

GROVE. RT9130E product guide

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features

- 130 ton (120 mt) capacity
- 42-160 ft. (12.8-48.8 m)
 5-section, full power
 boom

the state

- 36-59 ft (11-18 m) offsettable bi-fold swingaway extension
- 26 ft. (8 m) extension inserts
- Grove MEGAFORM[™] boom
- 300HP (224 kW) Tier III Cummins diesel engine
- Grove "E" series cab

Rough Terrain Hydraulic Crane

features and benefits

2



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 MEGAFORM™ design, which eliminates stiffeners, thus reducing weight and increasing capacity.



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.



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



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 section.

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.

🕒 ˈCab

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.

T Swing

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



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 LPM).

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 laye 3rd laye

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



Chassis

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

L-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)

Uutrigger 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)

O|Transmission

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

H Electrical System

Two 12 V - maintenance free batteries. 12 V starting and lighting, circuit breakers.

Drive

 4×4

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.



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.

I-I Oscillation Lockouts

Automatic full hydraulic lockouts on rear axle permits 10 in. (254 mm) oscillation with boom centered over the front.



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

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



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 x 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

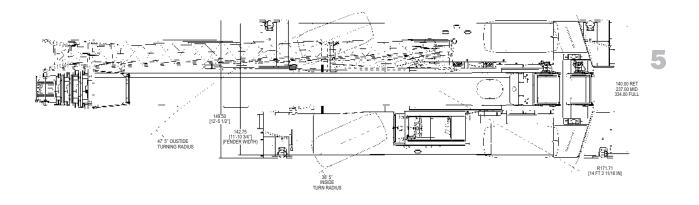
*Tire removal tool

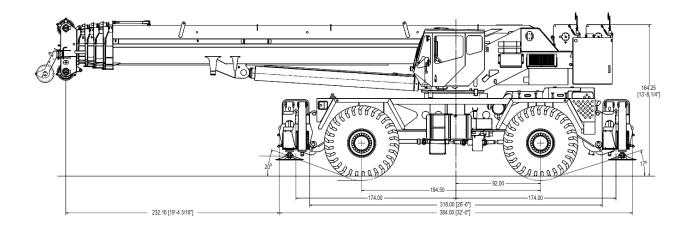
*Denotes optional equipment





dimensions





Weight Configurations

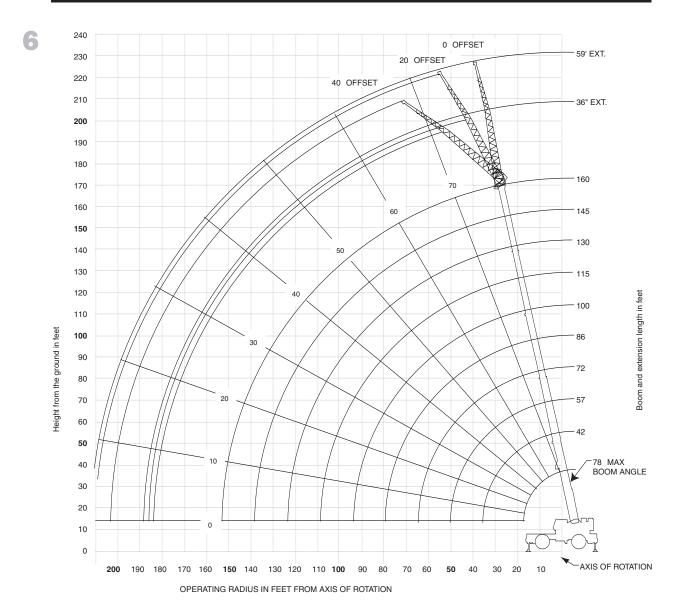
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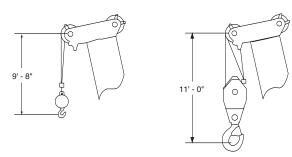
Configuration	RT9130E Largest (lbs.)			lter	ms Removed (Ibs.)				Weight of Items Removed (Ibs.)
		Boxes	STD Cwt	Aux Hoist	Boom	Bifold	Block &/or Ball	33.25 Tires	
Complete Machine: 2 Hoists w/Rope, MAFX Counterweight, Bifold Extension, Block, Ball, 33.25 x 25 Tires	174,034								
Remove 40K Cwt, Aux 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.

