

LOAD CHARTS RT890E

METRIC DIN / ISO / 75%

> 232729 SERIAL NUMBER

RT890E - S/N 232729 2

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NOTES FOR LIFTING CAPACITIES

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 and Safety Handbook, Service Manual, and Parts Manual 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 machine shall fully acquaint themselves with the latest American National Safety Standards (ASME/ANSI) for cranes.

SETUP:

- 1. The machine shall be level and 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.
- For outrigger operation, all outriggers shall be properly extended with tires raised free of crane weight before operating the boom or lifting loads.
- When machine is equipped with center front stabilizer, the front stabilizer shall be set in accordance with instructions in Operator's & Safety Handbook.
- 4. When equipped with removable and/or extendible counterweight, the proper counterweight shall be installed and fully extended before and during 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.
- 7. Unless approved by the crane manufacturer, do not travel with boom extension or jib erected. Refer to Operator's and Safety Handbook for job-site travel information.

OPERATION:

- 1. Rated loads at rated radius shall not be exceeded. Do not attempt to tip the machine to determine allowable loads. For clamshell, grapple, magnet or concrete bucket operation, weight of component and load must not exceed 80% of rated lifting capacities.
- 2. The crane's stability was determined in compliance with ISO 4305-1991 and EN 13000-2004, and also complies with DIN 15019.2 and British Standard 1757:1986 Clause 9. 0.1A represents one-tenth (0.10) of the total boom weight reduced to the boom point. The mechanical strength capacities comply with DIN 15018.3. Capacities also do not exceed 75% stability.
- 3. Rated loads include the weight of hookblock, slings and auxiliary lifting devices and their weights shall be subtracted from the listed rating to obtain the net load to be lifted. When more than the minimum required parts of line needed to pick the load are used, the additional rope weight as measured from the lower sheaves of the the main boom nose shall be considered part of the load to be lifted. When both the hook block and headache ball are reeved, the lifting device that is NOT in use, including the line as measured from the lower sheave(s) of the nose supporting the unused device shall be considered part of the load.
- 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. The maximum in-service wind speed is 32 km/h. It is recommended when wind velocity is above 32 km/h, rated loads and boom lengths shall be appropriately reduced. For machines not in-service, the main boom should be retracted and lowered with swing brake set in wind velocities over 48 km/h.
- 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 of the boom within the limits of the capacity chart.
- 9. When the boom length or lift radius or both are between values listed, the smallest load shown at either the next larger radius or next longer or shorter 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, experience of personnel, two machine (tandem) lifts, traveling with loads, electric wires, obstacles, hazardous conditions, etc. Side pull on boom or jib is extremely dangerous.
- 11. Regardless of counterweight and outrigger spread configuration, no deduct is required from the main boom charts for a stowed boom extension.
- 12. Never handle personnel with this machine unless the requirements of the applicable national, state, and local regulations and safety codes are met.
- 13. Keep load handling devices a minimum of 107 cm below boom head at all times.
- 14. The boom angle before loading should be greater than the loaded boom angle 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 11.4 m boom length shall be lifted with boom fully retracted. If boom is not fully retracted, capacities shall not exceed those shown for the 15.4 m boom length.
- 17. When operating in the "On Outriggers 50% Extended (5.3 m spread)" mode, the outrigger beam pins must be engaged. When operating in the "On Outriggers 0% Extended (3.15 m spread)" mode, the outrigger beams must be fully retracted. Failure to follow these precautions could result in structural damage or loss of stability of the machine.
- 18. Do not lift loads when boom is fully lowered. The Load Moment Indicator (LMI) senses pressure and will not provide warnings or lockout. The crane can become overloaded if lift cylinder(s) is fully retracted.
- 19. **WARNING:** Lifting with the 10.0 m extension base, with the 7.0 m extension fly either erected or folded along side of extension base, is strictly prohibited.
- 20. When utilizing the 10.0 17.0 m folding boom extension, with or without inserts, the main boom will sequence as follows: inner-mid 100%, then center-mid 100%, then outer-mid & fly.
- 21. The maximum outrigger pad load is 55,792 kg.

DEFINITIONS:

- 1. <u>Operating Radius</u>: 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. <u>Loaded Boom Angle</u> (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 with the rated boom length.
- 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.

WEIGHT REDUCTIONS FOR LOAD HANDLING DEVICES

10.0 m - 17.0 m FOLDING BOOM EXTENSION							
*10.0 m Extension (erected) -	1,700 kg						
*17.0 m Extension (erected) -	3,630 kg						
*22.0 m (1 insert) erected -	4,740 kg						
*27.0 m (2 inserts) erected -	5,900 kg						

*Reduction of main boom capacities (no deduct required for stowed boom extension)

AUXILIARY BOOM NOSE	60 kg				
HOOKBLOCKS and HEADACHE BALLS:					
72.6 t, 5 sheave	725 kg+				
81.6 t, 5 sheave	590 kg+				
9.1 t overhaul ball	258 kg+				

⁺Refer to rating plate for actual weight.

When lifting over boom extension, deduct total weight of all load handling devices reeved over main boom nose directly from boom extension capacity.

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.

INSTALLATION AND REMOVAL OF COUNTERWEIGHT AND AUXILIARY HOIST

RATED LIFTING CAPACITIES IN KILOGRAMS ON OUTRIGGERS FULLY EXTENDED - 360°

Radius	LMI code #0801
in Meters	Main Boom Length
	11.4 m*
3	11,794
3.5	11,794
4	11,794
4.5	11,794
5	11,794
6	11,794
7	11,794
8	11,794
9	11,794

^{*} The boom must be fully retracted.
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LINE PULLS AND REEVING INFORMATION

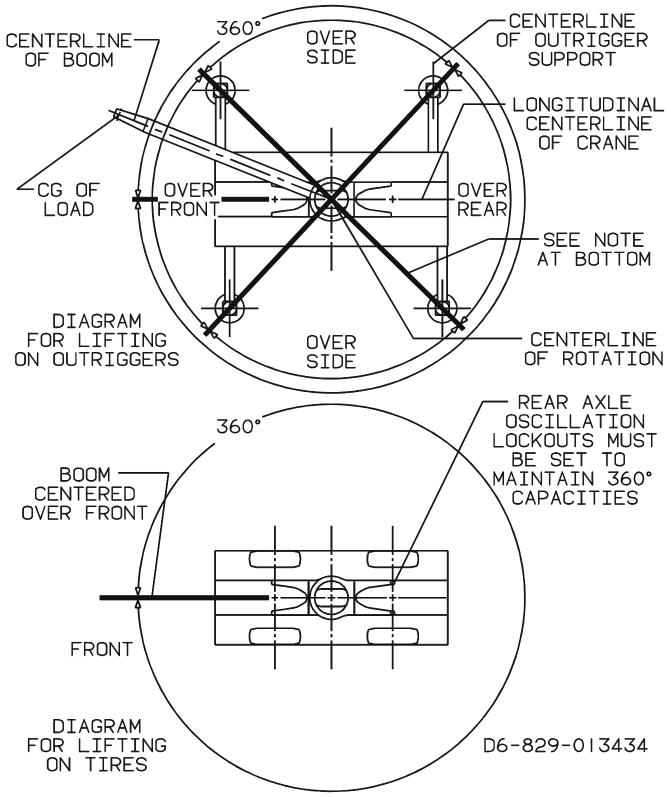
HOISTS	CABLE SPECS.	PERMISSIBLE LINE PULLS	NOMINAL CABLE LENGTH
Main	19 mm (3/4") 6x37 Class, EIPS, IWRC Special Flexible Min. Breaking Str. 26,670 kg	7,620 kg	183 m
Main & Aux.	19 mm (3/4") 35x7 Class Rotation Resistant (non-rotating) Min. Breaking Strength 38,920 kg	7,620 kg	183 m

