

## GROYE

# 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°		12,000	32.5	7,700		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	

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### 23 ft. "A" FRAME JIB On Outriggers - 360° With Front Jack 1

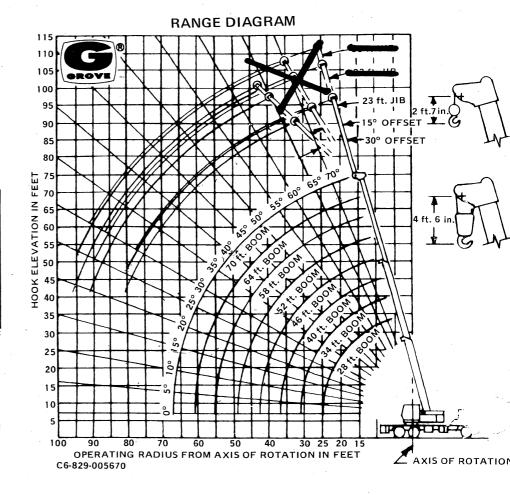
	0° OFFSET			FFSET	30° OFFS		
Вос	Rad. Ref.	Cap.	Rad. Ref.	Cap.	Rad. Ref.	ďρ.	
Angle		lbs.	ft.	lbs.	ft	lbs.	
75°	27.	12,000	32.5	7,700	<i>3</i> 5.7	5,070	
70	33.3	5,230	38.1	7,00	41.2	4,800	
65	40.2	6,116	44.9	430	47.8	4,500	
60	47.0	4,800		4,300	54.0	4,070	
55	53.2	3,700	<b>27.</b> 2	3,430	59.8	3,200	
50	59.2	2.9.20	62.9	2, 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	9	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:

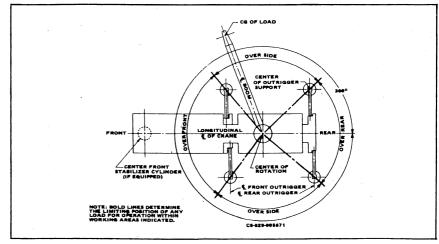
- All capacities are in pounds 23 ft. jib may be used for double line lifting service. Capacities are based on structural strength of 23 ft. jib at a given main boom angle regardless of main boom
- given main poom angle regardless of main boom length.
  WARNING: Operation of machine with heavier loads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



### TMS515

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			Main Bo	om Leng	th in Fee	rt			
in									
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	l ' l	
15	28,240	27,080	26,120	25,350	24,730	24,230			
	(51.5)	(59.5)	(65)	(69)	(72)	(74.5)	-	1 1	
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 Warning		12,410	12,410	12,410	12,410	12,410	12,410	
	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	1				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	
100		ا بــــــــــــــــــــــــــــــــــــ						(15.5)	
Min. boom angle (deg.) for indicated length (no load)						0			
Max. boom length (ft.) at 0 deg. boom angle (no load)						70			

### OVER REAR - With or Without Front Jack

Radius	ľ	Main Boom Length in Feet								
Feet	28	34	40	46	5:2	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				
	(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		
			(20)	(36.5)	(45.5)	(51.5)	(56.5)	(60)		
40				8,480	8,480	8,480	8,480	8,48		
		l		(23)	(36.5)	(45)	(50.5)	(55)		
45					6,830	6,830	6,830	6,83		
		L			(25)	(37)	(44.5)	(49.5)		
50						5,720	5,720	5,72		
						(26.5)	(37)	(43.5)		
55	l						4,780	4,78		
							(28)	(37)		
60							3,940	3,94		
					<u> </u>		(13)	(28.5)		
65		i					l .	3,28		
	L			L				(15.5)		
Min. boom angle (deg.) for indicated length (no load)							0			

NOTE: Boom angles are in degrees

5. 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.
6. Rated loads are for lift crane service only.
7. Rated loads are for lift crane service only.
8. The maximum load which can be telescoped is not definable because of variations in loadings and crane maintenance, but it is asfe to attempt retraction and extension within the limits of the capacity chart.
9. When either boom length or radius or both are between values listed, the smallest load shown at either the next maintenance, but it is asfe to attempt retraction and extension within the limits of the capacity chart.
9. When either boom length or radius or both are between values listed, the smallest load shown at either the next provided of the control of the control

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disgram.

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

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

### 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 file or boom extensions supplied with this crane, do not substitute jibs or boom extensions.

2. This operation and provide of Grove Mfg. Co.

3. The operation and supplied with this crane, do not substitute jibs or maintained. Operation and maintenance shall be in compliance with the intromation in the Operator's and Safety Handbooks, Saviles and Parts Manuals supplied with this crane. If these manuals are missing, order replacements from the manufacture and Parts Manuals supplied with this crane. If these manuals are missing, order replacements from the manufacture with the latest applicable American National Standards Institute (ANSI) Safety Standards for cranes.

SETUP:

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- SETUP: Trans shall be leveled on a firm supporting surface. Depending on the nature of the supporting surface, it is a concessary to have structured supports of sufficient strength under the outlyiger floats or tires to spread the load to a larger bearing surface. It is a support of the sup

- J. When equipped with itun, year symmetry 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.
   When partial boom and holst tackle combinations, maximum capacities may not be obtainable with standard shall familia.
- 6. With certain boom and hold lackie 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 reviews.

  8. Rotation resistant wire rope manufacturer for specific recommendations concerning multiple part reviews.

  9. Recommendation concerning multiple part reviews.

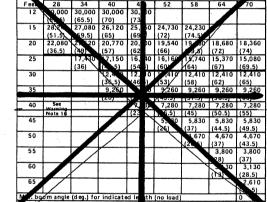
  9. Recommendation concerning multiple part reviews.

  9. Recommendation concerning multiple recommendations.

  9. Rated loads at rated radius shall not be exceeded 80% of rated lifting capacities.

  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 small be made to move a load horizontally on the ground in any direction.



ax boom length (ft.) at 0 deg. boom ingle (no load)

Main Boom Length in Feet