

Grove RT700E

Product Guide



Features

- 50 t 55 t (50 USt 60 USt) capacity
- 11 m 33,5 m (36 ft 110 ft) four-section full power boom
- 10,1 m (33 ft) offsettable lattice swingaway extension
- 10,1 m 17,1 m (33 ft 56 ft) bi-fold lattice swingaway extension
- 6,1 m (20 ft) or 12,2 m (40 ft) extension inserts
- 5553 kg (12,242 lb) counterweight pinned to superstructure
- 179 kW (240 bhp) Tier III Cummins diesel engine



Features

MEGAFORM™ boom

The superstructure features a full-power four-section MEGAFORM™ boom that can reach to a maximum tip height of 119 ft. The sequence synchronized extension features telescopic boom sections via a single lever joystick controller.



Grove "E" Series cab

The Grove "E" Series cab includes hot water heater/defroster, air conditioning, single axis joystick controllers, sliding skylight and adjustable sunscreen, engine instrumentation,

full acoustical lining, and a large open stowage compartment for tools and rigging accessories. The "E" Series cab also features the PAT IFlex 5 graphic display LMI which includes a work area definition system to allow the operator to define a preferred working area.







Smooth operation

The RT700E has a quick-reeve boom nose and swingaway alignment device to help operators set up smoothly.



Extensions

An optional bi-fold swingaway lattice extension easily stows on the side of the base boom for easy transport while providing on-board extension from 33 ft - 56 ft for a maximum tip height of 174.5 ft. By adding inserts of 20 ft or 40 ft, the maximum tip height on the RT700E can be extended even further to 194 ft or 214 ft.

An optional 33 ft fixed swingaway is also available with a maximum tip height of 150 ft.

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Specifications

Superstructure



Boom

11 m - 33,5 m (36 ft - 110 ft) four-section, full-power sequenced synchronized boom.

Maximum tip height: 36,4 m (119 ft).



*Optional fixed swingaway extension

10,1 m (33 ft) offsettable lattice swingaway extension. Offsettable at 0°, 25° and 45°. Stows alongside base boom section.

Maximum tip height: 45,8 m (150 ft).



*Optional bi-fold swingaway extension

10,1 m - 17,1 m (33 ft - 56 ft) bi-fold lattice swingaway extension. Offsettable at 0°, 25° and 45°. Stows alongside base boom section. Maximum tip height: 53,2 m (174.5 ft).



*Optional 6,1 m (20 ft) or 12,2 m (40 ft) inserts

Installs between boom nose and bi-fold extension, non-stowable. Maximum tip height: 59,1 m (194 ft) with 20 ft insert, 65,2 m (214 ft) with 40 ft insert.



Boom nose

Three nylatron sheaves (four with 60 USt rating) 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 -3° to 78°.



Load moment and 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 two-block condition. The standard Work Area Definition System allows the operator to pre-select and define safe working areas. If the crane approaches the pre-set limits, audio-visual warnings aid the operator in avoiding job-site obstructions.



Cab

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



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 rpm.



Counterweight

5835 kg (12,865 lb) pinned to superstructure.



Hydraulic system

Three main gear pumps with a combined capacity of 391 LPM (103 GPM), 511 LPM (135 GPM) with optional air conditioning.

Maximum operating pressure: 27,6 MPa (4000 psi). Two individual post pressure compensated valve banks.

Return line type filter with full flow by-pass protection and service indicator. Replaceable cartridge with micron filtration rating of 5/12/16. 500 L (132 gallon) reservoir. Integral oil cooler. System pressure test ports.



