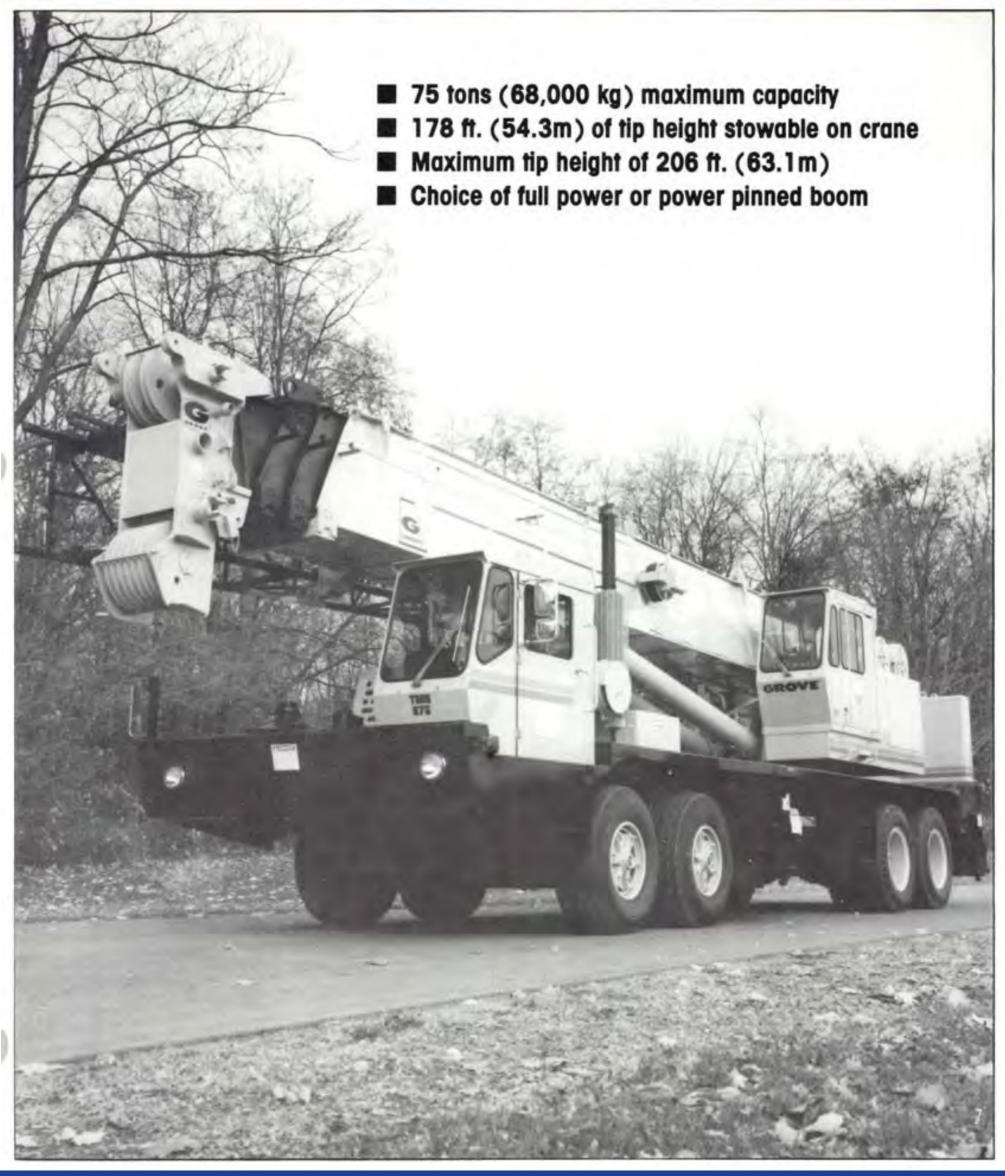
Tel: (888) 337-BIGGE or (510) 638-8100 Web: www.bigge.com



