

34 ft. - 1

PCSA C (POWE

RATED LIFTIN

ON OUTRIGGERS FULLY EXTENDED - 360°

												r
Radius in			!		om Lengt ined Fly					Power Pin, Fly & 81' Main	Ext. &	32' Boom Ext. & 104' Boon
Feet	34	38	44	50	56	62	68	74	81	104	112	136
10	70,000 (63.5)	68,000 (67)	63,700 (70.5)	58,000 (73)	48,500 (75)					See Warning Note D	See Warning Note E	See Warning Note F
12	62,000 (60)	61,000 (63.5)	57,500 (67.5)	52,300 (70.5)	48,500 (73)	43,900 (75)						
15	53,000 (53.5)	52,200 (58.5)	50,200 (63.5)	45,400 (67)	42,000 (70)	39,500 (72)	36,500 (74)	35,000 (75.5)				
20	41,800 (42)	41,700 (49)	41,000 (55.5)	37,000 (60.5)	34,100 (64)	31,900 (67)	30,200 (69.5)	28,600 (71.5)	27,200 (74)			
25	30,600 (26)	30,000 (37.5)	30,000	29,600 (53.5)	28,400 (58)	26,500 (62)	25,000 (65)	23,600 (67)	22,400 (70)	19,500 (75.5)	16,300 (75.5)	
30		24,500 (21.5)	24,500 (37)	24,500 (46)	24,300 (52)	22,500 (56.5)	21,100 (60)	19,900 (63)	19,100 (66)	16,400 (72.5)	14,650 (74)	
35			19,120 (23.5)	19,120 (37)	19,120 (45)	19,120 (50.5)	18,100 (55)	17,000 (58.5)	16,000 (62)	14,000 (69.5)	12,870 (71.5)	9,600 (75.5)
40				14,650 (25.5)	14,650 (37)	14,650 (44)	14,650 (49.5)	14,650 (53.5)	(58)	12,100 (66.5)	11,470 (69)	7,700 (73.5)
45		_			11,480 (26.5)	11,480 (36.5)	11,480 (43.5)	11,480 (48.5)	11,480 (53.5)	10,500 (63.5)	10,330 (66)	6,870 (71)
50						9,200 (27.5)	9,200 (36.5)	9,200 (43)	9,200 (48.5)	9,270 (60.5)	9,390 (63)	6,220 (68.5)
55							7,330 (28.5)	7,330 (36.5)	7,330 (43.5)	8,180 (57)	8,600 (60)	5,650 (66.5)
60	' <u>-</u>						5,870 (16.5)	5,870 (29)	5,870 (37.5)	7,250 (53.5)	7,920 (57)	5,110 (64)
65								4,560 (19)	4,560 (31)	6,340 (50)	6,790 (54)	4,700 (61.5)
70									3,380 (22.5)	5,280 (46)	5,660 (50.5)	
75										4,380 (42)	4,700 (47)	4,000 (56.5)
80				_						3,620 (37)	3,880 (43)	3,690 (54)
85										2,950 (32)	3,170 (39)	3,390 (51)
90										2,370 (25.5)	2,550 (34.5)	
95										1,860 (17)	2,010 (29)	2,650 (45)
100											1,520 (23.5)	2,150 (42)
105											1,020 (16)	1,700 (38.5) 1,290
110						l						(34.5) 002135E

ON RUBBER CAPACITIES

Radius	Stationary Capacity	Stationary Capacity	2.5 MPH Capacity	Stationary Capacity 360° Arc		
in Feet	Boom Centered Over Front	Defined Arc (1)Over Front	Boom Centered (2) Over Front			
10	57,610 (a)	44,800 (a)	36,210 (a)	36,000 (a)		
12	50,450 (a)	39,130 (a)	31,420 (a)	28,300 (b)		
15	42,260 (a)	31,250 (a)	25,950 (a)	20,500 (c)		
20	29,250 (b)	25,000 (b)	19,650 (b)	11,500 (c)		
25	19,180 (c)	19,180 (c)	15,270 (c)	7,810 (c)		
30	13,720 (c)	13,720 (c)	12,190 (c)	5,000 (c)		
35	10,070 (c)	10,070 (c)	9,690 (c)	3,140 (c)		
40	7,310 (c)	7,310 (c)	6,920 (c)	1,600 (c)		
45	5.590 (c)	5 590 (c)	5.110 (c)			

