(2089)

80 in. (2025)

205 in. (5207)

NOTE: Dimensions shown in parentheses are in millimeters (mm).

29 ft. 2-1/8 in. (8893)

6x6

21" (53)

7-3/8" (187)

-17' (5182) -**–19**' (5791) -

ROYE

TMS515

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

	0° OFFSET		15° O	FFSET	30° OFFSET		
BOOM ANGLE	Rad. Ref. ft.	Cap. Ibs.	Rad. Ref. ft.	Cap lbs.	Rad. Ref. ft.	Cap. Ibs.	
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	5,260	47.8	4,500	
60	47.0	4,420	51.3	3,800	54.0	3,590	
55	53.2	3,350	57.3	2,970	59.8	2,840	
50,	59.2	2,710	62.9	2,300	65.1	2,300	
45	64.7	2,160	68.0	1,880	69.9	1,880_	
40	69.6	1,720	72:6	1,560	74.2	1,510	
35	74.0	1,370	76.6	1,270	77.9	1,180	
30	77.8	1,120	80.1	1,050	81.0	950	

A6-829-005452C

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

	0° OFFSET		15° C	FFSET	30° OFFS		
Bos Angle	Rad. Ref.	Cap. Ibs.	Rad. Ref. ft.	Cap. lbs.	Rad. Ref. ft	ap. Ibs.	
75°	27.	12,000	32.5	7,700	55.7	5,070	
70	33.3	5,230	38.1	7,00	41.2	4,800	
65	40.2	6,116	44.9	430	47.8	4,500	
60	47.0	4,800	3	4,300	54.0	4,070	
55	53.2	3,700	57.s.	3,430	59.8	3,200	
50	59.2	2.9.40	62.9	21.70	65.1	2,570	
45	64.7	2,330	68.0	2,250	69.9	2,120	
40	€2.6	1,930	72.6	1,850	2	1,760	
35	74.0	1,510	76.6	1,500	77.9	480	
0	77.8	1,320	80.1	1,300	81.0	1,36	
	A6-829-005520						

JIB CAPACITY NOTES:

- 1. 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
- given main poom 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.

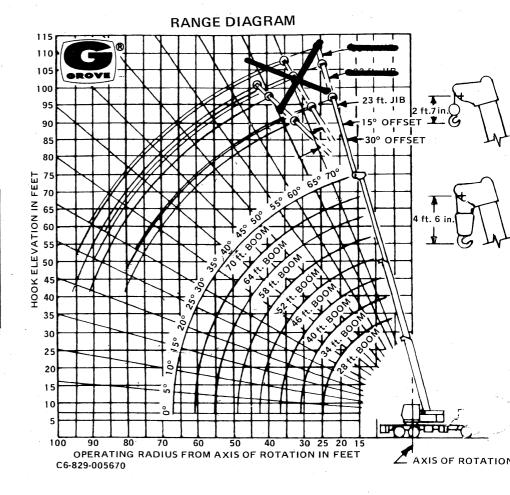
 Capacities listed are with fully extended out-
- riggers only.

 WARNING: Lifting on rubber with jib is prohibited.

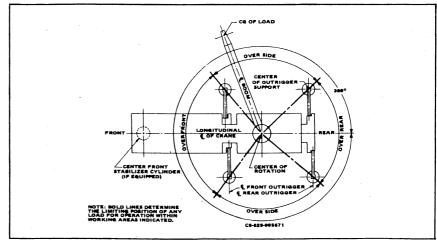
 Reference radii listed are for fully extended
- main boom only.

 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 Tele/ 842308 Cable: GROVE MFG Distributed by:



TM\$515

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

> 6 x 4 CARRIER PCSA CLASS 12-68 85% OF TIPPING



RATED LIFTING CAPACITIES IN POUNDS ON OUTRIGGERS FULLY EXTENDED

OVER SIDE - Without Front Jack

Radius in	Main Boom Length in Feet									
Feet	28	34	40	46	52	58	64	70		
12	30,000	30,000	30,000	30,000						
	(59.5)	(65.5)	(70)	(73)			l	'		
15	28,240	27,080	26,120	25,350	24,730	24,230	·	l		
	(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		17,430	17,150	16,640	16,160	15,740	15,370	15,080		
		(36)	(47.5)	(54.5)	(60)	(64)	(67)	(69.5)		
30	See		12,410	12,410	12,410	12,410	12,410	12,410		
	Warning Note 16		(36.5)	(46.5)	(53)	(58)	(62)	(65)		
35			9,260	9,260	9,260	9,260	9,260	9,260		
			(20)	(36.5)	(45.5)	(51.5)	(56.5)	(60)		
40				6,830	6,830	6,830	6,830	6,830		
				(23)	(36.5)	(45)	(50.5)	(55)		
45					5,450	5,450	5,450	5,450		
					(25)	(37)	(44.5)	(49.5)		
50						4,470	4,470	4,470		
						(26.5)	(37)	(43.5)		
55							3,500	3,500		
							(28)	(37)		
60							2,760	2,760		
							(13)	(28.5)		
65								2,200		
								(15.5)		
Min. boom angle (deg.) for indicated length (no load) Max. boom length (ft.) at 0 deg. boom angle (no load)							0			

OVER REAR - With or Without Front Jack

Radius	Main Boom ∟ength in Feet							
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	i	
	(51.5)	(59.5)	(65)	(69)	(72)	(74.5)		
20	22,080	21,520	20,770	20,100	19,540	19,080	18,680	18,36
	(36.5)	(49)	(57)	(62)	(66)	(69.5)	(72)	(74)
25		17,490	17,150	16,540	16,160	15,740	15,370	15,08
		(36)	(47.5)	(54.5)	(60)	(64)	(67)	(69.5)
30	See Warning		13,200	13,200	13,200	13,200	13,040	12,77
	Note 16		(36.5)	(46.5)	(53)	(58)	(62)	(65)
35			10,470	10,470	10,470	10,470	10,470	10,47
	i		(20)	(36.5)	(45.5)	(51.5)	(56.5)	(60)
40				8,480	8,480	8,480	8,480	8,48
				(23)	(36.5)	(45)	(50.5)	(55)
45				, ,	6,830	6,830	6,830	6,83
					(25)	(37)	(44.5)	(49.5)
50						5,720	5,720	5,72
						(26.5)	(37)	(43.5)
55							4,780	4,78
		,					(28)	(37)
60							3,940	3,94
					<u> </u>		(13)	(28.5)
65								3,28
	<u> </u>	L		<u></u>	L		L	(15.5)
Min. boom angle (deg.) for indicated length (no load)								0
Max. boom length (ft.) at 0 deg. boom angle (no load)								70

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NOTE: Boom angles are in degrees

Main Boom Length in Feet 34 40 000 30.000 30 000 20 25 15.370 15.080 40 7.280 7.280 7.280 7.280 Note 16 5 830 (44 5) 50 boom angle (deg.) for indicated th (no load x loom length (ft.) at 0 deg. boom hale (no load)

LIFTING CAPACITY NOTES:

NOTE: Boom angles are in degrees

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 lib or boom extensions supplied with this crane, do not substitute jibs or boom extensions without the written approval of Grove Mig. Co.

2. Who will be written approval of Grove Mig. Co. 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:

A6-829-005454 & -003798A

- SETUP:

 The trans shall be leveled on a firm supporting surface. Depending on the nature of the supporting surface, it

 1. The hencestary to have attuctural supports of sufficient strength under the outrigger 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. The procedure of the pro

- 3. When equipped with iton, year symmetry procedure.
 4. When equipped with extendable counterweight, the counterweight shall be fully extended before operation.
 5. Tires shall be inflated to the recommended pressure before lifting on rubber.
 6. When partial boom and hoist tackle combinations, maximum capacities may not be obtainable with standard shall familia.

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

 7. Rotation resistant wire rope is best suited for single line lifting operations. Consult the wire rope manufacturer for specific recommendations concerning multiple part reeving.

 8. Rotation resistant wire rope is best suited for single line lifting operations. Consult the wire rope manufacturer for specific recommendations concerning multiple part reeving.

 9. PERATION:

 9. Rated loads at rated radius shall not be exceeded. Do not tip the machine to determine allowable loads. For classification, weight of load must not exceed 80% of rated lifting capacities.

 9. Rated loads at rotate exceed 85% of the tipping load as determined by SAE Crane Stability Test Code 1-7658.

 9. 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.

 9. Load ratings are based on freely suspended loads. No attempt shall be made to move a load horizontally on the spround in any direction.

- 5. Rated loads do not account for wind on lifted load or boom. It is recommended when wind velocity is above 20 mpl (32 km/h), rated loads and boom lengths be appropriately reduced.

 7. 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 host less coped is not definable because of variations, in loadings and crane the later of th