TMS875

Carrier-mounted hydraulic crane



Bigge

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.
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.
Outrigger Controls	Located in 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 controls.
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.
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.
Fuel Tank Capacity	(1) 100 gallons (379 L)
Electrical System	Four 12 volt - maintenance free batteries, 24 volt starting.
Drive	8 x 4
Steering	Front axle steering, worm and roller type with hydraulic assist.
Transmission	Roadranger gearbox with 9 speeds forward and 2 reverse, with 2 speed auxiliary transmission.
Optional Transmission	Automatic, with 5 speeds forward, 1 reverse, with 2 speed auxiliary transmission.
Axies	Axles 1 & 2, steering, tubular steel, 100 in. track. Axles 3 & 4, single reduction drive, 100 in. track with inter-axle differential lock.
Suspension	Front axles (1 & 2) spring mounted tandem. Rear axles (3 & 4) solid mount tandem with equalizing beam.
Tires	Front: 18:00x22.5-18PR highway tread, tubeless. Rear: 12:00x24-16PR highway tread, tube type.

Optional Tires	Front:	14:00x20-22PR Michelin radial, tube type.					
	Rear:	14.00x20-22PR Michelin radial tube type.					
Brakes	clude mo	n all wheels. Air dryer provided to pre- sisture accumulation. Spring set emer- ake on both rear axles with emergency					
Lights	-	ng including head, tail, braking, g, directional and hazard warning					
Cab	acoustica througho ble seat. instrume ometer, v level, air Other sta defroster,	design, all steel fabricated with all lining and tinted safety glass ut. Deluxe fabric covered fully adjusta-Complete driving controls and engine ntation including tachometer, speed of the collimeter, water temp. oil pressure, fuel pressure gauge with A/V warning. Indard items include hot water heater, electric windshield wash/wipe, fire her, seat belt and door and window					
Maximum Speed	47.8 MP	H (76.9 kph)					
Gross Vehicle Weight & Axle Loads	BASIC ST Front Tan Rear Tan G.V.W.:						
Miscellaneous Standard Equipment		view mirrors, hookblock tiedown sling, back-up alarm, light package.					
Optional Equipment	pressure/ warning.	Immersion engine block heater, engine low oil pressure/high water temperature, audio visua warning. Jacobs engine brake, back-up alarm tire inflation kit.					

