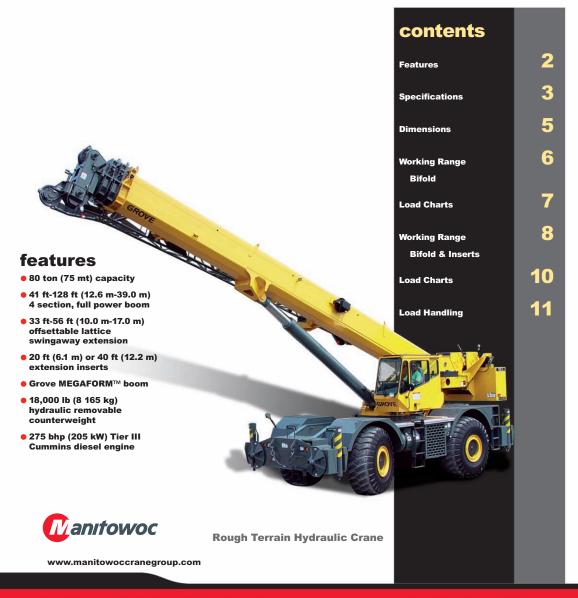


(800) 572-8100 or (248) 313-5800

www.laramiecrane.com





features



The Grove MEGAFORM™ boom shape eliminates weight and increases capacity compared to conventional shapes.



 Max. tip height of 232 ft (70.6 m) w/56 ft (17.0 m) bi-fold and (2) 20 ft (6.1 m) inserts.



· For improved operator comfort and visibility of the boom load the cab can be tilted up to 20°.



· Electronically controlled Cummins diesel engine provides plenty of power at the jobsite.

specifications

Superstructure



Boom

41 ft. - 128 ft. (12.6 m - 39.0 m) four-section, sequenced synchronized full power boom. Maximum tip height: 138 ft. (41.9



Lattice Extension

33 ft.-56 ft. (10.0 m-17 m) offsettable bifold lattice swingaway extension. Offsets 0°, 20°, and 40°. Stows alongside base boom section. Maximum tip height: 192 ft. (58.6 m).



*Optional Lattice Extension Inserts

(2) x 20 ft. (6.1 m) lattice extension inserts. Installs between the boom nose and bifold extension, non-stowable. Maximum tip height: 232 ft. (70.6 m).



Boom Nose

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



Full-vision, all-steel fabricated with acoustical lining and tinted safety glass throughout. Cab tilts to +20 degrees. Deluxe seat incorporates armrest-mounted hydraulic single-axis controllers. Dash panel incorporates gauges for all engine functions. Other standard features include: hot water heater, 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.

Two speed, planetary swing drive with foot-applied multi-disc wet brake. Spring applied, hydraulically-released swing brake. Single position mechanical house lock, operated from cab. Maximum speed: 2.0 RPM.



Counterweight

18,000 lbs. (8 165 kg). Hydraulically installed and removed.



Hydraulic System

Two main pumps ([1] piston and [1] gear) with a combined capacity of 133 GPM (503 LPM).

Maximum operating pressure: 4000 psi (277.7 bar).

Three section pressure compensated valve bank. Return line type filter with full flow by-pass protection and service indicator. Replaceable cartridge with micron filtration rating of 5/12/16. 263 gallon (995 L) hyd. reservoir. Carrier mounted oil cooler with thermostatically controlled hydraulic motor driven fan/air to oil. System pressure test ports.



Hoist Specifications (HP30-19G) Main and Auxiliary Hoist

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

Maximum Single Line Pull:

1st layers: 20,250 lb. (9 185 kg) 3rd layer: 17,010 lb. (7 715 kg) 5th layer: 14,660 lb. (6 650 kg)

Maximum Permissible Line Pull:

16,800 lb. (7 620 kg) with 6 x 37 class rope 16,800 lb. (7 620 kg) with 35 x 7 class rope

Maximum Single Line Speed: 514 FPM (156 m/min)

Rope Construction:

6 x 36 EIPS IWRC, Special Flexible 35 x 7 Flex-X, Rotation Resistant

Rope Diameter: 3/4" (19 mm)

Rope Length:

Main Hoist: 600 ft. (182.8 m) Auxiliary Hoist: 600 ft. (182.8 m)

Maximum Rope Stowage: 841 ft. (256 m)

*Denotes optional equipment

specifications

Carrier



H Chassis

Box section frame fabricated from high-strength, low alloy steel. Front/rear towing and tie down lugs.



└─│Outrigger System

Four hydraulic telescoping single-stage double box beam outriggers with inverted jacks and integral holding valves. Three position setting, 0%, 50% and fully extended. All steel fabricated, quick-release type round outrigger floats, 30.5 in. (775 mm) diameter. Maximum outrigger pad load: 125,000 lb. (56 700 kg).



Outrigger Controls

Controls and crane level indicator located in cab.



■ Engine (Tier III)

Cummins QSB 6.7L diesel, six cylinders, 275 bhp (205 kW) (Gross) @ 2,500 rpm. Maximum torque: 728 ft. lbs. (987 Nm) @ 1,500 RPM.



Fuel Tank Capacity

72 gallons (273 L)



○ Transmission

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



F Electrical System

Two 12-V maintenance free batteries. 12-V starting and lighting. Battery disconnect. CanBus Diagnostic system.



I---I Drive



T 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 indicator.

Turning radius - 25 ft.



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.



Oscillation Lockouts

Automatic full hydraulic lockouts on rear axle permits 10 in. (25.4 cm) oscillation only with boom centered over the front.

O Brakes

Full hydraulic split circuit brakes operating on all wheels. Springapplied, hydraulically released parking brake mounted on front



U Tires

Std. 29.5 x 25 - 34 bias ply, General.



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



Maximum Speed

22 MPH (35 kph).



Gradeability (Theoretical)

75% (Based on 108,158 lb. [49 060 kg] GVW) 29.5 x 25 tires, 128 ft. (39.0 m) boom, plus 56 ft. (17.0 m) swingaway, 18,000 lb. (8 165 kg) counterweight, 75T hookblock and 10T headache ball).

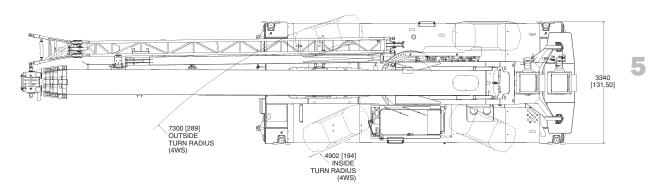
Miscellaneous Standard Equipment

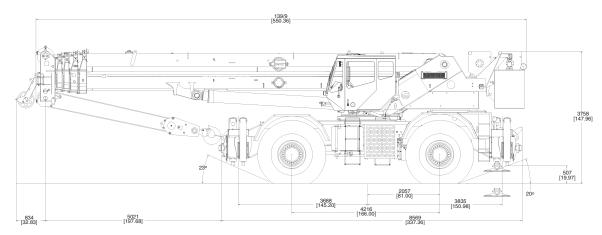
Full width steel fenders, full length aluminum decking, dual rear view mirrors, hookblock tiedown, electronic back-up alarm, light package, front stowage well, tachometer/hourmeter, rear wheel position indicator, 36,000 BTU hot water cab heater, hoist mirrors, engine distress A/V warning system, front/rear tie down and two lugs, coolant sight level indicator.

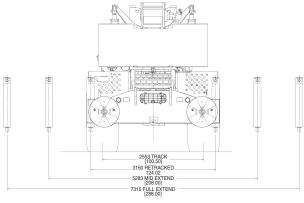
*Optional Equipment

- *Auxiliary Lighting Package (includes cab mounted amber flashing light, hoist mounted work light, and dual base boom mounted floodlights.)
- *LMI light bar (in cab)
- *Air Conditioning (28,500 BTU)
- *360 degree NYC style mechanical swinglock
- *Rear Pintle hook
- *Cab controlled cross axle differential locks, (front and rear)
- *PAT data logger
- *Rubber mat for stowage trough
- *Denotes optional equipment

dimensions





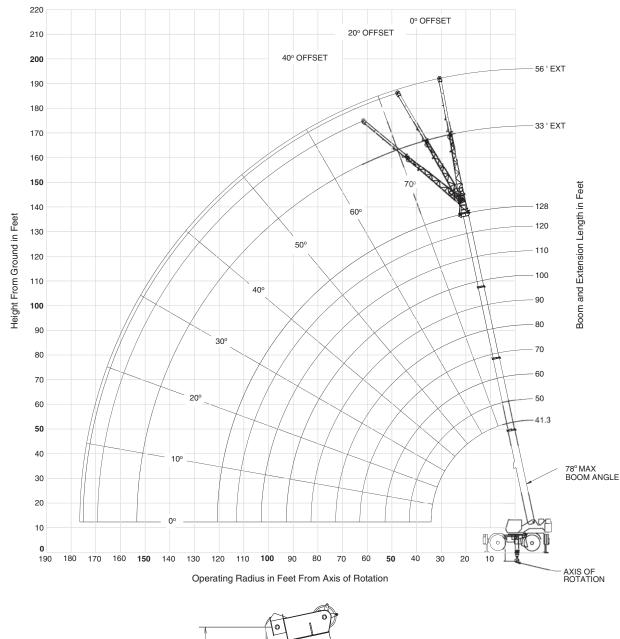


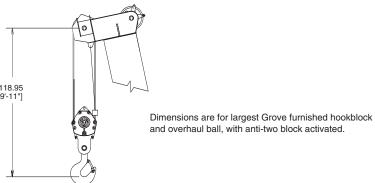
Note: Reference dimensions in mm [inches]

Weights						
	GVW		Front		Rear	
	lb.	kg	lb.	kg	lb.	kg
RT880E Basic Machine						
Basic Machine including 128 ft main boom, main and aux. hoist with 600 ft of rope, 56' (17 m) bifold swingaway, full counterweight, 10T (9.1 mt) headache ball, and 80T (75 mt) hookblock:	108,158	49 060	53,888	24 444	54,270	24 617
Remove counterweight and aux. hoist. 56' (17 m) bifold.	87,917	39 879	63,520	28 813	24,397	11 066
Remove counterweight, aux. hoist, and 56' (17 m) bifold swingaway.	85,285	38 685	58,725	26 638	26,560	12 048

working range

Working range diagram with bi-fold extension





RT880E load chart

41.3 - 128 ft.	18,000 lb		<u> </u>	360°						
		24'	spread		F F	ounds				
Feet	41.3	50	60	**70	Main Boom Lengt	h in Feet 90	100	110	120	128
10	++160,000	124,000	105,500							
12	(71) +150,000	(74.5) 124,000	(77.5) 105,500	59,500						
15	(67.5) 130,000	(72) 124,000	(75.5) 104,000	(78) 59,500	42,100	*42,000				
20	(63) 100,000	(68.5) 99,850	(72.5) 85,900	(75.5) 59,500	(78) 42,100	(78) 42,000	*39,650	*31,950		
25	(54.5) 80,550	(62) 80,250	(67.5) 72,550	(71) 57,050	(74) 42,100	(76) 42,000	(78) 39,650	(78) 31,950	*25,750	*22,000
	(44.5) 59,050	(55) 58,150	(62) 57,850	(66.5) 49,300	(70) 42,100	(73) 39,050	(75) 36,150	(77) 31,950	(78) 25,750	(78) 22,000
30	(31.5)	(47) 43.250	(56) 43,000	(62) 42,600	(66) 38,150	(69.5) 3 4,100	(72) 31,350	(74) 29,300	(76) 25,750	(77) 22.000
35		(37.5)	(49.5) 33.400	(57) 32.950	(62) 33.750	(66) 30.050	(68.5) 27.500	(71.5) 25.650	(73.5) 23.900	(74.5) 22.000
40		(24.5)	(42.5) 26,600	(52) 26,200	(58) 27,400	(62) 26,750	(65.5) 24,400	(68.5) 22,700	(71) 21,450	(72.5) 20,650
45	See		(34) 21,600	(46) 21,150	(53) 22,450	(58.5) 23,250	(62) 21,850	(65.5) 20,250	(68) 19,100	(70) 18,350
50	Note 16		(22)	(39.5)	(48.5)	(54.5)	(59)	(62.5)	(65.5)	(67.5)
55				17,250 (31.5)	18,650 (43)	19,400 (50)	19,700 (55)	18,200 (59.5)	17,100 (63)	16,400 (65)
60				14,200 (21)	15,600 (37)	16,400 (45.5)	17,050 (51.5)	16,450 (56)	15,450 (60)	14,750 (62.5)
65					13,100 (29.5)	13,850 (40.5)	1 4, 550 (47.5)	14,950 (53)	14,000 (57)	13,350 (59.5)
70					11,050 (19)	11,800 (34.5)	12,450 (43)	12,900 (49.5)	12,700 (54)	12,150 (57)
75						10,000 (28)	10,700 (38.5)	11,200 (45.5)	11,600 (51)	11,050 (54)
80						8,540 (18)	9,170 (33)	9,670 (41.5)	10,150 (47.5)	10,100
85							7,860 (26.5)	8,360 (37)	8,850 (44)	9,180 (48)
90							6,710 (17.5)	7,210 (32)	7,700	8,050 (44.5)
95							(17.5)	6,200 (25.5)	6,700 (35.5)	7,050
100								5,310	5,800	(41) 6,160
105								(17)	(30.5) 5,010	(37) 5,360
110									(25) 4,290	(32.5) 4,640
115									(16.5)	(27.5) 4,000
120										(21.5) 3,410
	angle (deg.) for ind	licated length (no l	nad)							(10.5)
	length (ft.) at 0 deg									120
This capacity in ote: () Boom parts line re	code. Refer to LMI s based upon maxin angles are in degre quired to lift this cap required to lift this	mum obtainable bo es. acity (using aux. b	oom angle. oom nose). Refer	to Operator's & Sa fer to Operator's &	ifety Handbook for Safety Handbook	reeving diagram. for reeving diagran	n.			
			Lifting Ca	•	Degree Boom An	-				
Boom Angle	41.3	50	60	**70	Main Boom Lengt 80	h in Feet 90	100	110	120	
0°	20,750 (34.1)	15,150 (42.8)	10,500 (52.8)	6,700 (63)	5,100 (72.8)	3,900 (82.8)	2,900 (92.8)	2,000 (102.8)	1,300 (112.8)	

				Pounds			
		3 ft. LENG	TH		6 ft. LENG	тн	
Feet	0° OFFSET #0021	20° OFFSET #0022	40° OFFSET #0023	0° OFFSET #0041	20° OFFSET #0042	40° OFFSE #0043	
35	11,900 (78)						
40	11,900 (77)			6,060 (78)			
45	11,900 (75.5)	*11,900 (78)		6,060 (77.5)			
50	11,900 (73.5)	10,600 (76.5)	*9,790 (78)	6,060 (76)			
55	11,900 (71.5)	9,770 (74.5)	8,470 (77)	6,060 (74.5)			
60	11,000 (69.5)	9,020 (72.5)	7,920 (75)	6,060 (72.5)	*6,060 (78)		
65	10,000 (67.5)	8,360 (70.5)	7,430 (73)	6,060 (71)	5,900 (76.5)		
70	9,190	7,780 (68.5)	6,980 (71)	6,060	5,730 (75)	*5,060 (78)	
75	8,460 (63.5)	7,260 (66.5)	6,580 (69)	6,060 (67.5)	5,330 (73)	4,640 (77)	
80	7,820 (61.5)	6,790 (64.5)	6,210 (66.5)	6,040	4,980 (71.5)	4,370 (75.5)	
85	7,250	6,370	5,870	5,570	4,650	4,120	
90	(59.5) 6,740	(62) 5,990	(64.5) 5,560	(64) 5,150	(69.5) 4,360	(73.5)	
95	(57) 6,290	(60) 5,640	(62) 5,280	(62.5) 4,780	(67.5) 4,090	(71.5)	
100	(55) 5,880	(57.5) 5,320	(60) 5,020	(60.5) 4,440	(66) 3,840	(69.5)	
105	(52.5) 5,510	(55.5) 5,030	(57.5) 4,770	(58.5) 4,130	(64) 3,610	(67.5)	
110	(50) 5,170	(53) 4,760	(55) 4,550	(56.5) 3,850	(62) 3,400	(65.5) 3,130	
115	(47.5) 4,830	(50.5) 4,510	(52) 4,340	(54.5) 3,590	(60) 3,200	(63.5) 2,970	
120	(45) 4,230	(47.5) 4,280	(49.5) 4,150	(52.5) 3,360	(58) 3,020	(61) 2,820	
125	(42) 3,690	3,960	(46.5)	(50.5) 3,140	(55.5) 2,840	(59) 2,680	
	(39)	(41.5) 3,430		(48) 2,940	(53.5) 2,690	(56.5) 2,540	
130	(36)	(38.5)		(46)	(51) 2.540	(54)	
135	(32)	(35) 2,480		(43.5) 2,590	(48.5) 2,400	(51.5) 2,300	
140	(28) 1,940	(30.5)		(41) 2,430	(46) 2,270	(48.5)	
145	(23)			(38.5)	(43.5) 2.140		
150	(16.5)			(35.5)	(40.5) 2,030		
155				(32.5)	(37) 1,710		
160				(29) 1.120	(33.5)		
165 Minimum harmanala				1,120 (24.5)			
Minimum boom angle (°) for indicated length (no load) Maximum boom length	15	28	44	23	31	46	

NUTE: () Boom angles are in degrees.

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

*This canacity is based upon maximum boom angle.

NOTES:

Note: () Reference radii in feet.

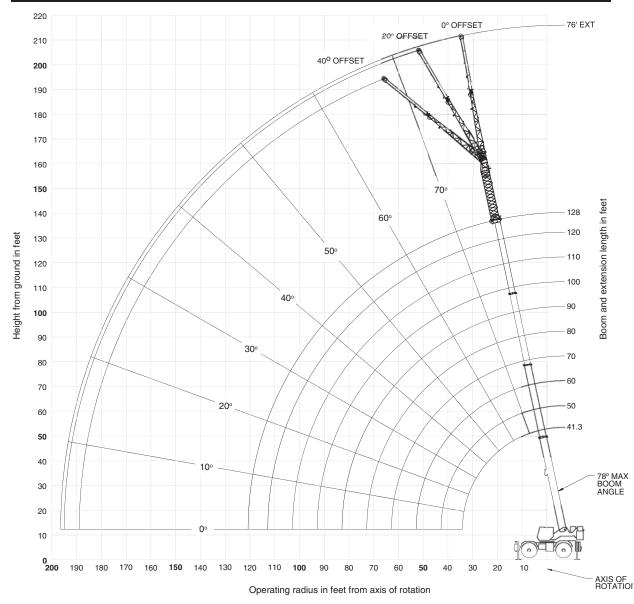
**This boom length is with inner-mid fully extended and outer-mid & fly fully retracted.

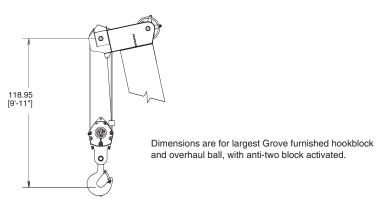
- All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765.
- The 33 ft. extension length may be used with single or double part line lifting service. The 56 ft. extension length may be used for single line lifting service only.
- 3. For main boom lengths less than 128 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 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
- 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.
- When lifting over the main boom nose with 33 ft. or 56 ft. extension erected, the outriggers must be fully extended or 50% extended (17 ft. 4 in. spread).

RT880

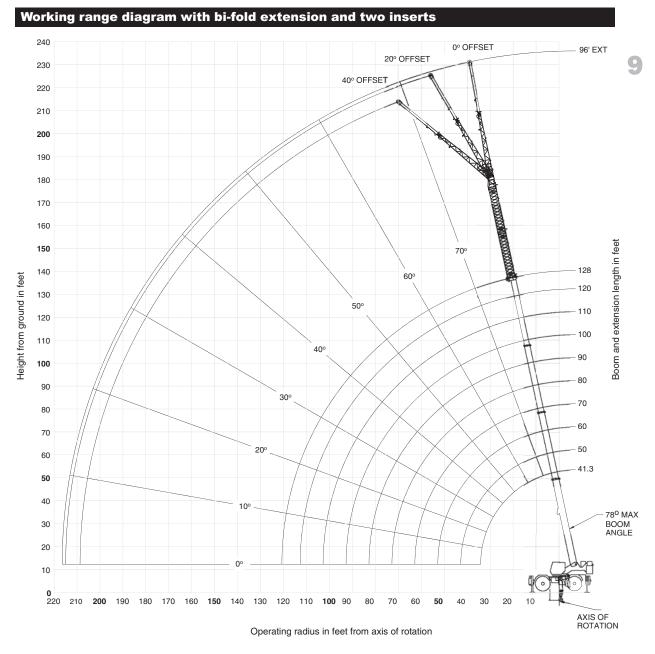
working range

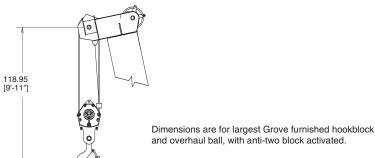
Working range diagram with bi-fold extension and one insert





working range





RT880E load chart

76 ft. (56 ft. LENGTH+1
0° 20°
0FFSET OFFSET

41.3-128 ft.

tt. insert 18,000 lbs 100% 360° 360°

(met.	~~~~~	Pounds		
	76 ft. (56 ft.	LENGTH +	1 INSERT)	96 ft. (56 ft.	LENGTH + 2	INSERTS)
[]	0° OFFSET	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
Feet	#0084	#0085	#0086	#0084	#0085	#0086
50	4,850 (78)					
55	4,850 (77.5)			3,520 (78)		
60	4,850 (76)			3,520 (77.5)		
65	4,850 (74.5)	*5,290 (78)		3,520 (76.5)		
70	4,850 (73)	4,860 (77.5)		3,520 (75)		
75	4,850 (71.5)	4,470 (76)		3,520 (73.5)	3,740 (78)	
80	4,730 (70)	4,110 (74.5)	*4,050 (78)	3,520 (72.5)	3,420 (76.5)	
85	4,310 (68.5)	3,790 (73)	3,500 (76.5)	3,300 (71)	3,100 (75)	*3,250 (78)
90	3,940 (67)	3,500 (71)	3,260 (75)	2,970 (69.5)	2,820 (73.5)	2,720 (77)
95	3,610 (65.5)	3,240 (69.5)	3,030 (73)	2,660	2,560 (72)	2,490 (75.5)
100	3,310 (64)	3,000	2,830 (71.5)	2,390 (66.5)	2,320 (71)	2,270 (74)
105	3,040 (62)	2,770 (66)	2,630 (69.5)	2,140 (65)	2,100 (69.5)	2,070 (72)
110	2,790 (60.5)	2,570 (64.5)	2,450 (68)	1,920 (63.5)	1,900 (68)	1,890 (70.5)
115	2,560 (58.5)	2,370 (62.5)	2,280 (66)	1,710 (62)	1,710 (66.5)	1,710 (69)
120	2,350 (57)	2,200 (61)	2,120 (64)	1,520 (60.5)	1,540 (64.5)	1,550 (67.5)
125	2,160 (55)	2,030 (59)	1,970 (62)	1,350 (59)	1,380 (63)	1,390 (66)
130	1,990 (53)	1,880 (57)	1,830 (60)	1,190 (57.5)	1,230 (61.5)	1,250 (64)
135	1,820 (51.5)	1,730 (55)	1,700 (58)	1,040	1,080 (60)	1,110 (62.5)
140	1,670 (49.5)	1,590 (53)	1,570 (56)			
145	1,530 (47)	1,470 (51)	1,450 (53.5)			
150	1,400 (45)	1,340 (49)	1,340 (51.5)			
155	1,270 (43)	1,230 (46.5)	1,230 (48.5)			
160	1,160 (40.5)	1,120 (44)	1,130 (46)			
165	1,050 (38)	1,020 (41.5)				
Minimum boom ar (°) for indicated length (no load)	36	40	44	54	58	60
Maximum boon length (ft.) at 0° bo angle (no load)	oom	70			60	
NOTE: () Boom a		arees			A6-	829-103655

NOTE: () Boom angles are in degrees.
#LMI operating code. Refer to LMI manual for operating instructions.
*This capacity is based upon maximum boom angle.
RT875E - S/N 223963

NOTES:

 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.

A6-829-103655

- The 56 ft. boom extension length may be used for single line lifting service only.
- 3. For main boom lengths less than 128 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.
- Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- When lifting over the main boom nose with 56 ft. extension erected and inserts, the outriggers must be fully extended and vertical iacks set.

41.3-90 ft.	18,	000 lbs	Stationa	ry	Q 360°	
			- Mil	Pounds		
			#9	005		
		M	lain Boom L	ength in Feet		
Feet	41.3	50	60	*70	80	90
12	49,200 (67.5)	40,750 (72)				
15	39,150 (63)	35,700 (68.5)		_		
20	24,200 (54.5)	24,350 (62)	22,800 (67.5)	22,000 (71)		
25	16,200 (44.5)	16,200 (55)	15,600 (62)	15,950 (66.5)	15,850 (70)	
30	11,250 (31.5)	11,250 (47)	10,950 (56)	10,650 (62)	11,600 (66)	12,150 (69.5)
35		7,900 (37.5)	7,690 (49.5)	7,270 (57)	8,420 (62)	8,820 (66)
40		5,490 (24.5)	5,280 (42.5)	4,880 (52)	6,020 (58)	6,330 (62)
45			3,430 (34)	3,110 (46)	4,130 (53)	4,480 (58.5)
50			1,350 (22)	1,740 (39.5)	2,610 (48.5)	3,040 (54.5)
55					1,360 (43)	1,070 (50)
Minimum boo	om angle (de gth (no load)	g.) for	21	38.5	42	49
Maximum bo deg. boom ar				5	0	
#LMI operation	ng code. Ref m angles are	er to LMI man		octions. and outer-mid	& fly fully	

A6-829-0103649A

41.3-90ft. 18,000 lbs Pick & Carry Up to 2.5 mph Pounds

Note: () Reference radii in feet.

			#90	006		
G		м	ain Boom	Lenath in F	eet	
Feet	41.3	50	60	*70	80	90
12	59,450 (67.5)	49,400 (72)				
15	49,650 (63)	49,400 (68.5)				
20	38,100 (54.5)	37,800 (62)	36,850 (67.5)	29,750 (71)		
25	30,000 (44.5)	29,700 (55)	29,200 (62)	29,700 (66.5)		
30	24,100 (31.5)	23,750 (47)	23,500 (56)	23,850 (62)	24,450 (66)	
35		18,000 (37.5)	17,900 (49.5)	18,150 (57)	19,000 (62)	19,900 (66)
40		13,650 (24.5)	13,700 (42.5)	13,750 (52)	14,700 (58)	15,500 (62)
45			9,400 (34)	9,290 (46)	11,500 (53)	12,300 (58.5)
50			7,420 (22)	7,200 (39.5)	8,220 (48.5)	8,960 (54.5)
55				5,450 (31.5)	6,510 (43)	7,220 (50)
60				3,970 (21)	5,060 (37)	5,740 (45.5)
65					3,810 (29.5)	4,460 (40.5)
70					2,720 (19)	3,350 (34.5)
75						2,380 (28)
80						1,520 (18)
Minimum b	oom angle (deg.) for ind	icated lengt	h (no load)		0

80
Minimum boom angle (deg.) for indicated length (no load)
Maximum boom length (ft.) at 0 deg. boom angle (no load)
#LMI operating code. Refer to LMI manual for instructions.
Note: () Boom angles are in degrees.

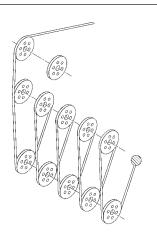
Note: () Reference radii in feet.
*This boom length is with inner-mid fully extended and outer-mid & fly fully retracted.

NOTES:

- 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 29.6x25 (34 ply)
 General tires at 76 psi cold inflation pressure.
- 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.

RT 880

load handling



11

Hoist Performance								
Wire Rope Layer	Hoist Line Two Speed Low	Hoist High	Drum Rope Capacity (ft.) 15 in. Drum					
	Available lb.*	Available lb.*	Layer	Total				
1	20,250	9,610	101	101				
2	18,490	8,770	110	211				
3	17,010	8,070	120	331				
4	15,750	7,470	129	460				
5	14,660	6,960	139	599				
	*Max. lifting cap	pacity: 6x37 or 35x7 cl	ass = 16,800 lb.					

Installation and Removal of Counterweight and Auxiliary Hoist

Rated Lifting Capacities in Pounds on Outriggers Fully Extended – 360°

Radius in Feet	LMI Code #0801 Main Boom Length 41.3 ft.*
10	24,000
12	24,000
15	24,000
20	24,000
25	24,000
30	24,000

*The boom must be fully retracted.

Weight Reductions for Load Handling Devices

33 FT56 FT. FOLDING BOOM EXTENSION	
*33 ft. Extension (Erected) -	3,700 lb.
*56 ft. Extension (Erected) -	7,830 lb.
*76 ft. (1 insert Erected) -	10,350 lb.
*96 ft. (2 inserts Erected) -	13,300 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.

 AUXILIARY BOOM NOSE
 136 lb

 HOOKBLOCK AND OVERHAUL BALL:
 80 USt, 5 Sheave

 40 USt, 3 Sheave
 1,319 lb + 1,200 lb +

+ Refer to rating plate for actual weight.

10 USt, Overhaul Ball

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.

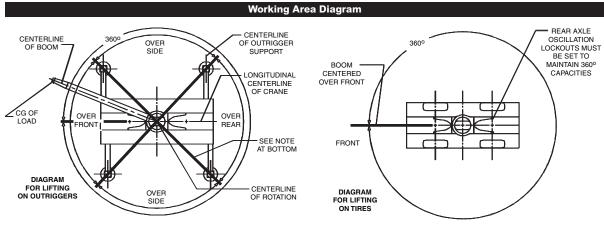
568 lb +

Li	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.	600 ft.							
Main & Aux.	3/4" (19 mm) Flex-X 35 Rotation Resistant (non-rotating) Min. Breaking Strength 85,800 lb.	16,800 lb.	607 ft.							

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

Boom Section vs. Section Extension Percentages

	Main Boom Length in Feet									
	41.3	50	60	70	80	90	100	110	120	128
Boom sections: Percent Extension										
Inner-mid	0	30	65	100	100	100	100	100	100	100
Outer-mid	0	0	0	0	17	34	52	69	86	100
Fly	0	0	0	0	17	34	52	69	86	100



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





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