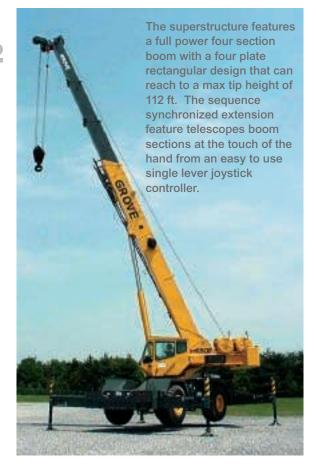
# GROVE

# RT600E









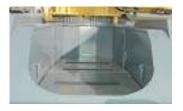


A telescopic swingaway lattice extension easily stows on the side of the base boom for easy transport. With a range of 29-51 ft. the max tip height reaches 162 ft. with a capacity of 6,000 lbs. An optional fixed lattice is also available, reaching a max height of 141 ft.

Optional full length aluminum decking is also available.







Features common to the Grove "E" Series cab include:

- hot water heater/defroster
- single axis joystick controllers
- sliding skylight and adjustable sunscreen
- engine instrumentation
- full accoustical lining

The PAT iFlex 5 graphic display LMI includes a work area definition system which allows the operator to define a preferred working area.

Large open stowage compartment for tools and rigging accessories.



The RT600E uses a 12,250 lbs. pinned-on counterweight. Cable power is provided through model HP30A grooved drum hoists with 16,800 lbs. permissible line pull. Max line speed is 588 fpm. Both the main and optional auxiliary hoists have cable capacity up to 694 ft.

# specifications

### **Superstructure**



#### AND Boom

33 ft. - 105 ft. (10.1 m - 32 m) four-section, full-power synchronized boom.

Maximum tip height: 112 ft. (34.1 m).



#### -. \*Optional Fixed Swingaway Extension

29 ft. (8.8 m) offsettable lattice swingaway extension. Offsettable at 0°, 25° and 45°. Stows alongside base boom section. Maximum tip height: 141.5 ft. (43.1 m).



# \_ \*Optional Telescopic Swingaway Extension

29 ft. - 51 ft. (8.8 m - 15.5 m) telescoping lattice swingaway extension. Offsettable at 0°, 25° and 45°. Stows alongside base boom section. Maximum tip height: 162 ft. (49.3 m).



# **Boom Nose**

Three nylatron sheaves mounted on heavy-duty tapered roller bearings with removable pin-type rope guards. Quick-reeve type boom nose.

\*Optional removable auxiliary boom nose with removable pin type rope guard.



### Boom Elevation

One double-acting hydraulic cylinder with integral holding valve provides elevation from -2° to 78°.



## Load Moment & Anti-Two Block System

Standard "Graphic Display" load moment and anti-two block system with audio-visual warning and control lever lockout. These systems provide electronic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending twoblock condition. The system defaults to 360° on rubber chart. The standard Work Area Definition System allows the operator to pre-select and define working areas. If the crane approaches the pre-set limits, audio-visual warnings aid the operator in avoiding job-site obstructions.



Full vision, all steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe seat incorporates armrestmounted hydraulic single-axis controllers. Dash panel incorporates gauges for all engine functions. Other standard features include: hot water heater/defroster, cab circulating air fan, sliding side and rear windows, sliding skylight with electric wiper and sunscreen, electric windshield wash/wipe, fire extinguisher, seat belt and circuit breakers.

# Swing

Planetary swing with foot-applied multi-disc brake. Spring applied, hydraulically-released swing brake and plunger-type, one position, mechanical house lock operated from cab. \*Optional 360° mechanical swing lock. Maximum speed: 2.5



### Counterweight

12,250 lbs. (5 556 kg) pinned to superstructure.



## **Hydraulic System**

Three main gear pumps with combined capacity of 103 GPM (391 L/min), 135 GPM (511 L/min) with optional air conditioning. Maximum operating pressure: 3500 psi (26.2 MPa)

Return line type filter with full flow by-pass protection and service indicator. Replaceable cartridge with micron filtration rating of 5/12/16. 134 gallon (509 L) reservoir. Hydraulic oil cooler. System pressure test ports. Manual hyd. pump disconnect.