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GROVE

- 160ft.	40,000 lbs	100% 27' 10" sp		60°					
5					Pounds				
Feet					#0001				
	40				m Length in Feet	445	400	445	400
10	42 +260,000	57 147,000	72	86	100	115	130	145	160
	(71.5) 224,000	(76.5) 147,000	* 127,000						
12	(68.5) 176,000	(74.5) 147,000	(78)	*92,600					
15	(63.5) 127,500	(71.5)	(76)	(78) 86,550	*65,000				
20	(55.5)	(65.5)	(71.5)	(75.5)	(78)				
25	97,300 (46)	95,550 (60)	95,300 (67)	78,900 (72)	62,650 (75)	44,600 (78)			
30	76,900 (34)	75,250 (53.5)	75,050 (62.5)	68,500 (68.5)	56,800 (72)	44,600 (75.5)	43,150 (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		(20)	35,400	35,850	34,650	33,450	31,350	29,550	24,500
55			(41) 30,050	(52.5) 30,550	(59) 30,050	(64.5) 30,000	(68.5) 29,200	(71.5) 26,850	(74.5) 24,000
60			(34) 25,600	(47.5) 26,100	(55.5) 25,850	(61.5) 26,950	(66) 26,350	(69.5) 24,700	(72.5) 23,200
			(24.5)	(42.5) 22,400	(52) 22,150	(58.5) 23,800	(63.5) 23,850	(67.5) 22,950	(70.5) 21,100
65				(37)	(48)	(55.5)	(61)	(65) 20,850	(68.5)
70				(30.5)	(44)	(52.5)	(58.5)	(62.5)	(66.5)
75				16,400 (22)	16,200 (39)	18,100 (49)	19,250 (55.5)	19,000 (60.5)	17,500 (64.5)
80					13,800 (34)	15,700 (45.5)	16,900 (52.5)	17,100 (58)	15,750 (62.5)
85					11,650 (28)	13,550 (41.5)	15,000 (49.5)	15,500 (55.5)	14,300 (60)
90					9,770 (19.5)	11,700 (37)	13,100 (46.5)	13,900 (53)	13,100 (58)
95						10,000 (32)	11,450 (43)	12,250 (50)	12,150 (55.5)
100						8,490 (26.5)	9,940 (39.5)	11,000 (47)	11,400 (53)
105						5,690	8,630	9,730	10,200
110						(18.5)	(35.5) 7,320	(44) 8,460	(50.5) 9,020
115							(30.5) 6,220	(41) 7,370	(48) 8,100
							(25) 5,120	(37.5) 6,280	(45.5) 7,190
120							(17.5)	(33.5) 5,350	(42.5) 6,270
125								(29.5)	(39.5)
130								4,430 (24)	5,350 (36)
135								2,560 (16.5)	4,560 (32.5)
140									3,770 (28)
mum boom	angle (deg.) for indi	icated length (no lo	oad)						23

#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.

			L	ifting Capacities a	at Zero Degree Bo	om Angle			
Boom Main Boom 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	
0	(35.3)	(50)	(64.6)	(79.3)	(94)	(108.6)	(123.3)	(138)	_
Note: () Referen	ce radii in feet								A6-829-103576

Note: () Reference radii in feet

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FROME



100 ft .	36 - 59 ft.

