



TMS865 65 TON CAPACITY 36 ft. - 146 ft. BOOM (POWER PINNED FLY)

PCSA CLASS 10-252

RATED LIFTING CAPACITIES

ON OUTRIGGERS FULLY EXTENDED - 360°

Radius				in Boom er Pinner	The second second second				87 ft. Pow.Pin.	87 ft. + 32 ft.Ext. (2°Offset)	114 ft. 4 32 ft.Ext
Feet	36	44	52	60	68	76	82	87	114	119	146
10	130,000	106,700 (71.5)	101,600 (74.5)	100,000	96,700 (79)				See Warning Note 18	See Warning Note 19	See Warning Note 15
12	123,500 (63)	106,700 (68.5)	101,600	96,500 (75)	87,850 (77)	84,700 (78.5)					
15	105,000 (57.5)	105,000	95,300 (68.5)	84,900	79,180 (74.5)	77,550	70,250 (77.5)	64,500 (79)			Y
20	78,850 (47)	78,850 (56.5)	78,850 (62.5)	70,550 (66.5)	64,310 (70)	63,800 (72)	59,400 (74)	55,000 (75.5)	38,750 (80)	23,600 (79.5)	
25	60,000			60,000	54,000 (65.5)	49,700 (67.5)	47,150 (70.5)	45,600 (72)	34,000	21,300	22,500
30		46,570 (38)	46,570 (48.5)	46,570 (55.5)	46,570 (60.5)	42,750 (63.5)	40,450 (66.5)	39,150 (68.5)	30,300 (74.5)	19,500 (74.5)	21,200 (78.5)
35		33,840 (24.5)	33,840 (40.5)	33,840 (49.5)	33,840 (55.5)	33,840 (58.5)	33,840 (62.5)	33,840 (65)	(71.5)	17,950 (72)	18,300
40			25,210 (30.5)	(42.5)	25,210 (50)	25,210 (54)	25,210 (58.5)	25,210 (61.5)	24,750 (69)	16,600 (69.5)	16,000
45	See Warning Note 16		20,340 (14.5)	20,340 (34.5)	20,340 (44)	20,340 (49)	20,340 (54)	20,340 (57.5)	22,650 (66)	15,500 (66.5)	14,620
50				16,250 (24)	16,250 (37.5)	16,250 (43.5)	16,250 (49.5)	16,250 (53.5)	18,580	14,500 (64)	13,730
60		1911	17		10,370 (17.5)	10,370 (30.5)	10,370 (39)	10,370 (44)	13,120 (57)	12,850 (58.5)	11,450
70			e inst				6,250 (24.5)	6,250 (33)	9,200 (50.5)	9,980 (52.5)	9,540
80								3,430	6,400	6,630	7,840
90						TRIL			4,240 (34.5)	4,480 (38.5)	5,650
100	Telini		120			1/19			2,450 (23)	2,820 (29.5)	3,910
110	7018		17	168		. 18	NEU-	5	(20)	1,390 (15.5)	2,400
120	ارضاه	(10)		Men	N ₁ ,-	No.	-RE				1,220
			r indicate					0	0	0	0
			0 degree					87	114	119	146

NOTE: Boom angles are in degrees.

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NOTES FOR LIFTING CAPACIT

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.
- 2. 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 Crane Stability Test 2. Rated loads do not exceed 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.
- 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 boom 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 hook. 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.

