TM1400

130 METRIC TON CAPACITY 13.7m - 52.7m (45 - 172 ft.) BOOM

(FULL POWER) 85% OF TIPPING

LUFFING JIB CAPACITIES 26.8m (88 ft.)

		1.0 m	18.3m		22.6m		26.8m			
Jib Angle	Radii	15/	Ret di	us/	Retid	,us/	Retadi	\$*/		
70°	12.0	5,305	13.3	3,835	14.4	2,880	15.4	2,145		
65	13.2	4,850	14.8	3,435	16.2	2,490	17.6	1,765		
60	14.3	4,490	16.2	3,105	17.9	2,175	19.7	1,455		
55	15.4	4,175	17.5	2,825	19.6	1,905	21.7	1,195		
50	16.3	3,920	18.8	2,590	21.1	1,680	23.5	975		
45	17.3	3,690	20.0	2,385	22.6	1,485	25.3	785		

A6-829-003294C

JIB WARNING NOTES

- JIB WARNING NOTES

 1. All capacities are based on structural strength of jib at given jib angle with reference to ground and do not exceed 85% of tippes in the control of the provided of the

purpose of erecting of dismanting the lutring jib over side of rear is:

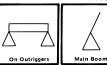
48 ft. Jib (14.0m) — 120 ft. (36.6m)
60 ft. Jib (18.3m) — 116 ft. (35.3m)
74 ft. Jib (22.6m) — 10 ft. (34.1m)
WARNING: Extending or retracting the main boom equipped with luffing jib at boom lengths greater than the above specified lengths without fully elevating the boom (80° boom angle) is strictly prohibited. Do not attempt to erect jibs over front of machine unless main boom is fully retracted, fly extended.



TM1400

130 METRIC TON CAPACITY 13.7m - 52.7m (45 - 172 ft.) BOO (FULL POWER) 85% OF TIPPING

KRUEGER LMI SYMBOLS









RATED LIFTING CAPACITIES IN KILO

OUTRIGGERS FULLY EXTENDED - 360°

				\triangle						8
Radius in			Mair	n Boom L	ength in	Meters				42.9m + 9.8m Ext (2°Offset
Meters	13.7	17.7	21.3	25.0	28.7	32.3	36.0	39.6	42.9	52.7
3	130,000								İ	
	(74.5)									
3.5	127,005	68,035	64,410							
	(72.5)	(76.5)	(79.0)							
4	122,015	68,035	64,410						I	
	(70.0)	(74.5)	(78.0)							
4.5	108,315	68,035	64,410	58,965					l	
	(67.5)	(73.0)	(76.5)	(79.0)						
5	97,160	68,035	61,685	56,605			i	ŀ		
- 6	(65.0)	(71.0)	(75.0)	(77.5)	46,265	40.960	<u></u>	ļ	-	
ь	80,105 (60.0)	(67.5)	56,605 (72.0)	51,300 (75.0)	(77.5)	(79.5)			1	
7	67.675	62.365	52,480	46.990	42.750	37.690	33,430	31,430		
′	(55.0)	(64.0)	(69.5)	(73.0)	(75.5)	(77.5)	(79.5)	(80.0)		
8	58.060	56,970	48,625	43.500	39,190	34,495	32,430	30,480	-	
٠	(49.0)	(60.0)	(66.5)	(70.5)	(73.5)	(76.0)	(77.5)	(79.5)		
9	49,170	49,170	44,925	40,460	36,150	31,795	29,890	28,030	27,215	
-	(42.5)	(56.0)	(63.0)	(68.0)	(71.0)	(74.0)	(76.0)	(78.0)	(79.5)	
10	42,250	42.250	41,935	37,850	33,180	29,210	27,440	25,810	25,150	11,340
	(35.0)	(52.0)	(60.0)	(65.0)	(69.0)	(72.0)	(74.5)	(76.5)	(78.0)	(80.0)
12		32,750	32,750	32,750	28,210	24,835	23,290	22,200	21,115	10,350
		(42.5)	(53.5)	(60.0)	(64.5)	(68.0)	(71.0)	(73.5)	(75.5)	(78.0)
14		25,855	25,855	25,855	24,400	21,520	20,095	19,095	17,915	9,060
		(30.0)	(45.5)	(54.0)	(60.0)	(64.0)	(67.5)	(70.5)	(72.5)	(75.5)
16			20,050	20,050	20,050	18,390	17,575	16,395	15,305	8,050
			(37.0)	(48.0)	(55.0)	(60.0)	(63.5)	(67.0)	(69.5)	(73.5)
18			16,045	16,045	16,045	15,875	15,510	14,220	13,200	7,235
			(24.5)	(40.5)	(49.5)	(55.5)	(60.0)	(64.0)	(66.5)	(71.0)
20				12,750	12,750	12,750	12,750	12,335	11,475	6,575
22				(32.0)	(43.5)	(50.5)	(56.0)	(60.5)	(63.5)	(68.5)
23					9,845	9,845	9,845	9,845	9,320	5,760
26		_			(33.0) 7.270	(43.0)	(49.5)	(55.0) 7.270	(58.5)	(65.0)
26						7,270	7,270		7,270	5,125 (61.0)
29					(16.0)	(33.5)	(42.5) 5,290	(49.5)	(53.5) 5.290	4,600
23						(20.0)	(34.0)	(43.0)	(48.0)	(57.5)
32						(20.0)	4.015	4.015	4,015	4,195
عد ا							(22.5)	(35.0)	(42.0)	(53.0)
35							(22.0)	2.815	2,815	3.830
								(25.0)	(34.5)	(48.5)
38								,,	1,875	3,030
									(25.5)	(44.0)
41										2,185
										(38.5)
44										1,425
										(32.0)
47			ļ							850
<u> </u>		(10 -) (on the office of	- 2 1	/a.a.l.	,				(24.5)
Min. Boom Angle (deg.) for indicated length (no load) Max, Boom Length (m) at 0 degree boom angle (no load) 42.9									0	
	om Leng Boom Angl			noom an	igie (no le	oad)			42.9	52.7