### **Hoist Specifications** Main and Auxiliary Hoist: Model HP30G

Planetary reduction with automatic spring applied multi-disc brake. Grooved drum. Electronic hoist drum rotation indicator and hoist drum cable followers.

Maximum Single Line Pull: 18.180 lbs

(8 246 kg)

Maximum Single Line Speed:

588 FPM (179 m/min)

Maximum Permissible Line Pull:

16,800 lbs. (7 620 kg) w/standard 6 x 37 class rope 16,800 lbs. (7 620 kg) w/optional 35 x 7 class rope

Rope Diameter: 3/4 in. (19 mm)

Rope Length: 450 ft. (137 m)

6 x 37 Class EIPS IWRC Rope Type: Optional: 35 x 7 class rotation resistant

694 ft. (211 m) Maximum Rope Stowage:





# **specifications**

#### Carrier



# H Chassis

Box section frame fabricated from high-strength, low alloy steel. Integral outrigger housings and front/rear towing and tie down

# - Outrigger System

Four hydraulic telescoping single-stage double box beam outriggers with inverted jacks and integral holding valves. Three position setting. All steel fabricated, quick-release type round outrigger floats, 24 in. (610 mm) diameter. Maximum outrigger pad load: 69,100 lbs. (31 344 kg).

# Utrigger Controls

Controls and crane level indicator located in cab.

# Engine (Tier III) (Effective 2007)

Cummins QSB 6.7L diesel, six cylinders, turbocharged, 173 bhp (129 kW) (Gross) @ 2,500 rpm. Maximum torque: 364 ft. lbs. (494 Nm) @ 1,500 RPM.

# Fuel Tank Capacity

58 gallons (220 L)

# ○ Transmission

Full powershift with 6 forward and 3 reverse speeds. Front axle disconnect for 4 x 2 travel.

# **←** Electrical System

Two 12-volt maintenance free batteries. 12-volt starting and lighting, circuit breakers, battery disconnect switch.

# ı-•-ı Drive

4 x 4

# Steering

Fully independent power steering:

Front: Full hydraulic, steering wheel controlled.

Rear: Full hydraulic, switch controlled.

Provides infinite variations of 4 main steering modes: front only, rear only, crab and coordinated.

"Rear steer centered" indicating light.

4 wheel turning radius - 21 ft. (6.4 m)

# → Axles

Front: Drive/steer with differential and planetary

reduction hubs rigid-mounted to frame.

Rear: Drive/steer with differential and planetary reduction hubs pivot-mounted to frame.

> Automatic full hydraulic lockouts on rear axle permit oscillation only with boom centered over the front.

# O Brakes

Full hydraulic split circuit disc-type brakes operating on all wheels. Spring-applied, hydraulically released transmissionmounted parking brake.

# ○ Tires

\*23.5 x 25 - 20PR bias earthmover type.

# **■** Lights

Full lighting package including turn indicators, head, tail, brake and hazard warning lights.

# **Maximum Speed**

24 MPH (39 km/h).

# **Gradeability (Theoretical)**

78% (Based on 75,000 lbs. [34 020 kg] GVW) 23.5 x 25 tires, pumps engaged, 105 ft. (32 m) boom, and tele-swingaway.

### **Miscellaneous Standard Equipment**

Full width steel fenders, dual rear view mirrors, hookblock tiedown, electronic back-up alarm, light package, front stowage well, tachometer, rear wheel position indicator, 36,000 BTU hot water heater, hoist mirrors, engine distress A/V warning system. Auxiliary hoist control valve arrangement (less hoist). Ether injection cold start aid (less canister) and immersion type engine block heater.

## \*Optional Equipment

\*VALUE PACKAGE: includes 29-51 ft. (8.8-15.5 m) offsettable telescoping swingaway, 360° NYC style swing lock, and auxiliary hoist package.