Rad

either t 10. For saf soft or sudden

travelin

- 11. Power 12. Handlir
- installe 13. Keep lo
- extend
- 14. Loaded
- boom a 15. Capacit
- relied u
- 16. Capacit not ful
- 17. Radii le
- 18. For bo determ extend
 - column WARN 19. For bo or retra angle o
 - boom a 32 ft. (power WARN
 - DEFINITI
 - 1. Operat surface 2. Loaded
 - the boo 3. Workin workin
 - 4. Freely cable.
 - 5. Side L



ACITY MC LY)

FULL HYDRAULIC RIER-MOUNTED CRANE

ACITIES IN POUNDS

ON OUTRIGGERS FULLY EXTENDED - OVER REAR

Sale	36 130,000	44		. 41	d Fly Ret	tracted)			Pow.Pin. FlyExt'd.	(2°Offset)	(2°Offu
Sale	130,000		52	60	68	76	82	87	114	119	146
12	(67)	106,700 (71.5)	(74.5)	(77)	96,700 (79)	William I	- 1			E	
372.55	(63)	106,700 (68.5)	(72)	96,500 (75)	87,850 (77)	84,700 (78.5)	4 8	T B	See Wa ning Note 18	See Warning Note 19	See Warnin Note 1
	105,000 (57.5)	(64)	95,300 (68.5)	84,900	79,180 (74.5)	77,550 (76)	70,250 (77.5)	64,500 (79)			
20	78,850 (47)	78,850 (56.5)	78,850 (62.5)	70,550 (66.5)	64,310 (70)	63,800 (72)	59,400	55,000 (75.5)	38,750	23,600 (79.5)	Dec.
25	60,000	60,000	60,000 (55.5)	60,000	54,000 (65.5)	49,700 (67.5)	47,150 (70.5)	45,600 (72)	34,000	21,300	22,50
30		47,900 (38)	47,900 (48.5)	47,900 (55.5)	46,650 (60.5)	42,750 (63.5)	40,450 (66.5)	39,150 (68.5)	30,300 (74.5)	19,500 (74.5)	21,200
35		38,800 (24.5)	38,800 (40.5)	38,800	38,800 (55.5)	37,300 (58.5)	35,200 (62.5)	34,050	27,250 (71.5)	17,950	18,30
40			30,080	30,080	30,080	30,080	30,080 (58.5)	29,550 (61.5)	24,750 (69)	16,600 (69.5)	16,00
45	See Warning Note 16		23,970 (14.5)	23,970 (34.5)	23,970 (44)	23,970 (49)	23,970 (54)	23,970 (57.5)		15,500 (66.5)	14,62
50	Note 10		111111	19,470 (24)	19,470 (37.5)	19,470 (43.5)	19,470 (49.5)	19,470 (53.5)	20,800	14,500	13,73
60				(2-4)	13,200 (17.5)	13,200 (30.5)	13,200		15,650	12,850	11,45
70	117		10 M		(17.5)	(50.5)	9,110 (24.5)	9,110	11,590	(58.5)	9,54
80					-		(24.5)	6,220	8,430	9,030	8,09
90				198.17		TU, US		(14)	6,000	6,470	7,08
100		1 - 1					411		4,050	4,520	5,66
110		1							(23)	(29.5) 2,870	4,080
120										(15.5)	2,820
130			-		AC.						1,720
Un b		11-15	1-11								(24)
				d length				87	114	119	146

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TING CAPACITIES

- 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.
- telescoping boom sections must be extended equally at all time
- 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

- 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 36 ft. (11.0 m) boom length shall be lifted with boom fully retracted. If boom is not fully retracted, capacities shall not exceed those shown for the 44 ft. (13.4 m) boom length.
 17. Radii less than 35 ft. or 12 m not recommended when lifting over front of machine.
 18. For boom lengths less than 114 ft. (34.6 m) with power pinned fly extended, the rated loads are determined by boom angle in the column headed by 114 ft. (34.6 m) boom (power pinned 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 LMI (opt.). WARNING: The Krueger LMI (opt.) rating will apply for full boom extension only.
 19. For boom lengths less than 146 ft. (44.3 m) and 119 ft. (36.3 m) with power pinned fly extended or retracted and 32 ft. (9.8 m) boom extension erected, the rated loads are determined by boom angle only, in the columns headed by 146 ft. (44.3 m) and 119 ft. (36.3 m) respectively. For boom angles not shown, use rating of next lower boom angle. For each of these load columns, the 32 ft. (9.8 m) boom extension operational mode is to be selected on the Krueger LMI (opt.) 32 ft. (9.8 m) boom extension operational mode is to be selected on the Krueger LMI (opt.) (power pinned fly extended or retracted). WARNING: The Krueger LMI (opt.) rating will apply for full boom with extension for power
- pinned fly (extended or retracted).
 DEFINITIONS:
- 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.
 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
- 5. Side Load: Horizontal force applied to the lifted load either on the ground or in the air.



