

GROVE

RT9130E





features and benefits



Removable front and rear outrigger boxes provide up to 19,374 lbs. (8 788 kg) of weight reduction for easier transport. Include the removable 40,000 lbs. (18 100 kg) of counterweight, auxiliary hoist and rope, and the RT9130E can easily self-remove close to 64,000 lbs. (29 000 kg).



The 160 ft. (48.8 m) 5 section Full Power boom incorporates the "U" shaped MEGAFORMTM design, which eliminates stiffeners, thus reducing weight and increasing capacity.



The "E" Series cab on the RT9130E tilts up to 20 providing the operator additional comfort when working at long boom and extension lengths.



In addition to the 130 ton capacity, the RT9130E is different from any other rough terrain crane in the industry because of its enormous reach.

A 59 ft. (18 m) offsettable bi-fold lattice swingaway extension and two-26 ft. (8 m) inserts give the RT9130E a maximum tip height of 279 ft. (85 m). A hydraulically offsettable bi-fold lattice swingaway is also available, and conveniently offsets from 0° to 40° from the operator's cab.

Only on all-terrain cranes could this kind of main boom and extension height be achieved ... until now.



superstructure specifications

Superstructure



Boom

42 ft. - 160 ft. (12.8 m - 48.8 m) five-section, sequenced synchronized full power boom. Maximum tip height: 169 ft. (51.5 m)



Lattice Extension

36 ft. - 59 ft. (11 m - 18 m) offsettable bifold lattice swingaway extension. Offsets 0°, 20° and 40°. Stows alongside base boom

Maximum tip height: 227 ft. (69.2 m)



*Optional Lattice Extension

36 ft. - 59 ft. (11 m - 18 m) hydraulically offsettable bifold lattice swingaway extension. Offsets from 0°

to 40° . Stows alongside base boom section.

Maximum tip height: 227 ft. (69.2 m)



*Optional Lattice Extension Inserts

(2) x 26 ft (8 m) lattice extension inserts. Installs between the boom nose and bifold extension, nonstowable. Maximum tip height: 279 ft. (85 m)



Boom Nose

Seven 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.



20° tilt, full-vision, all-steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe seat incorporates armrestmounted 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, (2) planetary swing drives with foot applied multidisc wet brakes. Spring applied, hydraulically released swing brakes. 360° positive swing lock and 2 position mechanical house lock, both operated from cab. Maximum speed: 2.5 RPM



Counterweight

40,000 lb. (18 144 kg) of total counterweight. Hydraulically installed and removed.



Hydraulic System

Six main pumps with a combined capacity of 205 GPM (776

Maximum operating pressure: 4800 psi (331 bar).

Two individual post pressure compensated valve banks. Return line type filter with full flow by-pass protection and service indicator. Replaceable cartridge with micron filtration rating of 5/12/16.

325 gallons (1230 L) reservoir. Remote mounted oil cooler with thermostatically controlled hydraulic driven motor, fan/air to oil. System pressure test ports.

Hoist Specifications Main and Auxiliary Hoist

Planetary reduction with automatic spring applied multi-disc brake. Grooved drum electronic hoist drum rotation indicator, and hoist drum cable followers.

Maximum Single Line Pull: 1st layer - 19,267 lb. (8 740 kg)

3rd layer - 16,384 lb. (7 432 kg) 5th layer - 14,251 lb. (6 464 kg)

Maximum Permissible Line Pull:

16,800 lb. (7 620 kg) with 6x37 class rope 16,800 lb. (7,620 kg) with 35x7 class rope

Maximum Single Line Speed: 562 FPM (171 m/min)

Rope Class:

6x37 EIPS IWRC, Special Flexible 35x7 EIPS WSC, Rotation Resistant

Rope Diameter: 3/4" (19 mm)

Rope Length:

Main Hoist - 950 ft. (290 m) Auxiliary Hoist - 700 ft. (213 m)

Maximum Rope Stowage: 1,206 ft. (368 m)





carrier specifications

4

Carrier

Chassi

Box section frame fabricated from high-strength, low alloy steel. Removable outrigger housings, 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 settings, 0%, 50% and fully extended. Outrigger boxes removable for ease of transportation. All steel fabricated, quick release type outrigger floats, 30.5" (775 m) diameter.

Maximum outrigger pad load - 166,000 lb. (75 298 kg)

Outrigger Controls

Controls and crane level indicator located in cab.

Engine (Tier III)

Cummins QSC8.3L diesel, six cylinders, 300 bhp (224 kW) (Gross) @ 2,200 RPM

Maximum torque: 1000 ft. lb. (1356 Nm) @ 1,600 RPM

Fuel Tank Capacity

100 gallons (379 L)

Transmission

Full powershift with 6 forward and 3 reverse speeds. Front axle disconnect for 4×2 travel.

Electrical System

Two 12 V - maintenance free batteries.

12 V starting and lighting, circuit breakers.

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 centered indicator light.

- 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. (254 mm) oscillation with boom centered over the front.

O Brakes

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

☐ Tires

Std. 33.25 x 29 - 38 bias ply, General SL-100

Light

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

Maximum Speed

15 MPH (24 km/h)

Gradeability (Theoretical)

73% (Based on 180,000 lb. [81 647 kg] GVW) 33.25 \times 29 tires, pumps engaged, 160 ft. (48.8 m) boom, plus 59 ft. (18 m) swingaway, 40,000 lb. (18 144 kg) counterweight, hookblock and headache ball.

Miscellaneous Standard Equipment

Full width aluminum fenders, full length aluminum decking, dual rear view mirrors, hook-block tie down, electronic back-up alarm, light package, front stowage well, tachometer/hourmeter, immersion type block heater, rear wheel position indicator, 36,000 BTU hot water cab heater, hoist mirrors, engine distress A/V warning system, front/rear tie down and tow lugs, coolant sight level indicator, hydraulic pump disconnect, LMI light bar. Hydraulically activated boom removal pins, lift cylinder travel support, 80T hookblock, 10T top swivel ball.

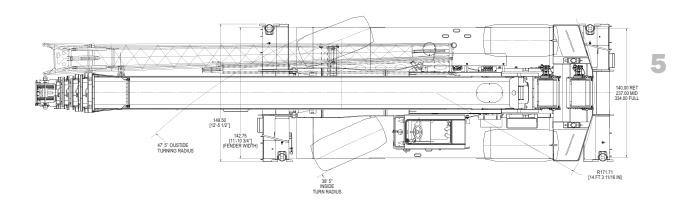
*Optional Equipment

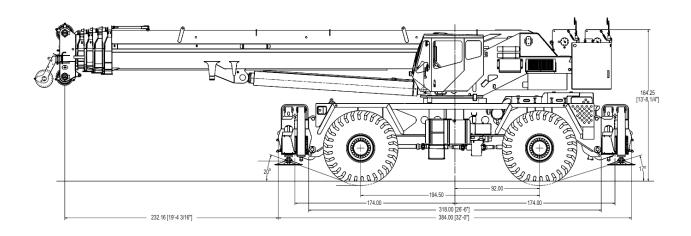
- *AUXILIARY LIGHTING PACKAGE (includes cab mounted amber flashing light, 360° rotation spotlight and dual base boom mounted floodlights)
- *Air conditioning
- *130 ton hookblock
- *Rear pintle hook
- *Cab controlled cross axle differential locks, (front and rear)
- *PAT datalogger down load kit
- *Rubber mat for stowage trough
- *Tire removal tool
- *Denotes optional equipment