The approximate weight of 19 mm wire rope is 2.2 kg/m

HOIST PERFORMANCE

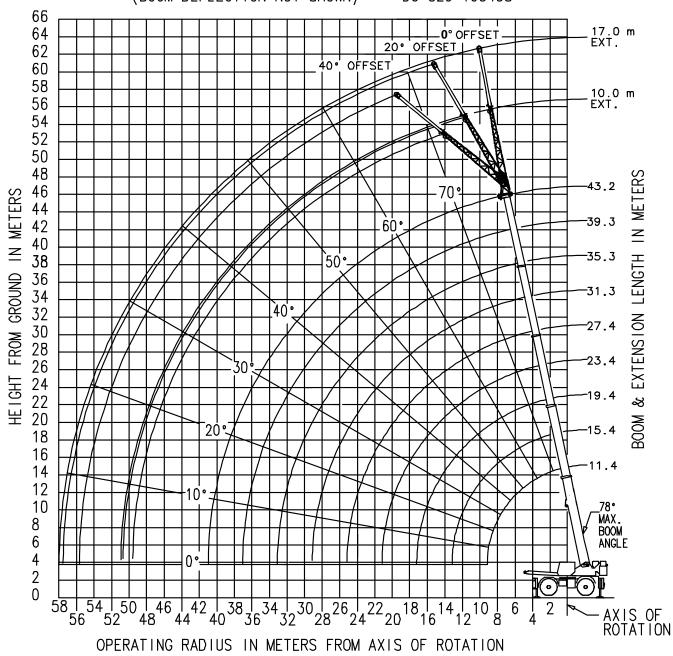
	Hoist L	ine Pulls	Drum Rope		
Wire	Two Spe	eed Hoist			
Rope Layer	Low	Capacity (m)			
Layon	Available kg* Available		Layer	Total	
1	9,185	4,359	30.8	30.8	
2	8,387	8,387 3,978		64.3	
3	7,716	3,660	36.6	100.9	
4	7,144	3,388	39.3	140.2	
5	6,650	3,157	42.4	182.6	

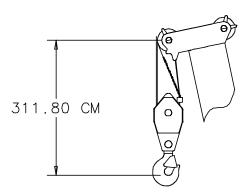
^{*}Max. lifting capacity: 6x37 & 35x7 class = 7,620 kg



BOLD LINES DETERMINE THE LIMITING POSITION OF ANY LOAD FOR OPERATION WITHIN WORKING AREAS INDICATED WORKING AREA DIAGRAM

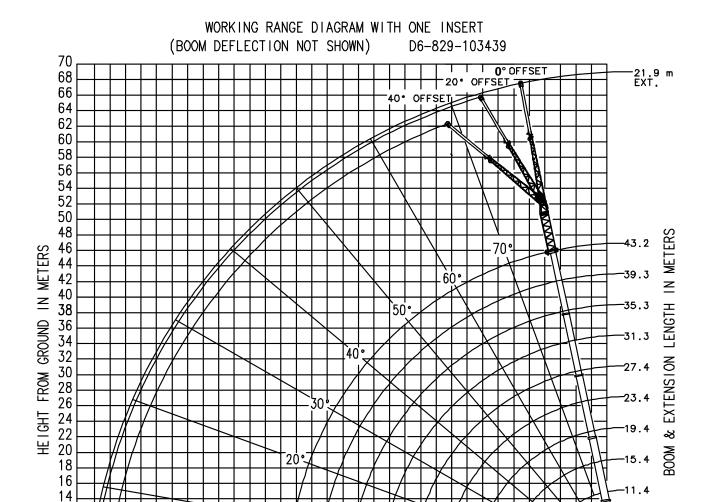
WORKING RANGE DIAGRAM WITH NO INSERTS (BOOM DEFLECTION NOT SHOWN) D6-829-103438





DIMENSIONS ARE FOR LARGEST GROVE FURNISHED HOOKBLOCK AND HEADACHE BALL, WITH ANTI-TWO BLOCK ACTIVATED.

MODE B SHOWN



·10°

0 %=

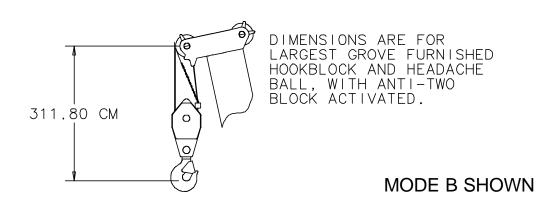
66 62 58 54 50 46 42 38 34 30 26 22 18 14 10 64 60 56 52 48 44 40 36 32 28 24 20 16 12

12

10 8

6 4

2

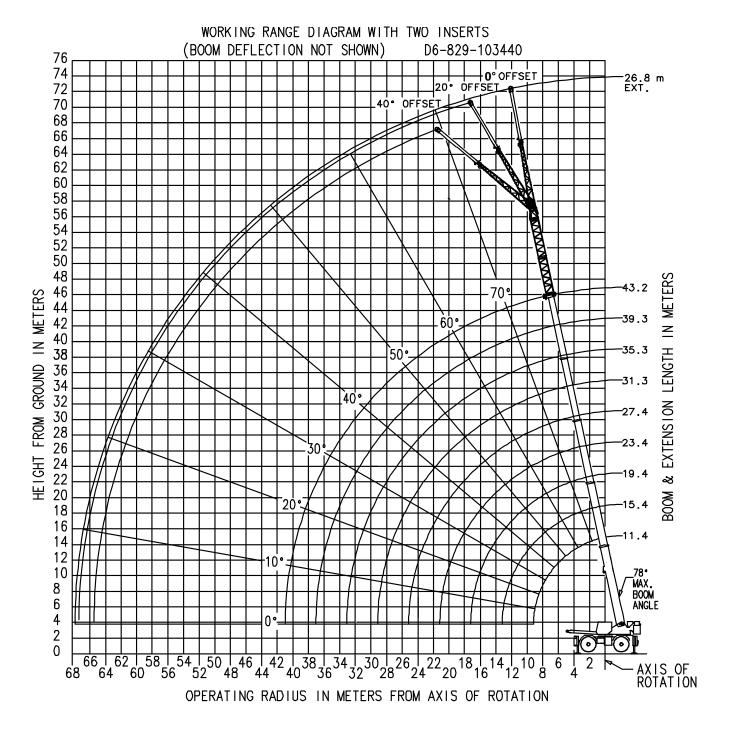


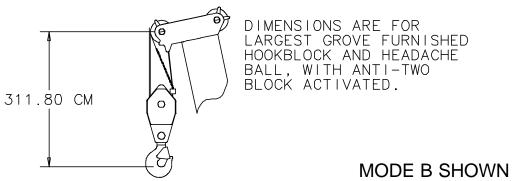
OPERATING RADIUS IN METERS FROM AXIS OF ROTATION

_78° MAX.

