TMS515

15 TON CAPACITY 28 ft. - 70 ft. BOOM (FULL POWER)

> **6x6 CARRIER** PCSA CLASS 12-62 85% OF TIPPING



RATED LIFTING CAPACITIES IN POUNDS ON OUTRIGGERS FULLY EXTENDED

OVER REAR — With or Without Front Jack

Radius			Main Bo	om Leng	th in Fee	t			
Feet	28	34	40	46	52	58	64	70	
12	30,000	30,000	30,000	30,000				F	
	(59.5)	(65.5)	(70)	(73)				<u></u>	
15	28,240	27,080	26,120	25,350	24,730	24,230			
	(51.5)	(59.5)	(65)	(69)	(72)	(74.5)			
20	22,080	21,520	20,770	20,100	19,540	19,080	18,680	18,360	
	(36.5)	(49)	(57)	(62)	(66)	(69.5)	(72)	(74)	
25		17,490	17,150	16,640	16,160	15,740	15,370	15,080	
		(36)	(47.5)	(54.5)	(60)	(64)	(67)	(69.5)	
30	See Warning		14,300	14,090	13,730	13,370	13,040	12,770	
	Note 16	1	(36.5)	(46.5)	(53)	(58)	(62)	(65)	
35		I	11,230	11,230	11,230	11,230	11,040	11,040	
		Ĺ	(20)	(36.5)	(45.5)	(51.5)	(56.5)	(60)	
40		ľ		9,120	9,120	9,120	9,120	9,120	
			l	(23)	(36.5)	(45)	(50.5)	(55)	
45					7,500	7,500	7,500	7,50	
					(25)	(37)	(44.5)	(49.5)	
50			I			6,220	6,220	6,22	
						(26.5)	(37)	(43.5)	
55							5,250	5,250	
				L	<u> </u>		(28)	(37)	
60		Ī					4,450	4,45	
<u> </u>							(13)	(28.5)	
65								3,810	
					<u> </u>			(15.5)	
Min. bo	om angle	(deg.) fo	r indicate	ed length	(no load)	<u> </u>		0	
Max. boom length (ft.) at 0 deg. boom angle (no load)									

NOTE: Boom angles are in degrees.

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Radius	
in	
Feet	28
12	30,000
	(59.5)
15	28,240
	(51.5)
20	22,080
	(36.5)
25	
30	Sée Warning
	Warning Note 16
35	1 1
	\longrightarrow
40	1 1
	
45	l I
	\longmapsto
50	1 1
	
55	l i
	
60	
65	├ ┈─┤
65	
hat a b	
	om angle
	oom lengtl
NOTE:	Boom angle:

pertain to this crane as originally manufactured and equipped. nal equipment other than that specified can result in a reduction of m supplied with this crane, do not substitute jibs or boom extensions

70

18,360 (74)

15,080 (69.5) 11.330 (65)

8.330

6,170

4.810

3,730

2.830 (371

2,200 28.5) 1.760 (15.5)70

(49.5)

(60)

(55)

,680

.370

1,330

6.5)

5,170

0.5)

1.810

4.5)

3,730

2.830

2,200

6 & -003798B

if improperly operated or maintained. Operation and maintenance n in the Operator's and Safety Handbooks, Service and Parts Manuals e missing, order replacements from the manufacturer. ted with this crane shall fully acquaint themselves with the latest titute (ANSI) Safety Standards for cranes.

rting surface. Depending on the nature of the supporting surface, it rts of sufficient strength under the outrigger floats or tires to spread

fully extended with tires raised free of crane weight before operating

the front jack cylinder shall be set in accordance with the written

ght, the counterweight shall be fully extended before operation.

pressure before lifting on rubber.
inations, maximum capacities may not be obtainable with standard

for single line lifting operations. Consult the wire rope manufacturer ultiple part reeving. n or jib erected.

