GROVE®

RT530E

product guide

features

- 30 ton (30 mt) capacity
- 29-95 ft. (8.8-29 m) 4-section full power boom
- 26-45 ft. (7.9-13.7 m) telescopic swingaway extension
- Max main boom tip height of 102.5 ft. (31.2 m)
- "E" Series cab
- Max overall tip height 146 ft. (44.5 m)
- One double-acting telescoping cylinder
- 3 position outriggers, max spread 20 ft. (6.1 m)
- Cummins QSB 5.9L diesel, 6 cyl., turbocharged engine

Rough Terrain Hydraulic Crane

contents

features

The boom on the RT530E is a 29-95 ft. (8.8-29 m) four-section full power boom with a maximum tip height of 102.5 ft. (31.2 m). This synchronized boom uses a single lever joystick control to extend boom sections equally.

Fixed length or tele-swingaway boom extension options provide 26 ft. (7.9 m) or 26-45 ft. (7.9-13.7 m) of additional height that can offset to 0° & 30°. Max RT530E tip height with the tele extension is 146 ft. (44.5 m) and also provides a max working radius of 120 ft. (36.6 m). Optional full-length decking is also available.

Features common to the Grove “E” Series cab include:

- hot water heater/defroster
- single axis joystick controllers
- sliding skylight and adjustable sunscreen
- engine instrumentation
- full acoustical lining

The PAT i-Flex 5 graphic display LMI includes a work area definition system which allows the operator to define a preferred working area.

A quick reeve boom nose and swingaway alignment device help operators put the RT530E to work quickly.

Superstructure

Boom
29 ft. - 95 ft. (8.8 m - 29 m) four-section, full power boom.
Maximum tip height: 102.5 ft. (31.2 m).

*Optional Fixed Swingaway Extension
26 ft. (7.92 m) offsettable swingaway extension. Offsettable at 0° and 30°. Stows alongside base boom section. Maximum tip height: 127.6 ft. (38.9 m).

*Optional Telescopic Swingaway Extension
26 ft. - 45 ft. (7.92 m - 13.7 m) telescoping offsettable swingaway extension. Offsettable at 0° and 30°. Stows alongside base boom section.
Maximum tip height: 146 ft. (44.5 m).

Boom Nose
Three nylatron sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards. Quick reeve type boom nose. *Optional 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 +76°.

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.

Cab
Full vision, all steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe seat incorporates armrest mounted hydraulic single-axis controllers. Dash panel incorporates gauges for all engine functions. Other standard features include: hot water heater, cab circulating air fan, sliding side and rear windows, sliding skylight with electric wiper, electric windshield wash/wipe, fire extinguisher, seat belt, and sunscreen.

Swing
Planetary swing with foot applied multi-disc brake. Spring applied, hydraulically released swing brake and plunger-type, one position, mechanical house lock operated from cab. *Optional 360° mechanical swing lock. Maximum speed: 2.8 RPM.

Counterweight
8,400 lbs. (3 810 kg) pinned to superstructure.

Hydraulic System
Three main gear pumps with a combined capacity of 100 GPM (381 L/min).
Maximum operating pressure: 3,500 PSI (26.2 MPa).

Two individual 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.

90 gallon (341 L) reservoir.
Integral oil cooler.
System pressure test ports.

HOIST SPECIFICATIONS
Main and Auxiliary Hoist
Model HP15B-17G
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:	11,640 lbs. (5 280 kg)
Maximum Single Line Speed:	445 FPM (136 m/min)
Maximum Permissible Line Pull:	
w/standard 6 x 37 class rope:	11,640 lbs. (5 280 kg)
w/optional 35 x 7 class rope:	11,640 lbs. (5 280 kg)
Rope Diameter:	5/8 in. (16 mm)
Rope Length:	450 ft. (137 m)

Rope Type:
6 x 37 class EIPS IWRC
*Optional 35 x 7 class rotation resistant

Maximum Rope Stowage:	750 ft. (228 m)

**Denotes optional equipment*

specifications

Carrier

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

Outrigger System
Four hydraulic telescoping single-stage double box beam outriggers with inverted jacks and integral holding valves. Three position setting. All steel fabricated quick release type outrigger floats, 16.5 in. (419 mm) square.
Maximum outrigger pad load: 48,900 lbs. (22 498 kg)

Outrigger Controls
Controls and crane level indicator located in cab.