-	40,000 lbs	100% 27' 10" spread
	Poun	de

Q

360°

		Pounds							
		36 ft. LENGTH	1	Į	59 ft. LENGTI	4			
⊖ 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 (58)	17,850 (62)	15,650 (65.5)	13,650 (64)	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 (51)	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 (24)	6,850 (28)		8,150 (40.5)	8,280 (47)	7,920 (50)			
125				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)				
140				4,800 (26)	5,510 (32)				
145				4,140 (21)					
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

*This capacity is based on maximum obtainable boom angle.

instructions.

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 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.

- 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.

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A6-829-102109



36 - 59 ft. 40,000 lbs 100% 27' 10" spread

130 ft.

Q

360°

				27' 1	0" spread	
			Po	unds		
		36 ft. LENGTH	1		59 ft. LENGTH	1
Feet	0° OFFSET #0021	20° OFFSET #0022	40° OFFSET #0023	0° OFFSET #0041	20° OFFSET #0042	40° OFFSET #0043
35	23,350	#0022	#0025	#0041	#0042	#0045
40	(78) 23,350			12,300		
	(77) 23,350	*21,300		(78) 12,300		
45	(75)	(78)		(77.5)		
50	23,350 (73.5)	(76.5)		12,300 (76)		
55	23,350 (71.5)	20,100 (75)	16,600 (78)	12,300 (74.5)		
60	23,350 (69.5)	19,500 (73)	16,350 (76)	12,300 (73)	11,600 (78)	
65	22,300	19,000	16,100	12,300	11,300	
70	(67.5) 20,350	(71) 18,500	(74) 15,850	(71.5) 12,300	(77) 10,950	
	(66) 18,350	(69) 18,050	(72) 15,650	(69.5) 12,300	(75) 10,700	8,940
75	(64) 16,600	(67) 17,100	(70) 15,500	(68) 12,300	(73.5) 10,400	(78) 8,790
80	(62)	(65)	(68)	(66.5)	(72)	(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	11,750	12,100	11,450	9,460	8,300
105	(53.5) 10,300	(56.5) 10,750	(59) 11,050	(59) 10,500	(64.5) 9,260	(68.5) 8,210
	(51) 9,390	(54) 9,810	(56.5) 10,050	(57.5) 9,580	(63) 9,060	(66.5) 8,120
110	(48.5) 8.570	(52) 8,970	(54) 9,200	(55.5) 8,790	(61) 8,860	(64.5) 8,050
115	(46)	(49.5)	(51.5)	(53.5)	(59)	(62.5)
120	7,750 (43.5)	8,140 (46.5)	8,350 (48.5)	8,010 (51.5)	8,660 (57)	7,990 (60.5)
125	6,840 (41)	7,360 (44)	7,600 (45.5)	7,340 (49.5)	7,960 (54.5)	7,820 (58)
130	5,940 (38)	6,590 (41)	6,850 (42.5)	6,680 (47.5)	7,270 (52.5)	7,660 (55.5)
135	5,170 (34.5)	5,730 (37.5)	(1212)	6,100 (45)	6,660 (50.5)	7,010 (53.5)
140	4,400	4,880		5,530	6,050	6,360
145	(31) 3,730	(34) 4,120		(42.5) 4,890	(48) 5,510	(50.5) 5,770
	(27.5) 3,070	(30) 3,360		(40) 4,260	(45.5) 4.970	(48) 5,190
150	(22.5)	(25.5)		(37.5)	(42.5)	(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)	
170				2,060 (24.5)	2,490 (29)	
Min. boom angle for indicated length (no load)	20°	20°	40°	20°	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. 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. O

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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.