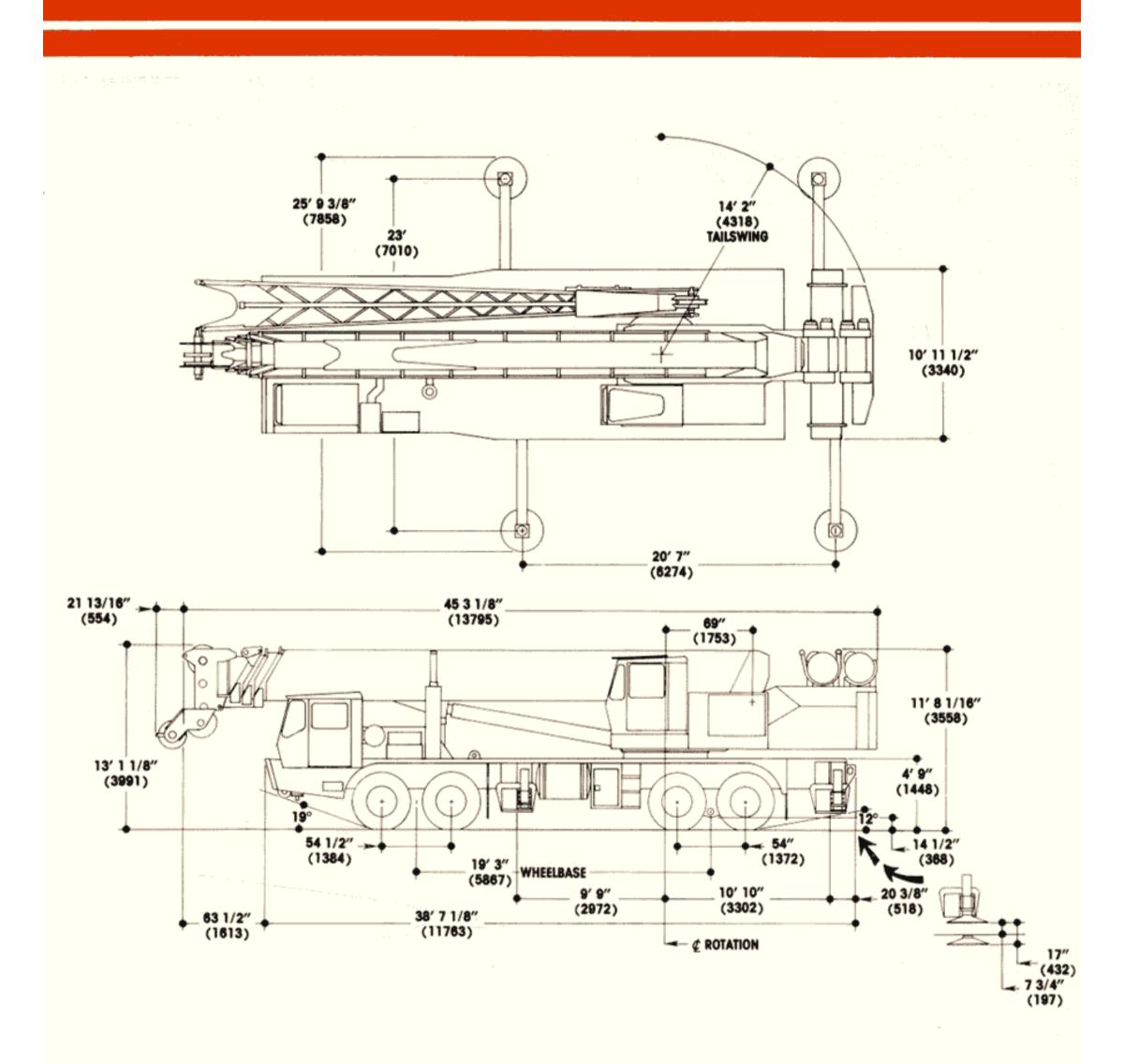
†Patented Grove feature or patent pending. *Denotes optional equipment.

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	Two eng Cor	o tandem main gear pun gine through PTO with m mbined capacity 178 GF	anual disconnect. PM (674 LPM).
Swingaway Extension	33 ft. (10.1m) lattice swingaway boom extension stows alongside base boom section when	Valves	4 i	cision four way double on ndividual valve banks pentrol of multiple crane fur	rmit simultaneous
.0-4	not in use, offsettable at 2°, 15° or 30°. Maximum tip height: 155 ft. (47.2m).	Filter	tion	ction line type, full flow v	ator, replaceable
*Optional Telescopic Swingaway	33 ft. to 58 ft. (17.7m) telescopic lattice 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	26 ter,	tridge, 7/17/22 micron 0 gallons (984 L) with s external sight gauge, class up mounted to frame.	spin-on breather fil-
Optional Jib	46 ft. (14m), 60 ft. (18.3m) 74 ft. (22.6m)	Oil Cooler	Ful	I flow, fin and tube, oil to	o air.
Extension	and 88 ft. (26.8m) fixed offset jib. Maximum tip height: 206 ft. (62.8m).	HOIST SPEC	Ser	ies 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.		and wit	th high line pull and speed d down, equal speed, plo th integral automatic bral est drum rotation indicato	anetary reduction ke and electronic
Boom Elevation	Two double acting hydraulic cylinders with integral holding valve provides elevation from -4° to 80°.	Make/Mode	ı	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	Intermediate layer Top layer	(138m/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	Intermediate 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	ath Factor	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°	Maximum rope stowage	•	Auxilian 650 ft. of 3/4 in. (198m of 19	. dia. rope
	position positive turntable lock. Combination controls provided for hand or foot operation. Swing speed 1.8 RPM.			†Patented Grove feature *Denotes optional equip	
Counterweight	Fixed position pinned to turntable. *Power installation and removal system is available. Weight varies depending on hoist configuration.				

Weight varies depending on hoist configuration.