BOOM ANGLE

AXIS OF ROTATION





BOOM SECTION vs. SECTION EXTENSION PERCENTAGES

MODE A - Inner Mid Retracted

		Main Boom Length in Meters										
	11.4	15.4	19.3	23.3	27.3	31.2	35.2	43.2				
Boom sections:		Percent Extension										
Inner-mid	0	0	0	0	0	0	0	100				
Center-mid	0	50	100	100	100	100	100	100				
Outer-mid	0	0	0	25	50	75	100	100				
Fly	0	0	0	25	50	75	100	100				

MODE B - Normal Mode

		Main Boom Length in Meters								
	11.4	15.4	19.4	23.4	27.4	31.3	35.3	39.3	43.2	
Boom sections:		Percent Extension								
Inner-mid	0	50	75	75	100	100	100	100	100	
Center-mid	0	0	25	75	100	100	100	100	100	
Outer-mid	0	0	0	0	0	25	50	75	100	
Fly	0	0	0	0	0	25	50	75	100	

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RATED LIFTING CAPACITIES IN KILOGRAMS WITH COUNTERWEIGHT - MODE A 11.4 m - 43.2 m BOOM

ON OUTRIGGERS FULLY EXTENDED - 360°

Radius	#0001										
in			Ma	ain Boom Le	ength in Met	ers					
Meters	11.4	15.4	19.3	23.3	27.3	31.2	35.2	43.2			
3	+80,000 (69)	60,775 (75)	*36,650 (78)								
3.5	72,500 (66)	60,775 (73)	36,650 (77)								
4	66,000 (63)	59,950 (71)	36,650 (75.5)	*17,550 (78)							
4.5	59,425 (60)	58,775 (69)	36,650 (74)	17,550 (77)							
5	54,000 (57)	53,000 (67)	35,375 (72)	17,550 (76)	*17,450 (78)						
6	45,475 (50)	45,000 (62.5)	32,450 (69)	17,550 (73.5)	17,450 (76.5)	*17,400 (78)					
7	38,975 (42)	39,100 (58)	29,850 (65.5)	17,550 (70.5)	17,450 (74.5)	17,400 (77)					
8	32,375 (32.5)	31,650 (53)	27,450 (62.5)	17,550 (68)	17,450 (72)	17,300 (75)	*11,050 (78)				
9	24,550 (17)	24,975 (48)	24,875 (58.5)	17,550 (65)	17,450 (70)	17,025 (73.5)	11,050 (76)				
10		20,400 (42.5)	20,375 (55)	17,550 (62.5)	17,000 (67.5)	15,875 (71.5)	11,050 (74.5)	*8,890 (78)			
12		14,525 (27.5)	14,325 (47)	15,150 (56.5)	15,075 (62.5)	13,575 (67)	11,050 (71)	8,640 (75.5)			
14			10,625 (37.5)	11,325 (50)	12,025 (57.5)	11,800 (63)	10,850 (67.5)	8,280 (72.5)			
16	See Note 16		8,080 (24)	8,740 (42.5)	9,365 (52)	9,755 (58.5)	9,440 (63.5)	7,780 (69.5)			
18				6,825 (34)	7,435 (46.5)	7,815 (54)	8,195 (60)	6,795 (66.5)			
20				5,300 (21.5)	5,910 (39.5)	6,340 (49)	6,730 (55.5)	5,530 (63.5)			
22					4,690 (31.5)	5,120 (43.5)	5,545 (51.5)	4,500 (60.5)			
24					3,695 (20)	4,140 (37)	4,565 (46.5)	3,645 (57)			
26						3,335 (29.5)	3,755 (41.5)	2,905 (54)			
28						2,645 (19)	3,080 (35.5)	2,240 (50)			
30							2,505 (28.5)	1,680 (46.5)			
32							2,000 (18.5)	1,195 (42)			
34								775 (37.5)			
0.1A (kg)	680	705	700	630	580	540	510	590			
Minimum b	oom angle (deg.) for ind	dicated leng	th (no load)				24			
Maximum b	oom length	(m) at 0 de	g. boom an	gle (no load)			35.2			

[#]LMI operating code. Refer to LMI manual for instructions.

⁺¹¹ parts line required to lift this capacity (using aux. boom nose). Refer to Operator's & Safety Handbook for reeving diagram.

	Lifting Capacities at Zero Degree Boom Angle												
Boom		Main Boom Length in Meters											
Angle	11.4	15.4	19.3	23.3	27.3	31.2	35.2						
0°	12,475 (9.2)	7,845 (13.2)	5,030 (17.1)	3,890 (21.1)	3,040 (25)	2,340 (29)	1,780 (33)						

Note: () Reference radii in meters.

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^{*}This capacity is based upon maximum obtainable boom angle.
Note: () Boom angles are in degrees.

RATED LIFTING CAPACITIES IN KILOGRAMS WITH COUNTERWEIGHT - MODE A 11.4 m - 43.2 m BOOM

ON OUTRIGGERS 50% EXTENDED (5.3 m spread) - 360°

Radius	#4001								
in			Ma	ain Boom Le	ength in Met	ers			
Meters	11.4	15.4	19.3	23.3	27.3	31.2	35.2	43.2	
3	67,800 (69)	60,775 (75)	*36,650 (78)						
3.5	59,200 (66)	58,500 (73)	36,650 (77)						
4	52,400 (63)	51,900 (71)	36,650 (75.5)	*17,550 (78)					
4.5	46,700 (60)	46,600 (69)	36,650 (74)	17,550 (77)					
5	42,300 (57)	40,350 (67)	35,375 (72)	17,550 (76)	*17,450 (78)				
6	33,825 (50)	30,375 (62.5)	28,025 (69)	17,550 (73.5)	17,450 (76.5)	*17,400 (78)			
7	25,075 (42)	23,925 (58)	22,250 (65.5)	17,550 (70.5)	17,450 (74.5)	17,400 (77)			
8	19,150 (32.5)	18,775 (53)	18,125 (62.5)	17,550 (68)	17,450 (72)	17,300 (75)	*11,050 (78)		
9	15,075 (17)	15,150 (48)	15,050 (58.5)	15,175 (65)	15,075 (70)	14,850 (73.5)	11,050 (76)		
10		12,500 (42.5)	12,550 (55)	12,900 (62.5)	12,925 (67.5)	12,825 (71.5)	11,050 (74.5)	*8,890 (78)	
12		8,855 (27.5)	8,820 (47)	9,565 (56.5)	9,755 (62.5)	9,800 (67)	9,810 (71)	8,055 (75.5)	
14			6,220 (37.5)	7,020 (50)	7,520 (57.5)	7,650 (63)	7,740 (67.5)	6,180 (72.5)	
16	See Note 16		4,370 (24)	5,125 (42.5)	5,800 (52)	6,045 (58.5)	6,185 (63.5)	4,755 (69.5)	
18				3,700 (34)	4,355 (46.5)	4,755 (54)	4,975 (60)	3,640 (66.5)	
20				2,600 (21.5)	3,215 (39.5)	3,650 (49)	4,010 (55.5)	2,735 (63.5)	
22					2,310 (31.5)	2,760 (43.5)	3,175 (51.5)	1,995 (60.5)	
24					1,575 (20)	2,025 (37)	2,460 (46.5)	1,375 (57)	
26						1,415 (29.5)	1,855 (41.5)	845 (54)	
28						905 (19)	1,340 (35.5)		
30							905 (28.5)		
32							530 (18.5)		
0.1A (kg)	680	705	700	630	580	540	510	590	
	oom angle (,			10	48	
Maximum b	oom length	(m) at 0 de	g. boom an	gle (no load)		31	1.2	

[#]LMI operating code. Refer to LMI manual for instructions.

Note: () Boom angles are in degrees.

	Lifting Capacities at Zero Degree Boom Angle												
Boom		Main Boom Length in Meters											
Angle	11.4	15.4	19.3	23.3	27.3	31.2							
0°	12,475 (9.2)	7,300 (13.2)	3,545 (17.1)	2,100 (21.1)	1,245 (25)	675 (29)							

Note: () Reference radii in meters.

^{*}This capacity is based upon maximum obtainable boom angle.