xceeded. Do not tip the machine to determine allowable loads. For t exceed 80% of rated lifting capacities.
the tipping load as determined by SAE Crane Stability Test Code

lock, slings and auxiliary lifting devices and their combined weights i obtain the net load which may be lifted.
I loads. No attempt shall be made to move a load horizontally on the

- Rated loads do not account for wind on lifted load or boom. It is recommended mph (32 km/h), rated loads and boom lengths be appropriately reduced.
 Rated loads are for lift crane service only.
 Do not operate at a radius or boom length where capacities are not listed. At overturn without any load on the hook.
 The maximum load which can be telescoped is not definable because of va maintenance, but it is safe to attempt retraction and extension within the limits o
 When either boom length or radius or both are between values listed, the smalles larger radius or boom length shall be used.
 For safe operation, the user shall make due allowances for his particular job con ground, out of levet conditions, high winds, side loads, pendulum action, jerkin hazardous conditions, experience of personnel, two machine lifts, traveling with pull on boom or jib is extremely dangerous.
 Power telescoping boom sections must be extended equally at all times.
 Handling of personnel from the boom is not authorized except with equipment ft Manufacturing Company.
 Keep load handling devices a minimum of 18 inches (45.7 cm) below boom head to a 15. Capacities appearing above the bold line are based on structural strength and tip

- 15. Capacities appearing above the bold line are based on structural strength and til as a capacity limitation.

 16. Capacities for the 28 ft. (8.6m) boom length shall be lifted with the boom fully retracted, capacities shall not exceed those shown for the 34 ft. (10.4m).

 17. Radii less than 35 feet or 12 meters not recommended when lifting over front capacities equipped with front jack cylinder.)
- machines equipped with front jack cylinder.)
 DEFINITIONS:

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

 2. Loaded Boom Angle (Shown in Parenthesis on Main Boom Capacity Chart): is the section and the horizontal, after lifting the rated load at the rated radius with the 3. Working Area: Areas measured in a circular arc about the center line of rotation diagram.
- 4. Freely Suspended Load: Load hanging free with no direct external force applied ϵ 5. Side Load: Horizontal force applied to the lifted load either on the ground or in t





15 TOI 28 ft. - 70 ft. B

> 6x6 **PCSA** 85%

RATED LIFTING C ON OUTRIGGERS

OVER SIDE - Without Front Jack

Radius			Main B	oom Len	gth in Fed	et					
Feet	28	34	40	46	52	58	64	70			
12	30,000	30,000	30,000	30,000							
	(59.5)	(65.5)	(70)	(73)							
15	28,240	27,080	26,120	25,350	24,730	24,230					
j	(51.5)	(59.5)	(65)	(69)	(72)	(74.5)					
20	22,080	21,520	20,770	20,100	19,540	19,080	18,680	18,360			
	(36.5)	(49)	(57)	(62)	(66)	(69.5)	(72)	(74)			
25		16,760	16,760	16,640	16,160	15,740	15,370	15,080			
		(36)	(47.5)	(54.5)	(60)	(64)	(67)	(69.5)			
30	See Warning		11,330	11,330	11,330	11,330	11,330	11,330			
	Note 16		(36.5)	(46.5)	(53)	(58)	(62)	(65)			
35			8,330	8,330	8,330	8,330	8,330	8,330			
			(20)	(36.5)	(45.5)	(51.5)	(56.5)	(60)			
40				6,170	6,170	6,170	6,170	6,170			
				(23)	(36.5)	(45)	(50.5)	(55)			
45					4,810	4,810	4,810	4,810			
			L		(25)	(37)	(44.5)	(49.5)			
50						3,730	3,730	3,730			
						(26.5)	(37)	(43.5)			
55							2,830	2,830			
							(28)	(37)			
60							2,200	2,200			
							(13)	(28.5)			
65						I		1,760			
								(15.5)			
Min. boom angle (deg.) for indicated length (no load)											
Max, bo	Max, boom length (ft.) at 0 deg, boom angle (no load) 70										

NOTE: Boom angles are in degrees.