Hoist Specifications (GHP30A-18G) main and auxiliary hoist

Main and auxiliary hoist: Model GHP30A-18G 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: 8246 kg (20,250 lb)

Maximum single line speed: 179 m/min (542 fpm)

Maximum permissible line pull:

7620 kg (16,800 lb) with standard 6 x 37 class rope 7620 kg (16,800 lb) with optional 35 x 7 class rope

Specifications

Superstructure continued

Rope diameter: 19 mm (3/4 in)

Rope length: 152 m (500 ft)

*Optional 168 m (550 ft) 35 x 7 class rope

Rope type: 6 x 37 class EIPS IWRC *Optional 35 x 7 class rotation resistant

Maximum rope stowage: 256 m (841 ft).

Carrier



Chassis

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

Outrigger system

Four hydraulic telescoping single-stage double box beam outriggers with inverted jacks and integral holding valves. Three position settings, 100%, 50% and fully retracted. All steel fabricated, quick-release type round outrigger floats, 610 mm (24 in) diameter. Maximum outrigger pad load: 36 606 kg (80,700 lb).



Outrigger controls

Controls and crane level indicator located in cab.



Engine (Tier III)

Cummins QSB 6.7 L diesel, six cylinders, turbocharged, 179 kW (240 bhp) (Gross) @ 2500 rpm. Maximum torque: 987 N-m (728 ft lb) @ 1 500 rpm.



Engine (Tier IV)

Cummins QSB 6.7 L diesel, six cylinders, turbocharged with Cummins Diesel Particulate Exhaust filter/muffler. Meets emissions per U.S.E.P.A. Tier IV and E.U. Stage III B. 179 kW (240 bhp) at 2500 rpm. Maximum torque: 990 N-m (730 ft lb) at 1500 rpm.

Fuel requirement: Maximum of 15 ppm sulphur content (Ultra Low Diesel Fuel).

Note: Tier IV engine Required in North American and European Union countries.



Fuel tank capacity

273 L (72 gal)



Transmission

Spicer powershift with 6 forward and 6 reverse speeds (3 speeds high and 3 speeds low). 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.



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 - 6,7 m (22 ft 2 in).



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 203 mm (8 in) oscillation only with boom centered over the front.



Brakes

Full hydraulic split circuit brakes operating on all wheels. Spring-applied, hydraulically released axle-mounted parking brake.

Specifications

Carrier continued



Tires

29.5 x 25 - 28PR bias earthmover type.



Lights

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



Maximum speed

37 km/h (23 mph).



Gradeability (theoretical)

75% (Based on 40 802 kg [89,951 lb] GVW) 29.5 x 25 tires, pumps engaged, 33,6 m (110 ft) boom, bi-fold extension, aux. hoist and cable, and 60 USt hook block.

Miscellaneous standard equipment

Full width steel fenders with full aluminum decking, dual rear view mirrors, hook block tiedown, electronic back-up alarm, light package, front stowage well, tachometer, rear wheel position indicator, 36,000 BTU hot water heater, air conditioning package with 28,500 BTU hydraulic driven air conditioning, hoist mirrors, engine distress A/V warning system. Auxiliary hoist control valve arrangement (less hoist). Cold start aid and immersion type engine block heater, 120V 1500 watt.

* Optional equipment

- Auxiliary Hoist Package: Includes Model GHP30A-18G auxiliary hoist with electronic hoist drum rotation indicator, hoist drum cable follower, 152 m (500 ft) of 19 mm (3/4 in) 35 X 7 class wire rope, auxiliary single sheave boom nose.
- Auxiliary Light and Convenience Package: Includes cab mounted amber flashing light, in-cab LMI light bar, 360° rotation spotlight and dual base boom mounted floodlights, rubber mat for stowage trough
- "CE" Mark Conformance (sound abatement foam kits, 3rd wrap indicator, emergency auxiliary steering, dual axis joystick controllers)
- Cross axle differential locks (front and rear)
- Manual pump disconnect
- Pintle hook rear
- ≥ 360° NYC style positive swinglock
- ► PAT event recorder
- Hydraulic removable counterweight