WARNING NOTE:

- GENERAL:

 1. Rated loads as shown on lift chart pertain to this machine as originally manufactured and equipped. Modifications to the machine or use of optional equipment other than that specified can result in a reduction of capacity.

 2. Construction equipment can be hazardous if improperly operated or maintained. Operation and maintenance of this machine shall be in compliance with the information in the operator's, parts, and safety manuals supplied with this machine shall formation to the operator of the massing order replacements from the manufacture through the distribution of the personnel associated with this machines shall fully acquaint themselves with the latest applicable American National Standards Institute (ANSI) Safety Standards for cranes.

 7. The operator and other personnel associated with this machine shall fully acquaint themselves with the latest applicable American National Standards Institute (ANSI) Safety Standards for cranes.

 7. The machine shall be leveled on a firm supporting surface. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outriger floats or tires to spread the load to a larger bearing surface.

 2. For outrigger operation, outriggers shall be fully extended with tires raised free of crane weight before operating the boom or lifting loads.

 3. If machine is equipped with front jack cylinder, the front jack cylinder shall be set in accordance with written procedure.

 4. End accordance with written procedure.

 5. Tires shall be inflied to the recommended pressure before lifting on rubber.

 6. With certain boom and hoist tackle combinations, maximum capacities may not be obtainable with standard cable lengths.

 7. Rated loads at rated radius shall not be exceeded. Do not tip the machine to character and load must not exceed 80% of rated lifting capacities.

- WARNING NOTE:

 2. Rated loads do not exceed \$5% of the tipp Crane Stability Test Code J-765a

 3. Rated loads include the weight of hook block, sli and their weights shall be subtracted from the list to be lifted.

 4. Load ratings are based on freely suspended load: move a load horizontally on the ground in any direction of the list to be lifted.

 5. Rated loads and not account for wind on lifted loads are for lift crane service only.

 6. Rated loads are for lift crane service only.

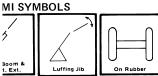
 7. Do not operate at a radius or boom length which these positions, the machine may overturn without in loadings and crane maintenance, but it is sevension within the limits of the capacity chart.