A6-829-005786 & -0037988

OVER REAR - Wi

			- 111
Radius			Main Bo
Feet	28	34	40
12	30,000 (59.5)	30,000 (65.5)	30,000 (70)
15	28,240 (51.5)	27,080 (59.5)	26,120 (65)
20	22,080 (36.5)	21,520 (49)	20,770 (57)
25		17,490 (36)	17,150 (47.5)
30	See Warning Note 16		14,300 (36.5)
35			11,230 (20)
40			
45			
50			
55			
60			
65			
Min. bo	om angle	(deg.) fo	r indicate

Max. boom length (ft.) at 0 deg. boo

NOTE: Boom angles are in degrees

LIFTING CAPACITY NOTES:

GENERAL.

- GENERAL:

 1. Rated loads as shown on capacity chart pertain to this crane as originally manufactured and equipped. Modifications to the crane or use of optional equipment other than that specified can result in a reduction of capacity. Use only the jib or boom extension supplied with this crane, do not substitute jibs or boom extensions without the written approval of Grove Mfg. Co.

 2. Construction equipment can be hazardous if improperly operated or maintained. Operation and maintenance shall be in compliance with the information in the Operator's and Safety Handbooks, Service and Parts Manuals supplied with this crane. If these manuals are missing, order replacements from the manufacturer.

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

 SETUP:

 1. The crane shall be leveled on a firm supporting surface. Depending on the nature of the supporting surface, it
- 1. The crane shall be leveled on a firm supporting surface. Depending on the nature of the supporting surface, it may be necessary to have structural supports of sufficient strength under the outrigger floats or tires to spread the load to a larger bearing surface.
- For outrigger operation, outriggers shall be fully extended with tires raised free of crane weight before operating the boom or lifting loads.
 When equipped with front jack cylinder, the front jack cylinder shall be set in accordance with the written

- When equipped with front jack cylinder, the front jack cylinder shall be set in accordance with the written procedure.
 When equipped with extendable counterweight, the counterweight shall be fully extended before operation.
 Tires shall be inflated to the recommended pressure before lifting on rubber.
 With certain boom and hoist tackle combinations, maximum capacities may not be obtainable with standard cable lengths.
 Rotation resistant wire rope is best suited for single line lifting operations. Consult the wire rope manufacturer for specific recommendations concerning multiple part reeving.
 Do not transport crane with boom extension or jib erected.
 OPERATION:
- 1. Rated loads at rated radius shall not be exceeded. Do not tip the machine to determine allowable loads. For clamshell operation, weight of load must not exceed 80% of rated lifting capacities.

 2. Rated loads do not exceed 85% of the tipping load as determined by SAE Crane Stability Test Code 1-765a.

 Rated loads include the weight of hook block, slings and auxiliary lifting devices and their combined weights shall be subtracted from the listed ratings to obtain the net load which may be lifted.
 Load ratings are based on freely suspended loads. No attempt shall be made to move a load horizontally on the ground in any direction.

NS515

TON CAPACITY ft. BOOM (FULL POWER)

6x6 CARRIER CSA CLASS 12-62 85% OF TIPPING

FULL HYDRAULIC CARRIER-MOUNTED CRANE

IG CAPACITIES IN POUNDS **3ERS FULLY EXTENDED**

I — With or Without Front Jack

Main Bo	om i.eng	th in Fee	t		•			
40	46	52	58	64	70			
30,000	30,000							
70)	(73)							
26,120	25,350	24,730	24,230		l			
65)	(69)	(72)	(74.5)					
20,770	20,100	19,540	19,080	18,680	18,360			
57)	(62)	(66)	(69.5)	(72)	(74)			
7,150	16,640	16,160	15,740	15,370	15,080			
47.5)	(54.5)	(60)	(64)	(67)	(69.5)			
14,300	14,090	13,730	13,370	13,040	12,770			
36.5)	(46.5)	(53)	(58)	(62)	(65)			
1,230	11,230	11,230	11,230	11,040	11,040			
20}	(36.5)	(45.5)	(51.5)	(56.5)	(60)			
_	9,120	9,120	9,120	9,120	9,120			
	(23)	(36.5)	(45)	(50.5)	(55)			
•		7,500	7,500	7,500	7,500			
		(25)	(37)	(44.5)	(49.5)			
			6,220	6,220	6,220			
		<u> </u>	(26.5)	(37)	(43.5)			
				5,250	5,250			
				(28)	(37)			
				4,450	4,450			
				(13)	(28.5)			
					3,810			
				<u>. </u>	(15.5)			
	d length				0			
deg. bo	om angle				70			
ees A6-829-005784 & -003798B								