Dimensions and weights

Dimensions Tire size 11 342 mm (446") 14 867 mm 15 368 mm 12 460 mm 11 732 mm (585") (605") (491") (462") 9004 mm 7662 mm (355") (302") 10 809 mm 11 153 mm (426") (439") 7830 mm (308") 6744 mm (266") 4368 mm (172") 3496 mm (138") 7099 mm (280") 29.5 X 25 2 Wheel Steer 4 Wheel Steer 3175 (125") Retracted 5283 (208") Mid Extend 7112 (280") Full Extend 3359 (131") Outside turning radius **D** t Outside curb clearance Inside turning radius Inside curb clearance 13 476 (44' 2.3") 3603 (11' 10") 432 (17.0") 283 (11.1") 2 x 267 (10.5") - 2 x 133 (5.2")

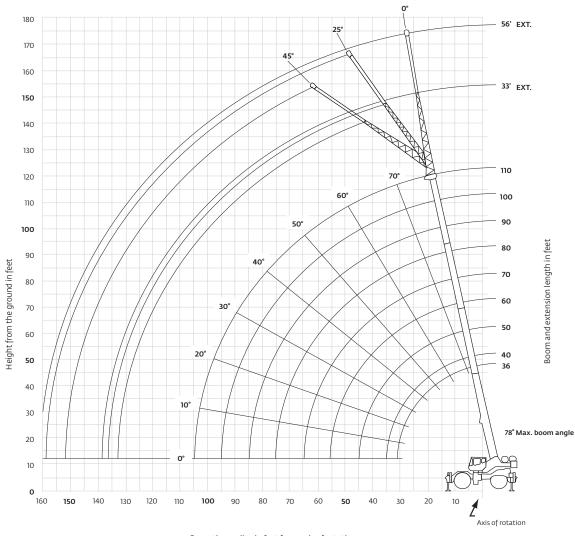
Weights						
	G/	/W	Front		Rear	
	kg	(lb)	kg	(lb)	kg	(lb)
Basic machine: Including 110 ft main boom, main hoist with 500 ft of wire rope, IPO, full pinned counterweight, full alum. Decking, A/C, and hoist access platform	38 735	(85,394)	18 809	(41,466)	19 926	(43,928)
ADD: 33 ft -56 ft bi-fold swingaway + extension carrier brackets	1265	(2788)	1997	(4402)	-732	(-1614)
ADD: Auxiliary Boom Nose	59	(131)	171	(377)	-112	(-247)
ADD: 45 t (50 USt) 3-sheave hook block stowed in trough	458	(1010)	458	(1010)	0	(0)
ADD: 55 t (60 USt) 5-sheave hook block stowed in trough	580	(1280)	580	(1280)	0	(0)
ADD: 7.5 t (8.3 USt) headache ball tied to O/R cable	161	(355)	262	(578)	-101	(-223)
Remove: Hydraulic removal counterweight	-6042	(-13,320)	206	(4550)	-8106	(-17,870)

Grove RT700E

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Working range

110 ft main boom and 33 ft - 56 ft bi-fold swingaway



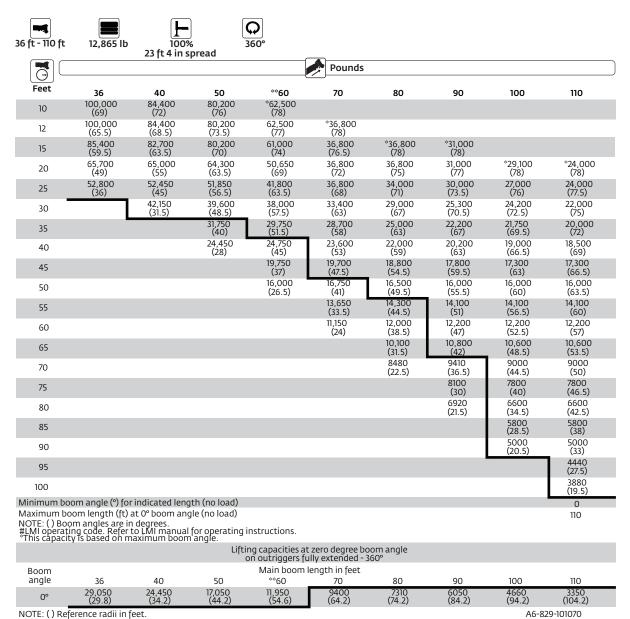
Operating radius in feet from axis of rotation





Dimensions are for largest Grove furnished hookblock and headache ball, with anti-two block activated.