 9. Stension within the limits of the capacity chart.

 9. Stension within the limits of the capacity chart.

 9. It is some stension of the loads shown at either the next larger radius or boor loads shown at either the next larger radius or boor loads hown at either the next larger radius or boor conditions, such as: soft or uneven ground, out a side loads, pendulum action, jerking or sudden conditions, experience of personnel, two mach electric wires, etc. Side pull on boom or jib is extra larger radius conditions, experience of personnel, two mach electric wires, etc. Side pull on boom or jib is extra larger la

1400 ON CAPACITY 5 - 172 ft.) BOOM POWER) **TIPPING**





3 IN KILOGRAMS ON OUTRIGGERS F

OUTRIGGERS FULLY EXTENDED - OVER REAR

									1	
Radius			Mai	n Boom I	_ength in	Meters				42.9m + 9.8m Ext (2°Offset
Meters	13.7	17.7	21.3	25.0	28.7	32.3	36.0	39.6	42.9	52.7
3	130,000									
	(74.5)									
3.5	127,005	68,035	64,410							
	(72.5)	(76.5)	(79.0)							
4	122,015	68,035	64,410							
	(70.0)	(74.5)	(78.0)						-	<u> </u>
4.5	108,315 (67.5)	68,035 (73.0)	64,410	58,965						Ì
- 5	97,160	68,035	(76.5) 61,685	(79.0) 56,605		-				
,	(65.0)	(71.0)	(75.0)	(77.5)				i		
6	80,105	65,090	56,605	51,300	46,265	40,960	_			
	(60.0)	(67.5)	(72.0)	(75.0)	(77.5)	(79.5)	ĺ			
7	67,675	62,365	52,480	46.990	42.750	37,690	33,430	31,430	 	
	(55.0)	(64.0)	(69.5)	(73.0)	(75.5)	(77.5)	(79.5)	(80.0)		
8	58,060	56,970	48,625	43,500	39,190	34,495	32,430	30,480		
	(49.0)	(60.0)	(66.5)	(70.5)	(73.5)	(76.0)	(77.5)	(79.5)		
9	49,170	49,170	44,925	40,460	36,150	31,795	29,890	28,030	27,215	
	(42.5)	(56.0)	(63.0)	(68.0)	(71.0)	(74.0)	(76.0)	(78.0)	(79.5)	
10	42,250	42,250	41,935	37,850	33,180	29,210	27,440	25,810	25,150	11,340
12	(35.0)	(52.0) 32,750	(60.0)	(65.0)	(69.0)	(72.0)	(74.5)	(76.5)	(78.0)	(80.0)
12		(42.5)	32,750 (53.5)	32,750 (60.0)	28,210 (64.5)	24,835 (68.0)	23,290 (71.0)	(73.5)	21,115 (75.5)	(78.0)
14		25,855	25,855	25,855	24,400	21,520	20,095	19,095	17,915	9,060
		(30.0)	(45.5)	(54.0)	(60.0)	(64.0)	(67.5)	(70.5)	(72.5)	(75.5)
16		(00.0)	21,980	21.980	20,865	18,390	17,575	16,395	15,305	8.050
			(37.0)	(48.0)	(55.0)	(60.0)	(63.5)	(67.0)	(69.5)	(73.5)
18			17,675	17,675	17,675	15,875	15,510	14,220	13,200	7,235
			(24.5)	(40.5)	(49.5)	(55.5)	(60.0)	(64.0)	(66.5)	(71.0)
20				14,460	14,460	13,790	13,560	12,335	11,475	6,575
				(32.0)	(43.5)	(50.5)	(56.0)	(60.5)	(63.5)	(68.5)
23					10,930	10,930	10,930	10,025	9,320	5,760
					(33.0)	(43.0)	(49.5)	(55.0)	(58.5)	(65.0)
26					8,435	8,435	8,435	8,210	7,575	5,125
29					(16.0)	(33.5)	(42.5)	(49.5)	(53.5)	(61.0)
29						6,500 (20.0)	6,500 (34.0)	6,500 (43.0)	6,165 (48.0)	4,600 (57.5)
32						(20.0)	4,990	4,990	4.990	4,195
٦٢					1		(22.5)	(35.0)	(42.0)	(53.0)
35							(22.5)	3,750	3,750	3,830
	1	- 1						(25.0)	(34.5)	(48.5)
38								,/	2,785	3,525
									(25.5)	(44.0)
41										2,995
										(38.5)
44										2,230
- 12										(32.0)
47					1					1,580
50										(24.5)
30		- 1		i						1,030
Min. Bo	om Angle	(dea.) fo	r indicat	ed length	(no load	, 			0	0
									42.9	52.7
	ax. Boom Length (m) at 0 degree boom angle (no load) 42.9 OTE: Boom Angles are in degrees. A6-829-003375 &									