Dimensions TMS875



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 optional equipment and accessories and may not include all standard equipment.

North and South America, Far East, Australasia

GROVE MANUFACTURING COMPANY

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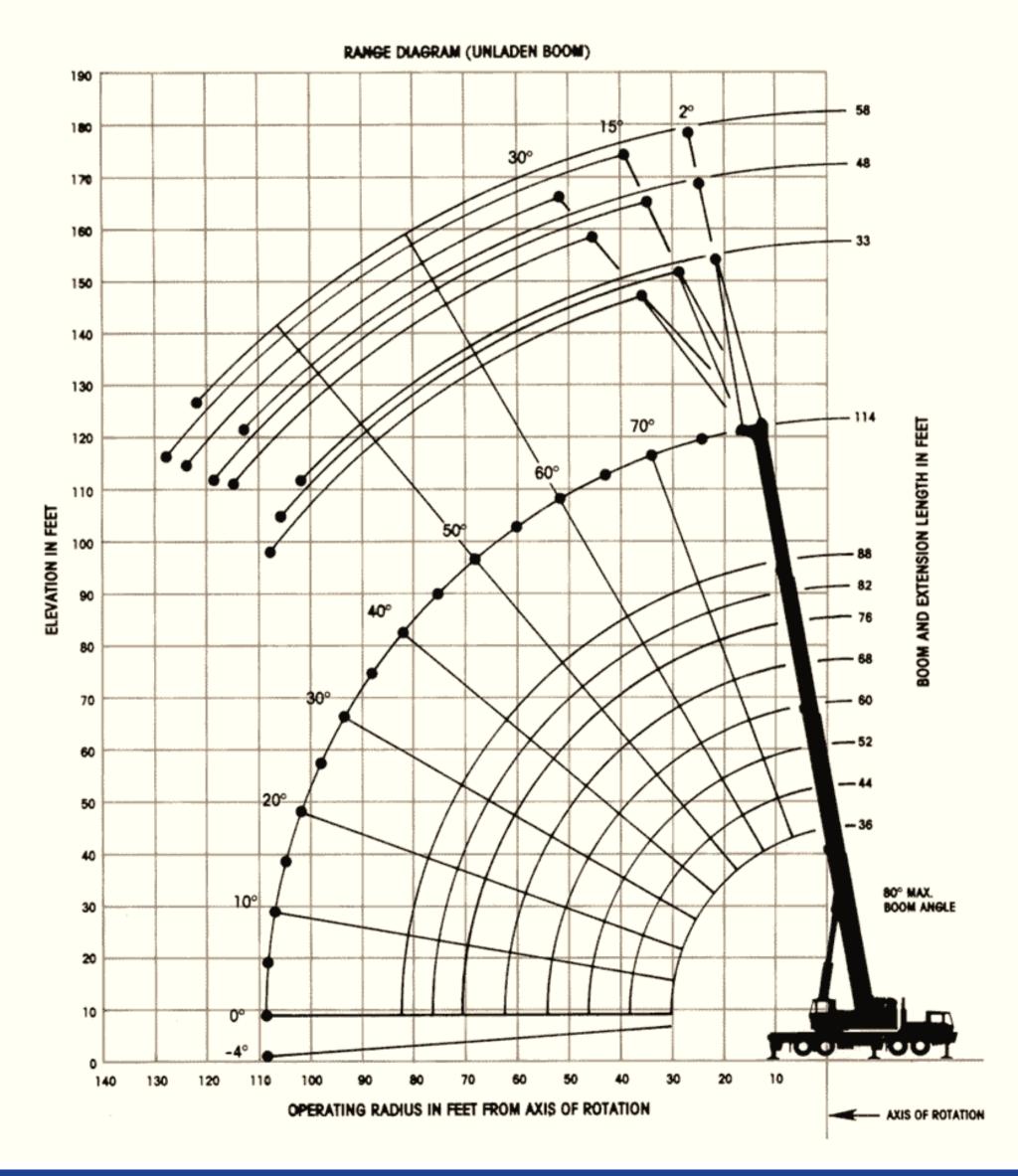
AXLE WEIGHT DISTRIBUTION CHART

