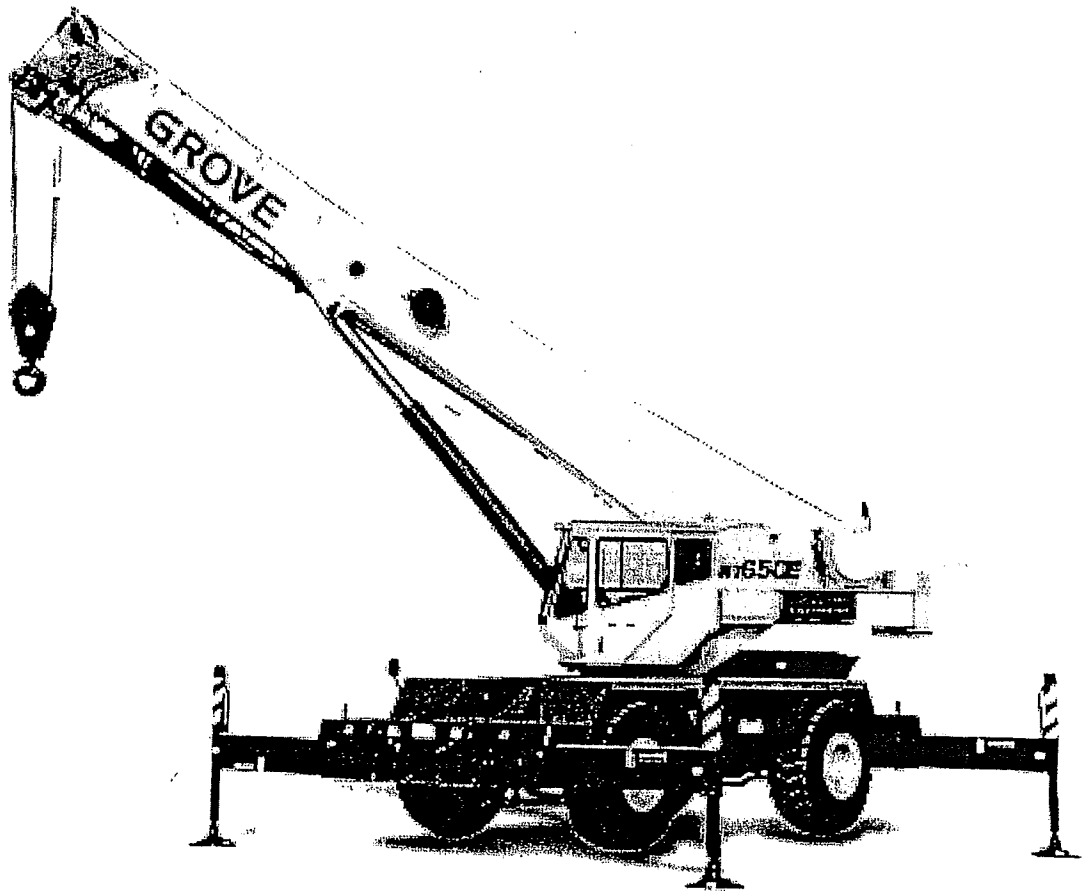


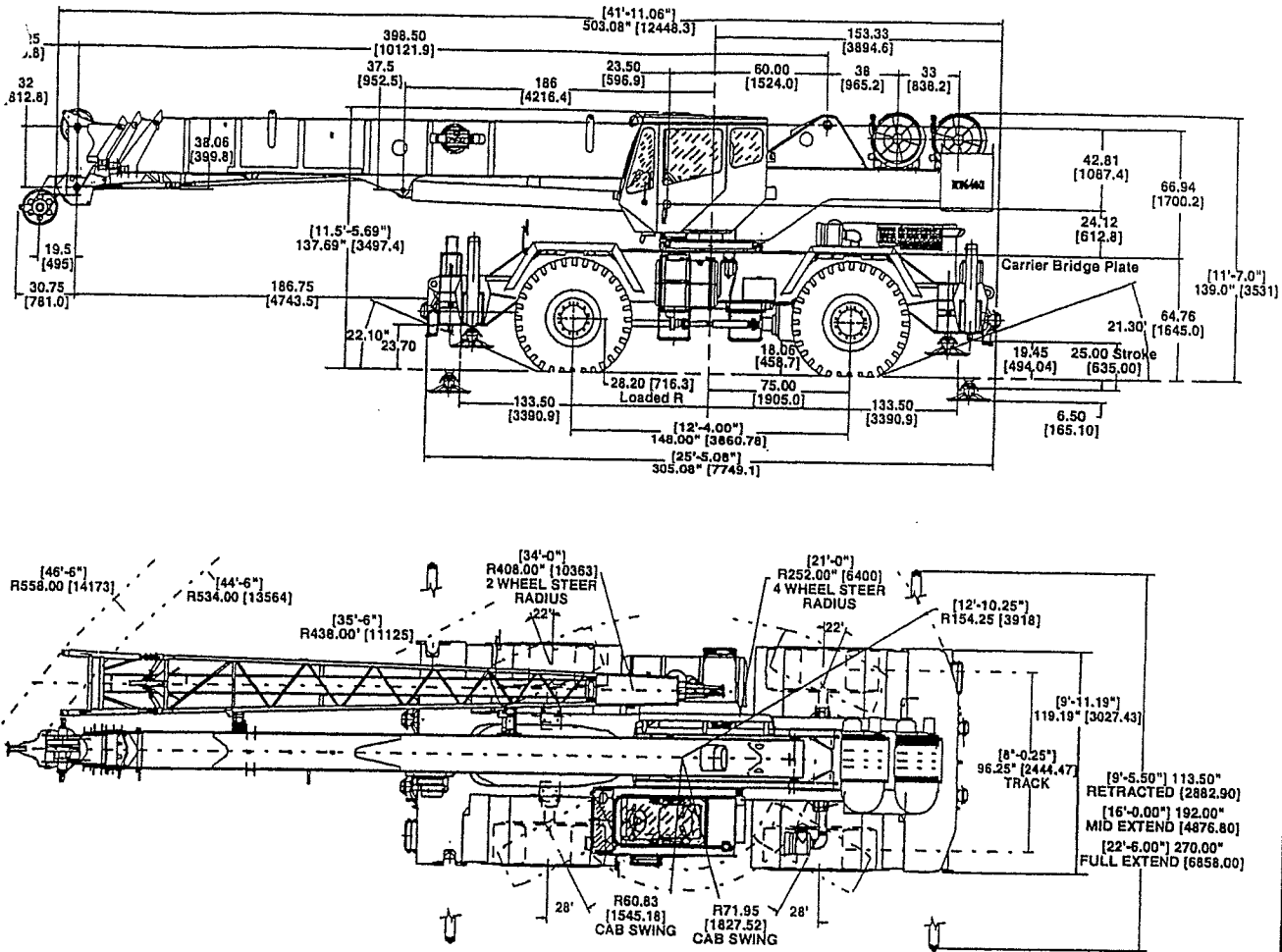
GROVE®

RT600E SERIES



**ROUGH TERRAIN
HYDRAULIC CRANE**

Dimensions



Note: () Reference dimensions in mm

Weights

	GVW		Front		Rear	
	lbs	kg	lbs	kg	lbs	kg
RT600E Basic Machine	71,084	32,244	32,602	14,788	38,482	17,455
ADD: 29 - 51 ft Tele swingaway	2,109	957	3,456	1,568	-1,347	-611
ADD: 29 ft Swingaway	1,493	677	2,506	1,137	-1,013	-459
ADD: Aux hoist w/rope	655	297	-247	-112	902	409
ADD: Aux boom nose	131	59	358	162	-227	-103
ADD: 40 ton (35mt) 3-sheave block (stowed in trough)	800	363	822	373	-22	-10
ADD: 50 ton (45mt) 3-sheave block (stowed in trough)	900	408	924	419	-24	-11
ADD: 8.3 ton (7.5mt) headache ball (hanging from aux nose)	347	157	603	274	-256	-116
Remove: Counterweight	11,250	5,103	4,570	2,073	-15,820	-7,176

Working Range



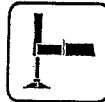
33 - 105 ft.
(10.1 - 32 m)



29 - 51 ft.
(8.8 - 15.5 m)