dimensions



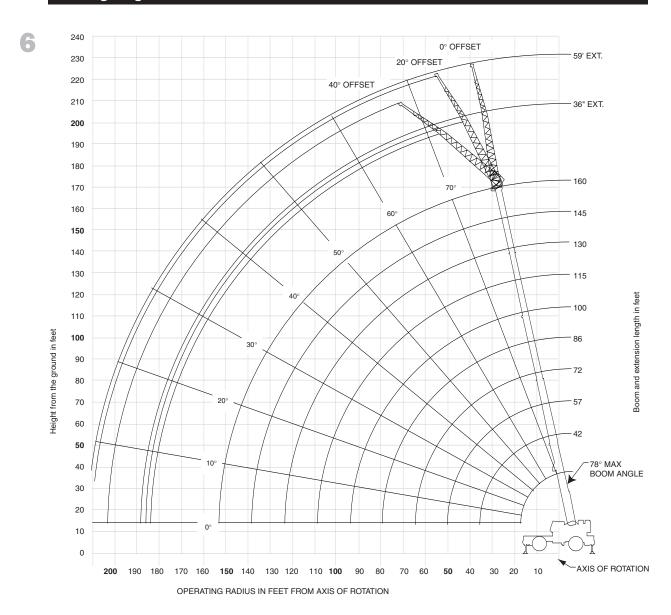


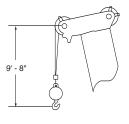
Weight Configurations									
RT9130E Basic Machine									
Configuration	RT9130E Largest (lbs.)			lter	ms Removed (lbs.)				Weight of Items Removed (lbs.)
		Boxes	STD Cwt	Aux Hoist	Boom	Bifold	Block &/or Ball	33.25 Tires	
Complete Machine: 2 Hoists w/Rope, MAFX Counterweight, Bifold Extension, Block, Ball, 33.25 x 25 Tires	174,034								
Remove 40K Cwt, Aux Hoist w/Mt & Rope	129,075		40,000	4,084					44,084
Remove 40K Cwt, Aux Hoist w/Mt & Rope, Tires	119,555		40,000	4,084				9,520	53,604
Remove 40K Cwt, Aux Hoist w/Mt & Rope, Bifold, Tires	116,445		40,000	4,084		3,100		9,520	56,714
Remove 40K Cwt, Aux Hoist w/Mt & Rope, O/R Boxes	111,103	18,842	40,000	4,084					62,926
Remove 40K Cwt, Aux Hoist w/Mt & Rope, Bifold, Block, O/R Boxes	106,398	18,842	40,000	4,084		3,100	1,600		67,636
Remove Boom, Bifold, Block, Ball, 40K Cwt, Aux Hoist w/Mt & Rope	91,060		40,000	4,084	33,500	3,100	2,280		82,974
Remove Boom, Bifold, Block, Ball, 40K Cwt, Aux Hoist w/Mt & Rope, Tires	81,540		40,000	4,084	33,500	3,100	2,280	9,520	92,494
Remove Boom, Bifold, Block, Ball, 40K Cwt, Aux Hoist w/Mt & Rope, O/R Boxes	72,218	18,842	40,000	4,084	33,500	3,100	2,280		101,816

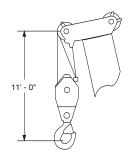


working range

Working range - 160 ft. Main Boom + 36-59 ft. Fixed Offset Extension







Dimensions are for Largest Grove furnished Hook Block and Headache Ball, with Anti-Two Block Activated.



160ft.	40,000 lbs	100% 27' 10" sp		60°					
		27 10 Sp	oread		Pounds				
Feet					#0001				
					m Length in Feet		400		
10	42 +260,000	57 147,000	72	86	100	115	130	145	160
12	(71.5) 224,000	(76.5) 147,000	* 127,000						
15	(68.5) 176,000	(74.5) 147,000	(78) 127,000	*92,600					
20	(63.5) 127,500	(71.5) 125,500	(76) 115,500	(78) 86,550	*65,000				
	(55.5) 97,300	(65.5) 95,550	(71.5) 95,300	(75.5) 78,900	(78) 62,650	44,600			
25	(46) 76,900	(60) 75,250	(67) 75,050	(72) 68,500	(75) 56,800	(78) 44,600	43,150		
30	(34)	(53.5)	(62.5)	(68.5)	(72)	(75.5)	(78)		
35		60,950 (46.5)	60,750 (58)	60,100 (64.5)	50,050 (69)	44,600 (73)	42,200 (76)	32,550 (78)	
40		50,300 (38.5)	50,150 (52.5)	50,550 (60.5)	44,050 (66)	41,400 (70)	38,000 (73.5)	32,550 (76)	25,100 (78)
45		42,050 (28)	41,950 (47)	42,350 (56.5)	38,950 (62.5)	37,450 (67.5)	34,150 (71)	32,550 (74)	24,800 (76.5)
50	•	()	35,400 (41)	35,850 (52.5)	34,650 (59)	33,450 (64.5)	31,350 (68.5)	29,550 (71.5)	24,500 (74.5)
55			30,050 (34)	30,550 (47.5)	30,050 (55.5)	30,000 (61.5)	29,200 (66)	26,850 (69.5)	24,000 (72.5)
60			25,600 (24.5)	26,100 (42.5)	25,850 (52)	26,950 (58.5)	26,350 (63.5)	24,700 (67.5)	23,200 (70.5)
65			(24.3)	22,400	22,150	23,800	23,850	22,950	21,100
70				(37) 19,200	(48) 18,950	(55.5) 20,800 (53.5)	(61) 21,600	(65) 20,850	(68.5) 19,200
75				(30.5) 16,400 (22)	(44) 16,200	(52.5) 18,100	(58.5) 19,250 (55.5)	(62.5) 19,000 (60.5)	(66.5) 17,500
80				(22)	(39) 13,800	(49) 15,700	(55.5) 16,900 (53.5)	17,100	(64.5) 15,750
85					(34) 11,650	(45.5) 13,550	(52.5) 15,000	(58) 15,500	(62.5) 14,300
90					9,770	(41.5) 11,700	(49.5) 13,100	(55.5) 13,900	(60) 13,100
95					(19.5)	(37) 10,000	(46.5) 11,450	(53) 12,250	(58) 12,150
						(32) 8,490	(43) 9,940	(50) 11,000	(55.5) 11,400
100						(26.5) 5,690	(39.5) 8,630	(47) 9,730	(53) 10,200
105						(18.5)	(35.5) 7,320	(44) 8,460	(50.5) 9,020
110							(30.5)	(41)	(48)
115							6,220 (25)	7,370 (37.5)	8,100 (45.5)
120							5,120 (17.5)	6,280 (33.5)	7,190 (42.5)
125								5,350 (29.5)	6,270 (39.5)
130								4,430 (24)	5,350 (36)
135								2,560 (16.5)	4,560 (32.5)
140									3,770 (28)
mum hoom	angle (deg.) for indi	rated length (no le	nad)						23

	Lifting Capacities at Zero Degree Boom Angle									
Boom				Main Boo	m Length in Feet					
Angle	42	57	72	86	100	115	130	145	160	
0°	41,400	24,650	15,350	9,700	5,250	3,650	2,450	1,450		
U	(35.3)	(50)	(64.6)	(79.3)	(94)	(108.6)	(123.3)	(138)	_	
Note: () Referen	ce radii in feet								A6-829-103576	



[#]LMI operating code. Refer to LMI manual for instructions.
*This capacity is based upon maximum obtainable boom angle.
+16 parts line required to lift this capacity (using aux. boom nose). Refer to Operator's and Safety Handbook for reeving diagram.
Note: () Boom angles are in degrees.