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A6-829-102127



160 ft. 36	• 59 ft.	40,	000 lbs	100 27' 10" s		Q 360°
			Poun	ds		
	36ft.LENGTH			59ft.LENGTH		
1000	0° DFFSE #0021	20° OFFSET #0022	40° OFFSET #0023	0° OFFSET #0041	20° OFFSET #0042	40° OFFSET #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	(00.0) 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	12,350	12,250	10,100 (68.5)	9,870	8,500 (77.5)
95	(64.5) 11,700	(68) 11,750	(70.5) 11,700	10,100	(73) 9,680 (72)	8,400
100	(63) 10,650	(66) 11,200	(68.5) 11,200	(67) 9,710	(72) 9,450	(75.5) 8,310
105	(61) 9,710	(64.5) 10,250	(67)	(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
135	(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) 3,070	(44) 3,500	(45.5) 3,660	(49) 3,550	(53.5) 4,120	(56.5) 4,470
155	(38.5)	(41.5) 2,940	(43)	(47) 3,130	(51.5) 3,660	(54.5) 3,970
160	(35.5) 1,970	(38.5) 2,370		(45)	(49.5) 3,240	(52) 3,510
165	(32.5) 1,460	(36)		(43)	(47.5) 2,830	(50)
170	(29.5)	1,800 (32.5)		2,300 (40.5) 1,840	2,030 (45) 2,420	3,060 (47.5) 2.640
175				(38.5)	(43)	(45)
180				(36)	2,010 (40)	2,220 (42)
185 Min, beem angle (i) far					1,530 (37.5)	
Min. boom angle (°) for indicated length (no load)	26	28	40	34	35	40
Max. boom length (ft.) at 0° boom angle (no load)		100			100	

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 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 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.

- 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.

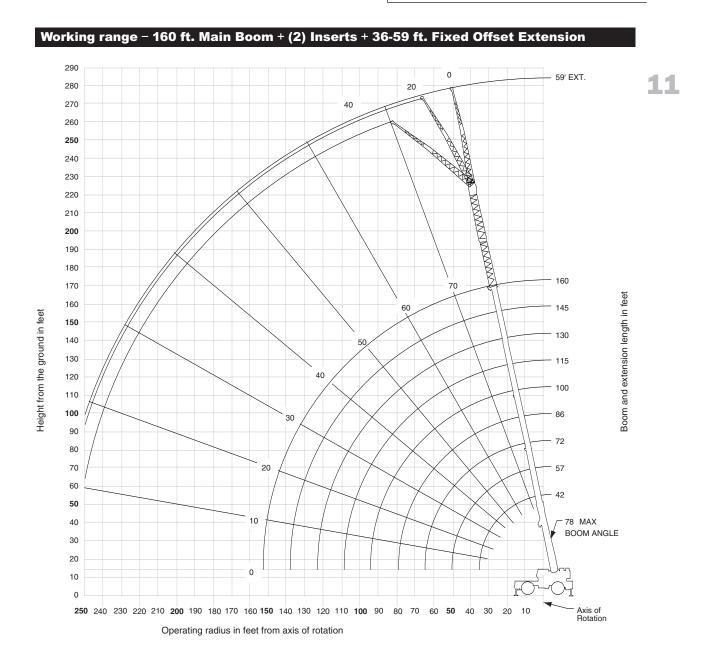
RT9130

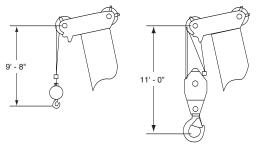
THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

A6-829-101980A

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working range





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

RT9130E

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.



	160 ft.	59 ft. 2	6 or 52 ft. Insert	40,000	lbs 27' 10	100%)" spread	Q 360°
2				Pound	s		
_		59 ft. LENGTH	H WITH 26 ft	. INSERT		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	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	(40.5) 1,515 (46.5)	2,060 (51)	2,385 (53.5)		1,655 (57.5)	2,075 (59.5)
	180	, ,0,01	1,700 (49.5)	1,990 (51.5)		(01.0)	1,690 (58)
	185		1,370 (47.5)	1,625 (49.5)			(00)
	Min. boom angle (°) indicated length (no lo		46	48	54	56	56
	Max. boom length (ft.) boom angle (no loa	at 0°	57			57	

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

1

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.

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.