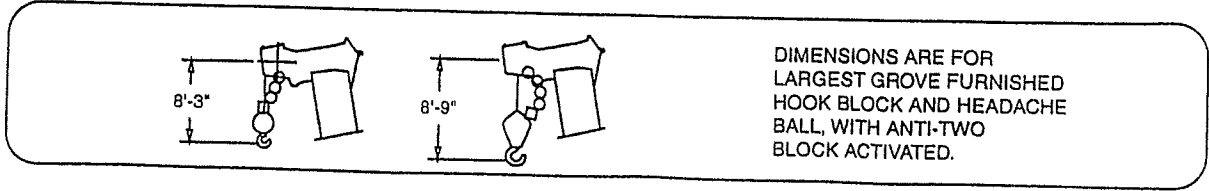
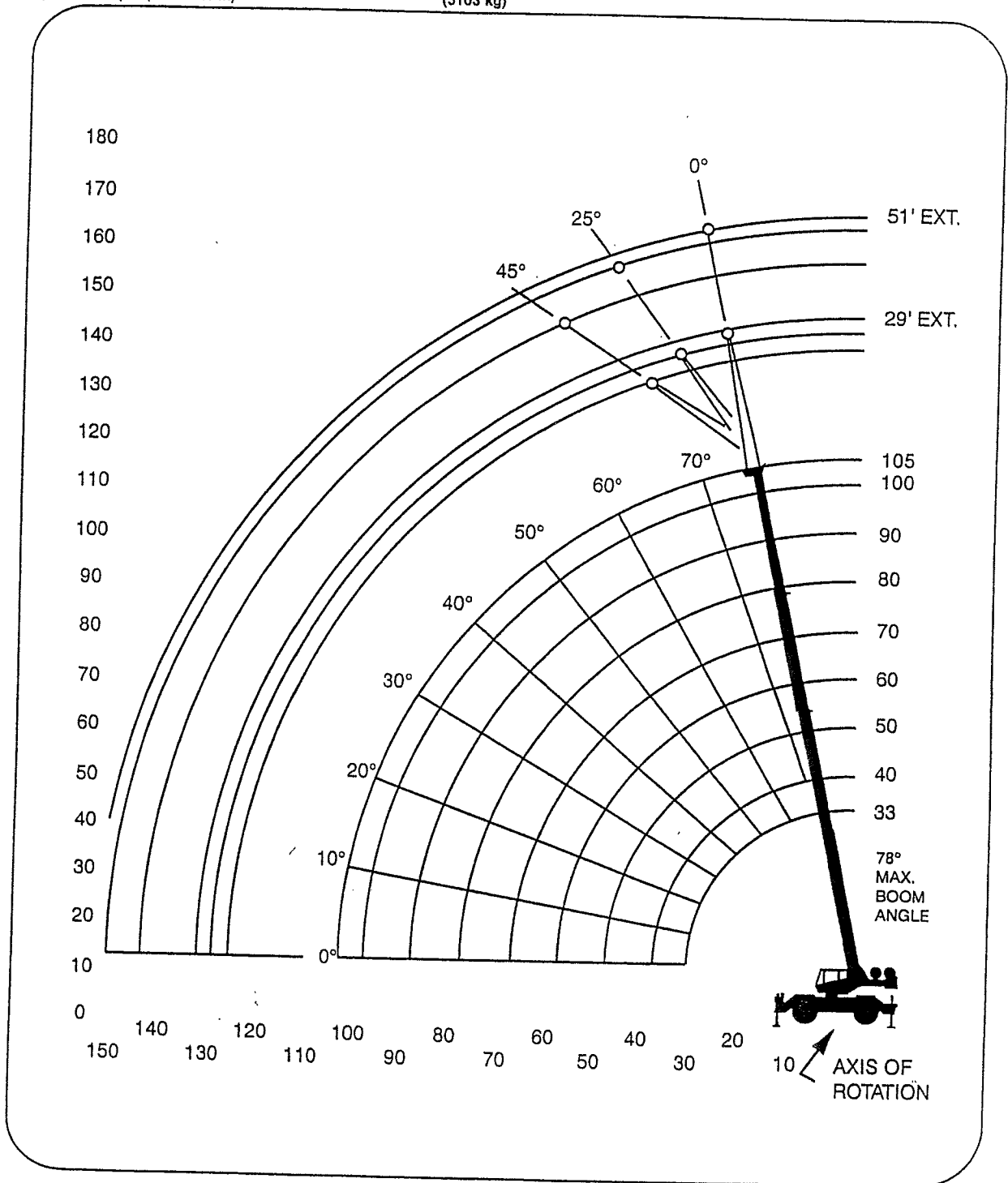
11,250 lbs.
(5103 kg)



