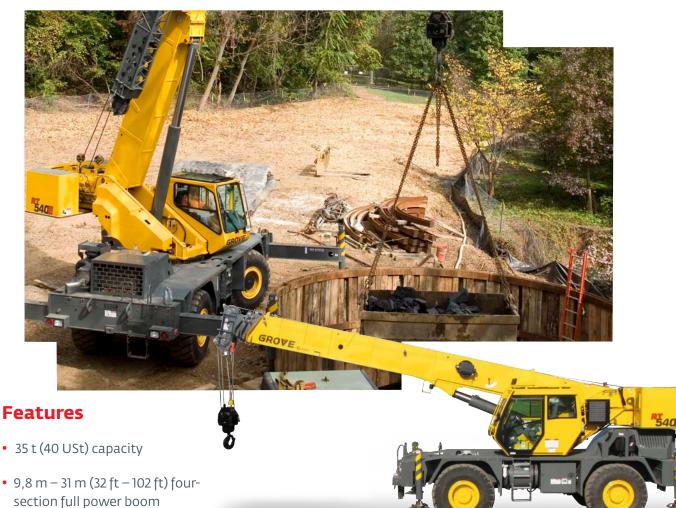


Grove Manitowoc National Crane Potain



Grove RT540E

Product Guide



- 9,8 m 31 m (32 ft 102 ft) foursection full power boom
- 7,9 m 13,7 m (26 ft 45 ft) offsettable telescopic swingaway extension
- Dual-axis electric joystick controllers
- Full frame decking
- Full vision cab design
- 119 kW (160 hp) Cummins diesel engine (Tier IV)



Features



Boom shape

The RT540E is equipped with a 9,8 m - 31 m (32 ft - 102 ft) four-section full power boom. The boom incorporates a rectangular boom shape made from 100 k.s.i. steel which eliminates weight and maximizes structural capacities.



CraneSTAR is an exclusive and innovative crane asset management system that helps improve your profitability and reduce costs by remotely monitoring critical crane data. Visit www.cranestar.com for more information.



Tip height

The RT540E offers a 7,9 m - 13,7 m (26 ft - 45 ft) offsettable telescopic swingaway providing a maximum tip height of 47 m (154 ft) with 13,7 m (45 ft).



Cab

The Full Vision cab with tilt-telescoping steering wheel, dual-axis controllers, hot water heat and air conditioning provide all day comfort for the operator.



Contents

Specifications	4
Dimensions and weights	7
Working range	8
Load charts	9
Load handling	14



Specifications

Superstructure



Boom

9,8 m - 31 m (32 ft - 102 ft) four-section, synchronized full power boom.

Maximum tip height: 33,6 m (110 ft).



* Optional telescopic swingaway extension

7,9 m - 13,7 m (26 ft - 45 ft) offsettable telescopic lattice swingaway extension. Offsets at 0°, 15° and 30°. Stows alongside base boom section.

Maximum tip height 47 m (154 ft).



Boom nose

Four nylatron sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards. Quick reeve type boom nose.



Boom elevation

One double-acting hydraulic cylinder with integral holding valve provides elevation from -3° to +78°.



Load moment and 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. Tilt/telescoping steering wheel with various controls incorporated into the steering column. 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, seat belt, air conditioning, and dual cab mounted work light.



Swing

Single speed, planetary swing drive with foot applied multi-disc wet brake. Spring applied, hydraulically released swing brake. Single position mechanical house lock, operated from cab.

Maximum speed: 2 rpm.



Counterweight

4305 kg (9490 lb) pinned to superstructure.



Hydraulic system

Two main pumps, one (1) piston and one (1) gear with a combined capacity of 316,5 LPM (83.6 GPM). Maximum operating pressure: 275,7 bar (4000 psi). Three section pressure compensated valve bank. Return line type filter with full flow by-pass protection and service indicator. Replaceable cartridge with micron filtration rating of 5/12/16. 396 L (104.6 gal) hydraulic reservoir. System pressure test ports.



Hoist specifications (HP15C-17G) main and auxiliary hoist

Planetary reduction with automatic spring applied multi-disk wet brake. Electronic hoist drum rotation indicators, and hoist drum cable followers.

Maximum single line pull:

1st layer: 5280 kg (11,640 lb) 3rd layer: 4323 kg (9530 lb) 5th layer: 3656 kg (8060 lb)

Maximum permissible line pull:

5280 kg (11,640 lb) with 6 x 37 class rope 5280 kg (11,640 lb) with 35 x 7 class rope Maximum single line speed: 136 m-min (445 fpm)

Rope construction:

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

Rope diameter: 16 mm (5/8 in)

Rope length:

Main hoist: 137 m (450 ft)
Auxiliary hoist: 137 m (450 ft)
Maximum rope stowage: 181 m (596 ft)



Specifications

Carrier



Chassis

Box section frame fabricated from high-strength, low alloy steel. Combination lift/tie-down/towing lugs.



Outrigger system

Four hydraulic telescoping single-stage double box beam outriggers with inverted jacks and integral holding valves. Three position setting, 0%, 50% and fully extended. All steel fabricated quick release type outrigger floats, 362 mm (14.25 in) square.

Maximum outrigger pad load 26 300 kg (58,000 lb). Outrigger monitoring system comes standard.Outrigger monitoring system comes standard (required in North America and Canada).



Outrigger controls

Controls and crane level indicator located in cab.



