

# **GROVE**®

# RT875E







# **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- • Electronically controlled Cummins diesel fold and (2) 20 ft. (6.3 m) inserts.



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



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. (10.1 m-17 m) offsettable bifold lattice swingaway extension. Offsets 0°, 25° and 45°. 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. (8 168 kg). Hydraulically installed and removed.



#### **Hvdraulic Svstem**

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 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 36 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 37 EIPS IWRC, Special Flexible 35 x 7 Flex-X, Rotation Resistant

Rope Diameter: 3/4" (19 mm)

Rope Length:

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

Maximum Rope Stowage: 841 ft. (256 m)

\*Denotes optional equipment







# **specifications**

#### Carrier



#### ( 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).

#### Gutrigger Controls

Controls and crane level indicator located in cab.

#### Engine

Cummins QSB 5.9L diesel, six cylinders, 275 bhp (205 kW) (Gross) @ 2,500 rpm. Maximum torque: 730 ft. lbs. (990 Nm) @ 1500 RPM

#### Fuel Tank Capacity

72 gallons (273 L)

#### **O** Transmission

Full powershift with 6 forward and 6 reverse speeds. Front axle disconnect for  $4 \times 2$  travel.

## **4** Electrical System

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

## <sub>I-•-I</sub> Drive

4 x 4

#### **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.

#### **A**xles

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 axle.

### <u>ූ</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 109,043 lb. [49 462 kg] GVW)  $29.5\times25$  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**

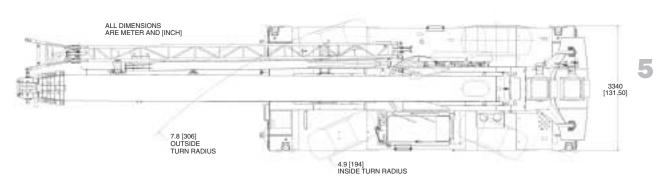
Full width steel fenders, full length aluminum decking, dual rear view mirrors, hookblock tiedown, electronic back-up alarm, light package, front stowage well, tachometer/hourmeter, rear wheel position indicator, 36,000 BTU hot water cab heater, hoist mirrors, engine distress A/V warning system, front/rear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

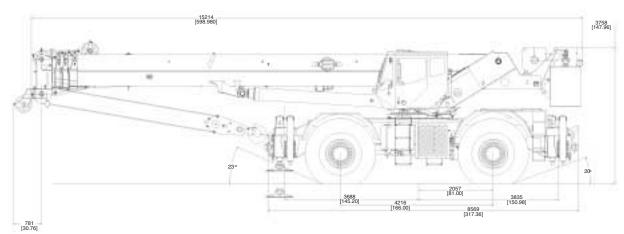
#### \*Optional Equipment

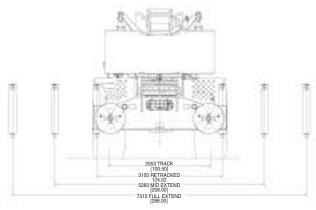
- \*Auxiliary Hoist Package (includes cab mounted amber flashing light, hoist mounted work light, and dual base boom mounted floodlights.)
- \*LMI light bar (in cab)
- \*Air Conditioning (28,500 BTU)
- \*360 degree NYC style mechanical swinglock
- \*Rear Pintle hook
- \*Cab controlled cross axle differential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



# dimensions







Note: [ ] Reference dimensions in mm [inches]

Weights						
	G	vw	Front		Rear	
	lb.	kg	lb.	kg	lb.	kg
RT875E Basic Machine						
Basic Machine including 128 ft. main boom, main and aux. hoist with 600 ft. of scope, manual offsettable bifold swingaway, pull counterweight, 10T headache ball, and 75T hookblock:	107,417	48 724	53,787	24 398	53,630	24 327
Remove counterweight and aux. hoist. Manual offsettable S/A.	87,176	39 543	63,420	28 767	23,756	10 776
Remove counterweight, aux. hoist, and manual offsettable S/A.	84,544	38 349	58,625	26 592	25,919	11 757