360° - With Front Jack

Radius			Main Bo	om Leng	th in Fee	t			
Feet	28	34	40	46	52	58	64	70	
12	30,000	30,000	30,000	30,000					
	(59.5)	(65.5)	(70)	(73)	ليسسا				
15	28,240	27,080	26,120	25,350	24,730	24,230			
	(51.5)	(59.5)	(65)	(69)	(72)	(74.5)			
20	22,080	21,520	20,770	20,100	19,540	19,080	18,680	18,360	
	(36.5)	(49)	(57)	(62)	(66)	(69.5)	(72)	(74)	
25		17,490	17,150	16,640	16,160	15,740	15,370	15,080	
		(36)	(47.5)	(54.5)	(60)	(64)	(67)	(69.5)	
30	See Warning		12,520	12,520	12,520	12,520	12,520	12,520	
	Warning Note 16		(36.5)	(46.5)	(53)	(58)	(62)	(65)	
35			9,700	9,700	9,700	9,700	9,700	9,700	
			(20)	(36.5)	(45.5)	(51.5)	(56.5)	(60)	
40		· '		7,680	7,680	7,680	7,680	7,680	
				(23)	(36.5)	(45)	(50.5)	(55)	
45					6,100	6,100	6,100	6,100	
					(25)	(37)	(44.5)	(49.5)	
50				1		4,970	4,970	4,970	
		<u> </u>			1	(26.5)	(37)	(43.5)	
55							4,140	4,140	
							(28)	(37)	
60							3,340	3,340	
				<u> </u>			(13)	(28.5)	
65		1						2,750	
								(15.5)	
Min. bo	om angle	(deg.) fo	r indicate	ed length	(no load)		0	
Max. boom length (ft.) at 0 deg. boom angle (no load) 70									

NOTE: Boom angles are in degrees.

A6-829-005847 & -0037988

Rated loads do not account for wind on lifted load or boom. It is recommended when wind velocity is above 20 mph (32 km/h), rated loads and boom lengths be appropriately reduced.
 Rated loads are for lift crane service only.
 Do not operate at a radius or boom length where capacities are not listed. At these positions, the crane may overturn without any load on the hook.
 The maximum load which can be telescoped is not definable because of variations in loadings and crane maintenance, but it is safe to attempt retraction and extension within the limits of the capacity chart.
 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 safe operation, the user shall make due allowances for his particular job conditions, such as; soft or uneven ground, out of level conditions, high winds, side loads, pendulum action, jerking or sudden stopping of loads, hazardous conditions, experience of personnel, two machine lifts, traveling with loads, electric wires, etc. Side pull on boom or jib is extremely dangerous.
 Power telescoping boom sections must be extended equally at all times.
 Handling of personnel from the boom is not authorized except with equipment furnished and installed by Grove Manufacturing Company.
 Keep load handling devices a minimum of 18 inches (45.7 cm) below boom head at all times.
 The boom angle before loading should be greater than the loaded boom angle to account for deflection.
 Capacities for the 28 ft. (8.6m) boom length shall be lifted with the boom fully retracted. If boom is not fully retracted, capacities shall not exceed those shown for the 34 ft. (10.4m).
 Radii less than 35 feet or 12 meters not recommended when lifting over front on machine. (Only applicable to machines equipped with front jack cylinder.)
 DEFINITIONS:

- machines equipped with front jack cylinder.)
 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 or tackle with load applied.