Engine
Cummins QSB 5.9L diesel, six cylinders, turbo- charged, 155 bhp (116 kW) (Gross) @ 2,500 RPM.
Maximum torque: 440 ft. lbs. (597 Nm) @ 1,500 RPM.

Fuel Tank Capacity
58 gallons (220 L)

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

Electrical System
Two 12 V - maintenance free batteries. 12 V starting and lighting, battery disconnect switch.

Drive
4 x 4

Steering
Fully independent power steering:
Front: Full hydraulic steering wheel controlled.
Rear: Full hydraulic switch controlled.
Provides infinite variations 4 main steering modes: front only, rear only, crab and coordinated. Rear steer indicating gauge.

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.
Automatic full hydraulic lockouts on rear axle permit oscillation only with boom centered over the front.

Brakes
Full hydraulic split circuit disc-type brakes operating on all wheels. Spring-applied, hydraulically released transmission-mounted parking brake.

Tires
20.5 x 25-24PR bias earthmover type.
*16.00 x 25-28PR bias earthmover type.

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

Maximum Speed
24 MPH (39 km/h)

Gradeability (Theoretical)
70% (Based on 58,000 [26 309 kg] GVW) 20.5 x 25 tires, pumps engaged, 95 ft. (29 m) boom, and tele-swingaway.

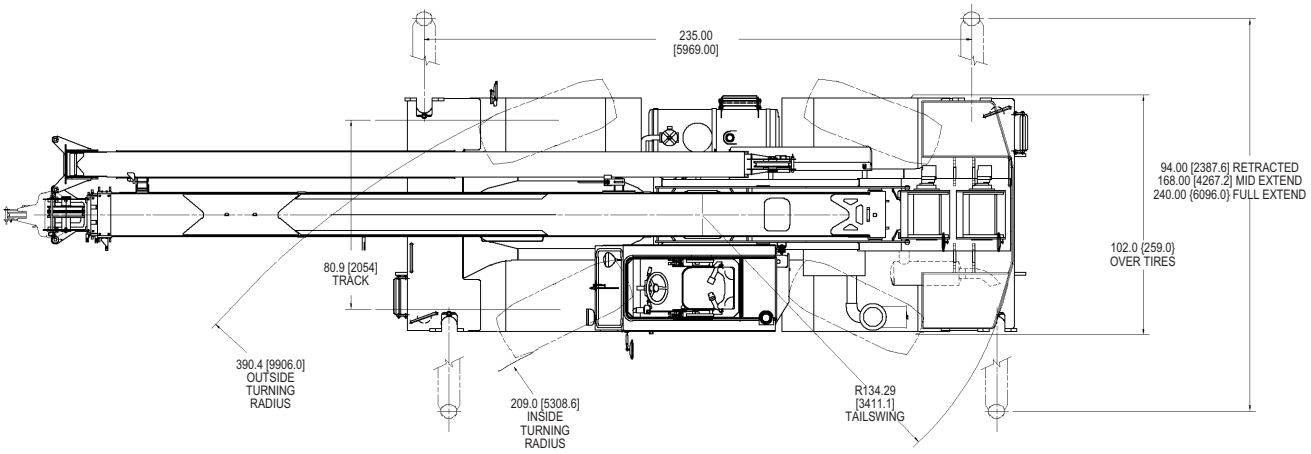
Miscellaneous Standard Equipment
Full width steel fenders, dual rear view mirrors, hookblock tiedown, electronic back-up alarm, light package, front stowage well, tachometer, rear wheel position indicator, hot water heater, hoist mirrors, engine distress A/V warning system. Auxiliary hoist control valve arrangement (less hoist). Cold start aid and immersion type engine block heater, 120 V, 1500 watt.