A6-829-101983A

FROME

42 - 86 ft.	40,000 lbs	Pick & Ca up to 2.5 r		
			Pounds	
		#	9006	
Feet			Length in Feet	
reel	42	57	72	86
10	61,750 (71.5)			
12	61,750 (68.5)			
15	49,000 (63.5)	34,600 (71.5)		
20	34,750 (55.5)	34,600 (65.5)		
25	34,750 (46)	34,600 (60)		
30	29,250 (34)	28,150 (53.5)	28,300 (62.5)	
35	23,400 (13)	22,350 (46.5)	22,500 (58)	24,100 (64.5)
40		17,750 (38.5)	17,800 (52.5)	19,250 (60.5)
45		14,000 (28)	13,950 (47)	15,200 (56.5)
50		10,950 (7.5)	10,800 (41)	11,850 (52.5)
55	'		8,150 (34)	9,020 (47.5)
60			5,880 (24.5)	6,600 (42.5)
65				4,520 (37)
70				2,700 (30.5)
75				1,110 (22)
Min. boom angle indicated length (r			0	20
Max. boom length boom angle (no	(ft.) at 0° b load)			72
#LMI operating coo NOTE: () Boom an	de. Refer to LMI man ngles are in degrees.	ual for operating instr	uctions.	

Lifting Capacities at Zero Degree Boom Angle					
Boom Angle	42	57			
0°	23,000 (35.3)	10,900 (50)	_		

A6-829-102108A

NOTES:

 Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J-765. 13

- 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.
- 4. Capacities are applicable only with machine on firm level surface.
- 5. On rubber lifting with boom extension not permitted.
- 6. Axle lockouts must be functioning when lifting on rubber.
- 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.

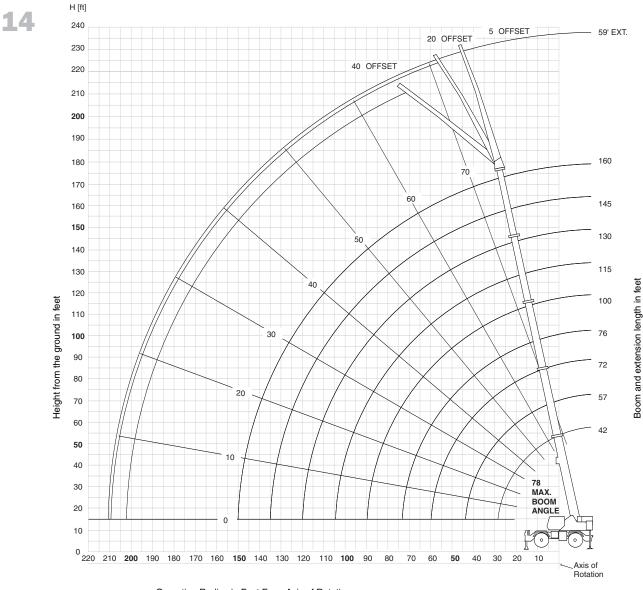
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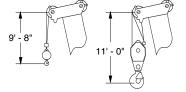
working range