RATED LIFTING CAPACITIES IN KILOGRAMS WITH COUNTERWEIGHT - MODE A 11.4 m - 43.2 m BOOM

ON OUTRIGGERS 0% EXTENDED (3.15 m spread) - 360°

Radius				#8	001			
in			Ma	ain Boom Le	ength in Met	ers		
Meters	11.4	15.4	19.3	23.3	27.3	31.2	35.2	43.2
3	44,750 (69)	38,575 (75)	*34,250 (78)					
3.5	36,200 (66)	31,675 (73)	28,500 (77)					
4	30,025 (63)	26,600 (71)	24,150 (75.5)	*17,550 (78)				
4.5	25,375 (60)	22,700 (69)	20,775 (74)	17,550 (77)				
5	21,800 (57)	19,650 (67)	18,050 (72)	17,550 (76)	*17,125 (78)			
6	16,600 (50)	15,050 (62.5)	13,975 (69)	13,950 (73.5)	13,700 (76.5)	*13,375 (78)		
7	12,825 (42)	11,775 (58)	11,050 (65.5)	11,225 (70.5)	11,175 (74.5)	11,025 (77)		
8	9,750 (32.5)	9,380 (53)	8,820 (62.5)	9,180 (68)	9,255 (72)	9,205 (75)	*9,135 (78)	
9	7,460 (17)	7,515 (48)	7,075 (58.5)	7,540 (65)	7,720 (70)	7,755 (73.5)	7,755 (76)	
10		6,020 (42.5)	5,680 (55)	6,205 (62.5)	6,480 (67.5)	6,570 (71.5)	6,630 (74.5)	*5,045 (78)
12		3,795 (27.5)	3,585 (47)	4,185 (56.5)	4,550 (62.5)	4,755 (67)	4,885 (71)	3,475 (75.5)
14			2,095 (37.5)	2,735 (50)	3,145 (57.5)	3,395 (63)	3,605 (67.5)	2,305 (72.5)
16			1,000 (24)	1,640 (42.5)	2,075 (52)	2,360 (58.5)	2,595 (63.5)	1,400 (69.5)
18				790 (34)	1,240 (46.5)	1,545 (54)	1,795 (60)	675 (66.5)
20					570 (39.5)	885 (49)	1,150 (55.5)	
22							620 (51.5)	
0.1A (kg)	680	705	700	630	580	540	510	590
	finimum boom angle (deg.) for indicated ength (no load)			30	37	42	48	64
Maximum b angle (no lo		(m) at 0 de	g. boom			19.3		

[#]LMI operating code. Refer to LMI manual for instructions.

Note: () Boom angles are in degrees.

	Lifting Capacities at Zero Degree Boom Angle											
Boom			Ma	ain Boom Le	ength in Met	ers						
Angle	11.4	15.4	19.3									
0°	7,085 (9.2)	2,850 (13.2)	505 (17.1)									

Note: () Reference radii in meters.

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^{*}This capacity is based upon maximum obtainable boom angle.

ON RUBBER CAPACITIES WITH COUNTERWEIGHT - MODE A

STATIONARY CAPACITIES - 360°

Radius		#90	005		
in	M	ain Boom Le	ength in Mete	ers	
Meters	11.4	15.4	19.3	23.3	
4	17,925 (63)	18,875 (71)			
4.5	17,000 (60)	17,325 (69)	8,585 (74)	7,110 (77)	
5	14,725 (57)	14,925 (67)	8,585 (72)	7,110 (76)	
6	11,100 (50)	11,075 (62.5)	8,585 (69)	7,110 (73.5)	
7	8,330 (42)	8,370 (58)	8,240 (65.5)	7,110 (70.5)	
8	6,140 (32.5)	6,365 (53)	6,455 (62.5)	6,850 (68)	
9	4,365 (17)	4,835 (48)	4,895 (58.5)	5,515 (65)	
10		3,625 (42.5)	3,620 (55)	4,430 (62.5)	
12		1,845 (27.5)	1,885 (47)	2,625 (56.5)	
0.1A (kg)	680	705	700	630	
	m boom ang ted length (n	` '	39	46	
	boom lengtl n angle (no	` '	15	5.4	

Note: () Boom angles are in degrees.

Lifting	Lifting Capacities at Zero Degree Boom Angle									
Boom	Main Boom Length in Meters									
Angle	11.4	15.4								
0°	4,075 (9.2)	1,070 (13.2)								

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Note: () Reference radii in meters.

#LMI operating code. Refer to LMI manual for instructions.

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ON RUBBER CAPACITIES WITH COUNTERWEIGHT - MODE A (cont'd.)

PICK & CARRY CAPACITIES (UP TO 4.0 km/h) - BOOM CENTERED OVER FRONT (See note 6)

Radius		#90	006	
in	Ma	ain Boom Le	ength in Mete	ers
Meters	11.4	15.4	19.3	23.3
4	18,875 (63)	18,900 (71)		
4.5	18,875 (60)	18,900 (69)	10,150 (74)	7,110 (77)
5	18,200 (57)	18,225 (67)	10,150 (72)	7,110 (76)
6	16,575 (50)	16,675 (62.5)	10,150 (69)	7,110 (73.5)
7	14,100 (42)	14,325 (58)	10,150 (65.5)	7,110 (70.5)
8	11,800 (32.5)	12,125 (53)	10,150 (62.5)	7,110 (68)
9	9,765 (17)	10,175 (48)	10,150 (58.5)	7,110 (65)
10		8,170 (42.5)	8,335 (55)	7,110 (62.5)
12		5,370 (27.5)	5,600 (47)	6,210 (56.5)
14	•		3,765 (37.5)	4,400 (50)
16			2,455 (24)	3,090 (42.5)
0.1A (kg)	680	705	700	630
Minimum	•	(°) for indica oad)	ited length	36
Maximum		n (m) at 0° bo oad)	oom angle	19.3

Note: () Boom angles are in degrees.

Lifting Capacities at Zero Degree Boom Angle									
Boom	М	Main Boom Length in Meters							
Angle	11.4	15.4	19.3						
0°	9,350 (9.2)	4,210 (13.2)	1,870 (17.1)						

A6-829-103496A

Note: () Reference radii in meters.

#LMI operating code. Refer to LMI manual for instructions.

NOTES TO ALL RUBBER CAPACITY CHARTS:

- Capacities are in kilograms. The crane's stability was determined in compliance with ISO 4305-1991 and EN 13000-2004, and also complies with DIN 15019.2 and British Standard 1757:1986 Clause 9. Capacities also meet the requirements of 75% stability when stationary and 66 2/3% stability for pick and carry lifts on rubber.
- 2. Capacities are applicable to machines equipped with 29.5x25 (34 ply) tires at 5.2 bar cold inflation pressure.
- 3. Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
- 4. Capacities are applicable only with machine on firm level surface.
- 5. On rubber lifting with boom extensions not permitted.
- 6. 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.
- 7. Axle lockouts must be functioning when lifting on rubber.
- 8. All 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.
- 9. Creep not over 61 m of movement in any 30 minute period and not exceeding 1.6 km/h.