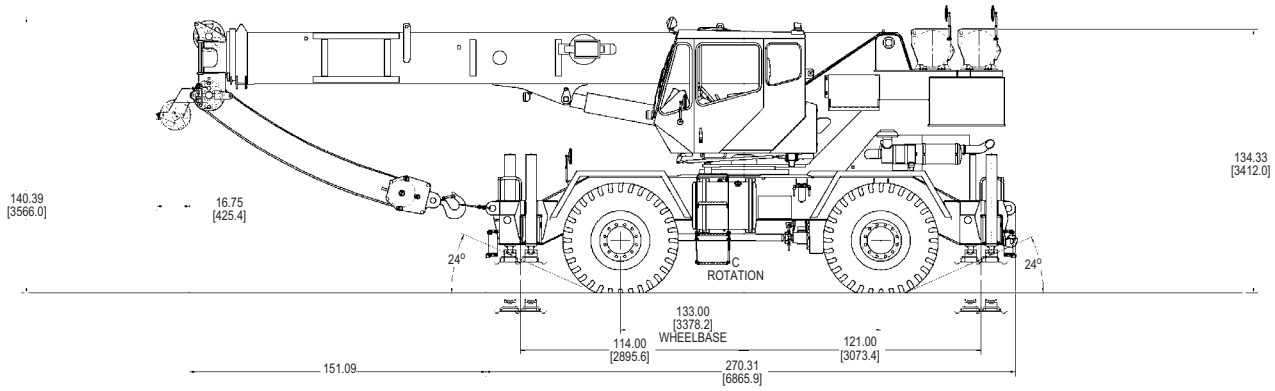
*Optional Equipment
* AUXILIARY HOIST PACKAGE (includes Model HP15B-17G auxiliary hoist with electronic hoist drum rotation indicator, hoist drum cable follower, 450 ft. (137 m) of 5/8 in. (16 mm) 35 x 7 class wire rope and auxiliary single sheave boom nose.
* AIR CONDITIONING PACKAGE (includes hydraulic driven air conditioning).
*AUXILIARY LIGHTING PACKAGE (includes cab mounted, 360° rotation spotlight, cab mounted amber flashing light, and dual base boom mounted floodlights).
*CONVENIENCE PACKAGE (includes in cab LMI lightbar).
*Pintle hook - rear
*Full length aluminum decking
*CE mark conformance
*15 ton 2 sheave hookblock
*Cab-controlled cross axle differential locks (front & rear)
*360 degree NYC style positive swinglock
*PAT Datalogger

**Denotes optional equipment*

dimensions

NOTES:
1. ALL DIMENSIONS ARE FOR REFERENCE ONLY.
2. BOOM ELEVATION IS -3° TO +76°.
5 DIMS. SHOWN BASED ON 20.5 X 25 TIRES. ADD 1.36 [34.5] FOR 16.0 X 25 TIRES.