	100 ft.	36 - 59 ft.	40,000 lbs	100% 27' 10" spread	Q 360°
8			Poun	ds	

			Pou	ınds		
		36 ft. LENGTH	4		59 ft. LENGTI	1
Feet	0° OFFSET #0021	20° OFFSET #0022	40° OFFSET #0023	0° OFFSET #0041	20° OFFSET #0042	40° OFFSET #0043
25	*33,600 (78)					
30	33,600 (76.5)			*14,950 (78)		
35	32,950 (74.5)	*23,150 (78)		14,950 (77.5)		
40	31,050 (72)	22,150 (76.5)		14,950 (76)		
45	29,250 (70)	21,250 (74)	17,250 (78)	14,950 (74)		
50	27,600 (67.5)	20,450 (72)	16,850 (75.5)	14,950 (72)	12,350 (78)	
55	26,150 (65)	19,700 (69.5)	16,500 (73)	14,950 (70)	11,900 (77)	
60	24,750 (63)	19,050 (67)	16,150 (70.5)	14,800 (68)	11,500 (75)	
65	23,550 (60.5)	18,450 (65)	15,900 (68)	14,300 (66)	11,100 (73)	9,210 (78)
70	22,050	17,850 (62)	15,650 (65.5)	13,650	10,700 (71)	9,000 (76)
75	20,100 (55.5)	17,350 (59.5)	15,450 (63)	13,100 (62)	10,400 (69)	8,820 (73.5)
80	18,100 (52.5)	16,900 (57)	15,250 (60)	12,550 (60)	10,050 (66.5)	8,650 (71.5)
85	16,000 (50)	16,500 (54)	15,150 (57)	12,000 (58)	9,780 (64.5)	8,490 (69)
90	14,150 (47)	15,500 (51.5)	15,050 (54)	11,550 (55.5)	9,510 (62.5)	8,360 (66.5)
95	12,500 (44)	13,700 (48)	14,000 (50.5)	11,100 (53)	9,260 (60)	8,240 (64)
100	11,050 (40.5)	12,100 (45)	12,750 (47)	10,650	9,030 (57.5)	8,130 (61.5)
105	9,770 (37)	10,650 (41.5)		10,250 (48.5)	8,820 (55)	8,050 (59)
110	8,490 (33.5)	9,270 (37.5)		9,930 (46)	8,620 (52.5)	7,980 (56)
115	7,430 (29)	8,060 (33)		9,040 (43)	8,450 (49.5)	7,950 (53)
120	6,370	6,850		8,150 (40.5)	8,280 (47)	7,920 (50)
125	(2 +)	(20)		7,240 (37)	7,830 (43.5)	7,900 (46.5)
130				6,340 (34)	7,380 (40.5)	7,890 (42.5)
135				5,570 (30.5)	6,440 (36.5)	(42.3)
140				4,800 (26)	5,510 (32)	
145				4,140 (21)	1027	
150				3,480 (14)		
Min.boom angle for indicated length (no load)	0°	20°	40°	0°	20°	40°
Max. boom length at 0° boom angle (no load)		100 ft.			100 ft.	

NOTE: () Boom angles are in degrees.
#LMI operating code. Refer to LMI manual for operating instructions.
*This capacity is based on maximum obtainable boom angle.

A6-829-102109

NOTES:

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765.
- 2. 36 ft. boom extension may be used for single or double line lifting service. 59 ft. boom extension may be used for single line lifting service only. WARNING: Lifting with the 36 ft. extension base, with the 23 ft. extension fly either erected or folded along side of extension base, is strictly prohibited.
- 3. Radii listed are for a fully extended boom with the boom extension erected. For main boom lengths less than fully extended, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is configured. For boom angles not shown, use the rating of the next lower boom

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

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



130 ft.	36 - 59 ft.		40,000 lbs	27' 1	100% 0" spread	360°	
			Pou	nds			
		36 ft. LENGTI			59 ft. LENGT		
Feet	0° OFFSET #0021	20° OFFSET #0022	40° OFFSET #0023	0° OFFSET #0041	20° OFFSET #0042	40° OFFSET #0043	
35	23,350 (78)						
40	23,350 (77)			12,300 (78)			
45	23,350 (75)	*21,300 (78)		12,300 (77.5)			
50	23,350 (73.5)	20,700 (76.5)		12,300 (76)			
55	23,350	20,100	16,600	12,300			
60	(71.5) 23,350	(75) 19,500	(78) 16,350	(74.5) 12,300	11,600		
65	(69.5) 22,300	(73) 19,000	(76) 16,100	(73) 12,300	(78) 11,300		
	(67.5) 20,350	(71) 18,500	(74) 15,850	(71.5) 12,300	(77) 10,950		
70	(66) 18,350	(69) 18,050	(72) 15,650	(69.5) 12,300	(75) 10,700	8.940	
75	(64)	(67)	(70)	(68)	(73.5)	(78)	
80	16,600 (62)	17,100 (65)	15,500 (68)	12,300 (66.5)	10,400 (72)	8,790 (76)	
85	15,050 (60)	15,550 (63)	15,300 (66)	12,300 (64.5)	10,150 (70)	8,650 (74.5)	
90	13,700 (57.5)	14,150 (61)	14,500 (63.5)	12,300 (63)	9,910 (68.5)	8,520 (72.5)	
95	12,450 (55.5)	12,900 (58.5)	13,250 (61.5)	11,900 (61)	9,680 (66.5)	8,410 (70.5)	
100	11,300 (53.5)	11,750 (56.5)	12,100 (59)	11,450 (59)	9,460 (64.5)	8,300 (68.5)	
105	10,300	10,750	11,050	10,500	9,260	8,210	
110	(51) 9,390	(54) 9,810	(56.5) 10,050	(57.5) 9,580	9,060	(66.5) 8,120	
115	(48.5) 8,570	(52) 8,970	(54) 9,200	(55.5) 8,790	(61) 8,860	(64.5) 8,050	
120	(46) 7,750	(49.5) 8,140	(51.5) 8,350	(53.5) 8,010	(59) 8,660	(62.5) 7,990	
	(43.5) 6,840	(46.5) 7.360	(48.5) 7.600	(51.5) 7.340	(57) 7.960	(60.5) 7.820	
125	(41) 5,940	(44) 6,590	(45.5) 6,850	(49.5) 6,680	(54.5)	(58) 7,660	
130	(38)	(41)	(42.5)	(47.5)	7,270 (52.5)	(55.5)	
135	5,170 (34.5)	5,730 (37.5)		6,100 (45)	6,660 (50.5)	7,010 (53.5)	
140	4,400 (31)	4,880 (34)		5,530 (42.5)	6,050 (48)	6,360 (50.5)	
145	3,730 (27.5)	4,120 (30)		4,890 (40)	5,510 (45.5)	5,770 (48)	
150	3,070 (22.5)	3,360 (25.5)		4,260 (37.5)	4,970 (42.5)	5,190 (45)	
155				3,670 (35)	4,360 (40)		
160				3,090 (31.5)	3,750 (36.5)		
165				2,570 (28.5)	3,120 (33)		

NOTE: () Boom angles are in degrees. #LMI operating code. Refer to LMI manual for operating

20°

170

Max. boom length at 0° boom angle

(no load)

instructions
*This capacity is based on maximum obtainable boom angle.

20°

100 ft.

40°

A6-829-102127

40°

2,060

20°

2,490

20°

100 ft.

NOTES:

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance
- 2. 36 ft. boom extension may be used for single or double line lifting service. 59 ft. boom extension may be used for single line lifting service only. WARNING: Lifting with the 36 ft. extension base, with the 23 ft. extension fly either erected or folded along side of extension base, is strictly prohibited.
- 3. Radii listed are for a fully extended boom with the boom extension erected. For main boom lengths less than fully extended, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is configured. For boom angles not shown, use the rating of the next lower boom

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

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





-160 ft. 36 - 59 ft.