# working range

#### Working range diagram with bi-fold extension 0° OFFSET 20° OFFSET 210 40° OFFSET 200 56 ' EXT 190 180 33 ' EXT 170 160 150 Boom and Extension Length in Feet 140 128 60° Height From Ground in Feet 130 110 120 100 110 90 100 90 30° 70 80 60 70 50 60 50 40 78° MAX BOOM ANGLE 30 20 10 130 120 110 **100** 90 80 AXIS OF ROTATION Operating Radius in Feet From Axis of Rotation Dimensions are for largest Grove furnished hookblock and overhaul ball, with anti-two block activated.

## **RT875E load chart**

41.3-128 ft.	18,000 II	bs	100%	(A)						
		24'	spread		P.	ounds				
Feet	44.2	50	60	**70	Main Boom Leng	th in Feet 90	100	110	120	128
10	41.3 +150,000	124,000	105,500	70	00	30	100	110	120	120
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) 34.100	(72) 31,350	(74) 29.300	(76) 25,750	(77)
35		(37.5)	(49.5) 33.400	(57) 32,950	(62) 33,750	(66)	(68.5) 27,500	(71.5) 25,650	(73.5) 23,900	(74.5) 22,000
40		(24.5)	(42.5)	(52)	(58)	(62)	(65.5)	(68.5)	(71)	(72.5)
45			26,600 (34)	26,200 (46)	27,400 (53)	26,750 (58.5)	24,400 (62)	22,700 (65.5)	21,450 (68)	20,650 (70)
50	See Note 16		21,600 (22)	21,150 (39.5)	22,450 (48.5)	23,250 (54.5)	21,850 (59)	20,250 (62.5)	19,100 (65.5)	18,350 (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)	14,550 (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)	10,000 (28)	10,700 (38.5)	11,200 (45.5)	11,600 (51)	11,050 (54)
80						8,540 (18)	9,170	9,670	10,150	10,100
85						(10)	(33) 7,860	(41.5) 8,360	(47.5) 8,850	(51) 9,180
90							(26.5) 6,710	(37) 7,210	(44) 7,700	(48) 8,050
95							(17.5)	(32) 6,200	(40) 6,700	(44.5) 7,050
								(25.5) 5,310	(35.5) 5,800	(41) 6,160
100								(17)	(30.5)	(37)
105									(25) 4.290	(32.5) 4,640
110									(16.5)	(27.5)
115										4,000 (21.5)
120										3,410 (10.5)
	angle (deg.) for i									9 120
.MI operating his capacity ite: ( ) Boom	n length (ft.) at 0 or code. Refer to La is based upon may angles are in degouired to lift this course.	MI manual for ins eximum obtainable grees.	tructions.	efer to Operator's	& Safety Handbo	ok for reeving dia	ıqram.			120
,	,	,, (g uu		apacities at Zero	Degree Boom	Angle	J			
Boom Angle	41.3	50	60	**70	Main Boom Leng 80	th in Feet 90	100	110	120	
0°	20,750	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	

33 ft. LENGTH Feet 0° 20° 40° 0° 20° 40° OFFSET OFFSET OFFSET OFFSET OFFSET #0021 #0022 #0023 #0041 #0042 #0043 35 10,600 (76.5) 50 11,900 (73.5) \*9,790 (78) 6,060 (76) 9,770 (74.5) 9,020 (72.5) 6,060 (74.5) 6,060 (72.5) 6,060 (71) 6,060 (69.5) 7,780 (68.5) 6,040 (66) 5,570 (64) 4,980 (71.5) 7,820 (61.5) 6,790 (64.5) 6,210 (66.5) 5,640 (57.5) 100 4,130 (56.5) 4,830 (45) 4,230 (42) 115 3,360 (50.5) 3,020 (55.5) 2,820 125 3,960 (41.5) 3,430 (38.5) 140 150 165 1,120 (24.5) 46

**Q** 

A6-829-103653

NUTE: () Boom angles are in degrees.

