40 TON CAPACITY

34 ft. - 136 ft. BOOM

(POWER PINNED FLY) PCSA CLASS 10-192 85% OF TIPPING

FULL HYDRAULIC TIF-PRIPFIIFII IKA

ATED LIFTING CAPACITIES IN POUNDS 36 ft. - 136 ft. BOOM

21.00×25 TIRES

Radius	Stationary Capacity	Stationary Capacity	Pick&Carry Cap. Up to 2.5MPH				
in Feet	Defined Arc (3) Over Front	360 Degree Arc	Boom Centered (7) Over Front				
10	54,800 (a)	42,500 (a)	51,820 (a)				
12	49,400 (a)	37,200 (a)	45,230 (a)				
15	43,100 (a)	28,310 (a)	36,370 (a)				
20	33,200 (a)	17,850 (b)	29,300 (a)				
25	23,210 (b)	10,980 (c)	23,210 (a)				
30	17,210 (c)	7,630 (d)	15,970 (b)				
35	12,700 (c)	5,280 (e)	12,700 (c)				
40	9,800 (d)	3,570 (f)	(b) 008,e				
45	7,530 (f)	2,270 (g)	7,530 (e)				
50	5,950 (g)	1,400 (h)	5,950 (f)				
55	4,530 (g)		4,530 (f)				
60	3,500 (h)		3,500 (g)				
65	2,550 (h)		2,550 (h)				
70	1,780 (i)		1,780 (h)				

Maximum Permissible Boom Length:

(Power Pinned Fly Retracted)

(g) 68

(a) 34 ft. (f) 62 ft.

44

(d) 50

(e) 56

A6-829-004695

ON RUBBER CAPACITIES

26.5×25 TIRES

Radius	Stationary Capacity	Stationary Capacity	Pick & Carry Cap. Up to 2.5 MPH
in	Defined Arc		Boom Centered
Feet	(3) Over Front	360° Arc	(7) Over Front
10	55,810 (a)	43,040 (a)	48,220 (a)
12	52,230 (a)	37,470 (a)	42,060 (a)
15	47,480 (a)	29,910 (a)	35,010 (a)
20	36,170 (a)	18,670 (ъ)	30,320 (a)
25	24,260 (b)	11,930 (c)	23,930 (a)
30	17,610 (c)	7,960 (d)	17,610 (b)
35	13,130 (c)	5,540 (e)	10,260 (c)
40	10,010 (d)	3,800 (f)	8,150 (d)
45	7,840 (f)	2,520 (f)	6,580 (e)
50	6,100 (g)	1,450 (h)	5,230 (e)
55	4,510 (g)		3,900 (f)
60	3,430 (h)		2,970 (g)
65	2,550 (h)		2,200 (h)
. 70	1,700 (i)		1,170 (i)

A6-829-004822

29.5×25 TIRES

Radius	Stationary Capacity	Stationary Capacity	Pick&Carry Cap. Up to 2.5MPH		
in Feet	Defined Arc (3) Over Front	360 Degree Arc	Boom Centered (7) Over Front		
10	58,980 (a)	46,600 (a)	52,100 (a)		
12	55,200 (a)	40,810 (a)	45,410 (a)		
15	50,170 (a)	30,700 (a)	37,780 (a)		
20	37,860 (a)	18,700 (b)	30,540 (a)		
25	25,780 (b)	12,530 (c)	24,310 (a)		
30	18,100 (c)	8,440 (d)	18,100 (b)		
35	13,100 (c)	5,850 (e)	11,500 (c)		
40	10,340 (d)	4,100 (f)	9,560 (d)		
45	8,010 (f)	2,600 (g)	7,750 (e)		
50	6,260 (g)	1,560 (h)	6,260 (f)		
55	4,850 (g)		4,850 (f)		
60	3,640 (h)		3,640 (g)		
65	2,680 (h)		2,680 (h)_		
70	(i) 930 (i)		1,930 (h)		

A6-829-004791A

NOTES FOR RUBBER CAPACITIES

1. Capacities are in pounds and do not exceed 85% of tipping loads as determined by test in accordance with SAE J-765.

2. Capacities are applicable to machine equipped with:

2.5 MPH Cold Inflation 85 PSI 21.00×25 (24 ply) 65 PSI 80 PSI 26.5x25 (26 ply) 50 PSI **60 PSI** 29,5x25 (22 ply)

3. Defined Arc - Over front includes ±6° on either side of longitudinal centerline of machine (ref. drawing C6-829-003529.)