NOTE: [ ] Reference dimensions in mm

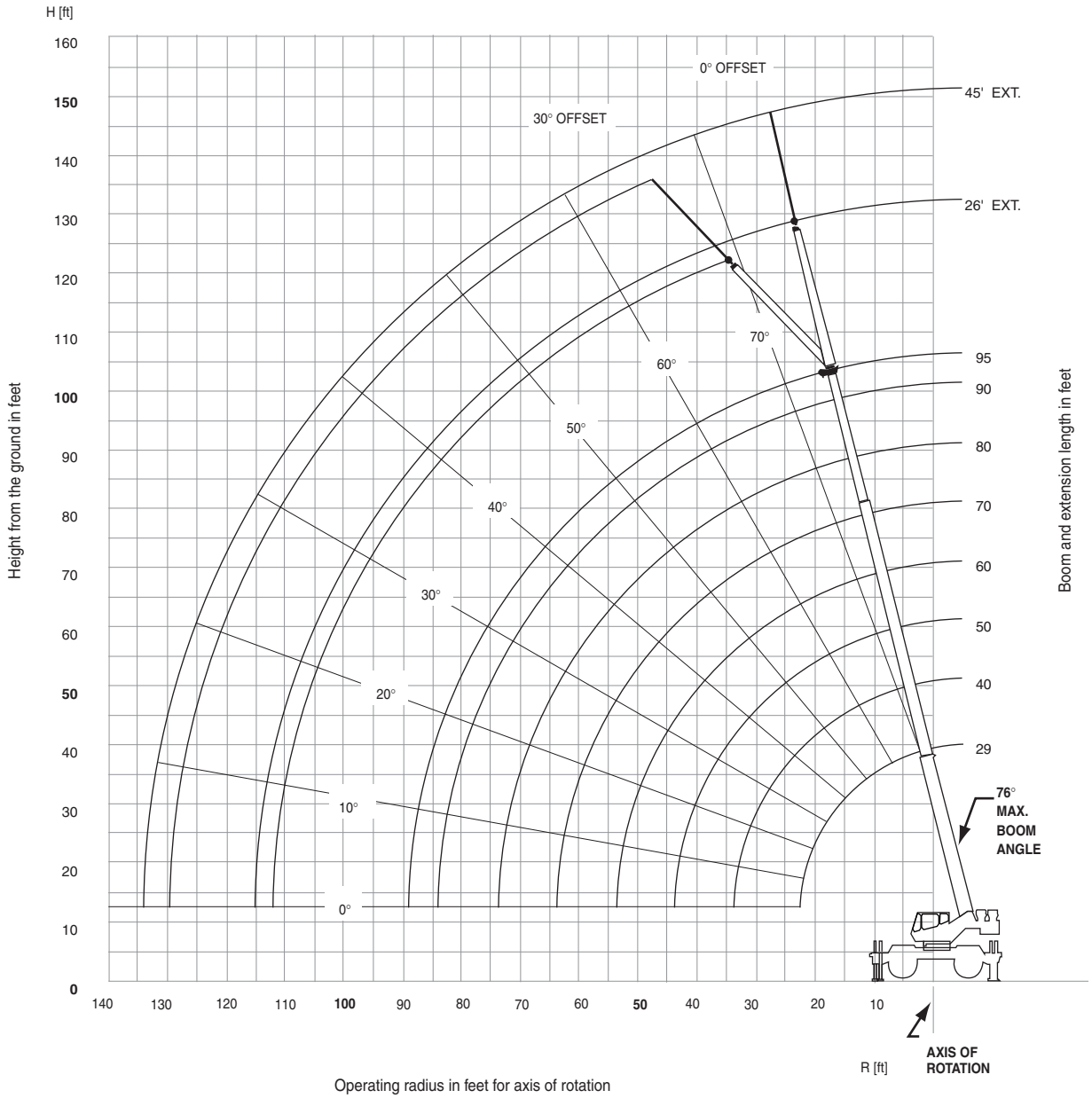
Weights

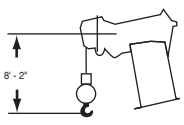
	GVW		Front		Rear	
	lb.	kg	lb.	kg	lb.	kg
RT530E Basic Machine	54,483	24,713	25,090	11,381	29,393	13,333
ADD: 26 - 45 ft Tele swingaway	1,790	812	2,853	1,294	-1,063	-482
ADD: 26 ft swingaway	1,300	590	2,111	958	-811	-368
ADD: Auxiliary Hoist cable	339	154	-127	-58	466	211
ADD: Auxiliary boom nose	142	64	283	128	-141	-64
ADD: 30 ton (28mt) 3-sheave hook-block (stowed)	580	263	611	277	-31	-14
ADD: 7.5 ton (6.8mt) headache ball (stowed)	369	167	388	176	-19	-9
Remove: counterweight	-8,400	-3,810	2,668	1,210	-11,068	-5,020

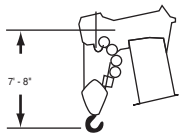
working range

Working range – 95 ft. Main Boom + 26-45 ft. extension

6







Dimensions are for largest Grove furnished hook block and headache ball, with anti-two block activated.

RT530E

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.

RT530E load chart


29-95 ft.


8,400 lbs


100%
20' spread


360…


Pounds

Feet	29	40	50	60	70	80	90	95
10	60,000 (60.5)	50,100 (69.5)	46,950 (74.5)					
12	54,650 (56)	50,100 (66.5)	44,950 (72)	*38,850 (76)				
15	42,850 (47.5)	43,800 (61.5)	41,050 (68)	36,000 (72)	*29,450 (76)	*22,450 (76)		
20	30,700 (30)	31,650 (53)	32,100 (61.5)	29,500 (67)	27,400 (71)	22,450 (73.5)	*18,550 (76)	*15,500 (76)
25		24,050 (42.5)	24,500 (54.5)	24,800 (61.5)	23,100 (66.5)	19,250 (70)	16,500 (72.5)	15,300 (74)
30		18,800 (29)	19,250 (47)	19,550 (56)	19,600 (61.5)	16,850 (66)	14,400 (69)	13,200 (70.5)
35			15,550 (38)	15,850 (49.5)	16,000 (56.5)	14,850 (61.5)	12,700 (65.5)	11,500 (67.5)
40			12,800 (26)	12,950 (42.5)	13,000 (51.5)	13,050 (57.5)	11,000 (62)	10,000 (64)
45				10,450 (34.5)	10,500 (46)	10,550 (53)	9,630 (58.5)	9,060 (60.5)
50				8,610 (23.5)	8,630 (39.5)	8,670 (48)	8,720 (54.5)	7,990 (57)
55					7,170 (32)	7,200 (43)	7,250 (50)	7,100 (53)
60					6,000 (22)	6,030 (37)	6,100 (45.5)	6,110 (49)
65						5,080 (30)	5,120 (40.5)	5,150 (44.5)
70						4,270 (20.5)	4,330 (35)	4,350 (40)
75							3,650 (28.5)	3,700 (34.5)
80							3,100 (20)	3,100 (28)
85								2,600 (20)
Minimum boom angle (¡) for indicated length (no load)								0
Maximum boom length (ft.) at 0¡ boom angle (no load)								95