100% 27' 10" spread

10

			Poun	ds	•	
		36ft.LENGT	.н	į.	59ft.LENGT	Ή
Θ	0° OFFSE	20° OFFSET	40° OFFSET	0° OFFSET	20° OFFSET	40° OFFSET
Feet	#0021	#0022	#0023	#0041	#0042	#0043
45	16,000 (78)					
50	16,000 (77.5)					
55	15,900 (76)			10,100 (78)		
60	15,850 (74)	15,700 (77.5)		10,100 (77)		
65	15,800 (72.5)	15,700 (76)	*15,200 (78)	10,100 (75.5)		
70	15,750 (71)	15,000 (74.5)	14,750 (77)	10,100 (74)	10,050 (78)	
75	14,950 (69.5)	14,300 (73)	14,100 (75.5)	10,100 (73)	10,050 (77.5)	
80	14,200 (68)	13,600 (71)	13,450 (74)	10,100 (71.5)	10,050 (76)	
85	13,450 (66)	12,950 (69.5)	12,850 (72)	10,100 (70)	10,050 (74.5)	8,600 (78)
90	12,800 (64.5)	12,350 (68)	12,250	10,100	9,870	8,500
95	11,700	11,750	(70.5) 11,700	(68.5) 10,100	(73) 9,680	(77.5) 8,400 (75.5)
100	(63) 10,650	(66) 11,200	(68.5) 11,200	9,710 (65.5)	9,450 (70)	(75.5) 8,310
105	(61) 9,710	(64.5) 10,250	(67) 10,400	(65.5) 9,280	(70) 9,050	(74) 8,220
110	(59.5) 8,780	(62.5) 9,310	(65) 9,680	(64) 8,850	(68.5) 8,650	(72.5) 8,140
115	(57.5) 7,990	(61) 8,500	(63) 8,840	(62.5) 8,110	(67) 8,280	(71) 7,920
120	(55.5) 7,210	(59) 7,690	(61) 8,010	(61) 7,370	(65.5) 7,920	(69.5) 7,700
125	(53.5) 6,540	(57) 7,000	(59) 7,290	(59.5) 6,720	(64) 7,360	(67.5) 7,440
130	(52) 5,880	(55) 6,310	(57) 6,580	(57.5) 6,070	(62.5) 6,810	(66) 7,190
135	(49.5) 5,300	(53) 5,710	(55) 5,950	(56) 5,510	(60.5) 6,210	(64) 6,630
140	(47.5) 4,730	(51) 5,110	(53) 5,330	(54.5) 4,950	(59) 5,620	(62.5) 6,080
	(45.5) 4,190	(49) 4,580	(50.5) 4,770	(52.5) 4,460	(57) 5,100	(60.5) 5,520
145	(43) 3,650	(46.5) 4,060	(48) 4,220	(50.5) 3.980	(55.5) 4,580	(58.5) 4.970
150	(41)	(44)	(45.5)	(49)	(53.5)	(56.5)
155	3,070 (38.5)	3,500 (41.5)	3,660 (43)	3,550 (47)	4,120 (51.5)	4,470 (54.5)
160	2,490 (35.5)	2,940 (38.5)		3,130 (45)	3,660 (49.5)	3,970 (52)
165	1,970 (32.5)	2,370 (36)		2,710 (43)	3,240 (47.5)	3,510 (50)
170	1,460 (29.5)	1,800 (32.5)		2,300 (40.5)	2,830 (45)	3,060 (47.5)
175				1,840 (38.5)	2,420 (43)	2,640 (45)
180				1,390 (36)	2,010 (40)	2,220 (42)
185					1,530 (37.5)	
Min. boom angle (°) for indicated length (no load		28	40	34	35	40
Max. boom length (ft.) a boom angle (no load)	t 0°	100			100	
NOTE: () Boom angles a					A6-	829-101980

NOTE: () Boom angles are in degrees. #LMI operating code. Refer to LMI manual for operating instructions. *This capacity is based on maximum obtainable boom angle.

NOTES:

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance
- 2. 36 ft. boom extension may be used for single or double line lifting service. 59 ft. boom extension may be used for single line lifting service only. WARNING: Lifting with the 36 ft. extension base, with the 23 ft. extension fly either erected or folded along side of extension base, is strictly prohibited.
- 3. Radii listed are for a fully extended boom with the boom extension erected. For main boom lengths less than fully extended, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is configured. For boom angles not shown, use the rating of the next lower boom

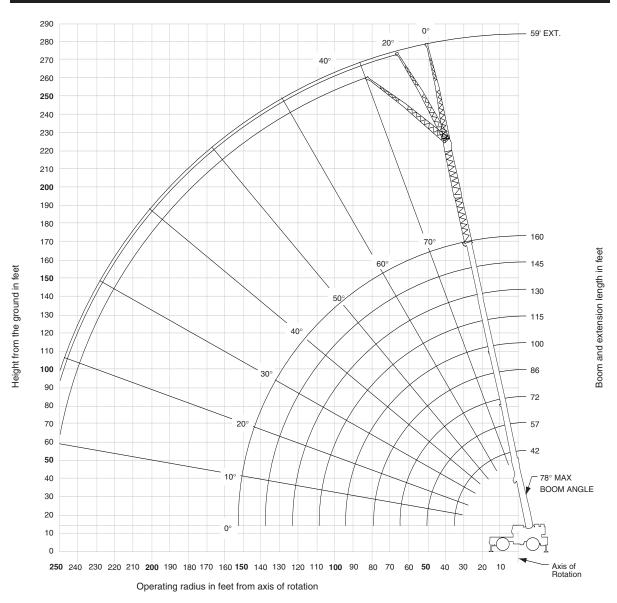
WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.

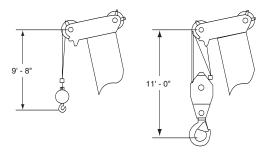
- 4. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 5. Capacities listed are with outriggers properly extended and vertical jacks set only.



working range

Working range - 160 ft. Main Boom + (2) Inserts + 36-59 ft. Fixed Offset Extension





Dimensions are for largest Grove furnished Hook Block and Headache Ball, with Anti-Two Block Activated.