Capacities are applicable only with machine on firm level surface.

5. Axle lockouts must be functioning before lifting on rubber. (Check automatic lockout system for proper functioning: refer to "Operation and Maintenance Manual" for description of a proper functioning axle lockout system.)

6. All rubber lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. See lifting capacity chart for tire used. Damaged tires are hazardous to safe operation of crane. 7. For pick and carry operation, boom must be centered over front of machine, mechanical swing

lock engaged, and load restrained from swinging. When handling loads in the structural range with capacities close to maximum ratings, travel should be reduced to creep speeds.

On rubber lifting with power pinned fly extended, boom extension, or jib is not permitted.

Creep - not over 200 feet (61 meters) of movement in any 30-minute period, and not exceeding 1 mph (1.6 kph).

		Main Boom Fly Ext.	32 ft. Ext. & 104 ft.
Front	Min. boom angle (deg.) for indicated length	0	0
(no load)	Max. boom length (ft.) at 0 deg. boom angle	104	136
360 deg.	Min. boom angle (deg.) for indicated length	51	62
(no load)	Max. boom length (ft.) at 0 deg. boom angle	68	80.5

NOTES FOR LIFTING CAPACITIES

4. Load ratings are based on freely suspended loads. No attempt shall be made to move a load horizontally on the ground 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 mph (32 km/h), rated loads and beom lengths shall be appropriately reduced.

6. Rated loads are for lift crane service only.

7. Do not operate at a radius or boom length where capacities are not listed. At these positions, the machine may overturn without any load on the book.

8. 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.

9. 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. 10. 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. 11. Power telescoping boom sections must be extended equally at all times. 12. Handling of personnel from the boom is not authorized except with equipment furnished and installed by Grove Manufacturing Company.

13. Keep load handling devices a minimum of 12 inches (30 cm) below boom head

when lowering or extending boom.

14. Loaded boom angles give an approximation of the operating radius at specified boom lengths. The boom angle before loading should be greater to account for

deflection. 15. Capacities appearing above the bold line are based on structural strength and

tipping should not be relied upon as a capacity limitation. 16. Capacities for the 34 ft. (10.3 m) boom length shall be lifted with boom fully retracted. If boom is not fully retracted, capacities shall not exceed those shown for the 38 ft. (11.6 m) boom length.

17. For boom lengths less than 104 ft. (31.7 m) with power pinned fly extended, the rated loads are determined by boom angle in the column headed by 104 ft. (31.7 m) boom (power fly extended). For boom angles not shown, use rating of next lower boom angle. For this load column, the extended power pinned operational mode is to be selected on the Krueger L.M.I.*

18. For boom lengths less than 112 ft. (34.3 m) with power pinned fly retracted and 32 ft. (9.8 m) boom extension erected, the rated loads are determined by boom angle only in the column headed by 112 ft. (34.3 m) boom (power pinned fly retracted). For this load column the retracted power pinned fly plus 32 ft. (9.8 m) boom extension operational mode is to be selected on the Krueger L.M.I.*

19. For boom lengths less than 136 ft. (41.4 m) with power pinned fly extended and 32 ft. (9.8 m) boom extension erected the rated loads are determined by boom angle only in the column headed by 136 ft. (41.4 m) boom. For boom angles not shown use rating of next lower boom angle. For this load column, the 32 ft. (9.8 m) boom extension operational mode is to be selected on the Krueger L,M.I.*

*WARNING The Krueger L.M.I. readings are accurate only if all powered boom sections are fully extended.

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.