TMS865

65 TON CAPACITY 36 ft. - 146 ft. BOOM (POWER PINNED FLY)

JIB CAPACITIES IN POUNDS 28 ft. A-frame and 32 ft. Ext. combination ON OUTRIGGERS - 360°

_	5° 0	FFSET	17° 0	FFSET	30° OFFSET		
Boom Angle	Radius (Ref) ft.	Cap. Ibs.	Radius (Ref) ft.	Cap. Ibs.	Radius (Ref) ft.	Cap. lbs.	
80°	32.6	10,000	38.1	8,450	42.3	6,430	
75	47.1	8,720	52.2	7,430	56.4	5,870	
70	61.2	7,430	65.8	6,520	70.1	5,510	
65	74.8	5,650	78.9	5,040	82.8	4,250	
60	87.8	4,510	91.4	4,210	94.9	3,700	
55	100.2	2,900	103.2	2,730	106.2	2,730	
50	111.8	1,930	114.2	1,830	116.8	1,670	
45	122.3	860	124.4	860	126.4	810	

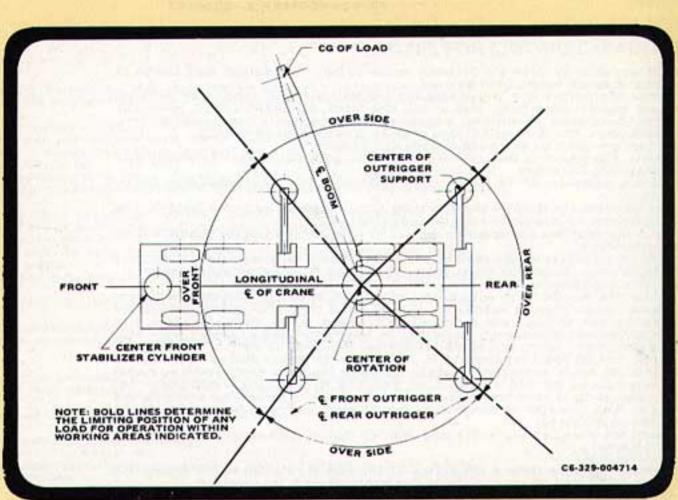
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NOTES:

NOTES:
 All capacities are in pounds. Capacities are based on structural strength of 28 ft. and 32 ft. boom extension combination at given main boom angle regardless of main boom length. (Two part lifting service is required with Krueger LMI; at any other time, single or two part line may be used.)
 WARNING: Operation of machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with jib occurs rapidly and without advance warning.
 28 ft. JIB WARNING: For main boom length (Boom length with Power Pinned fly extended) greater than 69 ft. with 32 ft. boom extension and 28 ft. jib in working position, the boom angle must not be less than 40° since loss of stability will occur causing a tipping condition. The boom angle is not restricted for main boom length (Boom length with Power Pinned fly extended.) equal to or less than 69 ft. This warning applies for jib erection purposes also.
 WARNING: Lifting on rubber with 32 ft. boom extension or 28 ft. jib and 32 ft. boom extension combination is prohibited.
 Reference radii listed are for fully extended main boom only.