100%



360°



RT650E RATED LIFTING CAPACITIES IN POUNDS
33 FT. - 105 FT. BOOM
ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet	#0001								
	Main Boom Length in Feet								
	33	40	50	60	70	80	90	100	105
10	100,000 (69.5)	80,550 (73.5)	67,250 (77)						
12	87,100 (65.5)	79,150 (70.5)	64,200 (75)	*56,100 (78)					
15	69,050 (59.5)	69,550 (65.5)	59,950 (71)	51,800 (75)	45,200 (77.5)				
20	50,500 (47.5)	50,950 (57)	51,400 (64.5)	44,500 (69.5)	38,550 (73)	34,450 (75.5)	*31,400 (78)		
25	38,300 (32)	38,850 (47)	39,350 (58)	39,650 (64.5)	37,100 (68.5)	29,850 (72)	27,250 (74.5)	21,000 (76.5)	18,350 (77.5)
30		30,700 (34.5)	31,200 (50.5)	31,500 (58.5)	31,700 (64)	26,350 (68)	24,100 (71)	21,000 (73.5)	18,350 (74.5)
35			25,450 (41.5)	25,750 (52.5)	26,000 (59)	23,650 (64)	21,500 (67.5)	19,150 (70)	18,350 (71.5)
40			20,850 (30.5)	21,200 (46)	21,600 (54)	21,350 (59.5)	19,400 (64)	16,650 (67)	17,300 (68.5)
45				17,100 (38)	17,350 (48.5)	17,300 (55)	17,300 (60)	14,650 (64)	15,750 (65.5)
50				13,950 (28)	14,150 (42.5)	14,200 (50.5)	14,200 (56)	13,000 (60.5)	14,300 (62.5)
55					11,700 (35)	11,750 (45.5)	11,850 (52)	11,900 (57)	12,000 (59)
60					9,730 (26)	9,870 (39.5)	9,980 (47.5)	10,100 (53.5)	10,150 (55.5)
65						8,300 (33)	8,440 (42.5)	8,600 (49.5)	8,680 (52)
70						6,960 (24.5)	7,170 (37.5)	7,340 (45.5)	7,430 (48.5)
75							6,080 (31)	6,290 (40.5)	6,390 (44.5)
80							5,130 (23)	5,380 (35.5)	5,490 (40)
85								4,580 (29.5)	4,720 (35)
90								3,880 (22)	4,020 (29)
95									3,400 (21.5)
Minimum boom angle (°) for indicated length (no load)									0
Maximum boom length (ft.) at 0° boom angle (no load)									105

NOTE: () Boom angles are in degrees.
 #LMI operating code. Refer to LMI manual for operating instructions.
 *This capacity is based on maximum boom angle.

Lifting Capacities at Zero Degree Boom Angle On Outriggers Fully Extended - 360°									
Boom Angle	Main Boom Length in Feet								
	33	40	50	60	70	80	90	100	
0°	16,250 (28.2)	12,500 (35)	8,780 (45)	6,290 (55)	4,510 (65)	3,160 (75)	2,110 (85)	1,260 (95)	

NOTE: () Reference radii in feet.