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





ON OUTRIGGERS FULLY EXTENDED - 360°

	<u> </u>					UL.		^ ' <u>-</u> '	NDE			
Radius	77.54		,Mai	n Boom I	Length in	Feet				Power Pin, Fly	32 ft. Ext. &	32 ft. Ext. &
in	200			er Pinnec						& 81 ft.	81 ft.	104 ft.
Feet	34	38	44	50	56	62	68	74	81	104 See	112 See	See
10	80,000	73,750	69,950	68,200	63,350	6.5				Warning	Warning	Warning
	(63.5)	(67)	(70.5)	(73)	(75)	62.750				Note 17	Note 18	Note 19
12	75,000	73,750	66,700	61,600	57,150	53,750						
16	(60)	(63.5)	(67.5)	(70.5)	(73) 51,000	(75) 46,650	43,850	40,850				
15	62,000	62,000	58,050	54,000 (67)	(70) :	(72)	(74)	(75.5)				
20	(53.5) 47,300	(58.5) 47,300	(63.5) 47,300	43,950	40,550	38,000	35,700	33,100	30,000			
35 Z W	(42)	(49)	(55.5)	(60.5)	(64)	(67)	(69.5)	(715)	(74)	$f^{(k)} = 0$		
25	36,000	36,000	36,000	36,000	34,050	31,800	29,900	27,600	25,200	21,800	17,500	
100	(26)	(37.5)	(47)	(53,5)	(58)	(62)	(65)	(67)	(70)	(75.5)	(75.5)	
30	an decar	29,000	29,000	29,000	29,000	27,100	25,600	23,500	21,500	18,800	15,000	
约 [199]		(21.5)	(37)	(46)	(52)	(56.5)	(60)	(63)	(66)	(72.5)	(74)	
35	Maria et e	190	23,800	23,800	23,800	23,500	22,250	20,350	18,650	16,400	13,200	10,050
18.79%	Asset Ar	W 1	(23.5)	(37)	(45)	(50.5)	(55)	(58.5)	(62)	(69.5)	(71.5)	(75.5)
40	Sec.	1000		19,200	19,200	19,200	19,200	17,800	16,200	14,500	12,300	9,010
r. AK	Warning Note 16	200	. "	(25.5)	(37)	(44)	(49.4)	(53.5)	(58)	(66.5)	(69)	(73.5)
37 45 3,	JOS 2000	Street Bright			15,900	15,900	15,900	15,750	14,250	12,750	11,400	8,120
· PACE	26.0	10 m	200	1 1 1	(26.5)	(36.5)	(43.5)	(48.5)	(53.5)	(63.5)	(66)	(71)
50	EW.	1 1 1 1 1 1 1	1	1 1	13,150	13,150	13,150	13,150	12,600	1.1,300	10,200	7,370
18 6 33	and and the second	S. 2000		100	(8)	(27.5)	(36.5)	.(43)	(48.5)	(60.5)	(63)	(68.5)
55	福港工作	16 at 15	11	·	33-38-4	11,200	11,200	11,200	11,200	10,000	9,110	6,710
\$1.4 3.5	化物质质	A Comment	.*	1	有 1000 多	(13)	(28.5)	(36.5)	(43.5)	(57)	(60)	(66.5)
. 60	V-3040	1.50			100	- ' '	9 560	9,560	9,560	9,060	8,200	6,150
805 L		1 25/24			1		(16.5)	(29)	(37.5)	(53.5)	(57)	(64) 5,660
65	No.	100	100	:				8,000	8,000	8,150	7,400	(61.5)
0 - 16/040	440 63		1				-	(19)	(31)	7,360	(54) 6,700	5,230
70	1,334	Section 1		1.00	2 - 1			A	6,670 (22.5)	(46)	(50.5)	(59)
创作的现在分	10304 jakur	217 7		- A					(22.5)	6,660	6,120	4,850
75				i. 3	- X					(42)	(47)	(56.5)
PROMISE.	24 X 4 1 1 0	Page 1		* * - 1	- 2			· · · · ·		6,040	5,600	4,500
編80。	ALC: U	100	Congress of	1 m			1 .			(37)	(43)	(54)
Service of the	1988 - XI		117	100						5,380	5,060	4,200
85	3 3 3 5 cm	1	7 \$3.00	X21.50	1.1.4		1.1	1.		(32)	(39)	(51)
90	20 may 1		1 1 10	Process		7 8				4,450	4,500	3,900
TEL THE	体的法。	6.77		使 等分	1. 1	14				(25.5)	(34.5)	(48)
32 95 W	CONT.	3 13 17 A		No.			- 22			3,580	3,890	3,600
Springer.	The same	130		700 1	L 7		1			(17)	(29)	(45)
100	1.6	7.54	1 19								3,260	3,300
\$1855.00	727	100 V									(23.5)	(42)
105	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	27 29		7	··.	F	-				2,350	2,990
	12 17			150		l í		1.		l '	(16)	(38.5)
110	16 17 79		1.1	1		: Y				1.		2,700
18.00	17.7	1000	100			:						(34.5)
115%	May 1	24.5	1	1		N						2,420
177.5			1.7			9	1					(30)
120	1000		25			· 10					:	2,160
100	20 E	100	100	100			: '					(25)
125	11	1 1 1	1					7				1,780
1 Dir 11	7 /	100		100				1				(18.5)
		(deg.) fo					· · · ·		0	0	0	0
Max. bo	om lengt	h (ft.) at	0 degree	boom an	gle (no lo	oad)			81	104	112	136