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



Operating Radius in Feet From Axis of Rotation



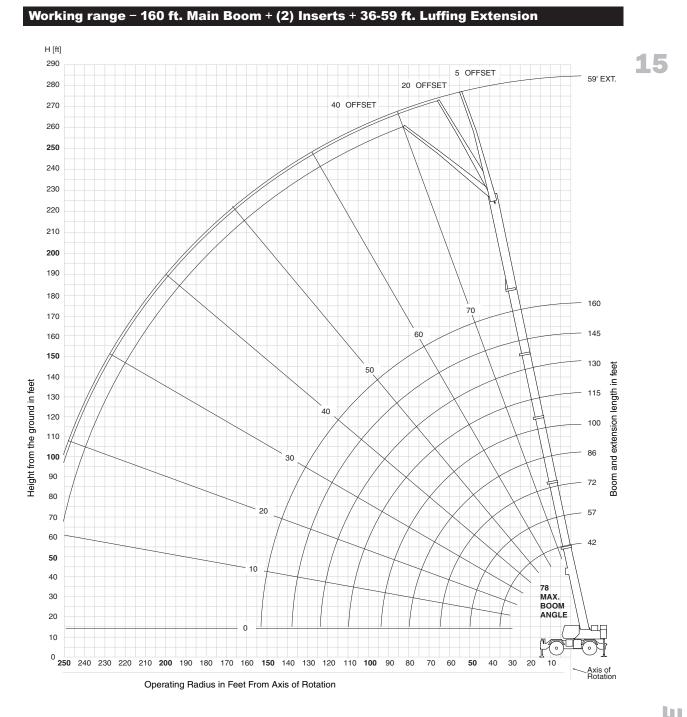


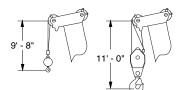
Dimensions are for Largest Grove furnished Hook Block and Headache Ball, with Anti-Two Block Activated.

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GROVE







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

RT9130E

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.



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

Q

3600

1	6	

100 ft.

100

36 - 59 ft

40 000 lbs

100 ft.	36 - 59 ft.		40,000 lbs	27' 10	100%)" spread	360°	
			Ροι	ounds			
		36 ft. LENG			59 ft. LENGT		
Feet	5° OFFSET	20° OFFSET #0091	40° OFFSET	5° OFFSET	20° OFFSET #0092	40° OFFSET	
30	32,600 (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°	5⁰	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.

*This capacity is based on maximum obtainable boom angle.

RT9130E

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.

A6-829-102550

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.

GROVE.

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

Q

360°

 \vdash

100%

150 11.	50 -	50 - 59 ft.		27' 10" spread		300	
		Pou			nds		
		36 ft. LENGT	н		59 ft. LENGT	Н	
Feet	5° OFFSET	20° OFFSET #0091	40° OFFSET	5° 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			-	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)	20º	20°	40°	20°	20º	40°	
Max. boom length at 5° boom angle (no load)		100 ft.			100 ft.		

130 ft.

36 - 59 ft.

40.000 lbs

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.

17

- 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 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.

- 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.

RT9130E

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A6-829-102554



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

	160 ft.	36 - 5	59 ft.	40,000 lbs		00% " spread	Q 360°
18				P	ounds		
			36 ft. LENGT			59 ft. LENGT	
	Feet	5° OFFSET	20° OFFSET #0091	40° OFFSET	0FFSET	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	8,970	9,360	8,730	8,610	7,110
	115	(58) 7,780	(61) 8,160	(63) 8,530	(63.5) 8,000	(67) 8,220	(71) 7,030
	120	(56) 6,990	(59) 7,360	(61) 7,700	(62) 7,280	(65.5) 7,840	(69.5) 6,950
	125	(54) 6,320	(57) 6,670	(59) 6,980	(60.5) 6,620	(64) 7,180	(67.5) 6,890
	130	(52) 5,650	(55) 5,980	(57) 6,260	(59) 5,970	(62.5) 6,530	(66) 6,830
	135	(50) 5,070	(53) 5,380	(55) 5,630	(57.5) 5,400	(60.5) 5,930	(64) 6,320
	140	(48) 4,500	(51) 4,780	(53) 5,010	(55.5) 4,830	(59) 5,340	(62.5) 5,820
	140	(46) 3,990	(49) 4,250	(50.5) 4,450	(54) 4,340	(57) 4,820	(60.5) 5,260
	145	(43.5) 3,490	(46.5) 3,730	(48) 3,900	(52) 3,850	(55.5) 4,300	(58.5) 4,710
		(41.5) 2,990	(44) 3.260	(45.5)	(50) 3,410	(53.5) 3,840	(56.5) 4,210
	155	(38.5) 2,490	(41.5) 2,800		(48) 2,980	(51.5) 3,380	(54.5) 3,710
	160	(36) 1,970	(38.5) 2,300		(46) 2,590	(49.5) 2,960	(52) 3,250
	165	(33)	(36)		(44)	(47.5) 2,550	(50) 2,790
	170	(30)	(32.5)		(42)	(45) 2,170	(47.5)
	175				(39.5)	(43)	
	180				(37.5)	(40) 1,420	
	185 Min boom					(37.5)	
u	Min. boom angle for indicated length (no load)	26º	29°	40°	34°	36°	40°
5	Max. boom length at 5º boom angle (no load)		100 ft.			100 ft.	
	NOTE: () Boo #LMI operatin instructions.	om angles ar g code. Rei	e in degrees. fer to LMI mai	nual for opera	ating	A6	-829-102558