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

\*This canacity is based upon maximum boom angle.

#### NOTES

Note: ( ) Reference radii in feet.

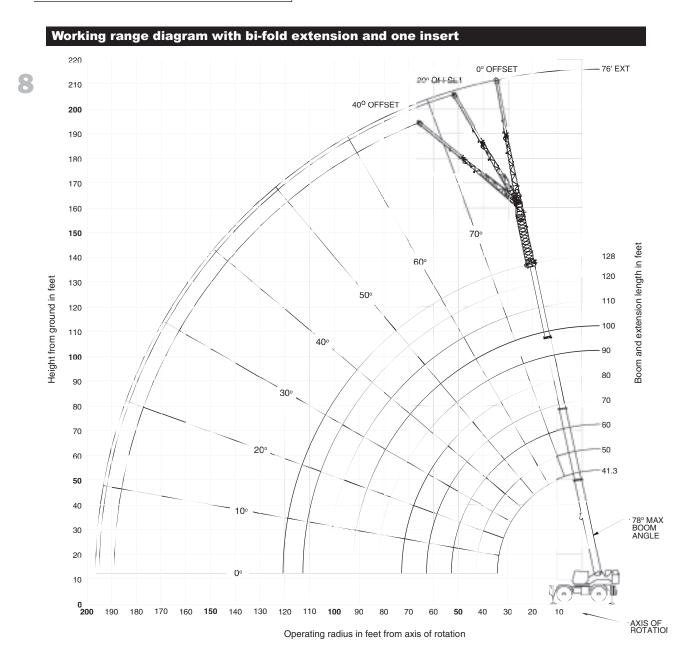
\*\*This boom length is with inner-mid fully extended and outer-mid & fly fully retracted.

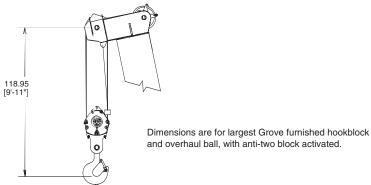
 All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765.

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- 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).