Max. boom length (ft.) at 0 degree boom angle (no load) NOTE: Boom angles are in degrees.

104 112 136 A6-829-004814B & -002135C

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.

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. If these manuals are missing, order replacements from the manufacturer through the distributor.

3. 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.

SETUP:

1. 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 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. If machine is equipped with front jack cylinder, the front jack cylinder shall be set in accordance with written procedure. 4. If machine is 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. With certain boom and hoist tackle combinations, maximum capacities may not be obtainable with standard cable lengths.

OPERATION: 1. Rated loads at rated radius shall not be exceeded. Do not tip the machine to determine allowable loads. For clamshell or concrete bucket operation, weight

of bucket and load must not exceed 80% of rated lifting capacities. 85% of the tipping load as determined by SAE 2. Rated loads do not exceed

Crane Stability Test Code J-765a.

3. Rated loads include the weight of hook block, slings and auxiliary lifting devices and their weights shall be subtracted from the listed ratings to obtain the net load to be lifted.



40 TON CAPACITY

34 ft. - 136 ft. BOOM

(POWER PINNED FLY) PCSA CLASS 10-192

85% OF TIPPING

JIB CAPACITIES IN POUNDS

24 ft. "A" FRAME JIB

ON OUTRIGGERS - 300							
Boom Angle	5° Offset	17° Offset	30° Offset				
76°	6,000	5,200	4,600				
70	4,300	3,940	3,650				
65	3,670	3,380	3,100				
60	3,100	2,900	2,700				
55	2,600	2,500	2,400				
50	2,200	2,100	2,000				

A6-829-004883A

NOTES FOR JIB CAPACITIES

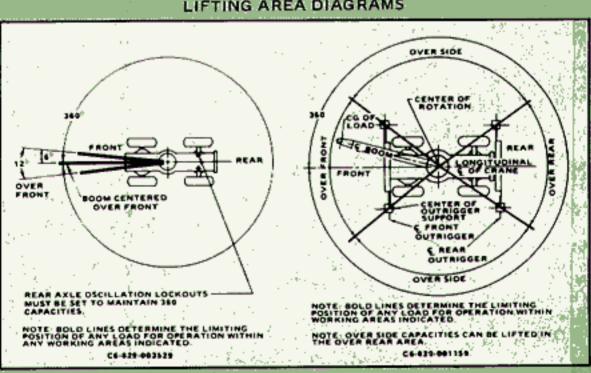
All capacities are in pounds. Capacities are based on structural strength of 24 ft. Jib and 32 ft. boom extension combination at given main boom angle regardless of main boom length. WARNING: Operation of machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with jib occurs rapidly and without

WARNING: Operation of machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with jib occurs rapidly and without advance warning.