RATED LIFTING CAPACITIES IN KILOGRAMS WITH COUNTERWEIGHT - MODE B 11.4 m - 43.2 m BOOM

ON OUTRIGGERS FULLY EXTENDED - 360°

Dadios					#0001				
Radius in				Main Bo	om Length i	n Meters			
Meters	11.4	15.4	19.4	23.4	27.4	31.3	35.3	39.3	43.2
3	+80,000 (69)	60,775 (75)	*42,400 (78)						
3.5	72,500 (66)	60,775 (73)	41,625 (77)						
4	66,000 (63)	59,725 (71)	40,825 (75.5)						
4.5	59,425 (60)	58,200 (69)	40,100 (74)	26,775 (77.5)					
5	54,000 (57)	52,000 (67)	39,400 (72.5)	26,300 (76)	*21,125 (78)				
6	45,475 (50)	44,575 (62.5)	37,750 (69)	25,325 (73.5)	21,125 (76.5)	*17,550 (78)			
7	38,975 (42)	38,550 (58)	35,925 (66)	24,350 (70.5)	19,875 (74.5)	17,550 (76.5)			
8	32,375 (32.5)	31,000 (53.5)	28,750 (62.5)	23,350 (68)	18,500 (72)	17,450 (75)	14,225 (77)	*11,500 (78)	
9	24,550 (17)	24,250 (48.5)	23,575 (59)	22,100 (65.5)	17,125 (70)	16,725 (73)	13,950 (75.5)	11,325 (77.5)	
10		19,650 (42.5)	19,725 (55.5)	18,750 (62.5)	15,900 (67.5)	15,950 (71)	13,450 (73.5)	11,150 (76)	*8,890 (78)
12		13,725 (28)	13,600 (47)	13,650 (56.5)	12,825 (62.5)	13,125 (67)	12,500 (70)	10,600 (73)	8,640 (75.5)
14			9,835 (37.5)	9,970 (50)	9,625 (57.5)	10,025 (62.5)	10,250 (66.5)	9,760 (69.5)	8,280 (72.5)
16	See Note 16		7,145 (24.5)	7,365 (43)	7,240 (52.5)	7,770 (58.5)	8,055 (63)	8,260 (66.5)	7,780 (69.5)
18				5,445 (34)	5,270 (46.5)	5,895 (53.5)	6,380 (59)	6,625 (63)	6,795 (66.5)
20				3,980 (22.5)	3,780 (40)	4,400 (48.5)	5,010 (55)	5,330 (59.5)	5,530 (63.5)
22					2,615 (32)	3,235 (43.5)	3,845 (50.5)	4,255 (56)	4,500 (60.5)
24					1,660 (21)	2,300 (37)	2,905 (46)	3,305 (52)	3,645 (57)
26						1,530 (29.5)	2,135 (41)	2,520 (48)	2,905 (54)
28						870 (19.5)	1,490 (35)	1,870 (44)	2,240 (50)
30							940 (28)	1,315 (39)	1,680 (46.5)
32								840 (33.5)	1,195 (42)
34									775 (37.5)
0.1A (kg)	680	760	770	760	780	715	665	630	590
Minimum b	oom angle (deg.) for inc	dicated leng	th (no load)			0	0	24
Maximum b	oom length	(m) at 0 de	g. boom an	gle (no load)			39.3	

[#]LMI operating code. Refer to LMI manual for instructions.

⁺¹¹ parts line required to lift this capacity (using aux. boom nose). Refer to Operator's & Safety Handbook for reeving diagram.

	Lifting Capacities at Zero Degree Boom Angle											
Boom				Main Bo	om Length i	n Meters						
Angle	11.4	15.4	19.4	23.4	27.4	31.3						
0°	12,475 (9.2)	7,245 (13.2)	4,340 (17.2)	2,650 (21.2)	1,175 (25.2)	540 (29.1)						

Note: () Reference radii in meters.

80027330

^{*}This capacity is based upon maximum obtainable boom angle.

Note: () Boom angles are in degrees.

10.0 m - 17.0 m FOLDING BOOM EXTENSION WITH COUNTERWEIGHT - MODE B ON OUTRIGGERS FULLY EXTENDED - 360°

	1	0.0 m LENGT	Н	1	7.0 m LENGT	Н	
Radius in	0°	20°	40°	0°	20°	40°	
Meters	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	
	#0021	#0022	#0023	#0041	#0042	#0043	
12	5,200 (78)						
14	5,200 (76.5)	*5,200 (78)		3,160 (78)			
16	5,200 (74)	5,110 (77)		3,160 (77)			
18	5,100 (72)	4,920 (74.5)	4,060 (77)	3,160 (75)	*2,550 (78)		
20	4,915 (69.5)	4,745 (72)	3,975 (74.5)	3,160 (73)	2,465 (77.5)		
22	4,635 (67)	4,590 (69.5)	3,900 (72)	2,850 (71)	2,405 (75.5)		
24	3,825 (64.5)	4,350 (67.5)	3,835 (69.5)	2,850 (68.5)	2,340 (73.5)	2,050 (77)	
26	3,140 (62)	3,610 (64.5)	3,775 (67)	2,710 (66.5)	2,280 (71)	2,005 (75)	
28	2,555 (59.5)	2,975 (62)	3,295 (64.5)	2,705 (64.5)	2,275 (69)	1,965 (72.5)	
30	2,045 (57)	2,420 (59.5)	2,695 (61.5)	2,330 (62)	2,175 (66.5)	1,930 (70.5)	
32	1,600 (54)	1,935 (56.5)	2,170 (58.5)	1,890 (60)	2,125 (64.5)	1,900 (68)	
34	1,210 (51)	1,505 (53.5)	1,705 (55.5)	1,500 (57.5)	2,050 (62)	1,870 (65.5)	
36	860 (48)	1,110 (50.5)	1,270 (52.5)	1,155 (55)	1,650 (59.5)	1,845 (63)	
38	530 (45)	745 (47.5)	870 (49)	850 (52.5)	1,295 (57)	1,590 (60)	
40				570 (50)	970 (54.5)	1,200 (57)	
42					680 (51.5)	850 (54)	
44						535 (51)	
0.1 A (kg)	565	545	565	525	515	535	
Minimum boom angle (°) for indicated length (no load)	38	38	40	43	44	44	
Maximum boom length (m) at 0° boom angle (no load)		31.3		27.4			

NOTE: () Boom angles are in degrees.

A6-829-103497A

#LMI operating code. Refer to LMI manual for operating instructions.

- 1. All capacities above the bold line are based on structural strength of boom extension..
- 2. The 10.0 m and 17.0 m extension lengths may be used for single line lifting service only.
- 3. For main boom lengths less than 43.2 m with the boom extension erected, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is set up. For boom angles not shown, use rating of the next lower boom angle.
- 4. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- 5. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 6. Capacities listed are with outriggers properly extended and vertical jacks set only.
- 7. When lifting over the main boom nose with 10.0 m or 17.0 m extension erected, the outriggers must be fully extended or 50% extended (5.3 m spread).

^{*}This capacity is based upon maximum boom angle.

10.0 m - 17.0 m FOLDING BOOM EXT. WITH CWT & INSERTS - MODE B ON OUTRIGGERS FULLY EXTENDED - 360°

D 11	22.0 m (17.0) m LENGTH	+ 1 INSERT)	27.0 m (17.0	m LENGTH +	- 2 INSERTS)
Radius in	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
Meters	#0084	#0085	#0086	#0084	#0085	#0086
16	2,780 (78)					
18	2,780 (76.5)			2,150 (78)		
20	2,780 (74.5)			2,150 (77)		
22	2,780 (73)	2,345 (78)		2,150 (75.5)		
24	2,770 (71)	2,245 (76.5)		1,655 (73.5)	2,150 (78)	
26	2,475 (69)	2,210 (74.5)	1,985 (77.5)	1,640 (72)	1,780 (76)	
28	2,440 (67)	2,180 (72.5)	1,950 (75.5)	1,610 (70)	1,745 (74)	1,940 (77.5)
30	2,305 (65)	2,145 (70.5)	1,920 (73.5)	1,580 (68.5)	1,715 (72.5)	1,910 (75.5)
32	1,870 (63)	2,105 (68)	1,890 (71.5)	1,550 (66.5)	1,680 (70.5)	1,865 (73.5)
34	1,485 (61)	2,050 (66)	1,865 (69)	1,500 (64.5)	1,650 (68.5)	1,725 (71.5)
36	1,140 (58.5)	1,660 (64)	1,840 (67)	1,160 (62.5)	1,620 (66.5)	1,595 (69.5)
38	835 (56.5)	1,305 (61.5)	1,665 (64.5)	855 (60.5)	1,345 (64.5)	1,475 (67.5)
40	560 (54)	990 (59.5)	1,300 (62)	580 (58.5)	1,030 (62.5)	1,360 (65)
42		700 (57)	955 (59.5)		745 (60.5)	1,045 (63)
44			645 (57)			750 (60.5)
0.1A (kg)	525	510	530	520	505	525
Minimum boom angle (°) for indicated length (no load)	48	50	49	53	54	54
Maximum boom length (m) at 0° boom angle (no load)		23.4			23.4	

NOTE: () Boom angles are in degrees.