6 ft. BOOM

ISS 10-147

PINNED)

· Tipping

FULL HYDRAULIC

CAPACITIES IN POUNDS

ON OUTRIGGERS FULLY EXTENDED - OVER FRONT

						/			OVL	11 1 110	ועוכ	
Radius	Main Boom Length in Feet Power Pinned Fly Retracted							Power Pin. Fly & 81' Main	Ext. &	32' Boom Ext. & 104' Boom		
Feet	34	38	44	50	56	52	68	74	81	104	112	136
10	70,000 (63. 5)	68,000 (67)	63,700 (70.5)	58,000 (73)	48,500 (75)					See Warning Note D	See Warning Note E	See Warning Note F
12	62,000	61,000	57,500	52,300	48,500	43,900		 		Note D	Note	NOTE
	(60)	(63.5)	(67.5)	(70.5)	(73)	(75)	L			ľ		
15	53,000	52,200	50,200	45,400	42,000	39,500	36,500	,				-
	(53.5)	(58.5)	(63.5)	(67)	(70)	(72)	(74)	(75.5)				
20	41,800 (42)	41,700 (49)	41,000	37,000	34,100	31,900	30,200	28,600	27,200			
25	30.600	30,000	(55.5) 30,000	(60.5) 29,600	(64) 28,400	(67) 2€,500	(69.5)	(71.5)	(74)	10.500	10.000	
-	(26)	(37.5)	(47)	(53.5)	(58)	(62)	25,000 (65)	23,600 (67)	22,400	19,500	16,300	
30	(20)	24,500	24,500	24,500	24,300	22,500	21,100	19,900	(70) 19,100	(75.5) 16.400	(75.5) 14,650	
		(21.5)	(37)	(46)	(52)	(56.5)	(60)	(63)	(66)	(72.5)	(74)	
35		`	21,200	21,200	21,000	15,400	18,100	17,000	16,000	14,000	12,870	9,600
			(23.5)	(37)	(45)	(50.5)	(55)	(58.5)	(62)	(69.5)	(71.5)	(75.5)
40				17,350	17,350	17,000	15,800	14,800	13,800	12,100	11,470	7,700
				(25.5)	(37)	(44)	(49.5)	(53.5)	(58)	(66.5)	(69)	(73.5)
45					13,760	13,760	13,760	12,900	12,000	10,500	10,330	6,870
					(26.5)	(36.5)	(43.5)	(48.5)	(53.5)	(63.5)	(66)	(71)
50	Ì					11,240	11,240	11,240	10,600	9,270	9,390	6,220
						(27.5)	(36.5)	(43)	(48.5)	(60.5)	(63)	(68.5)
55	i						9,200	9,200	9,200	8,180	8,600	5,650
60							(28.5)	(36.5)	(43.5)	(57)	(60)	(66.5)
"							7,520	7,520	7,520	7,520	7,920	5,110
65							(16.5)	(29) 6,090	(37.5) 6,090	(53.5) 6,450	7,210	(64) 4,700
				1				(19)	(31)	(50)	(54)	(61.5)
70		_						(13)	5,110	5,750	6,500	4,320
ľ	1								(22.5)	(46)	(50.5)	(59)
75										5,140	5,880	4.000
L										(42)	(47)	(56.5)
80		I	Ī							4,600	5,120	3,690
										(37)	(43)	(54)
85		ĺ	1		Ì		1		Ĭ	3,980	4,340	3,390
90					-					(32)	(39)	(51)
] 30	İ				}	I			ŀ	3,310	3,680	3,090
95										(25.5)	(34.5)	(48)
"				1		J	[- 1		2,730	3,080 (29)	2,810
100						+		+		11/1		(45) 2,500
		}	- 1		1		ľ		- 1		(23.5)	(42)
105	\neg									1	2,070	2,210
										1	(16)	(38.5)
110	T											1,940
												(34.5)
115	Ţ	Т	T	7								1,700
100												(30)
120	J	ļ]	- 1			1	Ţ	T	Ī		1,380
125												(25)
123					ļ	ŀ	ı		1	ļ		1,070
								1		l		(18.5)
A6-829-001604C & -002135 B												

A6-829-001604C & -002135B

Notes for On Outriggers

- Notes for On Outriggers

 A. Capacities do not exceed 85% of tipping as determined by test in accordance with SAE J-765.

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

 C. Do not exceed any rated load when lifting regardless of whether it is based on structural strength or stability.

 D. For boom lengths less than 104 ft. with power pinned fly extended, the rated loads are determined by boom angle only in the column headed by 104 ft. boom. For boom angles not shown, use rating of next lower boom angle.

