

Grove RT880E

Product Guide



Features

- 75 t (80 USt) capacity
- 12,6 m 39,0 m (41 ft 128 ft) four-section, full power boom
- 10,0 m 17,0 m (33 ft 56 ft) offsettable lattice swingaway extension
- 6,1 m (20 ft) or 12,2 m (40 ft) extension inserts
- Grove MEGAFORM™ boom
- Cummins 205 kW (275 hp) Tier IV, diesel engine
- 8165 kg (18,000 lb) hydraulic removable counterweight

Features



Boom

The 39,0 m (128 ft) four-section full power MEGAFORM™ boom eliminates weight and increases capacity compared to conventional boom shapes.



Removable counterweight

Counterweight and auxiliary hoist is hydraulically removed/installed for easier hauling from job to job.



Extensions

Maximum tip height of 70,6 m (232 ft) with 17,0 m (56 ft) bi-fold and two 6,1 m (20 ft) inserts.



CraneSTAR is an exclusive and innovative crane asset management system that helps improve your profitability and reduce costs by remotely monitoring critical crane data. Visit www.cranestar.com for more information.

Cab

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

Contents

Specifications	4
Dimensions and weights	7
Working range	8
Load charts	9
Working range with inserts	11
Load chart with inserts	13
Load handling	15
Symbols glossary	16

Specifications

Superstructure



Boom

12,6 m - 39,0 m (41 ft - 128 ft) four-section, sequenced synchronized full power boom. Maximum tip height: 41,9 m (138 ft).



Lattice extension

10,0 m - 17 m (33 ft - 56 ft) offsettable bi-fold lattice swingaway extension. Offsets 0°, 20°, and 40°. Stows alongside base boom section.

Maximum tip height: 58,6 m (192 ft).



*Optional lattice extension inserts

(2) x 6,1 m (20 ft) lattice extension inserts. Installs between the boom nose and bi-fold extension, non-stowable.

Maximum tip height: 70,6 m (232 ft).



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 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

20° tilt, Full-vision, all-steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe seat incorporates single-axis hydraulic controllers. Tilt/telecoping steering wheel with various controls incorporated into the steering column. 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, seat belt, air conditioning, and dual cab mounted work light.



Swing

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

8165 kg (18,000 lb). Hydraulically installed and removed.



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: 9185 kg (20,250 lb) 3rd layer: 7715 kg (17,010 lb) 5th layer: 6650 kg (14,660 lb)

Maximum permissible line pull:

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

Maximum single line speed: 156 m/min (514 fpm)

Rope construction:

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

Rope diameter: 19 mm (3/4 in)

Rope length:

Main hoist: 182,8 m (600 ft) Auxiliary hoist: 182,8 m (600 ft)

Maximum rope stowage: 256 m (841 ft)

Specifications

Carrier



Chassis

Box section frame fabricated from high-strength, low alloy steel. 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 setting, 0%, 50% and fully extended. All steel fabricated, quick-release type round outrigger floats, 775 mm (30.5 in) diameter. Maximum outrigger pad load: 56 700 kg (125,000 lb). Outrigger monitoring system comes standard.



Outrigger controls

Controls and crane level indicator located in cab.



Engine (Tier IV)

Cummins QSB 6.7L diesel, six-cylinder, turbocharged. 205 kW (275 bhp) at 2500 rpm.

Meets emission requirements per U.S. E.P.A., Tier IV and E.U. Stage III B.

Maximum torque: 992 Nm (732 ft lb) at 1500 rpm.

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

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



Engine (Tier III)

Cummins QSB 6.7L diesel, six cylinders, 205 kW (275 bhp) (Gross) at 2500 rpm.

Maximum torque: 987 Nm (728 ft lb) at 1500 rpm. Note: Required for sale outside of North American and European Union countries.



Fuel tank capacity

280 L (74 gal) - draw volume.



Transmission

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



Hydraulic system

Two main pumps ([1] piston and [1] gear) with a combined capacity of 503 LPM (133 GPM). Maximum operating pressure: 277,7 bar (4000 psi). 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. 959 L (253 gal) hydraulic reservoir. Carrier mounted oil cooler with thermostatically controlled hydraulic motor driven fan/air to oil. System pressure test ports.



Electrical system

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



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 indicator.

Turning radius - 25 ft.



Axles

Drive/steer with differential and planetary Front: reduction hubs rigid-mounted to frame.

Drive/steer with differential and planetary

Rear: reduction hubs pivot-mounted to frame.



Oscillation lockouts

Automatic full hydraulic lockouts on rear axle permits 25,4 cm (10 in) oscillation only with boom centered over the front.

Specifications

Carrier continued



Brakes

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



Tires

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



Lights

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



Maximum speed

32 kph (20 mph)



Gradeability (theoretical)

75% (Based on 49 060 kg [108,158 lb] G.V.W) 29.5 x 25 tires, 39,0 m (128 ft) boom, plus 17,0 m (56 ft) swingaway, 8165 kg (18,000 lb) counterweight, 80 USt hook block and 10 Ust headache ball).

Miscellaneous standard equipment

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

*Optional equipment

- Auxiliary Lighting and Convenience Package: Includes superstructure mounted amber flashing light, dual base boom mounted floodlights, in-cab LMI light bar, and rubber mat for stowage trough.
- Value Package: Includes manual offsettable bi-fold, 360° swing lock, and auxiliary hoist package
- Auxiliary Hoist Package: Includes auxiliary hoist with electronic drum rotation indicator, cable follower, 185 m (607 ft) wire rope and hoist mirror.
- 360° NYC style mechanical swinglock
- Rear Pintle hook
- Cab controlled cross axle differential locks, (front and rear)
- Event recorder
- Third wrap indicator for main hoist or main and auxiliary hoist
- Wireless windspeed
- C.E. Mark conformance

Dimensions and weights

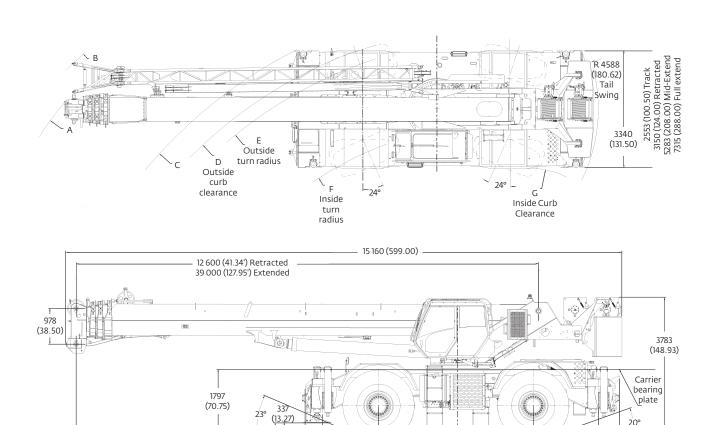
20°

3835

(151.00)

8569 (337.36)

Dimensions														
Tire size	Α	В	С	D	E	F	G	Α	В	С	D	E	F	G
29.5 X 25	16.6 m (54.5')	17.2 m (56.4')	13.6 m (44.7')	12.9 m (42.4')	12.5 m (41.0')	12.5 m (33.2')	8.8 m (28.8')	11.1 m (36.5')	11.6 m (38.1')	8.4 m (28.0')	7.8 m (25.7')	7.3 m (24.0')	4.9 m (16.2')	4.1 m (13.5')
2 Wheel Steer								4	Wheel Stee	er				



All dimensions are in mm (in)

_ 3688 _ (145.20)

4216 (166.00)

711 (28.00)

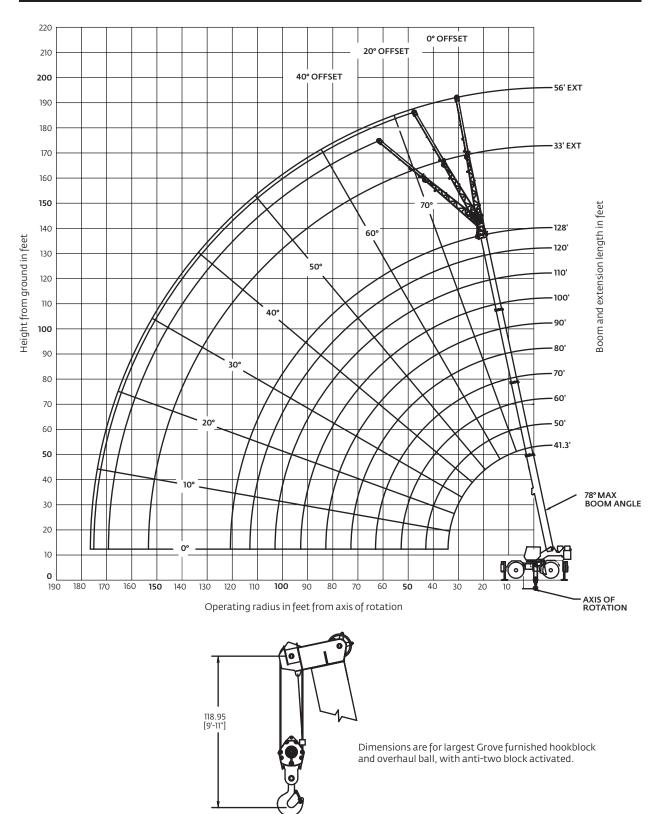
6243 (245.71)

Weights			
	G.V.W.	Front	Rear
	kg (lb)	kg (lb)	kg (lb)
Basic Machine: Including 39, 0 m (128 ft) main boom, main and aux. hoist with 182,8 m (600 ft) of rope, manual offsettable bifold swingaway, full counterweight, 9,1 t (10 USt) headache ball, and 75 t (80 USt) hook block, air conditioning, aux. nose:	49 588	24 474	25 114
	(109,321)	(53,956)	(55,365)
Remove: Counterweight and aux. hoist (manual offsettable S/A).	40 428	28 850	11 579
	(89,128)	(63,602)	(25,526)
Remove: Counterweight, aux. hoist, and manual offsettable S/A	39 229	26 692	12 537
	(86,483)	(58,845)	(27,638)

7 Grove RT880E

Working range

Working range diagram with bi-fold extension



RT880E load chart

.3 ft - 128 ft	18,000 lb		00% spread	Q						
					P P	ounds				
Feet	41.3	50	60		Aain boom lei 80	ngth in feet 90	100	110	120	128
10	++160,000 (71)	124,000 (74.5)	105,500 (77.5)							
12	+150,000 (67.5)	124,000 (72)	105,500 (75.5)	59,500 (78)						
15	130,000 (63)	124,000 (68.5)	104,000 (72.5)	59,500 (75.5)	42,100 (78)	*42,000 (78)				
20	100,000 (54.5)	99,850 (62)	85,900 (67.5)	59,500 (71)	42,100 (74)	42,000 (76)	*39,650 (78)	*31,950 (78)		
25	80,550 (44.5)	80,250 (55)	72,550	57,050	42,100	42,000	39,650	31,950	*25,750 (78)	*22,000 (78)
30	59,050	58,150 (47)	(62) 57,850	(66.5) 49,300 (62)	(70) 42,100	(73) 39,050	(75) 36,150	(77) 31,950 (74)	(78) 25,750	(78) 22,000
35	(31.5)	43,250	(56) 43,000	42,600	(66) 38,150	(69.5) 34,100	(72) 31,350	29,300	(76) 25,750	(77) 22,000
40		(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
45		(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
50	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
55	Note 16		(22)	(39.5) 17,250	(48.5) 18,650	(54.5) 19,400	(59) 19,700	(62.5) 18,200	(65.5) 17,100	(67.5) 16,400
60				(31.5) 14,200	(43) 15,600	(50) 16,400	(55) 17,050	(59.5) 16,450	(63) 15,450	(65) 14,750
65				(21)	(37) 13,100	(45.5) 13,850	(51.5) 14,550	(56) 14,950	(60) 14,000	(62.5) 13,350
70					(29.5) 11,050	(40.5) 11,800	(47.5) 12,450	(53) 12,900	(57) 12,700	(59.5) 12,150
75					(19)	(34.5) 10,000	(43) 10,700	(49.5) 11,200	(54) 11,600	(57) 11,050
						(28) 8540	(38.5) 9170	(45.5) 9670	(51) 10,150	(54) 10,100
80						(18)	(33) 7860	(41.5) 8360	(47.5) 8850	(51) 9180
85							(26.5) 6710	(37) 7210	(44) 7700	(48) 8050
90							(17.5)	(32) 6200	(40) 6700	(44.5) 7050
95								(25.5) 5310	(35.5) 5800	(41) 6160
100								(17)	(30.5)	(37)
105									(25)	(32.5)
110									4290 (16.5)	4640 (27.5)
115										4000 (21.5)
120										3410 (10.5)
Maximum boo #LMI operatin This capacity Note: () Boom +9 parts line re	om angle (°) for i om length (ft) at og code. Refer to is based upon to n angles are in d equired to lift th e required to lift	t 0° boom and LMI manual maximum ob egrees. iis capacity (u	gle (no load) I for instruction tainable boom Using aux. book	n angle. m nose). Refer	to Operator's fer to Operatc	& Safety Handl r's & Safety Har	oook for reevin	ig diagram. ving diagram.		9 120
				apacities at z	ero degree bo	om angle				
Boom angle	41.3	50	60	**70	Aain boom le r 80	90	100	110	120	
	20.750	15.150	10.500	6700	5100	3900	2900	2000	1300	

- 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. 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
- 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.
- 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 33 ft or 56 ft extension erected, the outriggers must be fully extended or 50% extended (17 ft 4 in spread).

RT880E load chart

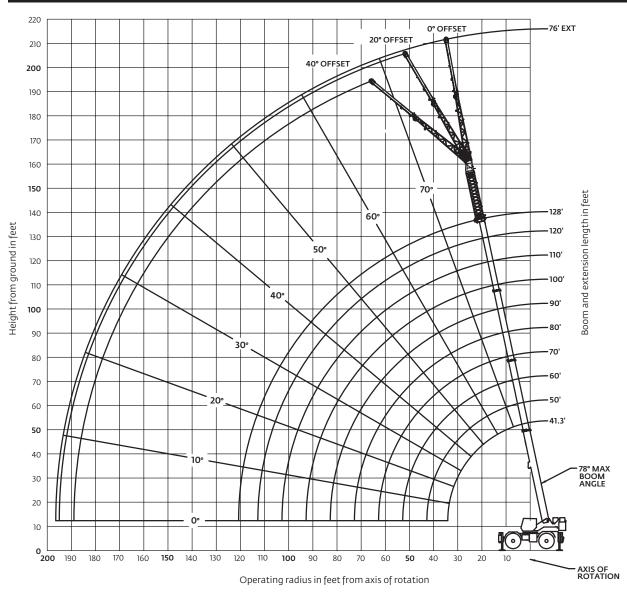
41.3 ft - 128 ft	7 33 ft - 5) 6 ft 1	8,000 lb	<u>F</u>	196	Q
41.5 120 1	22 1 2	ο ι · · · · · · · · · · · · · · · · · ·	6,000 ID	100 24 ft sp		360°
			VANAMAN	Pounds		
	O°	33 ft LENG 20°	GTH 40°	0°	TH 40°	
Feet	OFFSET #0021	OFFSET #0022	OFFSET #0023		20° OFFSET #0042	OFFSET #0043
35	11,900 (78)	#0022	#0023	#0041	#0042	#0043
40	11,900			6060 (78)		
45	11,900 (75.5)	*11,900 (78)		6060 (77.5)		
50	11,900 (73.5)	10,600 (76.5)	*9790 (78)	6060 (76)		
55	11,900 (71.5)	9770 (74.5)	8470 (77)	6060 (74.5)		
60	11,000 (69.5)	9020 (72.5)	7920 (75)	6060 (72.5)	*6060 (78)	
65	10,000 (67.5)	8360 (70.5)	7430 (73)	6060 (71)	5900 (76.5)	
70	9190 (65.5)	7780 (68.5)	6980 (71)	6060 (69.5)	5730 (75)	*5060 (78)
75	8460 (63.5)	7260 (66.5)	6580 (69)	6060 (67.5)	5330 (73)	4640 (77)
80	7820 (61.5)	6790 (64.5)	6210 (66.5)	6040 (66)	4980 (71.5)	4370 (75.5)
85	7250 (59.5)	6370 (62)	5870 (64.5)	5570 (64)	4650 (69.5)	4120 (73.5)
90	6740 (57)	5990 (60)	5560 (62)	5150 (62.5)	4360 (67.5)	3890 (71.5)
95	6290 (55)	5640 (57.5)	5280 (60)	4780 (60.5)	4090 (66)	3680 (69.5)
100	5880 (52.5)	5320 (55.5)	5020 (57.5)	4440 (58.5)	3840 (64)	3480 (67.5)
105	5510 (50)	5030 (53)	4770 (55)	4130 (56.5)	3610 (62)	3300 (65.5)
110	5170 (47.5)	4760 _ (50.5)	4550 (52)	3850 (54.5)	3400 (60)	3130 (63.5)
115	4830 (45)	4510 (47.5)	4340 (49.5)	3590 (52.5)	3200 (58)	2970 (61)
120	4230 (42)	4280 (45)	4150 (46.5)	3360 (50.5)	3020 (55.5)	2820 (59)
125	3690 (39)	3960 (41.5)		3140 (48)	2840 (53.5)	2680 (56.5)
130	3200 (36)	3430 (38.5)		2940 (46)	2690 (51)	2540 (54)
135	2740 (32)	2930 (35)		2760 (43.5)	2540 (48.5)	2420 (51.5)
140	2320 (28)	2480 (30.5)		2590 (41)	2400 (46)	2300 (48.5)
145	1940 (23)			2430 (38.5)	2270 (43.5)	
150	1580 (16.5)			2070 (35.5)	2140 (40.5)	
155				1730 (32.5)	2030 (37)	
160				1420 (29)	1710 (33.5)	
165				1120 (24.5)		
Minimum boo angle (°) for indicated length (no loa	15 d)	28	44	23	31	46
Maximum boolength (ft) at boom angle (0°	110			110	

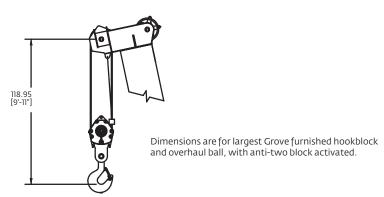
NOTE: () Boom angles are in degrees. A6-829-103653 #LMI operating code. Refer to LMI manual for operating instructions. *This capacity is based upon maximum boom angle.

- 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
- 2. The 33 ft extension length may be used with single
- 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.
 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
- 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 33 ft or 56 ft extension erected, the outriggers must be fully extended or 50% extended (17 ft 4 in spread).

Working range

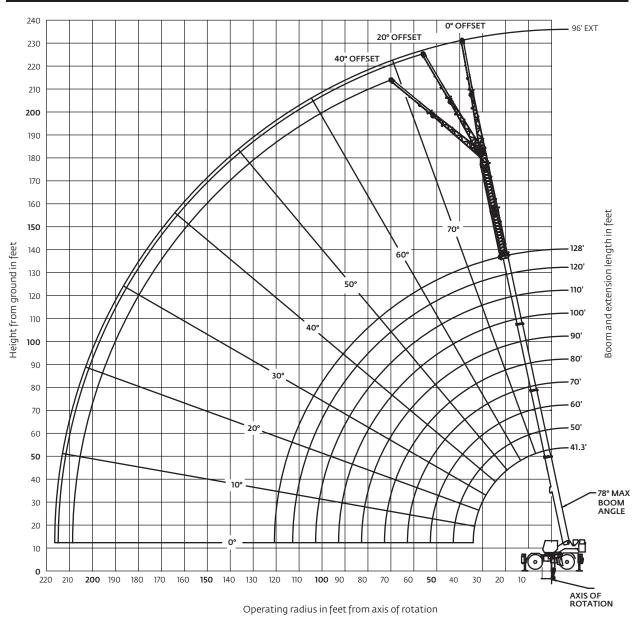
Working range diagram with bi-fold extension and one insert

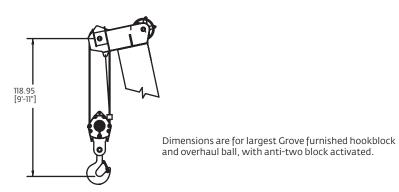




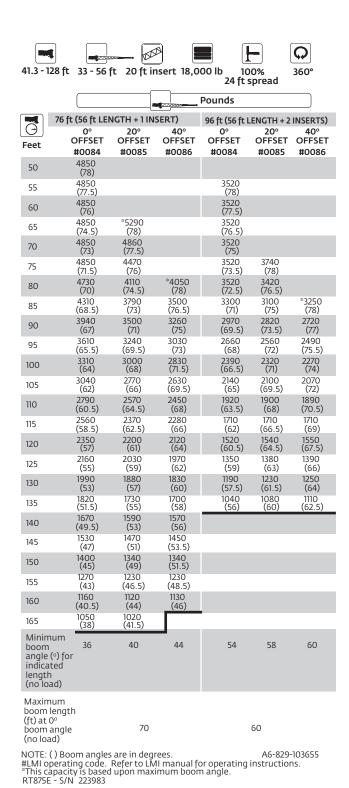
Working range

Working range diagram with bi-fold extension and two inserts





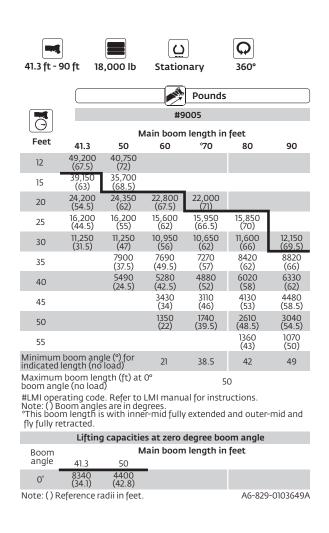
RT880E load chart



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.
- 2. 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 jacks set.

RT880E load charts



41.3 ft - 90	ft 18.0	00 lb	<u>(Ω</u> Pick & ca	rrv Bo	om cente	red
			Jp to 2.5		over fron	
				Pounds		
			#9	0006		
Feet	41.3	M 50	lain boom 60	length in	feet 80	90
12	59,450 (67.5)	49,400 (72)		7.0		30
15	49,650 (63)	49,400 (68.5)				
20	38,100	37,800	36,850	29,750		
25	(54.5) 30,000 (44.5)	(62) 29,700 (55)	(67.5) 29,200 (62)	(71) 29,700 (66.5)		
30	24,100	23,750	23,500	23,850	24,450	
35	(31.5)	(47) 18,000	(56) 17,900	(62) 18,150	19,000	19,900
40		(37.5) 13,650	(49.5) 13,700	(57) 13,750	(62) 14,700	(66) 15,500
45		(24.5)	9400	(52) 9290	(58) 11,500	(62) 12,300
50			(34) 7420	(46) 7200	(53) 8220	(58.5) 8960
55			(22)	(39.5) 5450	(48.5) 6510	(54.5) 7220
				(31.5)	(43) 5060	(50) 5740
60				(21)	(37) 3810	(45.5) 4460
65					(29.5) 2720	(40.5) 3350
70					(19)	(34.5)
75						2380 (28)
80						1520 (18)
	boom ang			_		90
#LMI oper	ating code oom angle	. Refer to L	MI manua	_		
	Lifting	capacitie			_	
Boom angle	41.3	№ 50	lain boom 60	length in *70	feet 80	90
0°	19,400 (34.1)	10,250 (42.8)	6460 (52.8)	3170 (63)	2170 (72.8)	1080 (82.8)

Note: () Reference radii in feet. *This boom length is with inner-mid fully extended and outer-mid and fly fully retracted. A6-829-0103650

NOTES

- 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 29.6 x 25 (34 ply) General tires at 76 psi 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 200 ft of movement in any 30 minute period and not exceeding 1 mph.

Load handling

Weight reductions for load handling devices

33 ft - 56 ft FOLDING BOOM EXTENSION	
*33 ft Extension (Erected) -	3700 lb
*56 ft Extension (Erected) -	7830 lb
*76 ft (1 insert Erected) -	10,350 lb
*96 ft (2 inserts Erected) -	13,300 lb
*Reduction of main boom capacities	

*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
HOOK BLOCK AND OVERHAUL BALL:	
80 USt, 5 Sheave 40 USt, 3 Sheave 10 USt, Overhaul Ball	1319 lb + 1200 lb + 568 lb +

+ Refer to rating plate for actual weight.

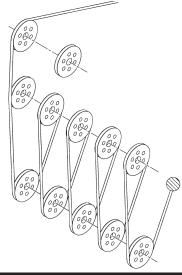
NOTE: All load handling devices and boom attachments are considered part of the load and suitable allowances MUST BE MADE for their combined weights. Weights are for Grove furnished equipment.

	Line pulls and reeving information											
Hoists	Cable specs	Permissible line pulls	Nominal cable length									
Main	19 mm (3/4 IN) 6x37 Class, EIPS, IWRC Special Flexible Min. Breaking Str. 58,800 lb		600 ft									
Main & A	19 mm (3/4) Flex-X 35 ux. Rotation Resistant (non-rotating) Min. Breaking Strength 85,800	16,800 lb	607 ft									

The approximate weight of 3/4 in wire rope is 1.5 lb/ft Boom section vs. section extension percentages

Main boom le	ngth in feet
--------------	--------------

Boom sect	41.3		60	70			100 exter		120	128
Inner-mid			65	100					100	100
Outer-mid	0	0	0	0	17	34	52	69	86	100
Flv	Ω	Λ	Λ	Ω	17	34	52	69	86	100



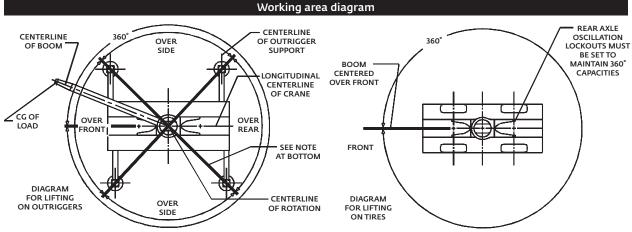
	Hoist performance											
Wire rope layer	Hoist line Two speed Low Available lb°		Drum ro capacity 15 in o Layer	(ft)								
1	20,250	9610	101	101								
2	18,490	8770	110	211								
3	17,010	8070	120	331								
4	15,750	7470	129	460								
5	14,660	6960	139	599								
	*Max lifting	canacity: 6x37 or	35x7 class = 1	6 800 lb								

Installation and removal of counterweight and auxiliary hoist

Rated lifting capacities in pounds on outriggers fully extended – 360°

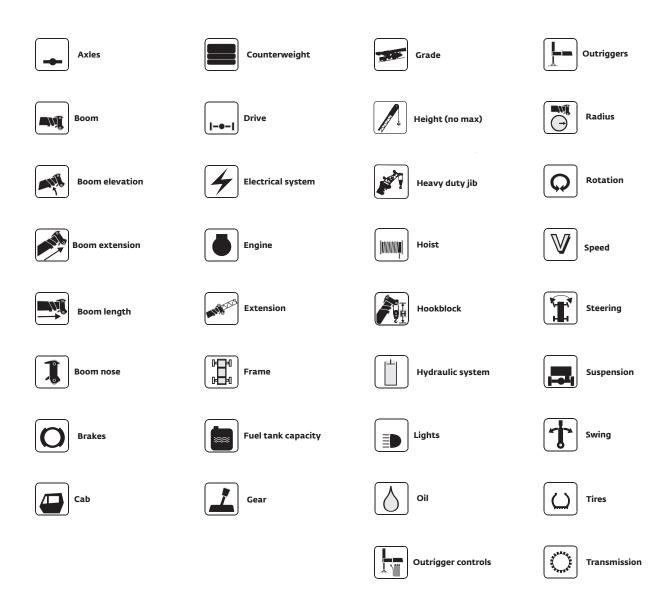
Radius in feet	LMI Code #0801 Main boom length 41.3 ft°
10	24,000
12	24,000
15	24,000
20	24,000
25	24,000
30	24,000

°The boom must be fully retracted.



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

Symbols glossary



Notes

Grove RT880E

Notes

Notes

Grove RT880E



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