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

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

gram.

4. Freely Suspended Load: Load hanging free with no direct external force applied except by the lift cable.

5. Side Load: Horizontal force applied to the lifted load either on the ground or in the air.

GROVE

TMS515

23 ft. "A" FRAME JIB On Outriggers - Over Side & Rear Without Front Jack

Main	0º OI	FFSET	15° C	FFSET	30° C	FFSET
Boom Angle	Rad. Ref. ft.	Cap. Ibs.	Rad. Ref. ft.	Cap. Ibs.	Rad. Ref. ft.	Cap.
75°	27.0	12,000	32.5	7,700	35.7	5,070
70	33.3	8,100	38.1	7,000	41.2	4,800
65	40.2	5,980	44.9	5,160	47.8	4,260
60	47.0	4,420	51.3	3,800	54.0	3,550
55	53.2	3,350	57.3	2,970	59.8	2,830
50	59.2	2,710	62.9	2,300	65.1	2,240
_45	64.7	2,090	68.0	1,820	69.9	1,800
40	69.6	1,550	72.6	1,440	74.2	1,400
35	74.0	1,270	76.6	1,180	77.9	1,140
30	77.8	1,060	80.1	990	81.0	910
		`		46.829.0	05700	

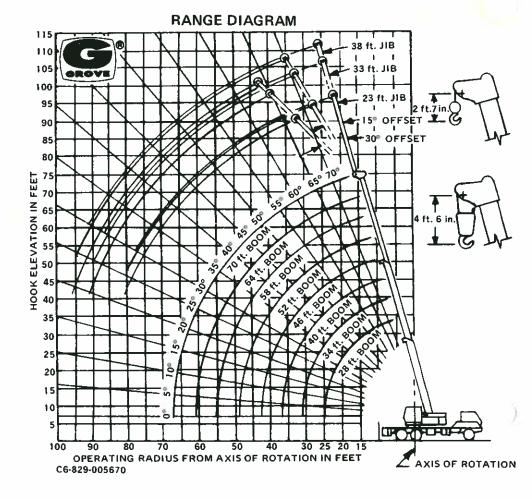
23 ft. "A" FRAME JIB On Outriggers - 360° With Front Jack

	0° O	FFSET	15° O	FFSET	30° O	FFSET
Boom Angle	Rad. Cap. Ref. lbs. ft.		Rad. Ref. ft.	Cap. ibs.	Rad. Ref. ft.	Cap. Ibs.
75	27.0	12,000	32.5	7,700	35.7	5,070
70	33.3	9,440	38.1	7,000	41.2	4,800
65	40.2	7,100	44.9	5,700	47.8	4,500
60	47.0	5,340	51.3	4,610	54.0	4,110
55	53.2	4,230	57.3	3,670	59.8	3,450
50	59.2	3,360	62.9	3,000	65.1	2,870
45	64.7	2,720	68.0	2,400	69.9	2,360
40	69.6	2,230	72.6	2,090	74.2	2,070
35	74.0	1,870	76.6	1,800	77.9	1,700
30	77.8	1,580	80.1	1,570	81.0	1,480
				A6-829-0	05849	

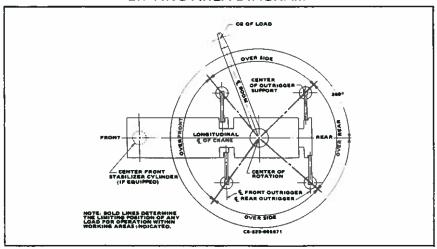
JIB CAPACITY NOTES:

- All capacities are in pounds, 23 ft. jib may be used for double line lifting service. Capacities are based on structural strength of 23 ft. jib at a given main boom angle regardless of main boom
- length.
 WARNING: Operation of machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with jib occurs rapidly and without advance warning.
 Capacities listed are with fully extended outriggers only.
 WARNING: Lifting on rubber with jib is prohibited.