		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 H030B-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 ft. (11-34.7m) Full Power Boom	+2,559	+1,459	+1,100	+1,161	+662	+499
ADDITIONS						
Model HO30B-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



BİGGE

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

Radius in Feet		Main Bo	om Lengti	h in Feet (Power Pin	ned Fly Re	etracted)		Power Pin Fly Ext. 88 t
	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 a	ingle (dec) for indi	cated len	gth (no lo	ad)		0	0
/laximu	m boom I	ength (ft.)	at 0 deg	boom ar	ngle (no l	oad)		88	114

Note: Boom angles are in degrees.

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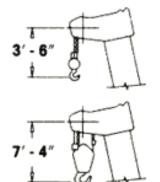
CAPACITIES FOR 33 FT. - 58 FT. TELE. EXTENSION (ON OUTRIGGERS - 360°)

		ENGTH	58 ft. Li					ENGTH	48 ft. L					ENGTH	33 ft. L			Main
FFSET	30° C	FFSET	15° O	FFSET	2° OF	FFSET	30° O	FFSET	15° C	FFSET	2° O	FFSET	30° O	FFSET	15° C	FFSET	2° O	Boom Angle
Cap lbs.	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.	Cap. Ibs.	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.	Cap. Ibs.	Rad. Ref. ft.	Cap. Ibs.	Rad. Ref. ft.	Cap. Ibs.	Rad. Ref. ft.	(Deg.)
							ED	RETRACT	NED FLY	WER PIN	PO							
7,80	50.1	10,000	38.4	16,000	27.0	10,000	42.8	12,000	32.6	20,000	22.5	15,000	32.5	20,000	25.4	30,000	18.6	80
6,60	61.0	9,000	50.1	13,200	39.3	8.100	53.0	10,000	43.5	16,500	34.0	13,300	41.8	18,000	35.2	25,600	28.8	75
6,00	71.4	8,000	61.5	11,000	51.3	7,000	62.9	8,800	54.2	14,000	45.2	12,000	50.8	16,000	44.8	21,500	38.7	70
5,50	81.4	7,200	72.3	9,500	62.9	6,600	72.3	7,800	64.4	11,800	56.0	11,200	59.4	14,000	54.0	17,800	48.4	65
5,20	90.7	6,400	82.7	8,600	74.0	6,200	81.0	7,100	74.1	10,300	66.4	9,540	67.4	11,500	62.8	14,200	57.6	60
4,21	99.4	5,490	92.4	7,250	84.6	5,130	89.2	6,500	83.2	8,420	76.2	6,940	75.0	8,210	71.1	9,950	66.4	55
2,96	107.3	3,850	101.5	5,070	94.6	3,700	96.6	4,620	91.6	5,950	85.5	5,040	81.9	5,860	78.8	7.040	74.7	50
2,01	114.4	2,600	109.8	3,470	103.9	2,610	103.3	3,220	99.4	4,150	94.1	3,620	88.2	4,130	85.9	4,940	82.3	45
							D	EXTENDE	NED FLY	OWER PIN	PC							
5,53	55.9	7,780	44.4	10,300	33.2	7,140	48.9	10,000	39.5	15,500	29.9	10,950	38.6	15,150	31.9	22,500	25.5	80
4,59	68.9	6.130	58.1	8,840	47.8	5,890	61.4	7,840	52.5	11,250	43.3	8,890	50.1	11,600	43.9	16,700	37.8	75
3,87	81.5	4,960	71.5	6,760	61.4	4,950	73.5	6,300	65.3	8,530	56.5	7.400	61.2	9,240	55.6	13,750	49.8	70
3,30	93.4	4,100	84.3	5,350	75.0	4,220	85.0	5,190	77.5	6,720	69.2	6,270	71.9	7,560	66.9	11,100	61.5	65
2,86	104.6	3,440	96.4	4,340	87.9	3,640	95.8	4.350	89.1	5,440	81.4	5,400	82.0	6,320	77.7	8,970	72.6	60
2,45	114.9	2,920	107.9	3,590	100.2	3,060	105.8	3,700	100.1	4,500	93.0	4,040	91.4	4,780	87.9	5,870	83.2	55
1,41	124.4	2,040	118.5	2,040	111.8	1,880	115.1	2.470	110.2	3,340	103.8	2,450	100.1	2.920	97.3	3,680	93.2	50
A .		1,040	128.1	1,610	122.5			1,390	119.6	2,020	113.9	1,260	108.1	1,540	106.1	2,080	102.4	45