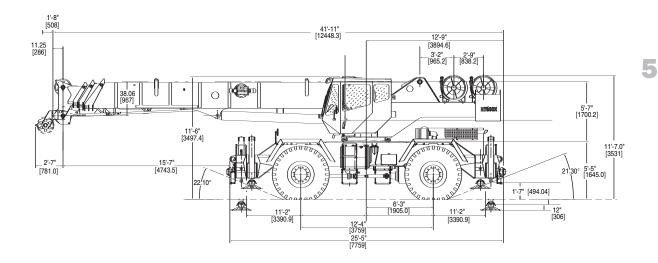
- \*AUXILIARY HOIST PACKAGE (includes Model HP30G auxiliary hoist with electronic hoist drum rotation indicator, hoist drum cable follower, 450 ft. (137m) of 3/4 in.(19mm) 35 X 7 class wire rope, auxiliary single sheave boom nose.)
- \*AUXILIARY LIGHTING PACKAGE (includes cab mounted, 360° rotation spotlight, cab mounted amber flashing light, and dual base boom mounted floodlights.)
- \*CONVENIENCE PACKAGE (includes in cab LMI light bar)
- \*Air Conditioning
- \*Full-length aluminum decking
- \*Pintle hook rear
- \*360 degree positive swing lock
- \*Cab-controlled cross axle differential lock (front and rear)
- \*PAT datalogger
- \*Rubber mat for stowage trough
- \*Mounting hardware for gooseneck/trailer attachment

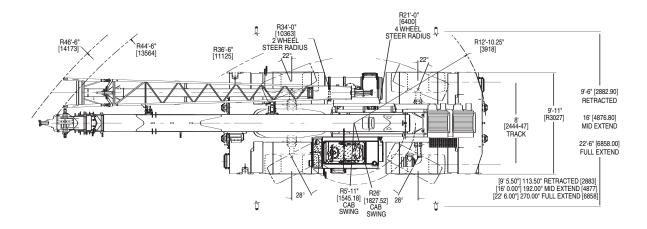
\*Denotes optional equipment





# dimensions





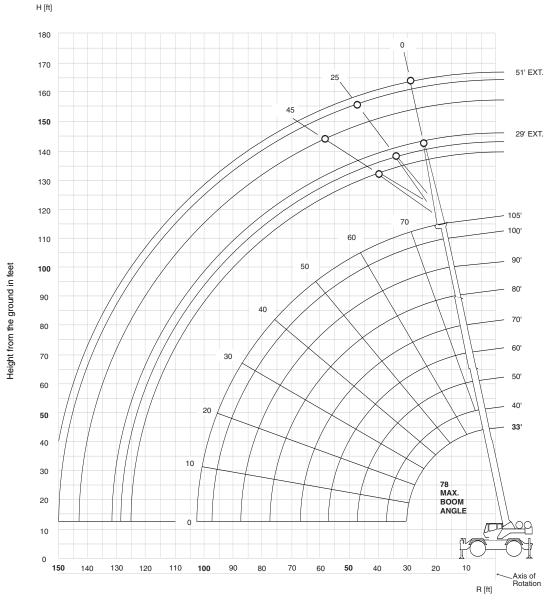
Note: [ ] Reference dimensions in mm

# Weights

	G	GVW		ront	Rear	
	lb.	kg	lb.	kg	lb.	kg
RT600E Basic Machine	71,691	32,519	32,934	14,939	38,757	17,580
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: Auxiliary hoist cable	563	255	-213	-97	775	352
ADD: Auxiliary boom nose	131	59	358	162	-227	-103
<b>ADD</b> : 40 ton (35 mt) 3 sheave hookblock (stowed in trough)	800	363	822	373	-22	-10
ADD: 50 ton (45 mt) 3 sheave hookblock (stowed in trough)	1,000	454	1,027	466	-27	-12
ADD: 8.3 ton (7.5 mt) headache ball (hanging from aux. nose)	370	168	643	292	-273	-124
Remove: Counterweight	-11,250	-5,103	4,570	2,073	-15,820	-7,176

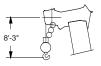


6



Operating Radius in Feet From Axis of Rotation







Dimensions are for Largest Grove furnished Hook Block and Headache Ball, with Anti-Two Block Activated.