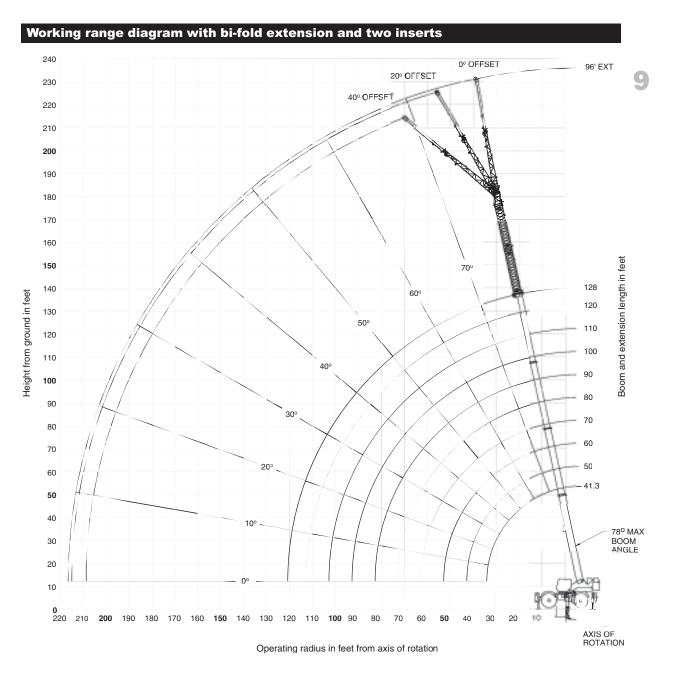
# working range

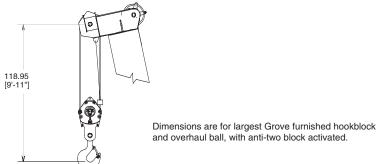






# working range









## **RT875E load chart**

Q

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41.3-128 ft. 3	3-56 ft.	20 ft. insert 18,0		00 lbs 100% 25 ft. sprea		360°
		metro.		Pounds		
	76 ft. (56 ft.	LENGTH + 1	INSERT)	96 ft. (56 ft.	LENGTH + 2	INSERTS)
<u>(</u>	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 (68)	2,560 (72)	2,490 (75.5)
100	3,310 (64)	3,000 (68)	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 (69)
120	2,350 (57)	2,200	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 (56)	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 ang (°) for indicated length (no load)	le 36	40	44	54	58	60
Maximum boom length (ft.) at 0° boo	m	70			60	
angle (no load) NOTE: ( ) Boom ang #LMI operating code *This capacity is bas RT875E - S/N 2239	. Refer to LI sed upon ma	MI manual fo		instructions		329-103655

DDA.

#### NOTES:

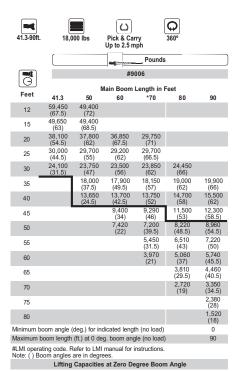
- All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765.
- The 56 ft. boom extension length may be used for single line lifting service only.
- 3. For main boom lengths less than 128 ft. with the boom 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.

41.3-90 ft.	18,000 lbs		Stationary		<b>Q</b> 360°					
		#9005								
		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 booi indicated leng	m angle (de th (no load)	g.) for	21	38.5	42	49				
Maximum boo deg. boom an #LMI operatin	gle (no load	)	nual for instru	50 actions.	)					

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

Note: () Boom angles are in degrees.

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



\*This boom length is with inner-mid fully extended and

#### 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.
- 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.
- 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.

**875** 

# load handling

#### 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.

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.

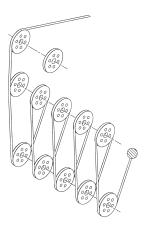
Line Pulls and Reeving Information								
Hoists	Cable Specs	Permissible Line Pulls	Nominal Cable Length					
Main	3/4" (19 mm) 6x37 Class, EIPS, IWRC Special Flexible Min. Breaking Str. 58,800 lb.	16,800 lb.	600 ft.					
Main & Aux.	3/4" (19 mm) Flex-X 35 Rotation Resistant (non-rotating) Min. Breaking Strength 85,800 lb.	16,800 lb.	607 ft.					

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

# Line Pulls and Reeving Information AUXILIARY BOOM NOSE 136 lb. HOOKBLOCK AND OVERHAUL BALL: 75 Ton, 4 Sheave 1,275 lb.+ 10 Ton, Overhaul Ball 568 lb. +

+Refer to rating plate for actual weight.

<b>Boom Section vs. Section Extension Percentages</b>										
	Main Boom Length in Feet									
	41.3	50	60	70	80	90	100	110	120	128
Boom sectio	Boom sections:				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
Fly	0	0	0	0	17	34	52	69	86	100



**Hoist Performance** Hoist Line Pulls Two Speed Hoist Drum Rope Capacity (ft.) 15 in. Drum Rope Low Available lb.\* Layer Layer 20.250 9.610 101 101 18,490 8,770 110 211 17,010 8,070 120 331 3 129 460 15,750 7,470 6,960 139 14,660

#### Installation and Removal of Counterweight and Auxiliary Hoist

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

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

<b>,</b>
LMI Code #0801
Main Boom Length
41.3 ft.*
24,000
24,000
24,000
24,000
24,000
24,000
must be fully retracted.

**Working Area Diagram** REAR AXLE
OSCILLATION
LOCKOUTS MUST
BE SET TO CENTERLINE CENTERLINE OVER OF OUTRIGGER MAINTAIN 360° BOOM CENTERED OVER FRONT ONGITUDINAL CAPACITIES CENTERLINE OF CRANE OVER OVER SEE NOTE FRONT AT BOTTOM DIAGRAM FOR LIFTING ON OUTRIGGERS CENTERLINE DIAGRAM FOR LIFTING OVER SIDE OF ROTATION

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







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