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

Lifting Capacities at Zero Degree Boom Angle On Outriggers Fully Extended - 360¡

Boom Angle	Main Boom Length in Feet							
	29	40	50	60	70	80	90	95.2
0 deg.	26,100 (22.8)	15,800 (33.8)	11,000 (43.8)	7,430 (53.8)	5,220 (63.8)	3,730 (73.8)	2,660 (83.8)	2,220 (89)

NOTE: ( ) Reference radii in feet.

A6-829-101755

RT530E load chart

Feet	Pounds			
	**26 ft. LENGTH		45 ft. LENGTH	
	#0021 0_i OFFSET	#0023 30_i OFFSET	#0041 0_i OFFSET	#0043 30_i OFFSET
30	*8,200 (76)			
35	8,200 (73.5)		*5,250 (76)	
40	8,200 (71)	*5,780 (76)	5,250 (75)	
45	8,120 (68.5)	5,780 (73.5)	4,940 (73)	
50	7,350 (66)	5,360 (71)	4,540 (71)	
55	6,370 (63)	4,750 (68)	4,150 (68.5)	*2,730 (76)
60	5,670 (60.5)	4,290 (65)	3,890 (66)	2,730 (74.5)
65	4,820 (57.5)	3,870 (62)	3,740 (64)	2,730 (72)
70	4,200 (54.5)	3,530 (59)	3,600 (61.5)	2,580 (69.5)
75	3,680 (51.5)	3,230 (56)	3,470 (59)	2,520 (67)
80	3,080 (48.5)	3,000 (52.5)	3,240 (56.5)	2,460 (64)
85	2,520 (45)	2,780 (49)	3,050 (54)	2,420 (61.5)
90	2,050 (41)	2,410 (45)	2,820 (51)	2,390 (58.5)
95	1,670 (37)	1,970 (40.5)	2,480 (48.5)	2,370 (55.5)
100	1,370 (32.5)	1,580 (35.5)	2,090 (45.5)	2,310 (52)
105	1,020 (27.5)		1,740 (42)	2,000 (49)
110			1,430 (38.5)	1,580 (45)
115			1,150 (35)	1,260 (40.5)
120			900 (30.5)	
Min. boom angle for indicated length (no load)	24_i	30_i	30_i	30_i
Max. boom length at 0_i boom angle (no load)	80 ft.		80 ft.	

#LMI operating code. Refer to LMI manual for instructions. A6-829-100272A
*This capacity based on maximum boom angle.
26 ft. capacities are also applicable to fixed offsettable ext. However, the LMI codes will change to **#0051 and **#0053** for 0_i and 30_i offset, respectively.

BOOM EXTENSION CAPACITY NOTES:

1. All capacities above the bold line are based on structural strength of boom extension.
2. 26 ft. and 45 ft. boom extension lengths may be used for single line lifting service.
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 fully extended and vertical jacks set only.

Feet	Pounds			
	#9005			
	Main Boom Length in Feet			
	29	40	50	60
10	25,550 (60.5)	25,550 (70)	*16,450 (76)	
12	20,600 (56)	20,600 (66.5)	16,450 (72)	
15	14,350 (47.5)	14,350 (62)	14,350 (68)	14,350 (72.5)
20	8,280 (30)	8,280 (53)	8,280 (61.5)	8,280 (67)
25		5,330 (42.5)	5,330 (54.5)	5,330 (61.5)
30		3,630 (29)	3,630 (47)	3,630 (56)
35			2,500 (38)	2,500 (49.5)
40			1,690 (26)	1,690 (42.5)
45				1,090 (34.5)
Min. boom angle for indicated length (no load)				34_i
Max. boom length at 0_i boom angle (no load)				50 ft.