Capacities for 33 ft. - 58 ft. tele. Extension (ON OUTRIGGERS - 360°)

		•				
Main	2* 0	FFSET	15° C	FFSET	30° O	FFSET
Angle (Deg.)	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.	Cap. Ibs.	Rad. Ref. ft.	Cap. lbs.
		POWER P	INNED 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** OOK BLOCK AND HEADACHE BALL, OWT-TINA HTTN

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 - †Erected (ret.) - †Erected (ext.) -	926 lbs. 9,322 lbs. 12,860 lbs.							

†Reduction of main boom capacities.

I	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.
į	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.
- 2. 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.
- 3. 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.
- 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.
- 8. Tires shall be inflated to the recommended pressure before lifting on
- 9. 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

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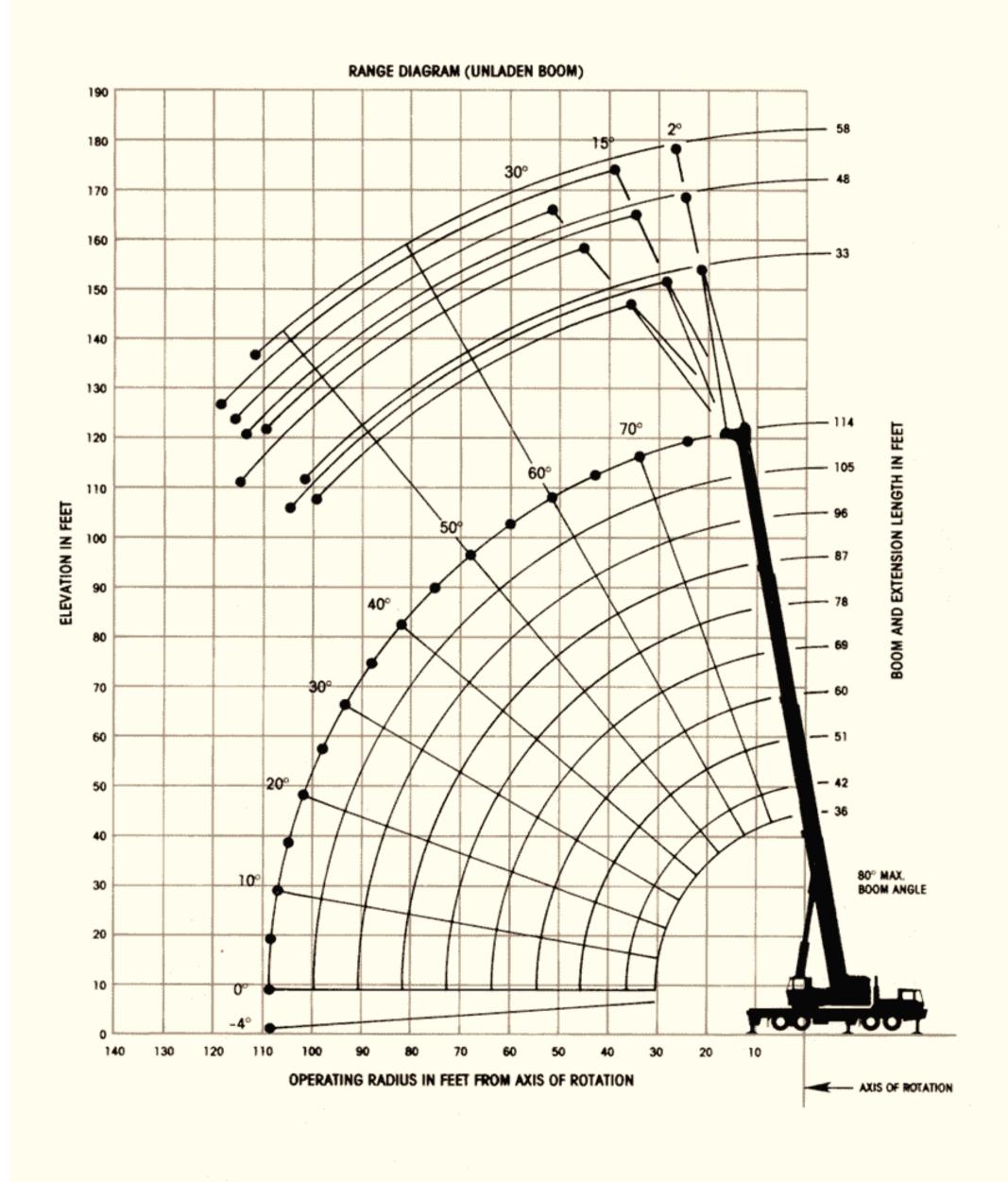
FORM NO.: LCTMS875P.P. DATE: 289-10M PRINTED IN 11 S A