A6-829-100936

RT600E SERIES 29 FT. - 51 FT. TELE OFFSETTABLE BOOM EXTENSION ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet	**29 ft. LENGTH			51 ft. LENGTH		
	#0021	#0022	#0023	#0041	#0042	#0043
	0° OFFSET	25° OFFSET	45° OFFSET	0° OFFSET	25° OFFSET	45° OFFSET
30	*9,000 (78)					
35	9,000 (77)			*6,000 (78)		
40	9,000 (74.5)	8,000 (77.5)		6,000 (77)		
45	9,000 (72.5)	7,560 (76)	*5,660 (78)	6,000 (76)		
50	8,760 (70)	7,170 (74)	5,600 (76)	6,000 (74)		
55	8,030 (67.5)	6,820 (71.5)	5,500 (73.5)	6,000 (72)	*4,120 (78)	
60	7,380 (65)	6,500 (69)	5,300 (71)	6,000 (70)	3,900 (77)	
65	6,770 (62.5)	6,210 (66.5)	5,180 (68.5)	6,000 (68)	3,710 (75)	*2,740 (78)
70	6,210 (60)	5,950 (64)	4,890 (66)	5,620 (66)	3,530 (72.5)	2,660 (76.5)
75	5,710 (57.5)	5,710 (61.5)	4,620 (63)	5,210 (64)	3,370 (70.5)	2,580 (74)
80	5,250 (55)	5,500 (58.5)	4,370 (60.5)	4,860 (61.5)	3,220 (68.5)	2,520 (72)
85	4,790 (52)	5,300 (56)	4,100 (57.5)	4,540 (59.5)	3,080 (66)	2,460 (69.5)
90	4,090 (49)	4,650 (53)	3,820 (54)	4,260 (57)	2,960 (63.5)	2,410 (67)
95	3,480 (46)	3,960 (49.5)		4,000 (55)	2,850 (61.5)	2,360 (64.5)
100	2,930 (42.5)	3,350 (46)		3,770 (52.5)	2,750 (59)	2,330 (62)
105	2,440 (39)	2,810 (42.5)		3,360 (50)	2,660 (56)	2,300 (59)
110	2,000 (35)	2,320 (38.5)		2,910 (47.5)	2,570 (53.5)	2,280 (56)
115	1,610 (30.5)			2,500 (44.5)	2,500 (50.5)	
120	1,250 (25.5)			2,120 (41.5)	2,430 (47.5)	
125				1,780 (38.5)	2,250 (44.5)	
130				1,470 (35)	1,820 (40.5)	
135				1,180 (31)	1,420 (36.5)	
Min. boom angle for indicated length (no load)	24°	32°	45°	25°	35°	45°
Max. boom length at 0° boom angle (no load)	90 ft.			90 ft.		

NOTE: () Boom angles are in degrees.

A6-829-100845A

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

*This capacity based on maximum boom angle.

**29 ft. capacities are also applicable to fixed offsettable ext. However, the LMI codes will change to #0051, #0052 and #0053 for 0°, 25° and 45° offset, respectively.

NOTES:

1. All capacities above the bold line are based on structural strength of boom extension.
 2. 29 ft. and 51 ft. boom extension lengths may be used for single line lifting service.
 3. Radii listed are for a fully extended boom with the boom extension erected. For main boom lengths less than fully extended, 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 configured. For boom angles not shown, use the rating of the next lower boom angle.
- 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.
4. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
 5. Capacities listed are with outriggers fully extended and vertical jacks set

RT600E SERIES ON RUBBER CAPACITIES

STATIONARY CAPACITIES 360°

Radius in Feet	#9005				
	Main Boom Length in Feet				
	33	40	50	60	70
10	38,550 (69.5)	38,550 (73.5)			
12	32,550 (65.5)	32,550 (70.5)	32,550 (74.5)		
15	23,700 (59.5)	23,700 (65.5)	23,700 (71)	23,700 (75.5)	
20	14,450 (47.5)	14,450 (57)	14,450 (64.5)	14,450 (70)	14,450 (73.5)
25	9,640 (32)	9,640 (47)	9,640 (58)	9,640 (65)	9,640 (69.5)
30		6,840 (34.5)	6,840 (50)	6,840 (59)	6,840 (64.5)
35			4,850 (41.5)	4,850 (53)	4,850 (60)
40			3,450 (30.5)	3,450 (46.5)	3,450 (54.5)
45				2,410 (38.5)	2,410 (49)
50				1,610 (28.5)	1,610 (43)
Min. boom angle (°) for indicated length (no load)					30
Max. boom length (ft.) at 0° boom angle (no load)					60

NOTE: () Boom angles are in degrees.
#LMI operating code. Refer to LMI manual for operating instructions.

Lifting Capacities at Zero Degree Boom Angle On Rubber - 360°					
Boom Angle	Main Boom Length in Feet				
	33	40	50		
0°	7,580 (28.2)	4,850 (35)	2,410 (45)		

NOTE: () Reference radii in feet.