Load chart RT750E



^{**} Boom length is with inner-mid fully extended and outer-mid & fly fully retracted.

Load chart RT760E

36 ft - 110 ft	12,865 lb	100% 23 ft 4 in s		<u> </u>					
		•			Pounds				
Feet	36	40	50	**60	70	80	90	100	110
10	120,000 (69)	84,400 (72)	80,200 (76)	*62,500 (78)					
12	100,000 (65.5)	84,400 (68.5)	80,200 (73.5)	62,500 (77)	*36,800 (78)				
15	85,400 (59.5)	82,700 (63.5)	80,200 (70)	61,000 (74)	36,800 (76.5)	*36,800 (78)	*31,000 (78)		
20	65,700 (49)	65,000 (55)	64,300 (63.5)	50,650 (69)	36,800 (72)	36,800 (75)	31,000 (77)	*29,100 (78)	*24,000 (78)
25	52,800 (36)	52,450 (45)	51,850 (56.5)	41,800 (63.5)	36,800 (68)	34,000 (71)	30,000 (73.5)	27,000 (76)	24,000 (77.5)
30		42,150 (31.5)	39,600 (48.5)	38,000 (57.5)	33,400 (63)	29,000 (67)	25,300 (70.5)	24,200 (72.5)	22,000 (75)
35		(E.IIII)	31,750 (40)	29,750 (51.5)	28,700 (58)	25,000 (63)	22,200 (67)	21,750 (69.5)	20,000 (72)
40			24,450 (28)	24,750 (45)	23,600 (53)	22,000 (59)	20,200 (63)	19,000 (66.5)	18,500 (69)
45				19,750 (37)	19,700 (47.5)	18,800 (54.5)	17,800 (59.5)	17,300 (63)	17,300 (66.5)
50				16,000 (26.5)	16,750 (41)	16,500 (49.5)	16,000 (55.5)	16,000 (60)	16,000 (63.5)
55				(====)	13,650 (33.5)	14,300 (44.5)	14,100 (51)	14,100 (56.5)	14,100 (60)
60					11,150 (24)	12,000 (38.5)	12,200 (47)	12,200 (52.5)	12,200 (57)
65					(= 1)	10,100 (31.5)	10,800 (42)	10,600 (48.5)	10,600 (53.5)
70						8480 (22.5)	9410 (36.5)	9000 (44.5)	9000 (50)
75						(==:-,	8100 (30)	7800 (40)	7800 (46.5)
80							6920 (21.5)	6600 (34.5)	6600 (42.5)
85							(23)	5800 (28.5)	5800 (38)
90								5000 (20.5)	5000 (33)
95								(20.3)	4440 (27.5)
100									3880 (19.5)
	om angle (°) for								0
Maximum bo NOTE: () Boo #LMI operati "This capacit	oom length (ft) a om angles are in ng code. Refer t y is based on m	at 0° boom ang 1 degrees. to LMI manual 1 aximum boom	gle (no load) for operating i Langle.	nstructions.					110
			Liftir	ng capacities at a on outriggers ful					
Boom angle	36	40	50	Main boom le	ngth in feet 70	80	90	100	110
0º _	29,050 (29.8)	24,450 (34.2)	17,050 (44.2)	11,950 (54.6)	9400 (64.2)	7310 (74.2)	6050 (84.2)	4660 (94.2)	3350 (104.2)