Boom and extension length in feet

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

# **RT650E load chart**

2,110 (85)

3,160 (75)

1,260 (95)

33-105 ft.	12,250 lbs	100% 22' 6" sp		360					
		22 0 0	iodu		Pounds				
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	39,350 (58)	39,650 (64.5)	37,100 (68.5)	29,850	27,250 (74.5)	21,000 (76.5)	18,350 (77.5)
30	(32)	(47) 30,700	31,200	31,500	31,700	(72) 26,350	24,100	21,000	18,350
35		(34.5)	(50.5) 25,450 (41.5)	(58.5) 25,750 (52.5)	(64) 26,000 (50)	(68) 23,650	(71) 21,500 (67.5)	(73.5) 19,150 (70)	(74.5) 18,350 (71.5)
40	See		(41.5) 20,850	(52.5) 21,200	(59) 21,600	(64) 21,350	(67.5) 19,400	(70) 16,650	(71.5) 17,300
45	Note 16		(30.5)	(46) 17,100	(54) 17,350	(59.5) 17,300	(64) 17,300	(67) 14,650	(68.5) 15,750
50				(38) 13,950	(48.5) 14,150	(55) 14,200	(60) 14,200	(64) 13,000	(65.5) 14,300
55				(28)	(42.5) 11,700	(50.5) 11,750	(56) 11,850	(60.5) 11,900	(62.5) 12,000
					(35) 9,730	(45.5) 9,870	(52) 9,980	(57) 10,100	(59) 10,150
60					(26)	(39.5) 8,300	(47.5) 8,440	(53.5) 8,600	(55.5) 8,680
65						(33) 6,960	(42.5) 7,170	(49.5) 7,340	(52) 7,430
70						(24.5)	(37.5) 6,080	(45.5) 6,290	(48.5) 6,390
75							(31) 5,130	(40.5) 5,380	(44.5) 5.490
80							(23)	(35.5)	(40)
85								4,580 (29.5)	4,720 (35)
90								3,880 (22)	4,020 (29)
95									3,400 (21.5)
	angle (°) for indicated length (ft.) at 0° boor								0 105
OTE: ( ) Boom LMI operating	angles are in degree code. Refer to LMI m based on maximum	es. anual for operating	instructions.						
				Capacities at Zero n Outriggers Fully I		jle			
Boom Angle	33	40	50	Main Boom Le 60	ngth in Feet 70	80	90	100	
	16 250	12 500	9 780	6 200	/ U	3 160	2 110	1 260	

A6-829-100936 NOTE: ( ) Reference radii in feet.

6,290 (55)

16,250 (28.2)

12,500 (35)

8,780 (45)

4,510 (65)

# **RT640E load chart**

33-105 ft.	12,250 lbs	100° 22' 6" sp		360					
					Pounds				
Feet	33	40	50	60	70	80	90	100	105
10	80,000 (69.5)	73,500 (73.5)	67,200 (77)						
12	77,750 (65.5)	69,500 (70.5)	62,300 (75)	*56,100 (78)					
15	69,050 (59.5)	65,550 (65.5)	57,300 (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	(02)	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		(04.0)	25,450 (41.5)	25,750 (52.5)	26,000 (59)	23,650 (64)	21,500 (67.5)	19,150	18,350
40	See		20,850	21,200	21,600	21,350	19,400	(70) 16,650	(71.5) 17,300
45	Note 16		(30.5)	(46) 17,100	(54) 17,350	(59.5) 17,300	(64) 17,300	(67) 14,650	(68.5) 15,750
50				(38) 13,950	(48.5) 14,150	(55) 14,200	(60) 14,200	13,000	(65.5) 14,300
55				(28)	(42.5) 11,700	(50.5) 11,750	(56) 11,850	(60.5) 11,900	(62.5) 12,000
60					(35) 9,730	(45.5) 9,870	(52) 9,980	10,100	(59) 10,150
65					(26)	(39.5) 8,300	(47.5) 8,440	(53.5) 8,600	(55.5) 8,680
70						(33) 6,960	(42.5) 7,170	(49.5) 7,340	(52) 7,430
						(24.5)	(37.5) 6,080	(45.5) 6,290	(48.5) 6,390
75							(31) 5,130	(40.5) 5,380	(44.5) 5,490
80							(23)	(35.5) 4,580	(40) 4,720
85								(29.5) 3,880	(35) 4,020
90								(22)	(29)
95	1 (0) 6 1								3,400 (21.5)
	angle (°) for indicate length (ft.) at 0° boo	,							0 105
#LMI operating of	angles are in degre code. Refer to LMI n based on maximun	nanual for operating	g instructions.						
				ng Capacities at Zer On Outriggers Fully		ngle			
Boom Angle	22	40		Main Boom Le	ngth in Feet	00	00	400	105
00	<b>33</b> 16,250	12,500	<b>50</b> 8,780	<b>60</b> 6,290	<b>70</b> 4,510	<b>80</b> 3,160	<b>90</b> 2,110	<b>100</b> 1,260	105

NOTE: ( ) Reference radii in feet.