RT9130E





160 ft









12

			Pound	ls	-	
	59 ft. LENGTH	I WITH 26 fi	INSERT	59 ft I FNG	TH WITH 52	ft INSERT
Feet	0° OFFSET #0084	20° OFFSET #0085	40° OFFSET #0086	0° OFFSET #0084	20° OFFSET #0085	40° OFFSET #0086
60	7,070 (78)					
65	7,070 (77.5)					
70	7,070 (76.5)			4,400 (78)		
75	7,070 (75)			4,400 (77.5)		
80	7,070 (74)	6,610 (78)		4,400 (76.5)		
85	7,070 (72.5)	6,610 (77.5)		4,400 (75.5)		
90	7,070 (71.5)	6,610 (76)		4,400 (74.5)	4,230 (78)	
95	7,070 (70)	6,610 (75)	6,400 (78)	4,400 (73)	4,230 (77.5)	
100	7,070 (69)	6,610 (73.5)	6,400 (77)	4,400 (72)	4,230 (76.5)	
105	7,070 (67.5)	6,610 (72.5)	6,400 (76)	4,400 (71)	4,230 (75.5)	4,000 (78)
110	7,070 (66)	6,610 (71)	6,400 (74.5)	4,400 (69.5)	4,230 (74)	4,000 (77)
115	6,735 (65)	6,545 (69.5)	6,315 (73)	4,400 (68.5)	4,230 (73)	4,000 (75.5)
120	6,400 (63.5)	6,480 (68)	6,230 (71.5)	4,400 (67.5)	4,230 (72)	4,000 (74.5)
125	5,940 (62)	6,170 (67)	5,955 (70)	4,400 (66)	4,230 (70.5)	4,000 (73)
130	5,480 (60.5)	5,860 (65.5)	5,680 (68.5)	4,400 (65)	4,230 (69.5)	4,000 (72)
135	4,930 (59.5)	5,510 (64)	5,440 (67)	4,110 (63.5)	4,195 (68)	4,000 (70.5)
140	4,380 (58)	5,160 (62.5)	5,200 (65.5)	3,820 (62.5)	4,160 (67)	4,000 (69)
145	3,900 (56.5)	4,645 (61)	4,910 (64)	3,350 (61)	3,885 (65.5)	3,785 (68)
150	3,420 (55)	4,130 (59.5)	4,620 (62.5)	2,880 (60)	3,610 (64)	3,570 (66.5)
155	3,000 (53.5)	3,680 (58)	4,140 (60.5)	2,470 (58.5)	3,205 (63)	3,365 (65)
160	2,580 (51.5)	3,230 (56.5)	3,660 (59)	2,060 (57)	2,800 (61.5)	3,160 (63.5)
165	2,210 (50)	2,825 (54.5)	3,220 (57.5)	1,690 (56)	2,405 (60)	2,810 (62.5)
170	1,840 (48.5)	2,420 (53)	2,780 (55.5)		2,010 (59)	2,460 (61)
175	1,515 (46.5)	2,060 (51)	2,385 (53.5)		1,655 (57.5)	2,075 (59.5)
180		1,700 (49.5)	1,990 (51.5)			1,690 (58)
185		1,370 (47.5)	1,625 (49.5)			
Min. boom angle (°) indicated length (no l		46	48	54	56	56
Max. boom length (ft. boom angle (no lo) at 0° ad)	57			57	

NOTE: () Boom angles are in degrees. #LMI operating code. Refer to LMI manual for operating instructions.

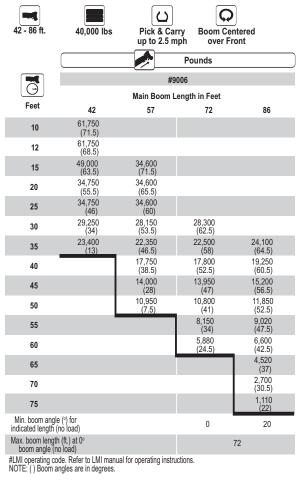
A6-829-101983A

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.
- 59 ft. folding boom extension length may be used for single line lifting service only.
 NOTE: Lifting with the 36 ft. extension base with either one or two 26 ft. insert sections installed is not permitted.
- For main boom lengths less than 160 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.







Lifting Capacities at Zero Degree Boom Angle

Boom
Angle 42 57

0° 23,000 10,900
(35.3) (50)

13

NOTES:

- Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J-765.
- Capacities are applicable to machines equipped with 33.25x29 (38 ply) bias ply tires, at 85 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 extension not permitted.
- Axle lockouts must be functioning when lifting on rubber.
- 7. For pick and carry operation, boom must be centered over front of machine, mechanical swing lock engaged and load restrained from swinging. When handling loads in the structural range with capacities close to maximum ratings, travel should be reduced to creep speeds.
- 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.

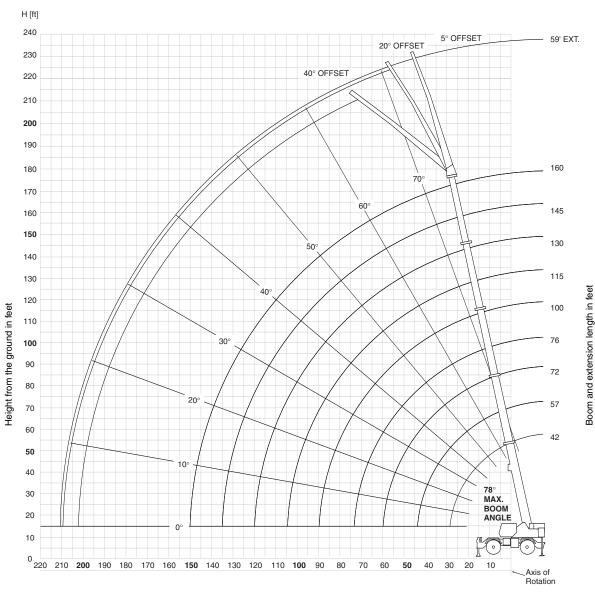
RT9130E

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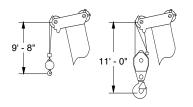
working range

Working range - 160 ft. Main Boom + 36-59 ft. Luffing Extension

14



Operating Radius in Feet From Axis of Rotation

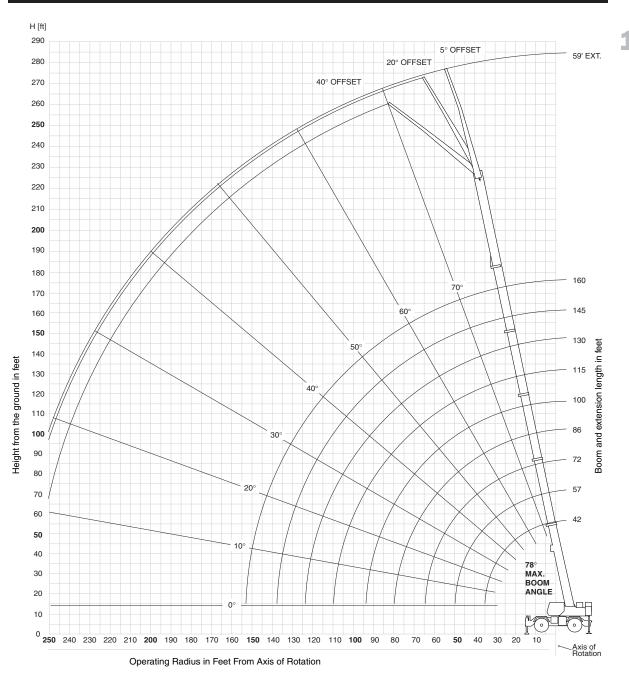


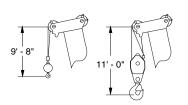
Dimensions are for Largest Grove furnished Hook Block and Headache Ball, with Anti-Two Block Activated.



working range

Working range - 160 ft. Main Boom + (2) Inserts + 36-59 ft. Luffing Extension





Dimensions are for Largest Grove furnished Hook Block and Headache Ball, with Anti-Two Block Activated.



36-59 ft. luffing folding boom extension (fixed angle) 100 ft. main boom

100 ft.