 E. For boom lengths less than 112 ft. with power pinned fly retracted and 32 ft. boom ext. erected, the rated loads are determined by boom angle only in the column headed by 112 ft. boom. For boom angles not shown, use rating of next lower boom angle.

 For boom lengths less than 136 ft. with power pinned fly extended and 32 ft. boom ext. erected, the rated loads are determined by boom angle only in the column headed by 136 ft. boom ext. erected, the rated loads are determined by boom angle only in the column headed by 136 ft. boom. For boom lengths less than 136 ft. boom. For boom angles not shown, use rating of next lower boom angle.

 Boom angle is the included angle between horizontal and the axis of the boom base section after lifting rated load.
 - boom base section after lifting rated
- H. WARNING: For Krueger L.M.I. option-when using 32 ft. boom extension and/or power pinned fly the Krueger L.M.I. rating will apply for full boom extension (power pinned fly extended) only.

A6-829-002984

Notes for On Rubber Capacities

- (1) Defined Arc Left front track CL to right front track CL.

ble

- (2) Mechanical swing lock pin must be engaged. Chart based on 21.00x25-24 ply/26.5x25-26 ply/29.5x25-22 ply tires and 70 PSI/65 PSI/50 PSI cold inflation pressures. Loads must be reduced for lower inflation pressures.
- Capacities appearing above BOLD LINE are based on structural strength and tipping should not be relied upon as a capacity limitation. Capacities do not exceed 85% of tipping loads as determined by test in
- accordance with SAE J-765.
- Capacities are applicable with machine on a firm level surface only. 32 ft. boom extension and extended power pinned fly not permitted for on rubber lifts.



FULL HYDRAULIC

JIB CAPACITIES IN POUNDS 24 ft. JIB and 32 ft. EXT. Combination

Main	Min.		Max.
Boom	5°	17°	30°
Angle	Offset	Offset	Offset
76°	6,000	5,200	4,600
70	4,300	3,940	3,650
65	3,430	3,200	3,010
60	2,760	2,600	2,470
55	2,220	2.d-d 99-	021,02230s

Notes for Jib Capacities

- 24 ft. jib and 32 ft. ext. combination may be used for single line lifting crane service only. Capacities are based on structural strength of 24 ft. jib and 32 ft. ext. combination at given main boom angle. When lifting with 24 ft. jib and 32 ft. ext., capacities must not exceed structural capacity of jib combination at given main boom angle or stability capacity of applicable boom length listed in boom capacity chart for actual working radius, whichever is less.

 Maximum total length of boom including 32 ft. ext. for purpose of erecting 24 ft. jib below 10° is 92 ft.

 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 total boom length including 32 ft. ext. greater than 92 ft. with 24 ft. jib in working position the boom angle

- without advance warning.

 24 FT. JIB WARNING: For total boom length including 32 ft. ext. greater than 92 ft. with 24 ft. jib in working position the boom angle must not be less than 50° since loss of stability will occur causing a tipping condition.

LIFTING AREA DIAGRAMS ON OUTRIGGERS ON RUBBER OVER SIDE OVER SIDE CENTER OF CENTER OF CG OF OVER FRONT LONGITUDINAL C OF CRANE HEEL TRACK CENTER OF OUTRIGGER LÓNGITUDINAL & OF CRANE E FRONT OUTRIGGER E REAR OUTRIGGER OVER SIDE OVER SIDE NOTE: BOLD LINES DETERMINE THE LIMITING POSITION OF ANY LOAD FOR OPERATION WITHIN WORKING AREAS INDICATED. NOTE: BOLD LINES DETERMINE THE LIMITING POSITION OF ANY LOAD FOR OPERATION WITHIN ANY WORKING AREAS INDICATED.

NOTE: OVER SIDE CAPACITIES CAN BE LIFTED IN THE OVER REAR AREA.