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

Lifting Capacity at Zero Degree On Rubber - 360_i

Boom Angle	Main Boom Length in Feet		
	29	40	50
0_i	6,110 (22.8)	2,730 (33.8)	1,210 (43.8)

NOTE: Reference radii in feet. A6-829-100274C

Feet	Pounds			
	#9005			
	Main Boom Length in Feet			
	29	40	50	60
10	30,100 (60.5)	26,550 (70)	16,450 (74.5)	
12	26,550 (56)	22,100 (66.5)	16,450 (72)	
15	22,100 (47.5)	22,100 (62)	16,450 (68)	16,450 (72.5)
20	16,050 (30)	16,050 (53)	16,050 (61.5)	16,050 (67)
25		11,005 (42.5)	11,005 (54.5)	11,005 (61.5)
30		8,060 (29)	8,060 (47)	8,060 (56)
35			6,110 (38)	6,110 (49.5)
40			4,720 (26)	4,720 (42.5)
45				3,680 (34.5)
50				2,870 (23.5)
Min. boom angle for indicated length (no load)				0_i
Max. boom length at 0_i boom angle (no load)				60 ft.

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

Lifting Capacity at Zero Degree On Rubber
Stationary- Defined Arc Boom Centered Over Front

Boom Angle	Main Boom Length in Feet			
	29	40	50	60
0_i	12,700 (22.8)	6,500 (33.8)	3,890 (43.8)	2,360 (53.8)

NOTE: Reference radii in feet. A6-829-100275B

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.

RT530E load charts

29-60 ft. | 8,400 lbs | Pick & Carry (Max. 2.5 MPH) 20.5 x 25 Tires | Boom Centered Over Front

Pounds

#9006

Feet	Main Boom Length in Feet 29	40	50	60
10	25,900 (60.5)	25,900 (70)	18,250 (74.5)	
12	22,350 (56)	22,350 (66.5)	18,250 (72)	
15	18,250 (47.5)	18,250 (62)	18,250 (68)	13,350 (72.5)
20	13,350 (30)	13,350 (53)	13,350 (61.5)	13,350 (67)
25		10,350 (42.5)	10,350 (54.5)	10,350 (61.5)
30		8,060 (29)	8,060 (47)	8,060 (56)
35			4,810 (38)	4,810 (49.5)
40			3,770 (26)	3,770 (42.5)
45				2,930 (34.5)
50				2,240 (23.5)
Min. boom angle for indicated length (no load)				0¡
Max. boom length at 0¡ boom angle (no load)				60 ft.

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

Lifting Capacity at Zero Degree On Rubber Pick & Carry - Boom Centered Over Front

Boom Angle	Main Boom Length in Feet 29	40	50	60
0¡	11,400 (22.8)	5,090 (33.8)	3,110 (43.8)	1,800 (53.8)

NOTE: Reference radii in feet. A6-829-100276B

NOTES TO ALL RUBBER CAPACITY CHARTS:

1. Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J765.
2. Capacities are applicable to machines equipped with 20.5x25 (24 ply) tires at 75 psi cold inflation pressure, and 16.00x25 (28 ply) tires at 100 psi cold inflation pressure.
3. Defined Arc - Over front includes 6° on either side of longitudinal centerline of machine (ref. drawing C6-829-003529).
4. Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
5. Capacities are applicable only with machine on firm level surface.
6. On rubber lifting with boom extensions not permitted.
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.
8. Axle lockouts must be functioning when lifting on rubber.
9. 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.
10. Creep - Not over 200 ft. of movement in any 30 minute period and not exceeding 1mph.

29-95 ft. | 8,400 lbs | 50% 14 ft. spread | 360…

Pounds

#4001

Feet	Main Boom Length in Feet 29	40	50	60	70	80	90	95
10	60,000 (60.5)	48,000 (69.5)	45,000 (74.5)					
12	53,300 (56)	48,000 (66.5)	44,950 (72)	*37,000 (76)				
15	42,100 (47.5)	40,500 (61.5)	38,350 (68)	36,000 (72)	*27,400 (76)	*21,000 (76)		
20	23,950 (30)	23,850 (53)	23,900 (61.5)	24,050 (67)	23,200 (71)	21,000 (73.5)	*17,000 (76)	*15,500 (76)
25		15,850 (42.5)	15,950 (54.5)	16,150 (61.5)	16,350 (66.5)	16,400 (70)	15,950 (72.5)	15,300 (74)
30		11,350 (29)	11,500 (47)	11,650 (56)	11,800 (61.5)	12,000 (66)	12,150 (69)	12,100 (70.5)
35			8,620 (38)	8,820 (49.5)	8,930 (56.5)	9,050 (61.5)	9,190 (65.5)	9,260 (67.5)
40			6,610 (26)	6,820 (42.5)	6,900 (51.5)	6,990 (57.5)	7,100 (62)	7,150 (64)
45				5,350 (34.5)	5,400 (46)	5,470 (53)	5,550 (58.5)	5,600 (60.5)
50				4,220 (23.5)	4,260 (39.5)	4,310 (48)	4,370 (54.5)	4,410 (57)
55					3,350 (32)	3,390 (43)	3,430 (50)	3,460 (53)
60					2,600 (22)	2,640 (37)	2,670 (45.5)	2,700 (49)
65						2,020 (30)	2,050 (40.5)	2,060 (44.5)
70						1,490 (20.5)	1,520 (35)	1,530 (40)
75							1,070 (28.5)	1,080 (34.5)
0.1A (lb.)	660	610	580	560	550	540	540	530
Minimum boom angle (¡) for indicated length (no load)							15	20
Maximum boom length (ft.) at 0¡ boom angle (no load)							80	