16

	Parinda .									
			Po	unds						
		36 ft. LENGT			59 ft. LENGT					
Feet	5° OFFSET	20° OFFSET	40° OFFSET	5° OFFSET	20° OFFSET	40° OFFSET				
	32,600	#0091			#0092					
30	(78)									
35	30,700 (76)	*23,150 (78)								
40	28,950 (74)	22,150 (76.5)		14,950 (77.5)						
45	27,350 (71.5)	21,250 (74)	15,250 (78)	14,950 (75.5)						
50	25,900 (69.5)	20,450 (72)	14,850 (75.5)	14,950 (73.5)	12,350 (78)					
55	24,600 (67)	19,700 (69.5)	14,500 (73)	14,550 (72)	11,900 (77)					
60	23,400 (64.5)	19,050 (67)	14,200 (70.5)	14,150 (70)	11,500 (75)					
65	22,300 (62)	18,450 (65)	13,900 (68)	13,750 (68)	11,100 (73)	8,050 (78)				
70	21,300 (59.5)	17,850 (62)	13,650 (65.5)	13,350 (66)	10,700 (71)	7,850 (76)				
75	20,100 (57)	17,350 (59.5)	13,450 (63)	13,000 (64)	10,400 (69)	7,660 (73.5)				
80	18,100 (54.5)	16,900 (57)	13,300 (60)	12,550 (61.5)	10,050 (66.5)	7,490 (71.5)				
85	16,000 (51.5)	16,500 (54)	13,150 (57)	12,000 (59.5)	9,780 (64.5)	7,340 (69)				
90	14,150 (49)	15,400 (51.5)	13,050 (54)	11,550 (57.5)	9,510 (62.5)	7,210 (66.5)				
95	12,500 (46)	13,700 (48)	13,000 (50.5)	11,100 (55)	9,260 (60)	7,090 (64)				
100	11,050 (42.5)	12,100 (45)	12,750 (47)	10,650 (52.5)	9,030 (57.5)	6,980 (61.5)				
105	9,770 (39)	10,650 (41.5)		10,250 (50)	8,820 (55)	6,900 (59)				
110	8,490 (35.5)	9,270 (37.5)		9,930 (47.5)	8,620 (52.5)	6,830 (56)				
115	7,400 (31)	8,060 (33)		9,040 (45)	8,440 (49.5)	6,790 (53)				
120	6,320 (26)	6,850 (28)		8,150 (42)	8,260 (47)	6,750 (50)				
125				7,240 (39)	7,820 (43.5)					
130				6,340 (35.5)	7,380 (40.5)					
135				5,570 (32)	6,440 (36.5)					
140				4,800 (28)	5,510 (32)					
145				4,100 (23)						
150				3,410 (16)						
Min. boom angle for indicated length (no load)	5°	20°	40°	5º	20°	40°				
Max. boom length at 5° boom angle (no load)		100 ft.			100 ft.					

NOTE: () Boom angles are in degrees. #LMI operating code. Refer to LMI manual for operating instructions A6-829-102550

NOTES:

- 1. All capacities above the bold line are based on structural strength of boom extension.
- 36 ft. boom extension may be used for single or double line lifting service. 59 ft. boom extension may be used for single line lifting service only.

 WARNING: Lifting with the 36 ft. extension base, with the 23 ft. extension fly either erected or folded along side of extension base, is strictly prohibited.
- 3. Radii listed are for a 100 ft. boom with the boom extension erected. For main boom lengths less than 100 ft., the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is configured. For boom angles not shown, use the rating of the next lower boom angle.
 - **WARNING:** Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 5. Capacities listed are with outriggers properly extended and vertical jacks set only.



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

36-59 ft. luffing folding boom extension (fixed angle) 130 ft. main boom

130 ft.	36 - 59 ft.		40,000 lbs	27' 1	100% 0" spread	360°	
			Pour	nds			
	5°	36 ft. LENGT		5°	59 ft. LENGT		
Feet	OFFSET	20° OFFSET #0091	40° OFFSET	OFFSET	20° OFFSET #0092	40° OFFSET	
40	*23,350 (78)						
45	23,350 (76)	*21,300 (78)		*12,300 (78)			
50	23,350 (74)	20,700 (76.5)		12,300 (77.5)			
55	23,350 (72.5)	20,100 (75)	14,850 (78)	12,300 (76)			
60	23,350 (70.5)	19,500 (73)	14,550 (76)	12,300 (74.5)	11,600 (78)		
65	22,300 (68.5)	19,000 (71)	14,300 (74)	12,300 (73)	11,300 (77)		
70	20,350 (66.5)	18,500 (69)	14,050 (72)	12,300 (71)	10,950 (75)		
75	18,350 (64.5)	18,050 (67)	13,850 (70)	12,300 (69.5)	10,700 (73.5)	7,850 (78)	
80	16,600 (62.5)	17,000 (65)	13,650 (68)	12,300 (68)	10,400 (72)	7,690 (76)	
85	15,050 (60.5)	15,450 (63)	13,450 (66)	12,300 (66)	10,150 (70)	7,550 (74.5)	
90	13,650 (58.5)	14,050 (61)	13,300 (63.5)	12,250 (64.5)	9,910 (68.5)	7,420 (72.5)	
95	12,400 (56.5)	12,800 (58.5)	13,150 (61.5)	11,900 (62.5)	9,680 (66.5)	7,300 (70.5)	
100	11,300 (54)	11,650 (56.5)	11,950 (59)	11,450 (61)	9,460 (64.5)	7,190 (68.5)	
105	10,300 (52)	10,650 (54)	10,950 (56.5)	10,500 (59)	9,260 (63)	7,090 (66.5)	
110	9,340 (49.5)	9,660 (52)	9,950 (54)	9,580 (57)	9,060 (61)	7,000 (64.5)	
115	8,480 (47)	8,810 (49.5)	9,070 (51.5)	8,790 (55)	8,800 (59)	6,930 (62.5)	
120	7,630 (44.5)	7,970 (46.5)	8,200 (48.5)	8,010 (53)	8,550 (57)	6,860 (60.5)	
125	6,700 (41.5)	7,240 (44)	7,430 (45.5)	7,340 (51)	7,840 (54.5)	6,810 (58)	
130	5,780 (39)	6,510 (41)	6,670 (42.5)	6,680 (49)	7,140 (52.5)	6,770 (55.5)	
135	4,980 (35.5)	5,690 (37.5)		6,100 (46.5)	6,520 (50.5)	6,500 (53.5)	
140	4,190 (32)	4,880 (34)		5,520 (44)	5,910 (48)	6,240 (50.5)	
145	3,500 (28)	4,120 (30)		4,860 (42)	5,360 (45.5)	5,640 (48)	
150	2,820 (23.5)	3,360 (25.5)		4,200 (39)	4,820 (42.5)	5,050 (45)	
155	, ,	<u> </u>		3,580 (36.5)	4,280 (40)		
160				2,970 (33.5)	3,750 (36.5)		
165				2,430 (30)	3,120 (33)		
170				1,890 (26)	2,490 (29)		
Min. boom angle for indicated length (no load)	20°	20°	40°	20°	20°	40°	
M. L.							

NOTE: () Boom angles are in degrees. #LMI operating code. Refer to LMI manual for operating instructions.

Max. boom length at 5° boom angle (no load)

instructions.
*This capacity is based on maximum obtainable boom angle.

100 ft.

A6-829-102554

100 ft.

17

NOTES:

- 1. All capacities above the bold line are based on structural strength of boom extension.
- 36 ft. boom extension may be used for single or double line lifting service. 59 ft. boom extension may be used for single line lifting service only. WARNING: Lifting with the 36 ft. extension base, with the 23 ft. extension fly either erected or folded along side of extension base, is strictly prohibited.
- 3. Radii listed are for a 130 ft. boom with the boom extension erected. For main boom lengths less than 130 ft., the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is configured. For boom angles not shown, use the rating of the next lower boom angle.
 - WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 5. Capacities listed are with outriggers properly extended and vertical jacks set only.





RT9130E

36-59 ft. luffing folding boom extension (fixed angle) 160 ft. main boom

160 ft.

36 - 59 ft.