BİGGE



VIS875

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					Table 1
	(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	i iya		
	(57.5)	(63)	(68)	(72)	(74.5)	(77)	(79)		18 May 18 18	
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
		<u> </u>					(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	cated leng	gth (no lo	ad)				10
Maximur	n boom le	ength (ft.)	at 0 deg.	boom an	gle (no lo	oad)				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° O	FFSET	30° O	FFSET	2° O	FFSET	15° C	FFSET	30° C	PERSET
(Deg.)	Rad. Ref. ft.	Cap. Ibs.	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.	Cap. Ibs.	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									L	

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.
- 2. 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.
- 4. Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
- 5. 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.
- 6. 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.
- 7. 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

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Europe, Africa, Middle East, Indian Sub-continent

GROVE

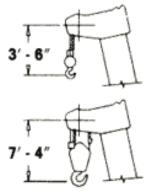
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FORM NO.: LCTMS875F.P. DATE: 289-10M PRINTED IN U.S.A.

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

Main	2 0	FFSET	15° C	FFSET	30° OFFSET		
Boom Angle (Deg.)	Rad. Ref. Cap. lbs ft.		Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.	Cap. Ibs.	
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, OWITH ANTI-TWO BLOCK ACTIVATED.

WEIGHT REDUCTIONS FOR LOAD HANDLING DEVICES

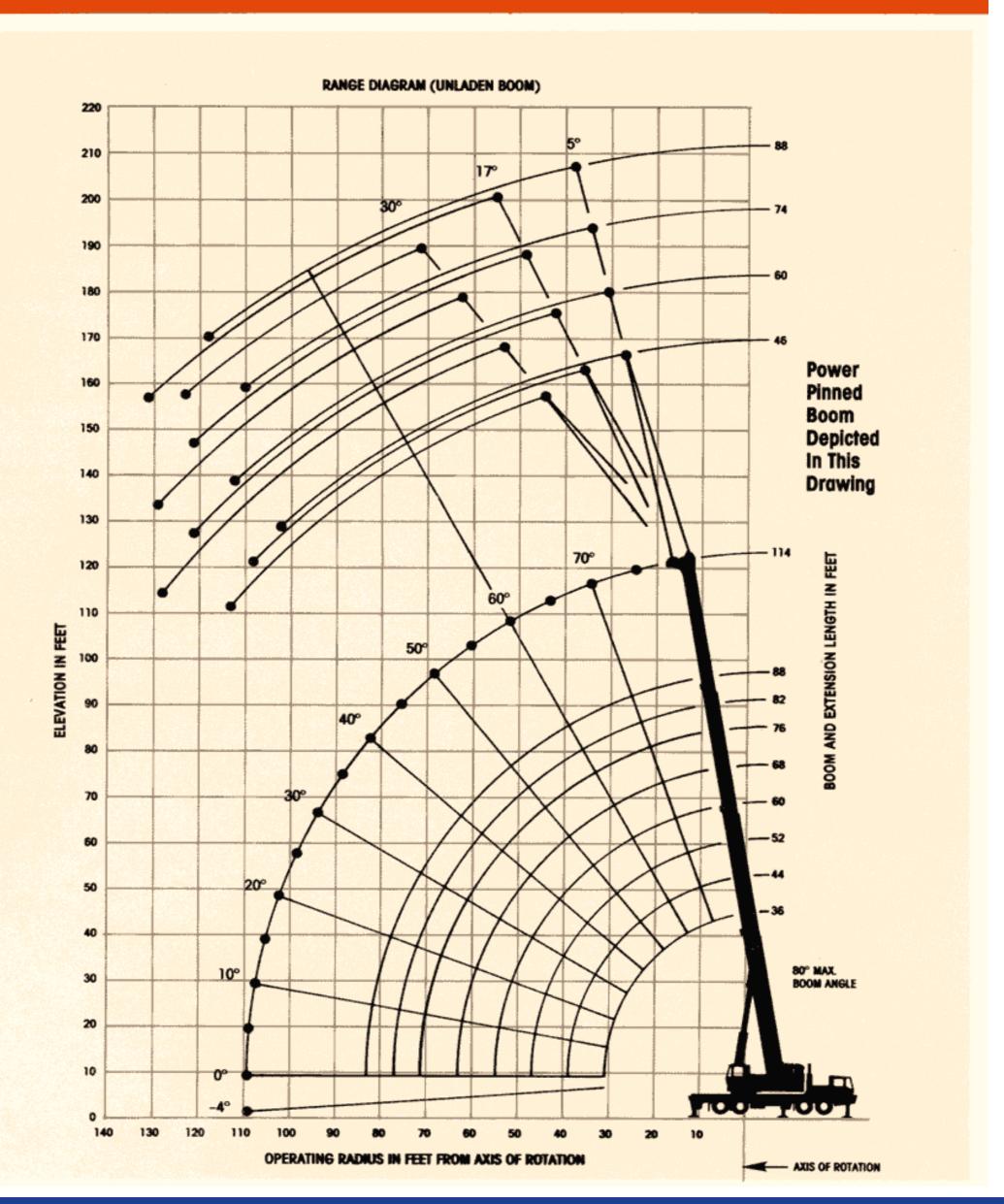
33 FT. EXTENSION WITH 36 FT114 FT. BOOM					
†Stowed - 673 lbs. †Erected - 6,243 lbs.					