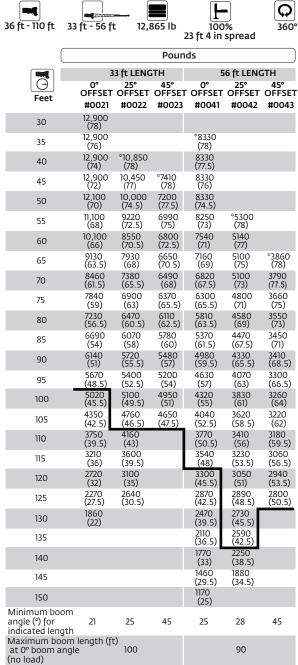
A6-829-101070

NOTE: () Reference radii in feet.
** Boom length is with inner-mid fully extended and outer-mid & fly fully retracted.

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THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.

Load chart RT700E



NOTE: () Boom angles are in degrees.

A6-829-101289

*This capacity is based upon maximum boom angle.

NOTES:

1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765.

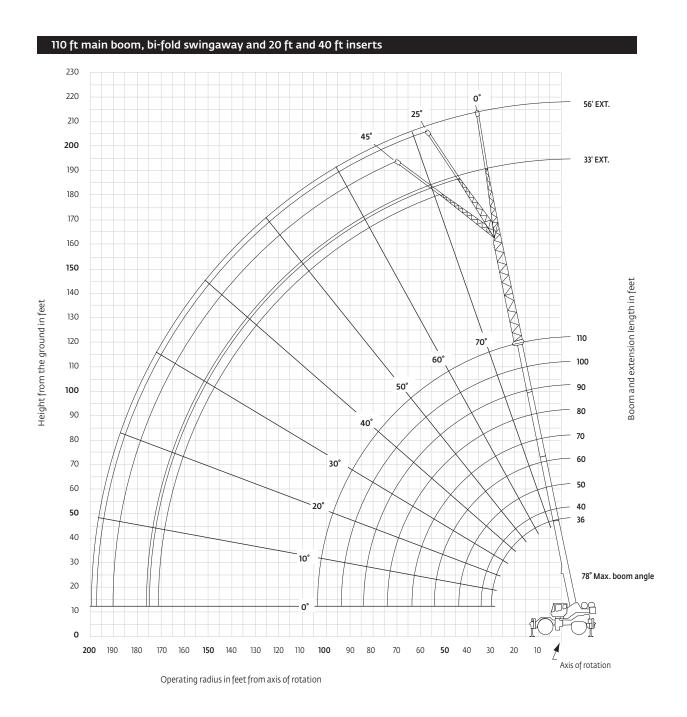
- 2. 33 ft and 56 ft boom extension lengths may be used for single line lifting service.
- 3. Radii listed are for a fully extended boom with the boom extension erected. For main boom lengths less than fully extended, the rated loads are determined by boom angle. Use only the column which corresponds 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.

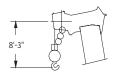
WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.

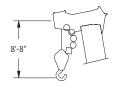
- 4. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 5. Capacities listed are with outriggers fully extended and vertical jacks set only.

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

Working range

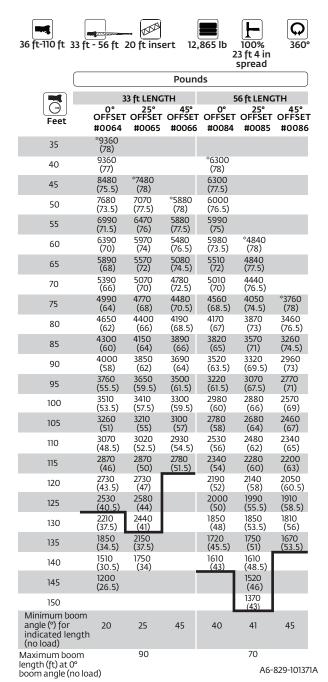






Dimensions are for largest Grove furnished hookblock and headache ball, with anti-two block activated.