40,000 lbs

100% 27' 10" spread 3600

18

			P	ounds		
		36 ft. LENGT			59 ft. LENGT	
Feet	5° OFFSET	20° OFFSET #0091	40° OFFSET	OFFSET	20° OFFSET #0092	40° OFFSET
50	15,550 (77.5)					
55	15,550 (76)					
60	15,550 (74.5)	14,950 (77.5)		9,650 (78)		
65	15,550 (73)	14,950 (76)	*14,400 (78)	9,650 (77)		
70	15,550 (71.5)	14,950 (74.5)	14,150 (77)	9,650 (75.5)	9,650 (78)	
75	14,900 (70)	14,250 (73)	13,950 (75.5)	9,650 (74)	9,650 (77.5)	
80	14,100 (68)	13,550 (71)	13,400 (74)	9,650 (72.5)	9,650 (76)	
85	13,400 (66.5)	12,900 (69.5)	12,800 (72)	9,650 (71)	9,650 (74.5)	7,630 (78)
90	12,700 (65)	12,250 (68)	12,200 (70.5)	9,650 (69.5)	9,650 (73)	7,510 (77.5)
95	11,500 (63)	11,700 (66)	11,650 (68.5)	9,650 (68.5)	9,650 (72)	7,390 (75.5)
100	10,400 (61.5)	10,850 (64.5)	11,100 (67)	9,570 (67)	9,420 (70)	7,290 (74)
105	9,480 (59.5)	9,910 (62.5)	10,200 (65)	9,150 (65)	9,010 (68.5)	7,200 (72.5)
110	8,570 (58)	8,970 (61)	9,360 (63)	8,730 (63.5)	8,610 (67)	7,110 (71)
115	7,780 (56)	8,160 (59)	8,530 (61)	8,000 (62)	8,220 (65.5)	7,030 (69.5)
120	6,990 (54)	7,360 (57)	7,700 (59)	7,280 (60.5)	7,840 (64)	6,950 (67.5)
125	6,320 (52)	6,670 (55)	6,980 (57)	6,620 (59)	7,180 (62.5)	6,890 (66)
130	5,650 (50)	5,980 (53)	6,260 (55)	5,970 (57.5)	6,530 (60.5)	6,830 (64)
135	5,070 (48)	5,380 (51)	5,630 (53)	5,400 (55.5)	5,930 (59)	6,320 (62.5)
140	4,500 (46)	4,780 (49)	5,010 (50.5)	4,830 (54)	5,340 (57)	5,820 (60.5)
145	3,990 (43.5)	4,250 (46.5)	4,450 (48)	4,340 (52)	4,820 (55.5)	5,260 (58.5)
150	3,490 (41.5)	3,730 (44)	3,900 (45.5)	3,850 (50)	4,300 (53.5)	4,710 (56.5)
155	2,990 (38.5)	3,260 (41.5)		3,410 (48)	3,840 (51.5)	4,210 (54.5)
160	2,490 (36)	2,800 (38.5)		2,980 (46)	3,380 (49.5)	3,710 (52)
165	1,970 (33)	2,300 (36)		2,590 (44)	2,960 (47.5)	3,250 (50)
170	1,450 (30)	1,800 (32.5)		2,210 (42)	2,550 (45)	2,790 (47.5)
175				1,800 (39.5)	2,170 (43)	
180				1,390 (37.5)	1,800 (40)	
185					1,420 (37.5)	
Min. boom angle for indicated length (no load)	26º	29º	40°	34°	36°	40°
Max. boom length at 5° boom angle (no load)		100 ft.			100 ft.	

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 J765.
- 36 ft. boom extension may be used for single or double line lifting service. 59 ft. boom extension may be used for single line lifting service only. WARNING: Lifting with the 36 ft. extension base, with the 23 ft. extension fly either erected or folded along side of extension base, is strictly prohibited.
- Radii listed are for a 160 ft. boom with the boom extension erected. For main boom lengths less than 160 ft., the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is configured. For boom angles not shown, use the rating of the next lower boom angle.

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

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

NOTE: () Boom angles are in degrees.

#LMI operating code. Refer to LMI manual for operating

instructions.
*This capacity is based on maximum obtainable boom angle.



59 ft. luffing folding boom extension w/ (1) or (2) inserts (fixed angle) 160 ft. main boom

160 ft.	59 ft.	26 - 52 f insert	t. 40,0	00 lbs	100% 10" sprea	360°
			Pour	nds		
		TH WITH 26		59 ft. LENGT		
Feet	5° OFFSET	20° OFFSET #0095	40° OFFSET	5° OFFSET	20° OFFSET #1095	40° OFFSET
70	6,830 (78)					
75	6,830 (77)			4,400 (78)		
80	6,830 (75.5)	6,610 (78)		4,400 (77.5)		
85	6,830 (74.5)	6,610 (77.5)		4,400 (76.5)		
90	6,830 (73)	6,610 (76)		4,400 (75.5)	4,230 (78)	
95	6,830 (72)	6,610 (75)	6,400 (78)	4,400 (74.5)	4,230 (77.5)	
100	6,830 (70.5)	6,610 (73.5)	6,400 (77)	4,400 (73)	4,230 (76.5)	
105	6,830 (69.5)	6,610 (72.5)	6,400 (76)	4,400 (72)	4,230 (75.5)	4,000 (78)
110	6,830 (68)	6,610 (71)	6,400 (74.5)	4,400 (71)	4,230 (74)	4,000 (77)
115	6,590 (66.5)	6,520 (69.5)	6,310 (73)	4,400 (69.5)	4,230 (73)	4,000 (75.5)
120	6,350 (65)	6,430 (68)	6,230 (71.5)	4,400 (68.5)	4,230 (72)	4,000 (74.5)
125	5,910 (64)	6,120 (67)	5,950 (70)	4,400 (67.5)	4,230 (70.5)	4,000 (73)
130	5,480 (62.5)	5,810 (65.5)	5,680 (68.5)	4,400 (66)	4,230 (69.5)	4,000 (72)
135	4,930 (61)	5,480 (64)	5,430 (67)	4,110 (65)	4,170 (68)	4,000 (70.5)
140	4,380 (59.5)	5,160 (62.5)	5,190 (65.5)	3,820 (63.5)	4,120 (67)	4,000 (69)
145	3,900 (58)	4,640 (61)	4,900 (64)	3,350 (62.5)	3,860 (65.5)	3,780 (68)
150	3,420 (56.5)	4,130 (59.5)	4,620 (62.5)	2,880 (61)	3,610 (64)	3,570 (66.5)
155	3,000 (55)	3,680 (58)	4,140 (60.5)	2,470 (59.5)	3,200 (63)	3,360 (65)
160	2,580 (53.5)	3,230 (56.5)	3,660 (59)	2,060 (58.5)	2,800 (61.5)	3,160 (63.5)
165	2,210 (52)	2,820 (54.5)	3,220 (57.5)	1,690 (57)	2,400 (60)	2,810 (62.5)
170	1,840 (50)	2,420 (53)	2,780 (55.5)		2,010 (59)	2,460 (61)
175	1,510 (48.5)	2,060 (51)	2,380 (53.5)		1,650 (57.5)	2,070 (59.5)
		4 700	4.000			4 000

57 ft. NOTE: () Boom angles are in degrees. #LMI operating code. Refer to LMI manual for operating instructions.

180 Min. boom angle (°) for indicated length (no load) 46°

Max. boom length at 5° boom angle (no load)

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57 ft.

55°

NOTES:

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765.
- 2. 59 ft. folding boom extension length may be used for single line lifting service only. NOTE: Lifting with the 36 ft. extension base with either one or two 26 ft. insert sections installed is not permitted.
- 3. For main boom lengths less than 160 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.