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

Lifting Capacities at Zero Degree Boom Angle On Outriggers 50% Extended - 360¡

Boom Angle	Main Boom Length in Feet 29	40	50	60	70	80
0 deg.	18,800 (22.8)	9,000 (33.8)	5,400 (43.8)	3,480 (53.8)	2,100 (63.8)	1,130 (73.8)

NOTE: ( ) Reference radii in feet. A6-829-100270A

load charts

29-95 ft. | 8,400 lbs | 0% | 7 ft. 10 in. spread | 360…

Pounds

#8001

Feet	Main Boom Length in Feet 29	40	50	60	70	80	90	95
10	34,700 (60.5)	32,400 (69.5)	30,400 (74.5)					
12	26,200 (56)	25,400 (66.5)	24,100 (72)	*22,900 (76)				
15	17,750 (47.5)	17,550 (61.5)	17,550 (68)	17,250 (72)	*16,550 (76)	*10,900 (76)		
20	10,650 (30)	10,600 (53)	10,650 (61.5)	10,750 (67)	11,000 (71)	10,900 (73.5)	*10,500 (76)	*10,350 (76)
25		6,930 (42.5)	7,020 (54.5)	7,170 (61.5)	7,350 (66.5)	7,560 (70)	7,610 (72.5)	7,490 (74)
30		4,670 (29)	4,780 (47)	4,950 (56)	5,080 (61.5)	5,240 (66)	5,390 (69)	5,480 (70.5)
35			3,270 (38)	3,450 (49.5)	3,550 (56.5)	3,660 (61.5)	3,780 (65.5)	3,850 (67.5)
40			2,170 (26)	2,370 (42.5)	2,440 (51.5)	2,520 (57.5)	2,620 (62)	2,670 (64)
45				1,550 (34.5)	1,600 (46)	1,660 (53)	1,740 (58.5)	1,780 (60.5)
50							1,050 (54.5)	1,080 (57)
0.1A (lb)	660	610	580	560	550	540	540	530
Minimum boom angle (¡) for indicated length (no load)				33	43	51	53	55
Maximum boom length (ft.) at 0¡ boom angle (no load)						50		

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

Lifting Capacities at Zero Degree Boom Angle On Outriggers 0% Extended - 360¡

Boom Angle	Main Boom Length in Feet 29	40	50
0 deg.	8,310 (22.8)	3,390 (33.8)	1,480 (43.8)

NOTE: ( ) Reference radii in feet.

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29-95 ft. | 26-45 ft. | 8,400 lbs | 50% | 14 ft. spread | 360…

Pounds

Feet	**26 ft. LENGTH #4021 0¡ OFFSET	**26 ft. LENGTH #4023 30¡ OFFSET	45 ft. LENGTH #4041 0¡ OFFSET	45 ft. LENGTH #4043 30¡ OFFSET
30	*8,200 (76)			
35	8,200 (73.5)		*5,250 (76)	
40	6,940 (71)	*5,780 (76)	5,250 (75)	
45	5,580 (68.5)	5,780 (73.5)	4,940 (73)	
50	4,490 (66)	5,360 (71)	4,540 (71)	
55	3,600 (63)	4,350 (68)	4,150 (68.5)	*2,730 (76)
60	2,860 (60.5)	3,430 (65)	3,490 (66)	2,730 (74.5)
65	2,190 (57.5)	2,670 (62)	2,870 (64)	2,730 (72)
70	1,610 (54.5)	2,030 (59)	2,340 (61.5)	2,580 (69.5)
75	1,120 (51.5)	1,490 (56)	1,840 (59)	2,520 (67)
80		1,020 (52.5)	1,400 (56.5)	2,260 (64)
85			1,020 (54)	1,760 (61.5)
90				1,310 (58.5)
0.1A (lb.)	570	540	500	460
Min. boom angle for indicated length (no load)	44¡	46¡	48¡	49¡
Max. boom length at 0¡ boom angle (no load)	60 ft.		60 ft.	