Load chart RT700E



NOTE: () Boom angles are in degrees.

#LMI operating code. Refer to LMI manual for operating instructions. *This capacity is based upon maximum boom angle.

NOTES:

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE
- 2. 33 ft and 56 ft boom extension lengths may be used for single line lifting service only.
- 3. For main boom lengths less than 110 ft 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.

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.
- 6. Capacities listed are with outriggers fully extended and vertical jacks set only.

Load chart



					5prcuu			
	Pounds							
	3	3 ft LENG1	TH	56 ft LENGTH				
Feet	0° OFFSET #0064	25° OFFSET #0065	45° OFFSET #0066	0° OFFSET #0084	25° OFFSET #0085	45° OFFSET #0086		
45	6560 (78)							
50	5960 (76)			4510 (78)				
55	5360 (74.5)	5860 (78)		4210 (77.5)				
60	4860 (73)	5260 (76.5)	*5170 (78)	3910 (76)				
65	4370 (71)	4870 (75)	4670 (77.5)	3710 (74.5)				
70	3970 (69.5)	4370 (73)	4270 (75.5)	3410 (73)	*3710 (78)			
75	3670 (67.5)	4070 (71.5)	3980 (73.5)	3220 (71.5)	3420 (77.5)			
80	3270 (66)	3670 (69.5)	3680 (72)	2820 (70)	3120 (76)			
85	2980 (64)	3370 (68)	3380 (70)	2520 (68.5)	2820 (74.5)	2730 (77.5)		
90	2780 (62.5)	3080 (66)	3080 (68)	2320 (66.5)	2620 (72.5)	2530 (76)		
95	2480 (60.5)	2880 (64)	2890 (66)	2030 (65)	2330 (71)	2340 (74.5)		
100	2290 (58.5)	2580 (62)	2690 (64)	1830 (63.5)	2130 (69.5)	2140 (72.5)		
105	2090 (56.5)	2390 (60)	2390 (62)	1630 (62)	1930 (68)	1940 (71)		
110	1900 (54.5)	2190 (58)	2200 (60)	1440 (60)	1730 (66)	1740 (69)		
115	1700 (52.5)	2000 (56)	2100 (58)	1240 (58.5)	1540 (64.5)	1550 (67)		
120	1600 (50.5)	1800 (54)	1910 (55.5)	1140 (57)	1340 (62.5)	1450 (65)		
125	1410 (48)	1700 (51.5)	1710 (53)		1240 (61)	1260 (63.5)		
130	1310 (46)	1510 (49.5)	1520 (50.5)		1050 (59)	1160 (61.5)		
135	1120 (43.5)	1420 (47)	1420 (48)					
140	1030 (41)	1220 (44.5)						
145		1130 (41.5)						
150	L	1040 (38.5)						
Min boom		No Id	oad stabilit	y data				
Min. boom angle at 110 boom lengt	ft 37° :h	37°	45°	54°	56°	58°		
Max. boom length at 0 boom angle	0	70 ft			40 ft			

NOTE: () Boom angles are in degrees.

A6-829-101581

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

NOTES:

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765.
- 2. 33 ft and 56 ft boom extension lengths may be used for single line lifting service only.
- 3. For main boom lengths less than 110 ft 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.

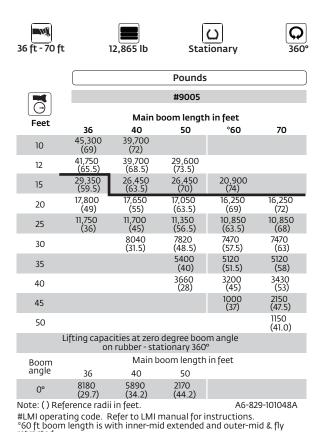
WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.

- 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 only.