A6-829-100836A

STATIONARY CAPACITIES DEFINED ARC OVER FRONT (See Note 3)

Radius in Feet	#9005				
	Main Boom Length in Feet				
	33	40	50	60	70
10	46,600 (69.5)	40,800 (73.5)	34,600 (77)		
12	40,800 (65.5)	40,800 (70.5)	34,600 (74.5)		
15	34,000 (59.5)	34,000 (65.5)	34,000 (71)	26,650 (75.5)	21,500 (78)
20	26,050 (47.5)	26,050 (57)	26,050 (64.5)	26,050 (70)	21,500 (73.5)
25	18,200 (32)	18,200 (47)	18,200 (58)	18,200 (65)	18,200 (69.5)
30		13,100 (34.5)	13,100 (50)	13,100 (59)	13,100 (64.5)
35			10,050 (41.5)	10,050 (53)	10,050 (60)
40			7,900 (30.5)	7,900 (46.5)	7,900 (54.5)
45				6,290 (38.5)	6,290 (49)
50				5,050 (28.5)	5,050 (43)
55					4,060 (35.5)
60					3,260 (26.5)
Min. boom angle (°) for indicated length (no load)					0
Max. boom length (ft.) at 0° boom angle (no load)					70

NOTE: () Boom angles are in degrees.
#LMI operating code. Refer to LMI manual for operating instructions.

Lifting Capacities at Zero Degree Boom Angle On Rubber - Defined Arc Over Front					
Boom Angle	Main Boom Length in Feet				
	33	40	50	60	70
0°	14,550 (28.2)	10,050 (35)	6,290 (45)	4,060 (55)	2,590 (65)

NOTE: () Reference radii in feet.

A6-829-100835A

RT600E SERIES ON RUBBER CAPACITIES (cont'd.)

PICK & CARRY CAPACITIES (UP TO 2.5 MPH) -
BOOM CENTERED OVER FRONT (See note 7)

Radius in Feet	#9006				
	Main Boom Length in Feet				
	33	40	50	60	70
10	30,150 (69.5)	30,150 (73.5)	17,850 (77)		
12	30,150 (65.5)	30,150 (70.5)	17,850 (74.5)		
15	29,650 (59.5)	29,650 (65.5)	17,850 (71)	17,850 (75.5)	14,750 (78)
20	22,650 (47.5)	22,650 (57)	17,850 (64.5)	17,850 (70)	14,750 (73.5)
25	17,850 (32)	17,850 (47)	17,850 (58)	17,850 (65)	14,750 (69.5)
30		13,100 (34.5)	13,100 (50)	13,100 (59)	13,100 (64.5)
35			10,050 (41.5)	10,050 (53)	10,050 (60)
40			7,340 (30.5)	7,340 (46.5)	7,340 (54.5)
45				6,020 (38.5)	6,020 (49)
50				4,940 (28.5)	4,940 (43)
55					4,030 (35.5)
60					3,260 (26.5)
Min. boom angle (°) for indicated length (no load)					0
Max. boom length (ft.) at 0° boom angle (no load)					70

NOTE: () Boom angles are in degrees.
#LMI operating code. Refer to LMI manual for operating instructions.

Lifting Capacities at Zero Degree Boom Angle On Rubber - Pick & Carry					
Boom Angle	Main Boom Length in Feet				
	33	40	50	60	70
0°	14,550 (28.2)	10,050 (35)	6,020 (45)	4,030 (55)	2,590 (65)

NOTE: () Reference radii in feet.

A6-829-100837A

NOTES TO ALL RUBBER CAPACITY CHARTS:

- Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J765.
- Capacities are applicable to machines equipped with 23.5x25 (20 ply) tires at 85 psi cold inflation pressure.
- Defined Arc - Over front includes 6° on either side of longitudinal centerline of machine (ref. drawing C6-829-003529).
- Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
- Capacities are applicable only with machine on firm level surface.
- On rubber lifting with boom extensions not permitted.
- 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.
- Axle lockouts must be functioning when lifting on rubber.
- 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.
- Creep - not over 200 ft. of movement in any 30 minute period and not exceeding 1 mph.