NOTE: ( ) Boom angles are in degrees.
#LMI operating code. Refer to LMI manual for instructions.
*This capacity based on maximum boom angle.
26 ft. capacities are also applicable to fixed offsettable ext. However, the LMI codes will change to **#4051 and **#4053** for 0¡ and 30¡ offset, respectively.

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BOOM EXTENSION CAPACITY NOTES:

1. All capacities above the bold line are based on structural strength of boom extension.
2. 26 ft. and 45 ft. boom extension lengths may be used for single line lifting service.
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.

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.

load handling

Weight Reductions for Load Handling Devices

26 ft. Offsettable Boom Extension	Pounds
*Erected –	2,960

26 ft.-45 ft. Tele. Boom Extension	Pounds
*Erected (Retracted) –	4,220
*Erected (Extended) –	5,780

*Reduction of main boom capacities

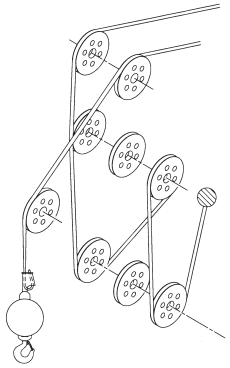
Auxiliary Boom Nose	Pounds
	142

Hookblocks and Headache Balls	Pounds
30 Ton, 3 Sheave	580 +
15 Ton, 2 Sheave	425 +
7.5 Ton Overhaul Ball	354 +
7.5 Ton Headache Ball	338 +

+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.



Line Pulls and Reeving Information

Hoists	Cable Specs	Permissible Line Pulls	Nominal Cable Length
Main & Aux.	5/8" (16 mm) Flex-X35 (35x7) Rotation Resistant (non-rotating) Min. Breaking Str. 61,200 lb.	11,640 lb.	450 ft.
Main	5/8" (16 mm) 6x37 Class EIPS, IWRC Special Flexible Min. Breaking Str. 41,200 lb.	11,640 lb.	450 ft.

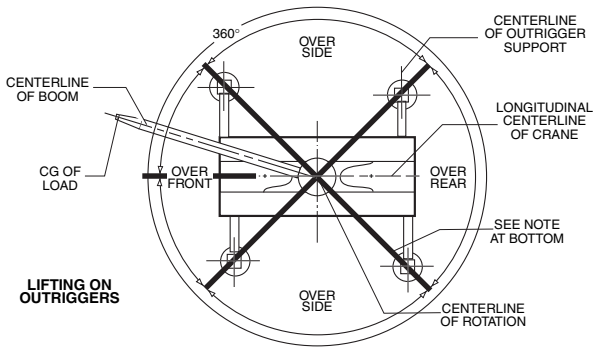
Hoist Performance

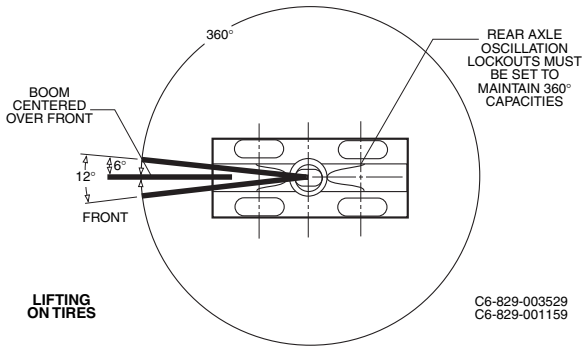
Wire Rope Layer	Hoist Line Pulls Available lb.*	Drum Rope Capacity (ft.) Layer	Total
1	11,640	77	77
2	10,480	85	162
3	9,530	94	256
4	8,730	102	358
5	8,060	111	469
6	7,490	119	588

*Max. lifting capacity: 6x37 class = 11,640 lb.
35x7 class = 11,640 lb.

Working Area Diagram

DIAGRAM OF WORKING AREA





BOLD LINES DETERMINE THE LIMITING POSITION OF ANY LOAD FOR OPERATION WITHIN WORKING AREAS INDICATED

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

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

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