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

Load charts RT700E

- William



36 ft - 70 ft 12,865 lb Pick and carry up to 2.5 mph 29.5 X 25 tires Defined arc over front

		29.5 X 25 tires							
			Pounds						
			#9006						
Feet		Main boom length in feet							
	36	40	50	°60	70				
10	42,500 (69)	37,600 (72)	30,700 (76)						
12	42,500 (65.5)	37,600 (68.5)	30,700 (73.5)	23,450 (77)					
15	37,600 (59.5)	37,600 (63.5)	30,700 (70)	19,700 (74)	16,250 (76.5)				
20	32,950 (49)	32,900 (55)	30,700 (63.5)	19,700 (69)	16,250 (72)				
25	24,100 (36)	24,150 (45)	23,850 (56.5)	19,700 (63.5)	16,250 (68)				
30		17,400 (31.5)	17,200 (48.5)	16,800 (57.5)	16,250 (63)				
35			12,800 (40)	12,500 (51.5)	12,500 (58)				
40			9,720 (28)	9,390 (45)	9,390 (53)				
45				7,090 (37)	7,090 (47.5)				
50				5,310 (26.5)	5,310 (41)				
55					3,870 (33.5)				
60					3,090 (24)				
	Lifting c		zero degree l pick and car						
Boom			m length in						
angle	36	40	50	*60	70				

Note: () Reference radii in feet. A6-829-101049 #LMI operating code. Refer to LMI manual for instructions. *60 ft boom length is with inner-mid extended and outer-mid & fly

13,600 (34.2) 7750 (44.2) 4010 (54.6) 2670 (64.2)

36 ft - 70 ft	1	2,865 lb	Stati	(<u>C</u>) Stationary						
		Pounds								
			#9005							
Feet		Main b	oom length	in feet						
	36	40	50	°60	70					
10	45,300 (69)	42,850 (72)	29,600 (76)							
12	43,650 (65.5)	41,350 (68.5)	29,600 (73.5)							
15	38,300 (59.5)	36,300 (63.5)	29,600 (70)	20,900 (74)	17,300 (76.5)					
20	31,150 (49)	29,550 (55)	25,900 (63.5)	20,900 (69)	17,300 (72)					
25	24,100 (36)	24,150 (45)	21,800 (56.5)	18,800 (63.5)	17,300 (68)					
30		17,400 (31.5)	17,200 (48.5)	15,300 (57.5)	15,300 (63)					
35			12,800 (40)	12,500 (51.5)	11,000 (58)					
40			9720 (28)	9390 (45)	9390 (53)					
45				7090 (37)	7090 (47.5)					
50				5310 (26.5)	5310 (41)					
55					3870 (33.5)					
60					3170 (24)					
Li	fting capac on rubb	ities at zero er - defined	degree boon arc over fron	n angle it						
Boom			oom length i	•						
angle	36	40	50	*60	70					
0°	17,600 (29.7)	13,600 (34.2)	7750 (44.2)	4010 (54.6)	2670 (64.2)					
Note: () Refe #LMI operati *60 ft boom I retracted.	ng code. R	efer to LMI n		structions.	329-101047 d & fly					

NOTES TO ALL RUBBER CAPACITY CHARTS:

- 1. Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J765.
- 2. Capacities are applicable to machines equipped with 29.5 x 25 (28 ply) tires at 65 psi cold inflation pressure.
- 3. Defined Arc Over front includes 6° on either side of longitudinal centerline of machine (ref. drawing C6-829-003529).
- 4. Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
- 5. Capacities are applicable only with machine on firm level surface.
- 6. On rubber lifting with boom extensions not permitted.
- 7. 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.
- 8. Axle lockouts must be functioning when lifting on rubber.
- 9. 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.
- 10. Creep not over 200 ft of movement in any 30 minute period and not exceeding 1 mph.

Load chart

Weight reductions for load handling devices

33 ft - 56 ft Folding boom extension

*33 ft extension (erected) - 5080 lb *56 ft extension (erected) - 11,330 lb

Folding extension with 20 ft insert

*33 ft extension (erected) - 11,248 lb *56 ft extension (erected) - 19,372 lb

Folding extension with 40 ft insert

*33 ft extension (erected) - 19,671 lb *56 ft extension (erected) - 29,671 lb

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

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.