# **RT600E load charts**

33-105 ft.	29 - 51ft.		12,250 lbs	100% 22' 6" spread		360
				Pounds		
		9 ft. LENGTI			I ft. LENGTH	
Feet	#0021 <b>0</b> 0 <b>OFFSET</b>	#0022 25° OFFSET	#0023 <b>45°</b> <b>OFFSET</b>	#0041 0° OFFSET	#0042 25° OFFSET	#0043 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 ang for indicated len (no load)	•	320	450	250	350	450
Max. boom leng at 0º boom ang (no load)	th le	90 ft.			90 ft.	

NOTE: ( ) Boom angles are in degrees.

A6-829-100845A

33-105 ft.







	Pounds							
			#9005					
	Main Boom Length in Feet							
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 (75)					
15	23,700 (59.5)	23,700 (65.5)	23,700 (71)	23,700 (75)				
20	14,450 (47.5)	14,450 (57)	14,450 (64.5)	14,450 (69.5)	14,450 (73)			
25	9,640 (32)	9,640 (47)	9,640 (58)	9,640 (64.5)	9,640 (68.5)			
30		6,840 (34.5)	6,840 (50.5)	6,840 (58.5)	6,840 (64)			
35			4,850 (41.5)	4,850 (52.5)	4,850 (59)			
40			3,450 (30.5)	3,450 (46)	3,450 (54)			
45				2,410 (38)	2,410 (48.5)			
50				1,610 (28)	1,610 (42.5)			
	( )	cated length (no	,		30			

Max. boom length (ft.) at 0° boom angle (no load) 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		Main Boom L	ength in Feet				
Angle	33	40	50	_			
00	7,580 (28.2)	4,850 (35)	2,410 (45)				
NOTE: () Refer	ence radii in fe	et.		A6-829-100836B			

#### 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.
- ${\it 3.} \quad {\it Radii listed are for a fully extended boom with the boom extension erected.} \\ {\it For main}$ 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.



<sup>#</sup>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

# load charts

10

33-105 ft.	12,2	50 lbs S	Stationary	Defined arc	over front	33-105 ft.	12,25		ck & carry to 2.5 mph	Boom center	
			Po	unds					Po	unds	
Ö			#9005						#9006		
Feet			Boom Length in			Feet			Length in Feet		
1 000	33	40	50	60	70	reet	33	40	50	60	70
10	46,600 (69.5)	40,800 (73.5)	34,600 (77)			10	30,150 (69.5)	30,150 (73.5)	17,850 (77)		
12	40,800 (65.5)	40,800 (70.5)	34,600 (75)			12	30,150 (65.5)	30,150 (70.5)	17,850 (75)		
15	34,000 (59.5)	34,000 (65.5)	34,000 (71)	26,650 (75)	21,500 (77.5)	15	29,650 (59.5)	29,650 (65.5)	17,850 (71)	17,850 (75)	14,750 (77.5)
20	26,050 (47.5)	26,050 (57)	26,050 (64.5)	26,050 (69.5)	21,500 (73)	20	22,650 (47.5)	22,650 (57)	17,850 (64.5)	17,850 (69.5)	14,750 (73)
25	18,200 (32)	18,200 (47)	18,200 (58)	18,200 (64.5)	18,200 (68.5)	25	17,850 (32)	17,850 (47)	17,850 (58)	17,850 (64.5)	14,750 (68.5)
30		13,100 (34.5)	13,100 (50.5)	13,100 (58.5)	13,100 (64)	30	(UZ)	13,100 (34.5)	13,100 (50.5)	13,100 (58.5)	13,100
35		(, ,	10,050 (41.5)	10,050 (52.5)	10,050 (59)	35		(0110)	10,050 (41.5)	10,050 (52.5)	10,050
40			7,900 (30.5)	7,900 (46)	7,900 (54)	40			7,340 (30.5)	7,340 (46)	7,340 (54)
45				6,290 (38)	6,290 (48.5)	45			(2212)	6,020 (38)	6,020 (48.5)
50				5,050 (28)	5,050 (42.5)	50				4,940 (28)	4,940 (42.5)
55				, ,	4,060 (35)	55				(=-)	4,030 (35)
60					3,260 (26)	60					3,260 (26)
Min. boom angl	e (°) for indica	ated length (no lo	ad)		0	Min. boom ang	le (°) for indic	ated length (no lo	oad)		0
Max. boom leng	gth (ft.) at 0° b	oom angle (no lo	ad)		70			boom angle (no le			70
NOTE: ( ) Boor #LMI operating		n degrees. c LMI manual for	operating instru	ctions.		NOTE: ( ) Bool #LMI operating instructions.	m angles are g code. Refer	in degrees. to LMI manual fo	r operating		
	Lifting (	Capacities at Ze On Rubber - D					Liftin		Zero Degree B	oom Angle	
Boom	••		ength in Feet	••		Boom			Length in Feet		
Angle	33 14,550	<b>40</b> 10.050	<b>50</b> 6.290	4.060	2.590	Angle	33	40	50	4.030	70
00	(28.2)	(35)	(45)	(55)	(65)	00	14,550 (28.2)	10,050 (35)	6,020 (45)	4,030 (55)	2,590 (65)
NOTE: ( ) Refe	rence radii in f	feet.		A6-829	-100835B	NOTE: ( ) Refe	erence radii in	feet.	_	A6-829-	-100837B