A6-829-103507A

#LMI operating code. Refer to LMI manual for operating instructions.

- 1. All capacities above the bold line are based on structural strength of boom extension..
- 2. The 17.0 m extension length may be used for single line lifting service only.
- 3. For main boom lengths less than 43.2 m with the boom extension erected, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is set up. For boom angles not shown, use rating of the next lower boom angle.
- 4. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- 5. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 6. When lifting over the main boom nose with 17.0 m extension erected and inserts, the outriggers must be fully extended and vertical jacks set.

RT890E - S/N 232729

RATED LIFTING CAPACITIES IN KILOGRAMS WITH COUNTERWEIGHT - MODE B 11.4 m - 43.2 m BOOM

ON OUTRIGGERS 50% EXTENDED (5.3 m spread) - 360°

Radius					#4001				
in				Main Bo	om Length i	n Meters			
Meters	11.4	15.4	19.4	23.4	27.4	31.3	35.3	39.3	43.2
3	67,800 (69)	60,775 (75)	*42,400 (78)						
3.5	59,200 (66)	58,000 (73)	41,625 (77)						
4	52,400 (63)	51,100 (71)	40,825 (75.5)						
4.5	46,700 (60)	46,000 (69)	40,100 (74)	26,775 (77.5)					
5	42,300 (57)	39,050 (67)	35,225 (72.5)	26,300 (76)	*21,125 (78)				
6	33,825 (50)	29,225 (62.5)	26,700 (69)	24,900 (73.5)	21,125 (76.5)	*17,550 (78)			
7	25,075 (42)	22,875 (58)	21,025 (66)	19,750 (70.5)	18,300 (74.5)	17,550 (76.5)	ī		
8	19,150 (32.5)	18,375 (53.5)	16,975 (62.5)	16,050 (68)	14,900 (72)	14,950 (75)	14,225 (77)	*11,500 (78)	
9	15,075 (17)	14,675 (48.5)	13,950 (59)	13,225 (65.5)	12,275 (70)	12,475 (73)	12,500 (75.5)	11,325 (77.5)	•
10		11,900 (42.5)	11,600 (55.5)	11,025 (62.5)	10,225 (67.5)	10,525 (71)	10,625 (73.5)	10,650 (76)	*8,890 (78)
12		8,025 (28)	8,080 (47)	7,795 (56.5)	7,170 (62.5)	7,590 (67)	7,825 (70)	7,980 (73)	8,055 (75.5)
14			5,395 (37.5)	5,525 (50)	5,025 (57.5)	5,510 (62.5)	5,815 (66.5)	6,035 (69.5)	6,180 (72.5)
16			3,505 (24.5)	3,765 (43)	3,405 (52.5)	3,955 (58.5)	4,305 (63)	4,570 (66.5)	4,755 (69.5)
18				2,400 (34)	2,150 (46.5)	2,740 (53.5)	3,130 (59)	3,420 (63)	3,640 (66.5)
20				1,350 (22.5)	1,150 (40)	1,755 (48.5)	2,180 (55)	2,500 (59.5)	2,735 (63.5)
22						955 (43.5)	1,390 (50.5)	1,745 (56)	1,995 (60.5)
24							735 (46)	1,095 (52)	1,375 (57)
26								550 (48)	845 (54)
0.1A (kg)	680	760	770	760	780	715	665	630	590
Minimum bo	oom angle ((deg.) for inc	dicated leng	th (no	33	39	43	46	48
Maximum b load)	oom length	(m) at 0 de	g. boom an	gle (no			23.4		

[#]LMI operating code. Refer to LMI manual for instructions.

Note: () Boom angles are in degrees

Lifting Capacities at Zero Degree Boom Angle											
Boom				Main Bo	om Length i	n Meters					
Angle	11.4	15.4	19.4	23.4							
0°	12,475 (9.2)	6,310 (13.2)	2,615 (17.2)	835 (21.2)							

Note: () Reference radii in meters.

80027331

^{*}This capacity is based upon maximum obtainable boom angle.

10.0 m - 17.0 m FOLDING BOOM EXTENSION WITH COUNTERWEIGHT - MODE B ON OUTRIGGERS 50% EXTENDED (5.3 m spread) - 360°

	1	10.0 m LENGTH 17.0 m LEI					
Radius in Meters	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET	
ivieters	#4021	#4022	#4023	#4041	#4042	#4043	
12	5,200 (78)						
14	5,200 (76.5)	*5,200 (78)		3,160 (78)			
16	4,745 (74)	5,110 (77)		3,160 (77)			
18	3,710 (72)	4,425 (74.5)	4,060 (77)	3,160 (75)	*2,550 (78)		
20	2,870 (69.5)	3,505 (72)	3,975 (74.5)	3,115 (73)	2,465 (77.5)		
22	2,175 (67)	2,740 (69.5)	3,200 (72)	2,440 (71)	2,405 (75.5)		
24	1,590 (64.5)	2,095 (67.5)	2,495 (69.5)	1,865 (68.5)	2,340 (73.5)	2,050 (77)	
26	1,090 (62)	1,540 (64.5)	1,890 (67)	1,380 (66.5)	2,150 (71)	2,005 (75)	
28	660 (59.5)	1,065 (62)	1,365 (64.5)	955 (64.5)	1,660 (69)	1,965 (72.5)	
30		650 (59.5)	910 (61.5)	585 (62)	1,225 (66.5)	1,750 (70.5)	
32			505 (58.5)		840 (64.5)	1,310 (68)	
34					500 (62)	910 (65.5)	
36						555 (63)	
0.1 A (kg)	565	545	565	525	515	535	
Minimum boom angle (°) for indicated length (no load)	54	55	56	57	58	59	
Maximum boom length (m) at 0° boom angle (no load)	23.4				19.4		

NOTE: () Boom angles are in degrees.

A6-829-103498A

#LMI operating code. Refer to LMI manual for operating instructions.

- 1. All capacities above the bold line are based on structural strength of boom extension.
- 2. The 10.0 m and 17.0 m extension lengths may be used for single line lifting service only.
- 3. For main boom lengths less than 43.2 m with the boom extension erected, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is set up. For boom angles not shown, use rating of the next lower boom angle.
- 4. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- 5. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 6. Capacities listed are with outriggers properly extended and vertical jacks set only.
- 7. When lifting over the main boom nose with 10.0 m or 17.0 m extension erected, the outriggers must be fully extended or 50% extended (5.3 m spread).

RT890E - S/N 232729 20

^{*}This capacity is based upon maximum boom angle.

RATED LIFTING CAPACITIES IN KILOGRAMS WITH COUNTERWEIGHT - MODE B 11.4 m - 43.2 m BOOM

ON OUTRIGGERS 0% EXTENDED (3.15 m spread) - 360°

Radius			#8001							
in	Main Boom Length in Meters									
Meters	11.4	15.4	19.4	23.4	27.4	31.3	35.3	39.3	43.2	
3	44,750 (69)	37,300 (75)	*32,800 (78)							
3.5	36,200 (66)	30,500 (73)	27,150 (77)							
4	30,025 (63)	25,500 (71)	22,900 (75.5)							
4.5	25,375 (60)	21,675 (69)	19,575 (74)	18,075 (77.5)						
5	21,800 (57)	18,675 (67)	16,900 (72.5)	15,700 (76)	*14,300 (78)					
6	16,600 (50)	14,125 (62.5)	12,925 (69)	12,050 (73.5)	11,000 (76.5)	*11,075 (78)				
7	12,825 (42)	10,900 (58)	10,050 (66)	9,430 (70.5)	8,580 (74.5)	8,800 (76.5)				
8	9,750 (32.5)	8,530 (53.5)	7,865 (62.5)	7,425 (68)	6,720 (72)	7,040 (75)	7,185 (77)	*7,255 (78)		
9	7,460 (17)	6,695 (48.5)	6,145 (59)	5,850 (65.5)	5,240 (70)	5,635 (73)	5,850 (75.5)	5,985 (77.5)		
10		5,240 (42.5)	4,770 (55.5)	4,555 (62.5)	4,045 (67.5)	4,485 (71)	4,750 (73.5)	4,935 (76)	*5,045 (78)	
12	See Note 16	3,020 (28)	2,710 (47)	2,580 (56.5)	2,180 (62.5)	2,725 (67)	3,055 (70)	3,300 (73)	3,475 (75.5)	
14			1,245 (37.5)	1,165 (50)	820 (57.5)	1,405 (62.5)	1,800 (66.5)	2,095 (69.5)	2,305 (72.5)	
16							820 (63)	1,155 (66.5)	1,400 (69.5)	
18									675 (66.5)	
0.1A (kg)	680	760	770	760	780	715	665	630	590	
Minimum boom angle (deg.) for indicated length (no load)		29	44	54	55	60	61	64		
	oom length angle (no lo		15.4							

[#]LMI operating code. Refer to LMI manual for instructions.