Lin	Line pulls and reeving information								
Hoists	Cable specs	Permissable line pulls	Nominal cable length						
Main	19 mm (3/4 in) 6 x 37 class, EIPS, IWRC Special Flexible Min. Breaking Str. 58,800 lb	16,800 lb	500 ft						
Main and auxiliary	19 mm (3/4 in) Flex-X 35 Rotation resistant (non- rotating) Min. breaking Str. 85,800 lb	16,800 lb	500 ft						

The approximate weight of 3/4 in wire rope is 1.5 lb/ft.

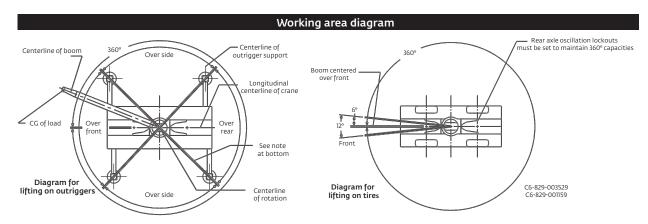
Upper boom nose sheaves Hook block sheaves Bottom boom nose sheaves Boom nose sheaves Boom nose dead end

Line pulls and reeving information							
Auxiliary boom nose	137 lb						
Hookblocks and headache balls:							
60 USt, 5 Sheave	1250 lb +						
50 USt, 4 Sheave	1000 lb +						
50 USt, 3 Sheave	1000 lb +						
8.3 USt headache ball (non-swivel)	350 lb +						
8.3 USt headache ball (swivel)	370 lb +						

+Refer to rating plate for actual weight.

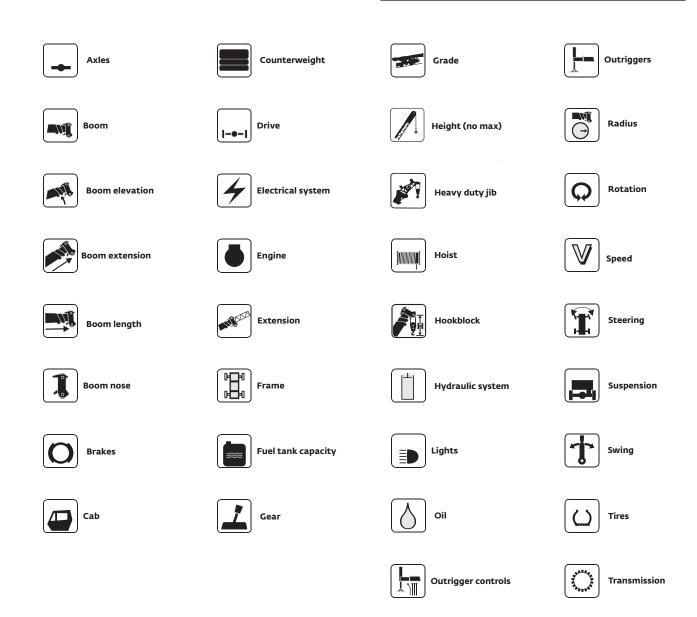
Hoist performance								
Wire rope layer		ne pulls eed hoist	D	rum rope	capacity (ft)		
	Low available lb*	High available lb*	Layer Total Layer 16 in 16 in 26 in drum drum drum drum					
1	18,134	9067	78	78	132	132		
2	16,668	8334	85	164	144	276		
3	15,420	7710	92	256	156	432		
4	14,347	7174	99	356	167	599		
5	13,413	6707	106	462	179	778		
6	12,594	6297	113	575	190	968		

^{*} Max lifting capacity: 6 x 37 class or 35 x 7 class = 16,800 lb



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

Symbols glossary



Grove RT700E

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Notes

Notes

Grove RT700E



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