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 with SAE J765.

- 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 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.

- 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.

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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	000 lbs	100% 10" sprea	(C) 360°	
	Pounds						
		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)	
180	,	1,700 (49,5)	1,990			1,690 (58)	
Min. boom angle (indicated length (no) for load) 46°	46°	48°	55°	56°	56°	
Max. boom length boom angle (no l	at 5º	57 ft.			57 ft.		
NOTE: () Boom #LMI operating c	angles are in		I for operatir	ig instructions	A6-	829-102562	

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.

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- 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.

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

ŀ

100%

40,000 lbs

Q

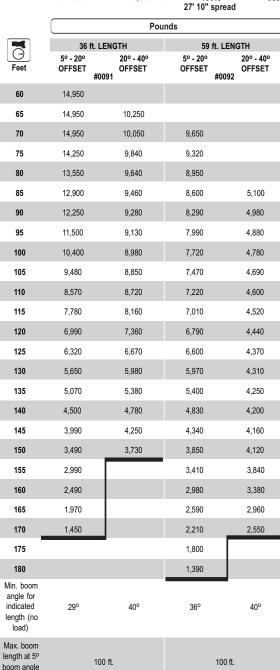
360°

160 ft.

20

NERR

36 - 59 ft.



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

(no load)

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 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: 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. 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.

- 4. 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.

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A6-829-102575

RT9130E



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

160 ft.	59 ft.	26 - 52 ft. 40, Insert		00% 360°
		Pou	nds	
	59 ft. LENGT 5° - 20°	TH with 26 ft. INSERT 20° - 40°	59 ft. LENGTH 5° - 20°	with 52 ft. INSERT 20° - 40°
Feet	OFFSET	OFFSET #0095	OFFSET	OFFSET
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)	46º	48º	56°	56°
Max. boom length at 5º boom angle (no load)		57 ft.	5	7 ft.

#LMI operating code. Refer to LMI manual for operating instructions. 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. 21

- 59 ft. boom extension may be used for single line lifting service only.
 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 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.

RT9130E

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A6-829-102579



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

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 Rubb	oer (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.

RT9130E

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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+
10 Ton Overhaul Ball	690+

+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 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.

load handling



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Line Pulls and Reeving Information

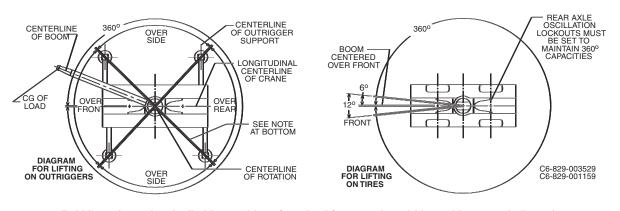
Hoists	Cable Specs	Permissible Line Pulls	Nominal Cable Length
Main Model 35	3/4" (19 mm) 6x37 Class EIPS, IWRC Special Flexible Min. Breaking Str. 58,800 lb.	16,800 lb.	950 ft.
Main Model 35	3/4" (19 mm) Flex - X 35 Rotation Resistance (non-rotating) Min. Breaking Strength 85,500 lb.	16,800 lb.	950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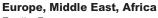
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