Note: () Boom angles are in degrees.

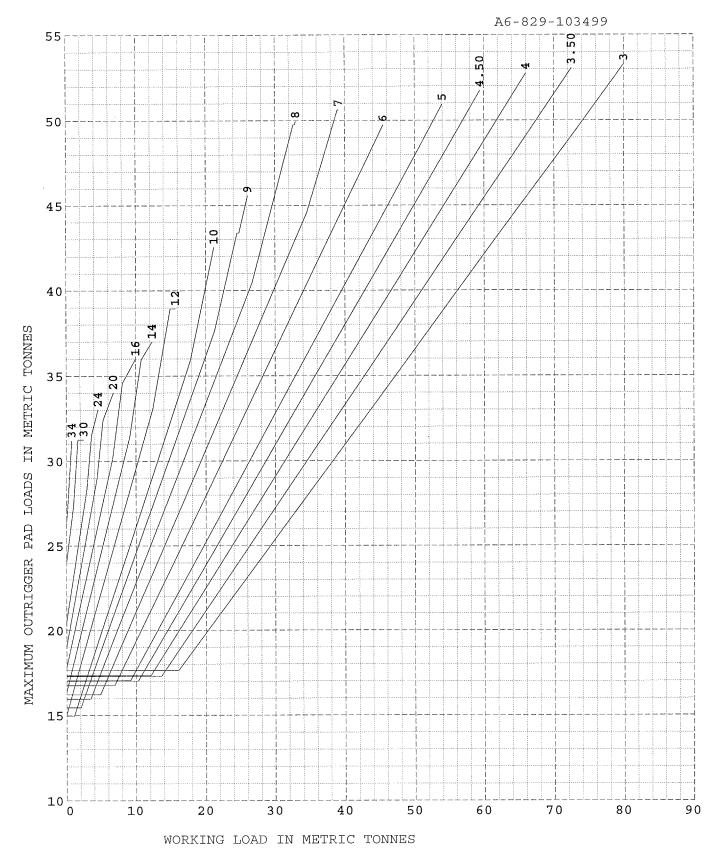
Note: () Boom digitor are in degrees.								
	Lifting Capacities at Zero Degree Boom Angle							
Boom	Main Boom Length in Meters							
Angle	11.4	15.4						
0°	7,085 (9.2)	1,965 (13.2)						

Note: () Reference radii in meters.

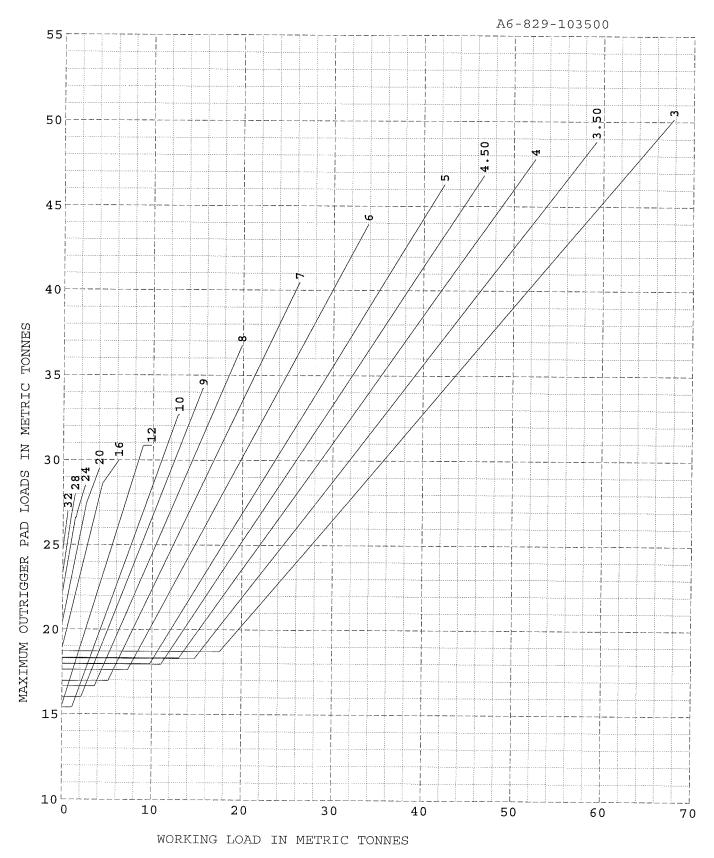
80027332

^{*}This capacity is based upon maximum obtainable boom angle.

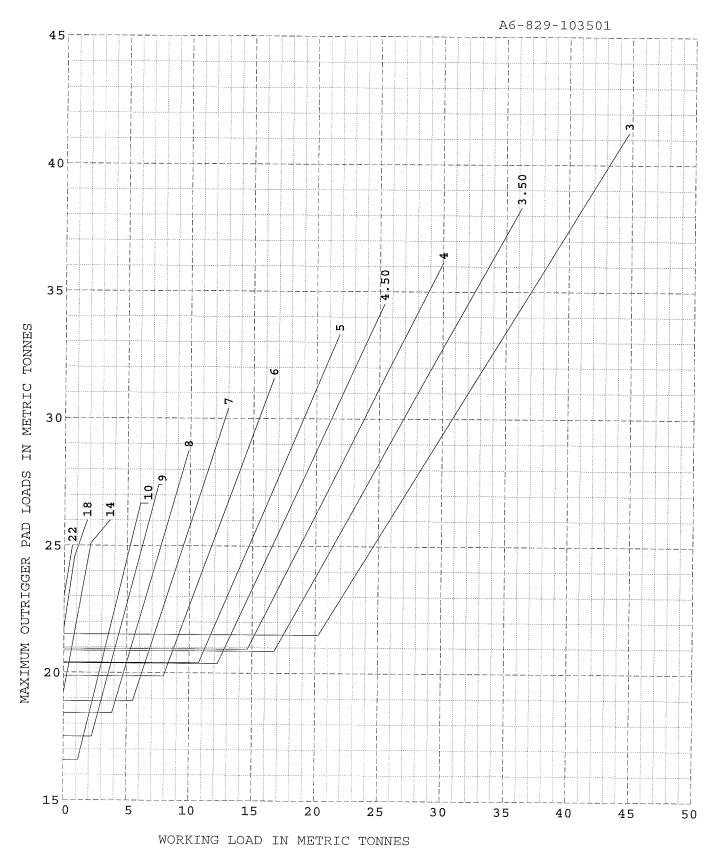
MAXIMUM OUTRIGGER PAD LOAD GRAPH FOR MAIN BOOM MODE A - 360 DEGREES 11.4m - 43.2m BOOM, DIN AND ISO 4305 LIFTING CAPACITIES ON OUTRIGGERS FULLY EXTENDED