C6-829-001158-1

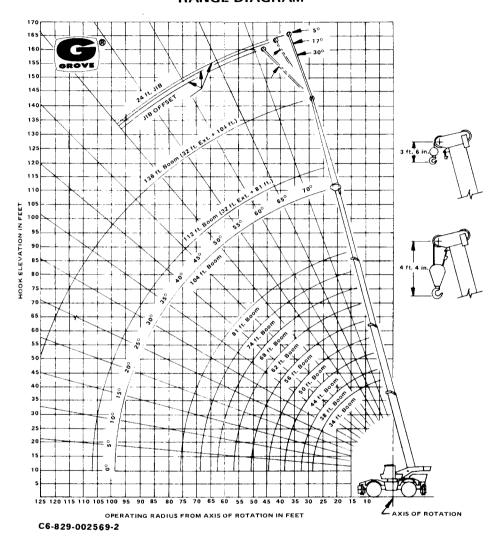
NOTE: OVER SIDE CAPACITIES CAN BE LIFTED IN THE OVER REAR AREA.

C6-829-001159-1



RT65S

RANGE DIAGRAM



Notes for Lifting Capacities

- Notes for Lifting Capacities

 1. Do not exceed any rated lifting capacity. Rated lifting capacities are based on freely suspended loads with the machine leveled and standing on a firm supporting surface. Ratings with outriggers are based on outriggers being extended to their maximum position and tires raised free of crane weight before extending the boom or lifting loads.

 2. Practical working loads for each particular job shall be established by the user depending on operating condition to include: the supporting surface, wind and other factors affecting stability, hazardous surroundings, experience of personnel, handling of load, etc. No attempt must be made to move a load horizontally on the ground in any direction.

 3. Operating radius is the horizontal distance from the axis of rotation before loading to the centerline of the vertical hoist line or tackle with loads applied.

 4. "On Rubber" lifting (if permitted) depends on proper tire inflation, capacity and condition. "On Rubber" loads may be transported at a maximum vehicle speed of 2.5 mi/hr (4 Km/hr) on a firm and level surface under conditions specified.

 5. Jibs may be used for lifting crane service only. Jib capacities are based on structural strength of jib or main boom and on main boom angle.

 6. Operation is not intended or approved for any conditions outside of those shown hereon. Handling of personnel from the boom is not authorized except with equipment furnished and installed by Grove Manufacturing Company.

 7. For clamshell or concrete bucket operation, weight of bucket and load must not exceed 80% of rated lifting capacities.

 8. Power-telescoping boom sections must be extended equally at all times. Long cantilever booms can create a tipping condition when in extended and lowered position.

 9. The maximum load which may be telescoped is limited by hydraulic pressure,

- cantilever booms can create a tipping condition when in extended and lowered position.

 9. The maximum load which may be telescoped is limited by hydraulic pressure, boom angle, boom lubrication, etc. It is safe to attempt to telescope any load within the limits of rated lifting capacity chart.

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

 11. With certain boom and load combinations, raising of load with boom lift cylinders may not be possible. Operational safety is not affected by this condition.

 12. Keep load handling devices a minimum of 12 inches (30 cm) below boom head when lowering or extending boom.

 13. If actual boom length and/or radius is between values listed, use lifting capacity for the next longer rated length and/or radius.

- for the next longer rated length and/or radius.

 14. All load handling devices and boom attachments are considered part of the load and suitable allowances must be made for their combined weights.

 15. Operation of this equipment in excess of rating charts or disregard of the instructions is hazardous and voids the warranty and manufacturer's liability.

WEIGHT REDUCTIONS FOR LOAD HANDLING DEVICES

32 ft. BOOM EXTENSION †STOWED †ERECTED 346 lbs. 2,630 lbs. 24 ft JIB & 32 ft EXT. COMB.

†ERECTED - 6,000 lbs. ††ERECTED - 950 lbs. †Reduction of main boom capacities. †Reduction of 32 ft. Ext. capacities.

HOOK BLOCK 640 lbs. 310 lbs 190 lbs. 220 lbs. 150 lbs. 500 lbs

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



GROVE MANUFACTURING COMPANY

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Printed in U.S.A. (10-79-7.5M)

Distributed by: