



# RT880E





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Please consult Reliable Crane Service for more information.

702-400-2516 or 702-525-0840 sales@reliablecranseservice.com



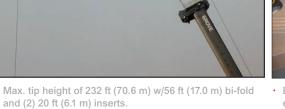
## **features**



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



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.



GROVE

5533 (supersedes 5489)-0608-N6



## **specifications**

#### Superstructure



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 quard.



### 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 laver: 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:

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

Maximum Rope Stowage: 841 ft. (256 m)

\*Denotes optional equipment



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## **specifications**

### Carrier

### (Chassis

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

### Cutrigger 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.

#### 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) @

#### Fuel Tank Capacity

72 gallons (273 L)

### O Transmission

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

#### Flectrical System

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

## Drive

4 x 4

### Steering

Fully independent power steering:

Full hydraulic, steering wheel controlled.

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.

#### Lights

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

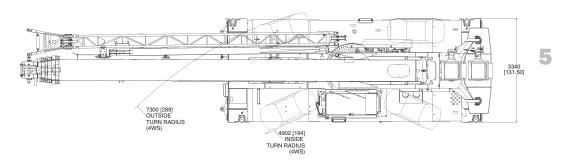


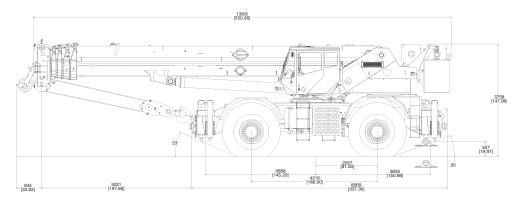


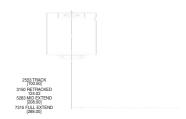
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## dimensions







Note: Reference dimensions in mm [inches]

	G'	vw	Fi	ront	R	ear
	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) bifod swingaway, full counterweight, 10T (91 mt) headache ball, and 80T (75 mt) hookblock:	108,158	49 060	53,888	24 444	54,270	24 617
<b>Remove</b> counterweight and aux. hoist. 56' (17 m) bifold.	87,917	39 879	63,520	28 813	24,397	11 066
<b>Remove</b> counterweight, aux. hoist, and 56' (17 m) bifold swingaway.	85,285	38 685	58,725	26 638	26,560	12 048

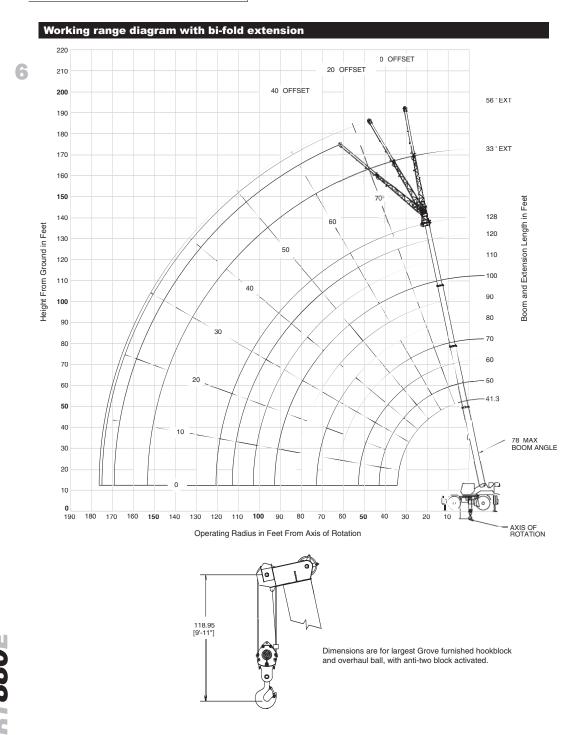




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## working range



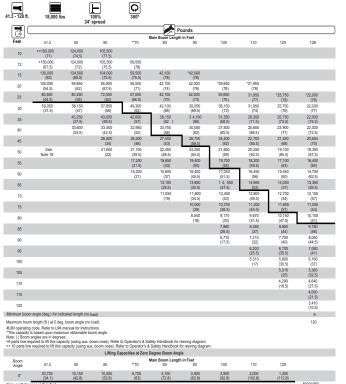
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## **RT880E load chart**



41.3 - 128 ft.	33 - 56 ft.	18	000 lbs	100 24 ft. s	% pread	36
		mig.	V comment	Pounds		
7	0	33 ft. LENG 20	TH 40	0 5	6 ft. LENG 20	TH 40
Feet	OFFSET #0021	OFFSET #0022	OFFSET #0023	OFFSET #0041	OFFSET #0042	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 (65.5)	7,780 (68.5)	6,980 (71)	6,060 (69.5)	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 (66)	4,980 (71.5)	4,370 (75.5)
85	7,250 (59.5)	6,370 (62)	5,870 (64.5)	5,570 (64)	4,650 (69.5)	4,120 (73.5)
90	6,740 (57)	5,990 (60)	5,560 (62)	5,150 (62.5)	4,360 (67.5)	3,890
95	6,290 (55)	5,640 (57.5)	5,280 (60)	4,780 (60.5)	4,090 (66)	3,680
100	5,880 (52.5)	5,320 (55.5)	5,020 (57.5)	4,440 (58.5)	3,840 (64)	3,480
105	5,510 (50)	5,030 (53)	4,770 (55)	4,130 (56.5)	3,610 (62)	3,300
110	5,170 (47.5)	4,760 (50.5)	4,550 (52)	3,850 (54.5)	3,400 (60)	3,130
115	4,830 (45)	4.510	4,340 (49.5)	3,590 (52.5)	3,200 (58)	2,970
120	4.230	(47.5) 4,280	4.150	3.360	3.020	(61) 2,820
125	(42) 3,690	3,960	(46.5)	(50.5) 3,140	(55.5) 2,840	(59) 2,680
130	(39) 3,200	(41.5) 3,430		(48) 2,940	(53.5) 2,690	(56.5) 2,540
135	(36) 2,740	(38.5) 2,930		(46) 2,760	(51) 2,540	(54) 2,420
140	(32)	(35) 2,480		(43.5) 2,590	(48.5) 2,400	(51.5)
145	(28) 1,940	(30.5)		(41)	(46) 2,270	(48.5)
	(23) 1,580			(38.5)	(43.5) 2,140	
150	(16.5)			(35.5)	(40.5)	
				(32.5)	(37)	
160				(29) 1.120	(33.5)	
165 Minimum boom and	la			(24.5)		
( ) for indicated leng (no load)	th 15	28	44	23	31	46
Maximum boom len (ft.) at 0 boom angl (no load)	ě	110			110	
NOTE: ( ) Boom angl #LMI operating code *This capacity is bas	<ul> <li>Refer to LI</li> </ul>	Al manual to	or operating n angle.	instructions.	A6	-829-103

#### 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.
- 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
  warning.
- 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

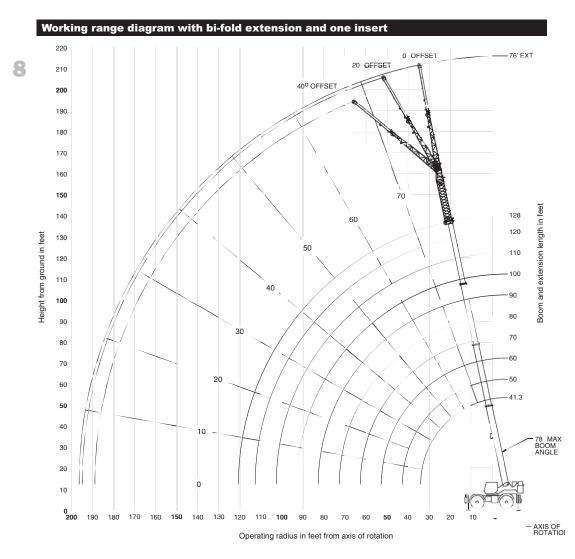
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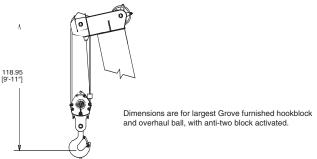
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## working range







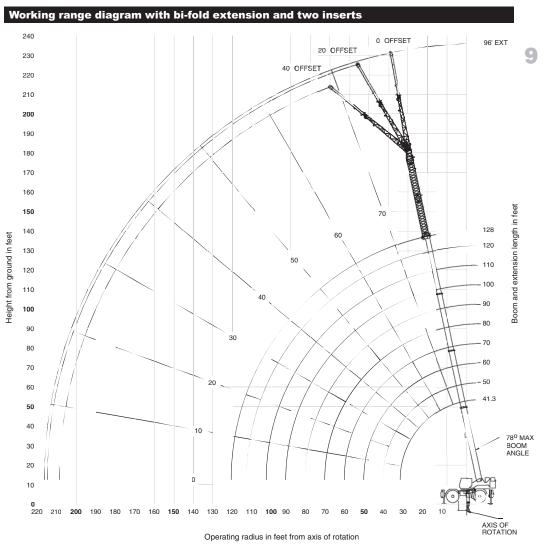
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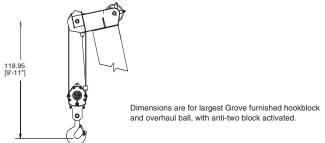


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## working range





880

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Note: ( ) Reference radii in feet.