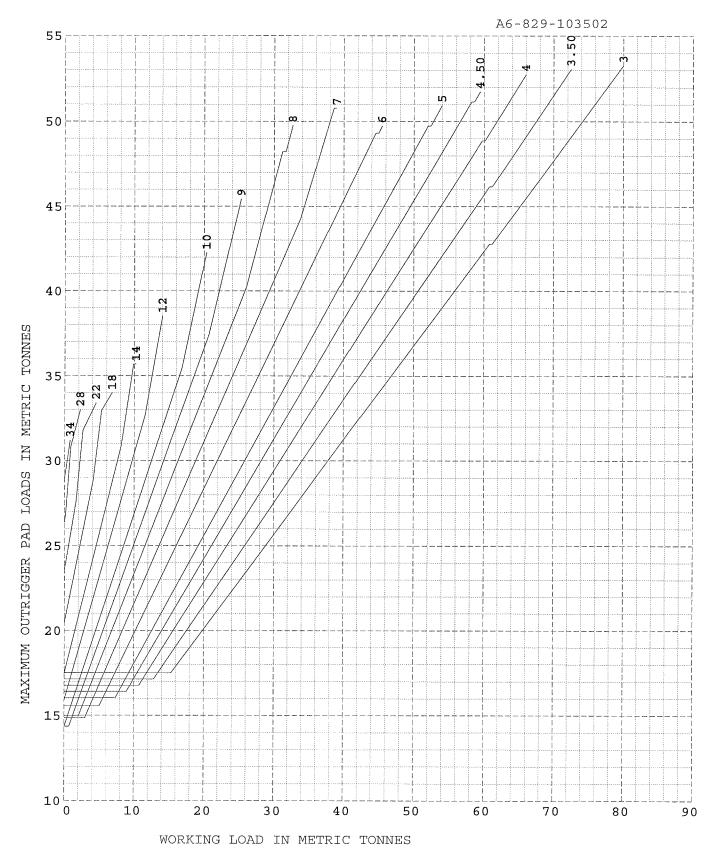
MAXIMUM OUTRIGGER PAD LOAD GRAPH FOR MAIN BOOM MODE A - 360 DEGREES 11.4m - 43.2m BOOM, DIN AND ISO 4305 LIFTING CAPACITIES ON OUTRIGGERS 50% EXTENDED



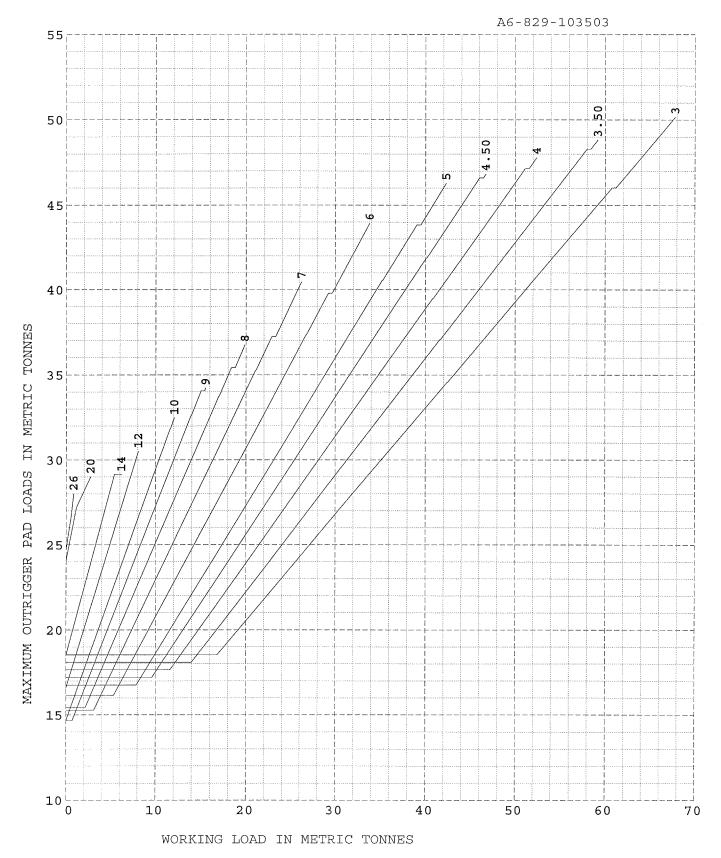
MAXIMUM OUTRIGGER PAD LOAD GRAPH FOR MAIN BOOM MODE A - 360 DEGREES 11.4m - 43.2m BOOM, DIN AND ISO 4305 LIFTING CAPACITIES ON OUTRIGGERS 0% EXTENDED



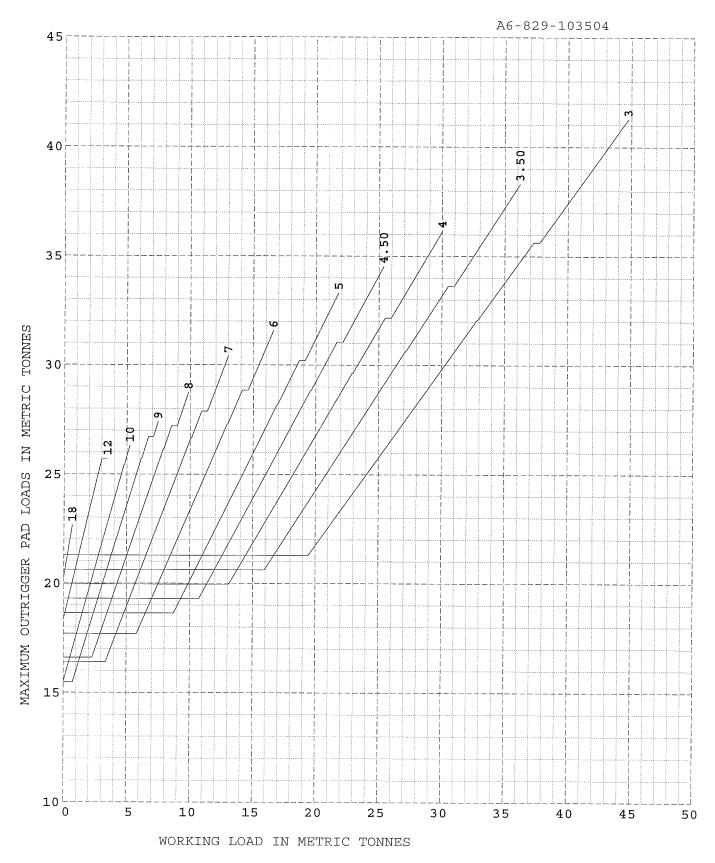
MAXIMUM OUTRIGGER PAD LOAD GRAPH FOR MAIN BOOM MODE B - 360 DEGREES 11.4m - 43.2m BOOM, DIN AND ISO 4305 LIFTING CAPACITIES ON OUTRIGGERS FULLY EXTENDED



MAXIMUM OUTRIGGER PAD LOAD GRAPH FOR MAIN BOOM MODE B - 360 DEGREES 11.4m - 43.2m BOOM, DIN AND ISO 4305 LIFTING CAPACITIES ON OUTRIGGERS 50% EXTENDED



MAXIMUM OUTRIGGER PAD LOAD GRAPH FOR MAIN BOOM MODE B - 360 DEGREES 11.4m - 43.2m BOOM, DIN AND ISO 4305 LIFTING CAPACITIES ON OUTRIGGERS 0% EXTENDED



TIRE INFLATION - PSI (BAR)					
SIZE (FRONT & REAR)	TRA CODE	LIFTING SERVICE , GENERAL TRAVEL AND EXTENDED TRAVEL			
	CODE	STATIC, CREEP & 2.5 MPH (4.0 km/h)			
29.5x25 (34)	E-3	76 (5.2)			
Michelin 29.5R25 XHA*		76 (5.2) (SEE OPERATOR'S MANUAL FOR EXTENDED ROADING)			

RT890E - S/N 232729 28