# load handling

## **Weight Reductions for Load Handling Devices**

29 Ft. Offsettable Boom Extension	Pounds
*Erected -	4,412
29 Ft. 51 ft. Tele. Boom Extension	Pounds
*Erected (Retracted) -	6,611
*Erected (Extended) -	9.332

\*Reduction of main boom capacities

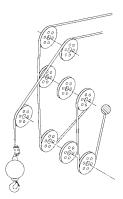
Auxiliary Boom Nose	Pounds
	137

Hookblocks and Headache Balls	Pounds
50 Ton, 4 Sheave	1075
50 Ton, 3 Sheave	1000
40 Ton, 3 Sheave	800
8.3 Ton Headache Ball (non-swivel)	350
8.3 Ton Headache Ball (swivel)*	370

+Refer to rating plate for actual weight.

When lifting over swingaway and/or jib combinations, deduct total weight of all load handling devices reeved over main boom nose directly from swingaway or jib 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.



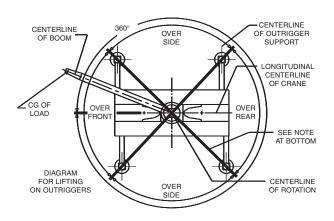
11

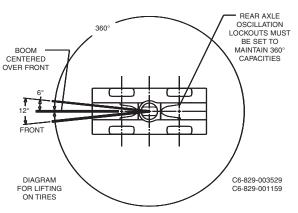
Line Pulls and Reeving Information						
Hoists	Cable Specs	Permissible Line Pulls	Nominal Cable Length			
Main	3/4" (19 mm) 6x37 Class EIPS, IWRC Special Flexible Min. Breaking Str. 58,800 lb.	16,800 lb.	450 ft.			
Main & Aux.	3/4" (19 mm) Flex - X 35 Rotation Resistance (non-rotating) Min. Breaking Strength 85,500 lb.	16,800 lb.	450 ft.			

Hoist Performance				
Wire Rope Layer	Hoist Line Pulls Two Speed Hoist Low High		Drum Rope Capacity (ft.)	
	Available lb.*	Available lb.*	Layer	Total
1	18,134	9,067	78	78
2	16,668	8,334	85	164
3	15,420	7,710	92	256
4	14,347	7,174	99	356
5	13,413	6,707	106	462
6	12,594	6,297	113	575

\*Max. lifting capacity: 6x37 or 35x7 class = 16,800 lb.

# **Working Area Diagram**





Bold lines determine the limiting position of any load for operation within working areas indicated.

RT600



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