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## RT880E load chart

10

41.3-128 ft.	33-56 ft.	20 ft. inse	ert 18,0	00 lbs	100% ft. spread	<b>Q</b> 360°
		neg:		Pounds		
<b>I</b>	76 ft. (56 ft.			96 ft. (56 ft.		
Feet	0° OFFSET #0084	20° OFFSET #0085	40° OFFSET #0086	0° OFFSET #0084	20° OFFSET #0085	40° OFFSET #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	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	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
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	1,700	1,040	1,080	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	1,020 (41.5)				
Minimum boom ar (°) for indicated length (no load)	igle 36	40	44	54	58	60
Maximum boom length (ft.) at 0° bo angle (no load)	1	70			60	
NOTE: ( ) Boom as #LMI operating cos *This canacity is b.	de. Refer to Li	MI manual fo	or operating	instructions		829-103655

\*This capacity is based upon maximum boom angle RT875E - S/N 223983

- 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 56 ft. boom 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 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. 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 [	<b>Q</b> 360°	
				Pounds		
<b>7</b>			#91	005		
Feet		M	ain Boom L	ength in Feet		
reet	41.3	50 40.750	60	*70	80	90
12	49,200 (67.5)	40,750				
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)	1
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 indicated leng	m angle (de th (no load)	g.) for	21	38.5	42	49
Maximum boo deg. boom an				50	)	
#LMI operatin Note: ( ) Boon *This boom le retracted.	ig code. Ref	er to LMI man			& fly fully	
	Lifting	•	-	e Boom Angle		
Boom Angle	41.3	50	ain Boom L	ength in Feet		
0°	8,340 (34,1)	4,400 (42.8)				

41.3-90ft.	18,0	00 lbs	Pick & Car Up to 2.5 m		<b>Q</b>	
				Pounds		
			#91	006		
Θ		N	lain Boom	l enath 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 bo	om angle (	deg.) for ind	licated lengt	h (no load)		0
Maximum b	oom length	(ft.) at 0 deg	g. boom ang	le (no load)		90
#LMI operat Note: ( ) Bo				nstructions.		
	Lifting	Capacities	at Zero De	gree Boon	Angle	
Boom		M	lain Boom	Length in F	eet	

#### NOTES:

- 1. Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE
- 2. Capacities are applicable to machines equipped with 29.6x25 (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 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.

A6-829-0103649A

- 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.

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5533 (supersedes 5489)-0608-N6



## load handling

#### Weight Reductions for Load Handling Devices 33 FT.-56 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. 13,300 lb. \*96 ft. (2 inserts Erected) -

\*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 HOOKBLOCK AND OVERHAUL BALL: 80 USt, 5 Sheave 40 USt, 3 Sheave 1,319 lb + 10 USt. Overhaul Ball 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.

L	ine Pulls and Reeving I	Informati	on
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 E	Boom L	ength i	n Feet			
	41.3	50	60	70	80	90	100	110	120	128
Boom section	ns:			Per	cent E	xtensio	n			
Inner-mid	0	30	65	100	100	100	100	100	100	100
Outer-mid	0	0	0	0	17	34	52	69	86	100
Flv	0	0	0	0	17	34	52	69	86	100



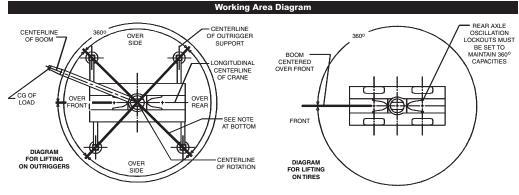
11

	Но	ist Performaı	nce	
Wire Rope Layer	Hoist Line Two Speed Low	Hoist High	Drum Ro Capacity 15 in.	(ft.) 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 capacity: 6x37 or 35x7 class = 16,800 lb.

Installation and Removal of Counterweight and Auxiliary Hoist					
	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.

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.



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