33 FT58 FT. TELE. EXTENSION WITH 36 FT114 FT. BOOM					
†Stowed - †Erected (ret.) -	926 lbs. 9,322 lbs.				
†Erected (ext.) -	12,860 lbs.				

+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.



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



BİGGE



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 Boom Angle (Deg.)	46 ft. JiB							60 ft. JiB						
	5 OFFSET		17" OFFSET		30" OFFSET		5" OFFSET		17" OFFSET		30° OFFSET			
	Rad. Ref. ft.*	Cap. lbs."	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft.	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	3,600	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 ft. JIB					
Angle (Deg.)	5" OFFSET		17° OFFSET		30 OFFSET		5° OFFSET		17° OFFSET		30° OFFSET		
	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	1904/45		
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.

"Capacities at loaded main boom angle.

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

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- 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.
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- 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.
- 8. Tires shall be inflated to the recommended pressure before lifting on rubber.
- Unless otherwise stated, capacities are with powered boom sections equally extended.

(RANGE DIAGRAM ON FRONT)

WEIGHT REDUCTIONS FOR LOAD HANDLING DEVICES

_	
I	†46 ft. Jib Erected 12,060 lbs.
I	†60 ft. Jib Erected 18,015 lbs.
I	†74 ft. Jib Erected 25,077 lbs.
I	†88 ft. Jib Erected 33,236 lbs.
I	†33 ft. Stowed 673 lbs.
I	†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 lbs.
10 Ton Headache Ball	560 lbs.
7 1/2 Ton Headache Ball	338 lbs.

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