24 FT. JIB WARNING: For main boom length greater than 80 ft. with 32 ft. boom extension and 24 ft. jib in working position, the boom angle must not be less than 45° since loss of stability will occur causing a tipping condition. The boom angle is not restricted for main boom length equal to or less than 80 ft. This warning applies for jib erection purposes also.

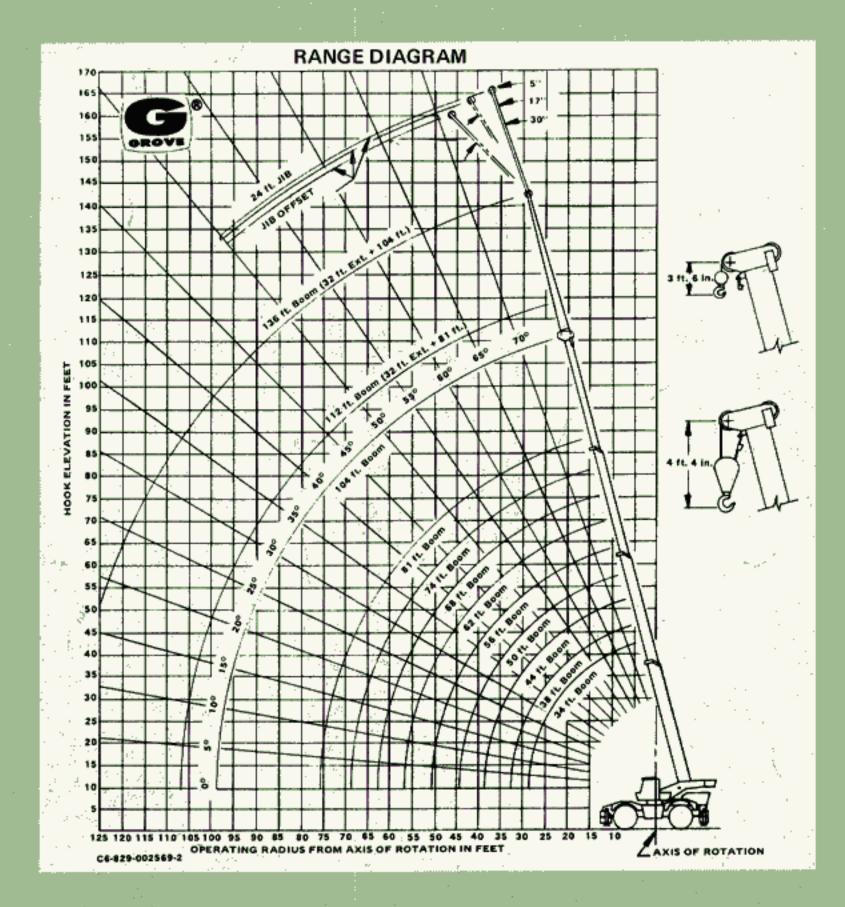
WARNING: Lifting on rubber with 32 ft. boom extension or 24 ft. jib and 32 ft. boom extension combination is prohibited.

LIFTING AREA DIAGRAMS



GROYE

RT740



WEIGHT REDUCTION FOR LOAD HANDLING DEVICES

32 ft, BOOM EXTENSION				
†Stowed -	475 lbs. 2,888 lbs.			
24 ft. Jib & 32 f	t. Boom Ext.			
Combin	ation			
†Stowed -	602 lbs.			
†Erected -	6,922 lbs.			
††Erected -	1,682 lbs.			

ŀ	HOOK BLOCKS		
ľ	40 Ton, 3 Sheave	 915 310	
	Auxiliary Boom Head	 220	lbs.
ì	5 Ton Headache Ball 7 1/2 Ton Headache Ball	 150 300	
ı	10 Ton Headache Ball	 500	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 equipment.

†Reduction of main boom capacities. ††Reduction of 32 ft, Ext. capacities.



Form No. LCERT740-136P.P.-85%

GROVE MANUFACTURING COMPANY Division of Walter Kiddle & Company, Inc. KIDDE

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