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

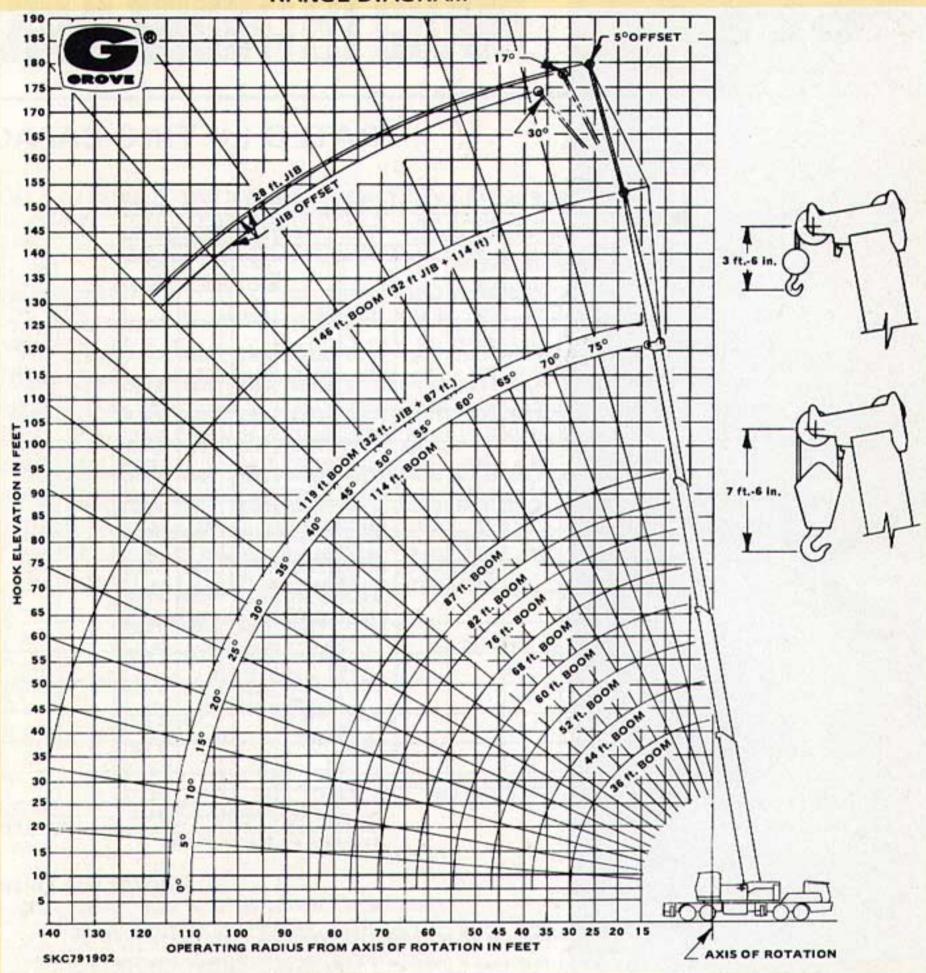
LIFTING AREA DIAGRAM





TMS865

RANGE DIAGRAM



WEIGHT REDUCTION FOR LOAD HANDLING DEVICES

32 ft. BOOM	1 E	XTENSION
†Stowed †Erected		386 lbs. 3,312 lbs.
28 ft. Jib &	32	ft. Boom Ext.
Comb	oina	tion
†Stowed		649 lbs.
†Erected	-	9,396 lbs.

HOOK BLOCK 1,900 lbs. 65 Ton, 5 Sheave 15 Ton, 1 Sheave . . . 10 Ton Headache Ball . 580 lbs. 500 lbs. 71/2 Ton Headache Ball . 300 lbs. Auxiliary Boom Head 220 lbs.

Handling NOTE: All Load 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.

††Erected



GROVE MANUFACTURING COMPANY Division of Walter Kidde & Company Inc.

KIDDE

2,111 lbs.

Box 21, Shady Grove, Pennsylvania 17256

Form No. LCETMS865-146-P.P.-85%

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