- WARNING: Lifting on rubber with jib is prohibited.
 Reference radii listed are for fully extended
 main boom only.
 No load stability on outriggers with 23 ft. jib
 installed:
 a. Minimum boom angle for fully extended
 main boom = 0°.
 b. Maximum boom length at 0° main boom
 angle = 93 ft.



LIFTING AREA DIAGRAM





GROVE MANUFACTURING COMPANY

KIDDE

Box 21, Shady Grove, Pennsylvania 17256 Phone: (717) 597-8121 Telex: 842308 Cable: GROVE MFG

DATE: 182-3M

Distributed by:

TMS515

15 TON CAPACITY 28 ft. - 70 ft. BOOM (FULL POWER)

> **6x6 CARRIER** PCSA CLASS 12-62 85% OF TIPPING

JIB CAPACITIES IN POUNDS

23 ft. - 38 ft. TELE. JIB On Outriggers - Over Side & Rear Without Front Jack

	2:	3 ft. JIB	LENG	TH (ful	ly ret.)			33 f	t. JIB	LENGT	1		38 ft. JIB LENGTH (fully ext.)					
Main	0° OF	FSET	15° 0	FFSET	30° C	FFSET	0° 01	FFSET_	15° C	FFSET	30° ¢	FFSET	0° 0	FFSET	15° C	FFSET	30° C	FFSET
Boom Angle	Rad. Ref. ft.	Cap.	Rad. Rof. ft	Cap. Ibs.	Rad. Ref. ft.	Cap.	Rad. Ref. ft.	Cap. Ibs.	Rad. Ref. ft.	Cap, Ibs.	Rad. Ref. ft.	Cap. tbs.	Rad. Ref. ft.	Cap. 1bs.	Rad, Ref. ft.	Cap. ibs.	Rad. Ref. ft.	Cap. Ibs.
_ 75°	27.5	12,500	31.4	7,300	35.0	4,500	29.0	7,600	35.3	4,900	41.5	2,900	31.0	5,000	39.0	3,750	45.4	2,230
70	33.3	7,990	37.8	6,390	40.6	4,150	35.9	6,290	42.5	4,270	48.8	2,650	37.9	4,650	45.6	3,300	51.8	1,990
65	40.2	5,870	44.7	5,070	47.2	3,900	43.9	4,750	50.2	3,600	56.1	2,440	46.3	4,230	53.7	2,950	59.3	1,870
60	47.0	3,980	51.3	3,740	53.6	3,310	51.6	3,370	57.5	2,790	62.8	2,330	54.3	3,150	61.2	2,640	66.4	1,770
55	53.2	2,760	57.3	2,760	59.5	2,460	58.8	2,480	64.3	2,150	69.2	1,770	62.0	2,460	68.4	1,890	72.9	1,680
50	59.2	2,120	62.9	2,040	65.1	1,860	65.7	1,780	70.7	1,580	74.9	1,330	69.2	1,780	75.0	1,420	78.9	1,290
45	64.7	1,570	68.0	1,450	69.9	1,410	71.9	1,290	76.5	1,150	80.2	1,050	75.8	1,290	81.1	1,050	84.3	980
40	69.6	1,110	72.6	1,050	74.2	1,020	77.7	910					81.8	910				

No Load Stability On Outriggers Side & Rear With 23' - 38' Tele. Jib Installed:

A6-829-005790

	Tele. Jib Fulty Retracted 93'	33 ¹ Tele Jib Length 103'	Tele. Jib Fully Extended 108'
Minimum Boom Angle for Indicated Boom Length	7.5	10*	11.5"
Maximum Boom Length Including Jib for 0" Boom Angle	92.0"	101.0*	105.5

23 ft. - 38 ft. TELE. JIB On Outriggers - 360° With Front Jack

		t. JIB LE			etracte	ed)		33 1	ft. JIB	LENGTI	H		38 ft. JIB LENGTH (fully extended)					
Main	0° 01	FSET		FFSET	30° OFFSET		0° OFFSET		15° OFFSET		30° (DFFSET	0° OFFSET		15° OFFSET		30° O	FFSET
Boom Angle	Rad.	Cap.	Rad. Ref. ft.	Cap. ibs.	Rad. Ref. ft.	Cap.	Rad. Ref. fl.	Cap. Ibs.	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. fl.	Cap. lbs.	Rad. Ref.	Cap. lbs.	Rad. Ref.	Cap. lbs.	Rad. Ref. ft.	Cap, Ibs,
75°	27.5	12,500	31.4	7,300	35.0	4,500	29.0	7,600	35.3	4,900	41.5	2,900	31.0	5,000	39.0	3,750	45.4	2,230
70	33.3	9,370	37.8	6,390	40.6	4,150	35.9	6,500	42.5	4,270	48.8	2,650	37.9	4,650	45.6	3,300	51.8	1,990
65	40.2	6,620	44.7	5,750	47.2	3,900	43.9	5,300	50.2	3,820	56.1	2,440	46.3	4.470	53.7	2,950	59.3	1.870
60	47.0	4,760	51.3	4,490	53.6	3,680	51.6	3,900	57.5	3,450	62.8	2,330	54.3	3,550	61.2	2,640	66.4	1,770
55	53.2	3,640	57.3	3,570	59.5	3,120	58.8	3,000	64.3	2,770	69.2	2,230	62.0	2,820	68.4	2,450	72.9	1,680
50	59.2	2,750	62.9	2,750	65.1	2,510	65.7	2,350	70.7	2,180	74.9	1,910	69.2	2,330	75.0	2.030	78.9	1,620
45	64.7	2,160	68.0	2,160	69.9	2,050	71.9	1,880	76.5	1,720	80.2	1,500	75.8	1.850	81.1	1.660		1,500
40	69.6	1,700	72.6	1,700	74.2	1,630	77.7	1,480	81.7	1,390	84.7	1,270	81.8	1.410	86.4	1,360		1,240
35	74.0	1,370	76.6	1,370	77.9	1,330	82.8	1,150	86.2	1,140	88.6	1,040	87.2	1.080	91,2	1.020	93.0	980
30	77.8	1,090	80.1	1,090	81.0	1.090	87.3	930	90.2	930	91.8	920			1			

A6-829-005851

No Load Stability On Outriggers 360° With 23' - 38' Tele. Jib Installed:

	Tele, Jib Fully Retracted 93'	33' Yele, Jib Length 103'	Tele, Jib Fully Extended 108'
Minimum Boom Angle for Indicated Boom Length	0°	0.	0
Maximum Boom Length Including Jib for 0° Boom Angle	93'	103	1081

JIB CAPACITY NOTES

- 23' (7.1m) Tele. Jib length may be used for double line lifting service.
 33' (10.1m) and 38' (11.6m) jib lengths may be used for single line lifting service only. Capacities are based on structural strength of 23'-38' (7.1m-11.6m) Tele. Jib at a given main boom angle regardless of main boom length.
 WARNING: Operation of machine with heavier loads than the

equinment

capacities listed is strictly prohibited. Machine tipping with jib occurs rapidly and without advance warning.
Capacities listed are with fully extended outriggers only.
WARNING: Lifting on rubber with jib is prohibited.
Reference radii listed are for fully extended boom only 70' (21.2m).

WEIGHT REDUCTIONS FOR LOAD HANDLING DEVICES

23 ft. JIB with 28-70 ft, BOOM *Stowed - 250 lbs. *Erected - 1,985 lbs.

	TELE, JIB oft. BOOM	

*Stowed *Erected (Retra *Erected (Exter	cted) -	414 lbs. 3,659 lbs. 4,611 lbs.
	,,	7,011 103.

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HOOKBLOCKS	
22 Ton, 3 Sheave 455 lbs.	,
15 Ton, 2 Sheave 292 lbs.	
12 Ton, 1 Sheave	
Auxiliary Boom Head 100 lbs.	
5 Ton Headache Ball 172 lbs.	

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