RT 9130

36-59 ft. luffing folding boom extension 160 ft. main boom (Load Luffing)

160 ft. 36 - 59 ft. 40,00

100% 27' 10" sprea 3600

20

	Pounds						
	36 ft. LENGTH			59	59 ft. LENGTH		
Feet	5° - 20° OFFSET	#0091	20° - 40° OFFSET	5° - 20° OFFSET	#0092	20° - 40° OFFSET	
60	14,950						
65	14,950		10,250				
70	14,950		10,050	9,650			
75	14,250		9,840	9,320			
80	13,550		9,640	8,950			
85	12,900		9,460	8,600		5,100	
90	12,250		9,280	8,290		4,980	
95	11,500		9,130	7,990		4,880	
100	10,400		8,980	7,720		4,780	
105	9,480		8,850	7,470		4,690	
110	8,570		8,720	7,220		4,600	
115	7,780		8,160	7,010		4,520	
120	6,990		7,360	6,790		4,440	
125	6,320		6,670	6,600		4,370	
130	5,650		5,980	5,970		4,310	
135	5,070		5,380	5,400		4,250	
140	4,500		4,780	4,830		4,200	
145	3,990		4,250	4,340		4,160	
150	3,490	_	3,730	3,850		4,120	
155	2,990			3,410		3,840	
160	2,490			2,980		3,380	
165	1,970			2,590		2,960	
170	1,450			2,210		2,550	
175				1,800			
180				1,390			
Min. boom angle for indicated length (no load)	29°		40°	36°		40°	
Max. boom length at 5° boom angle (no load)		100 ft.			100 ft.		

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.
- 36 ft. boom extension length may be used for single or double line lifting service. 59 ft. boom extension may be used for single line lifting service only.
 - WARNING: Litting with the 36 ft. extension base, with the 23 ft. extension fly either erected or folded along side of extension base, is strictly prohibited.
- 3. Capacities are applicable for a 160 ft. main boom length only.
 - 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.
- The loads for luffing depend on the angle of the main boom, angle of the boom extension and dynamic working pressure of the luffing cylinder for the boom extension.
- 5. Capacities listed are with outriggers properly extended and vertical jacks set only.

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.



instructions.

59 ft. luffing folding boom extension w/ (1) or (2) inserts 160 ft. main boom (Load Luffing)

160 ft.	59 ft.	26 - 52 ft. 4 Insert	0,000 lbs	100% 360° 360°
	Pounds			
		'H with 26 ft. INSER'		GTH with 52 ft. INSERT
Feet	5° - 20° OFFSET	20° - 40° OFFSET #0095	5° - 20° OFFSET	20° - 40° OFFSET #1095
80	6,610			
85	6,610			
90	6,610		4,230	
95	6,610	4,420	4,230	
100	6,610	4,330	4,230	
105	6,610	4,250	4,230	4,000
110	6,430	4,180	4,230	4,000
115	6,250	4,100	4,230	4,000
120	6,070	4,020	4,230	4,000
125	5,900	3,970	4,230	4,000
130	5,480	3,920	4,230	4,000
135	4,930	3,870	4,110	4,000
140	4,380	3,810	3,820	3,960
145	3,900	3,770	3,350	3,780
150	3,420	3,730	2,880	3,570
155	3,000	3,680	2,470	3,200
160	2,580	3,230	2,060	2,800
165	2,210	2,820	1,690	2,400
170	1,840	2,420		2,010
175	1,510	2,060		1,650
180		1,700		
Min. boom angle for indicated length (no load)	46°	48°	 56°	56°
Max. boom length at 5° boom angle (no load)		57 ft.		57 ft.

#LMI operating code. Refer to LMI manual for operating

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.
- 59 ft. boom extension may be used for single line lifting service only.
 WARNING: Lifting with the 36 ft. extension
 - **WARNING:** Lifting with the 36 ft. extension base, with either one or two 26 ft. insert sections installed is not permitted.
- Capacities are applicable for a 160 ft. main boom length only.

 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
- The loads for luffing depend on the angle of the main boom, angle of the boom extension and dynamic working pressure of the luffing cylinder for the boom extension.
- 5. Capacities listed are with outriggers properly extended and vertical jacks set only.

RT9130

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.

A6-829-102579



RT9130E

Installation and Removal of Counterweight and Auxiliary Hoist Rated Lifting Capacities in Pounds

22

On Outriggers Fully Extended – 360°				
Radius	#0801			
in	Main Boom Length			
Feet	42 ft*			
10	48,000			
12	48,000			
15	48,000			
20	48,000			
25	48,000			
30	48,000			

Installation and Removal of Front and Rear Outrigger Boxes Rated Lifting Capacities in Pounds without Counterweight

On Rubber (Stationary) − 360°				
Radius	#9810			
in	Main Boom Length			
Feet	42 ft*			
10	11,600			
12	11,600			
15	11,600			
20	11,600			

^{*}The boom must be fully retracted.

Notes for On Rubber

- Capacities are applicable to machines equipped with General 33.25 x 29 (38 ply) tires at 85 psi cold inflation pressure or Michelin 29.5R29 tires at 90 psi cold inflation pressure. Capacities do not exceed 75% of tipping loads as determined by test in accordance with SAE J765.
- With no load, the boom angle must not be less than 35 when over sides of machine since loss of stability will occur causing a tipping condition. To lower boom below 35 boom angle, boom must be swung over front or rear and LMI bypass activated.
- · Once one outrigger box is installed, do not swing over that end of the machine while installing the other outrigger box.
- Each outrigger box assembly weighs 9373 lb. including the outrigger beams and pads.
- · May be used for single or double line lifting service.



Weight Reductions for Load Handling Devices

36-59 Ft. Luffing Folding Boom Extension	Pounds	
*36 ft. Extension (Erected)	5,260	
·59 ft. Extension (Erected)	9,860	
Luffing Extension with 26 ft. Insert	Pounds	
*59 ft. Extension (Erected)	14,100	
Luffing Extension with 52 ft. Insert	Pounds	
*59 ft. Extension (Erected)	19,400	

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

When lifting over main boom nose with 36 ft. or 59 ft. extension erected, the outriggers must be fully extended or 50% extended (19' 9" spread).

When lifting over main boom nose with 26 ft. or 52 ft. insert erected, the outriggers must be fully extended.

Auxiliary Boom Nose	Pounds
	120
Hookblocks and Headache Balls	Pounds
80 Ton, 5 Sheave	1,600+
130 Ton, 8 Sheave	2.400+
100 TOII, O OIICAVC	-,

+Refer to rating plate for actual weight.

When lifting over swingaway and/or jib combinations, deduct total weight of all load handling devices reeved over main boom nose directly from swingaway

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.

load handling

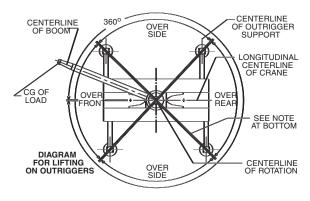


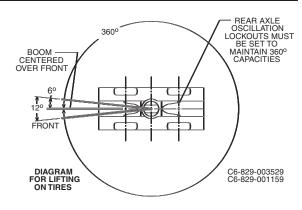
Line Pulls and Reeving Information					
Hoists	Cable Specs	Permissible Line Pulls	Nominal Cable Length		
Main Model 35	3/4" (19 mm) 6x37 Class EIPS, IWRC Special Flexible Min. Breaking Str. 58,800 lb.	16,800 lb.	950 ft.		
Main Model 35	3/4" (19 mm) Flex - X 35 Rotation Resistance (non-rotating) Min. Breaking Strength 85,500 lb.		950 ft.		
Auxiliary Model 35	3/4" (19 mm) Flex - X 35 Rotation Resistance (non-rotating) Min. Breaking Strength 85,500 lb.		700 ft.		

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

Hoist Performance					
Wire Rope Layer		ine Pulls eed Hoist High	Drum Rope Capacity (ft.)		
	Available lb.*	Available lb.*	Layer	Total	
1	19,267	11,094	136	136	
2	17,709	10,197	148	284	
3	16,384	9,434	160	445	
4	15,243	8,777	172	618	
5	14,251	8,206	184	802	
6	13,380	7,705	196	998	
*Max. lifting capacity: 6x37 or 35x7 class = 16,800 lb.					

Working Area Diagram





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







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