WARNING NOTES

ed 85% of the tipping load as determined by SAE J-765a. yeight of hook block, slings and auxiliary lifting devices subtracted from the listed ratings to obtain the net load

subtracted from the listed ratings to obtain the net load in freely suspended loads. No attempt shall be made to in the ground in any direction. It for wind on lifted load or boom. It is recommended freed, in the ground in any direction in the ground in

g boom. an approximation of the operating radius at specified

- boom lengths. The boom angle before loading should be greater to account fo deflection.

 15. Capacities appearing above bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.

 16. Capacities for the 45 ft. (13.7m) boom length shall be lifted with boom fully retracted. If boom is not fully retracted, capacities shall not exceed those show for the 58 ft. (17.7m) boom length.

 17. Radi less than 40 feet or 12 meters not recommended when lifting over front o machine.

 18. For this load state of the first state

- Doom only.

 DEFINITIONS:

 1. Operating Radius: Horizontal distance from a projection of the axis of rotation to the supporting surface before loading to the center of the vertical hoist line of tackle with load applied.

 2. Loaded Boom Angle (Shown in Parenthesis on Main Boom Capacity Chart): it the angle between the boom base section and the horizontal, after lifting the rated load at the rated radius.

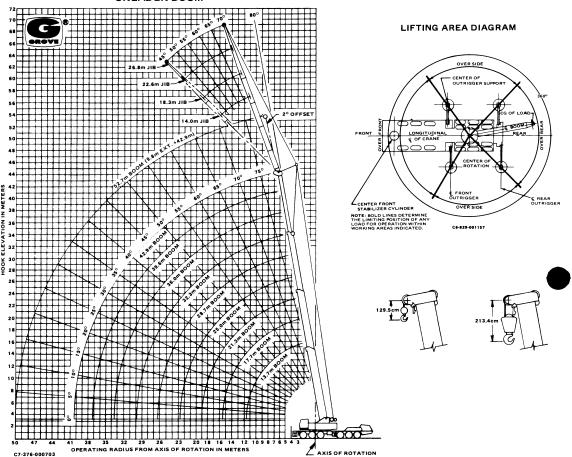
 3. Working Area: Areas measured in a circular arc about the center line of rotation as shown on the working area diagram.

 4. Freely Suspended Load: Load hanging free with no direct external force applied 5. Side Load: Horizontal force applied to the lifted load either on the ground or in the air.

GROVE

TM1400

HOOK ELEVATION DIAGRAM UNLADEN BOOM



WEIGHT REDUCTION FOR LOAD HANDLING DEVICES

9.8m BOOM EXTENSION L		with
	†14.0m Jib Erected -	4,3
	†18.3m Jib Erected -	6,5
	† 22.6m Jib Erected -	9,1
Luffing Jib Accessories - 254 kg	† 26.8m Jib Erected -	11,7

HOOK BLOCKS		
140 Ton, 7 Sheave .		1,564 kg
30 Ton, 1 Sheave .		464 kg
Auxiliary Boom Head		115 kg
10 Ton Headache Ball	-	227 kg
15 Ton Headache Ball		340 kg

NOTE: All Load Handling Devices and Boom Attachments are Considered Part of the Load and Suitable Allowances MUST BE MADE for Their Combined Weights are for Grove furnished equipment.

†Reduction of main boom capacities.