7	5,840	67.2	4,140	44.2	6,310	59.4	4,050	76.7	2,510
77.5	47.5	7,620	60.8	5,480	74.2	3,860	52.2	5,750	67.2	3,690	83.9	2,290
75	55.1	7,090	67.8	5,150	81.2	3,600	60.2	5,250	75.2	3,380	91.1	2,090
72.5	62.6	6,620	75.6	4,850	87.9	3,390	68.1	4,790	83.5	3,100	98.0	1,920
70	69.9	6,200	82.5	4,570	94.5	3,190	75.8	4,370	90.6	2,820	104.8	1,750
67.5	77.2	5,670	89.5	4,320	100.8	3,020	83.4	3,990	97.7	2.570	114.3	1,610
65	84.2	4,500	95.8	3,730	107.1	2,870	90.9	3,660	105.0	2,340	117.7	1,480
62.5	91.2	3,560	102.5	2,970	113.0	2,590	98.2	2,970	111.4	2,100	123.8	1,360
60	97.9	2,790	109.2	2,340	118.8	2,050	105.2	2,260	118.2	1,840	1909/34	
55	110.9	1,590	121.3	1,340	129.7	1,170	118.8	1,170	131.0	940		

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

- Rated load is based on loaded main boom angle with reference to horizontal, regardless of main boom length. (Ref. radius in feet is for fully extended boom 114 ft.). The LMI system will give an accurate radius indication for this condition only.
- WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with every jib occurs rapidly and without advance warning.
- 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 55° since loss of stability will occur causing a tipping condition.
- 5. JIB ERECTION NOTES:
 - A. Maximum length of main boom including extended fly for purpose of erecting jib below 30° main boom angle is:

46 ft. Jib - 95 ft.

60 ft. Jib - 86 ft.

74 ft. Jib - 77 ft.

88 ft. Jib - 68 ft.

- WARNING: Do not attempt to erect jibs over front of machine, unless boom is fully retracted (fly extended).
- 6. Capacities listed are with fully extended outriggers only.

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 no exceed 85% of the tipping load on outriggers (75% of the tipping load on rubber) as determined by SAE J765 OCT80 Crane Stability Test Code.
- This chart is intended as a guide only. The individual crane's load chart
 operating instructions and other instruction plates give details of the
 conditions under which the crane may be operated. ALL OF THESE
 INSTRUCTIONS MUST BE READ AND UNDERSTOOD PRIOR TO OPERATING THE
 CRANE.
- 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.
- free of ground before raising the boom or lifting loads.

 8. Tires shall be inflated to the recommended pressure before lifting on rubber.

For outrigger operation, ALL outriggers shall be fully extended with tires raised

Unless otherwise stated, capacities are with powered boom sections equally extended.

WEIGHT REDUCTIONS FOR LOAD HANDLING DEVICES

†46 ft. Jib Erected			12,060 lbs.
†60 ft. Jib Erected			18,015 lbs.
†74 ft. Jib Erected			25,077 lbs.
†88 ff. Jib Erected			33,236 lbs.
†33 ft. Stowed			673 lbs.
†33-58 ft. Stowed			926 lbs.

†Reduction of main boom capacities.

HOOKBLOCKS:	
15 Ton, 1 Sheave	650 lbs.
80 Ton, 6 Sheave	1,930 lbs.
Auxiliary Boom Head	230 fbs.
10 Ton Headache Ball	560 lbs.
7 1/2 Ton Headache Ball	338 lbs.

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 optional 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

Telford Rd. • Bicester • Oxfordshire OX6 OTZ

(0869) 246800 = telex: 837447 = fax: 0869-246965

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[&]quot;Capacities at loaded main boom angle.

All capacities above the bold line are based on structural strength of iib.