Engine (Tier IV)

Cummins QSB 6.7 L diesel, six cylinders, turbocharged with Cummins Diesel Oxidation Catalyst filter/muffler. Meets emissions per U.S.E.P.A. Tier IV and E.U. Stage III B. 119 kW (160 bhp) at 2500 rpm. Maximum torque: 732 N-m (540 ft lb) at 1500 rpm.

Fuel requirement: Maximum of 15 ppm sulphur content (Ultra Low Diesel Fuel).

Note: Tier IV engine Required in North American and European Union countries.



Engine (Tier III)

Cummins QSB 6.7 L diesel, six cylinders, 119 kW (160 bhp) (Gross) at 2500 rpm.

Maximum torque: 732 Nm (540 ft-lb) at 1500 rpm.



Fuel tank capacity

220 L (58 gal)



Transmission

Range-shift 6-speed (3 speeds x 2 range, both forward and reverse). Front axle disconnect for 4 x 2 travel.



Electrical system

Four (4) 12V maintenance free batteries. 24V starting and lighting. Battery disconnect. Full CanBus diagnostic system.





 4×4

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 indicator.

Outside turning radius: 5,8 m (19.1 ft) Inside turning radius: 4 m (13.1 ft)



Axles

Front: Drive/steer with differential and planetary reduction hubs rigid mounted to frame.

Rear: Drive/steer with differential and planetary reduction hubs pivot mounted to frame.

Oscillation lockouts

Automatic full hydraulic lockouts on rear axle permits 25,4 cm (10 in) oscillation only with boom centered over the front.



Brakes

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



Tires

Standard 20.5 x 25-24 bias ply



Lights

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



Specifications

Carrier continued



Maximum speed

40 km/h (25 mph) at 2500 rpm

Gradeability (theoretical)

119% (at engine stall).

(Based on 28 365 kg [62,532 lb] GVW) 20.5 x 25 tires 31 m (102 ft) main boom, plus 13,7 m (45 ft) telescopic swingaway, 4305 kg (9490 lb) counterweight, 35 t (40 USt) hook block and 6,8 t (7.5 USt) headache ball.

Miscellaneous standard equipment

Full width steel fenders, full length steel decking with anti-skid, dual rear view mirrors, hook-block tiedown, electronic back-up alarm, light package, front stowage well, tachometer/hourmeter, rear wheel position indicator, 36,000 Btu hot water cab heater, 28,500 Btu air conditioning, hoist mirrors, engine distress A/V warning system, combination lift/tie-down/towing lugs, coolant sight level indicator, CraneSTAR asset management system.

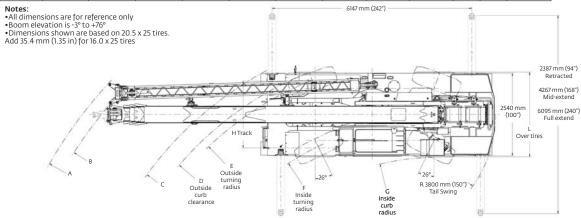
*Optional equipment

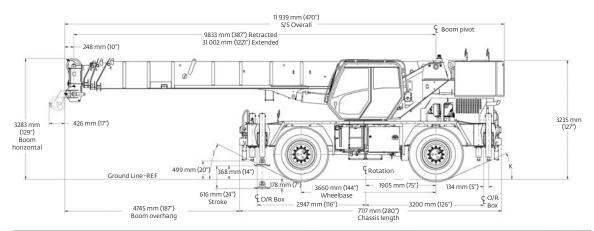
- ➤ Auxiliary Hoist Package: Includes model HP15C-17G auxiliary hoist with electronic hoist drum rotation indicator, hoist drum cable follower, 137 m (450 ft) of 16 mm (5/8 in) 35 x 7 class wire rope and auxiliary sheave boom nose.
- Auxiliary Light and Convenience Package: Includes cab mounted amber flashing light, hoist mounted work lights, and dual base boom mounted floodlights, LMI light bar (in cab), rubber mat for stowage trough.
- ≥ 360° NYC style mechanical swing lock
- Rear Pintle hook
- Cab-controlled cross axle differential locks (front and rear)
- PAT event recorder download kit



Dimensions and weights

Dimens	Dimensions											
	Tire size	Α	В	С	D	Е	F	G	Н	J	К	L
2-wheel	20.5 x 25	13 563 mm (534 in)	13 328 mm (525 in)	10 899 mm (429 in)	10 236 mm (403 in)	10 007 mm (394 in)	8138 mm (320 in)	7021 mm (276 in)	2055 mm (81 in)	25.0°	23.0°	2606 mm (103 in)
steer	16.0 x 25	13 563 mm (534 in)	13 328 mm (525 in)	10 899 mm (429 in)	10 185 mm (401 in)	9981 mm (393 in)	8138 mm (320 in)	7021 mm (276 in)	2093 mm (82 in)	26.0°	24.0°	2536 mm (100 in)
4-wheel	20.5 x 25	9797 mm (386 in)	9490 mm (374 in)	6732 mm (265 in)	6061 mm (239 in)	5832 mm (230 in)	4000 mm (157 in)	3498 mm (137 in)	2055 mm (81 in)	25.0°	23.0°	2606 mm (103 in)
steer	16.0 x 25	9797 mm (386 in)	9490 mm (374 in)	6732 mm (265 in)	6010 mm (237 in)	5806 mm (229 in)	4000 mm (157 in)	3498 mm (137 in)	2093 mm (82 in)	26.0°	24.0°	2536 mm (100 in)





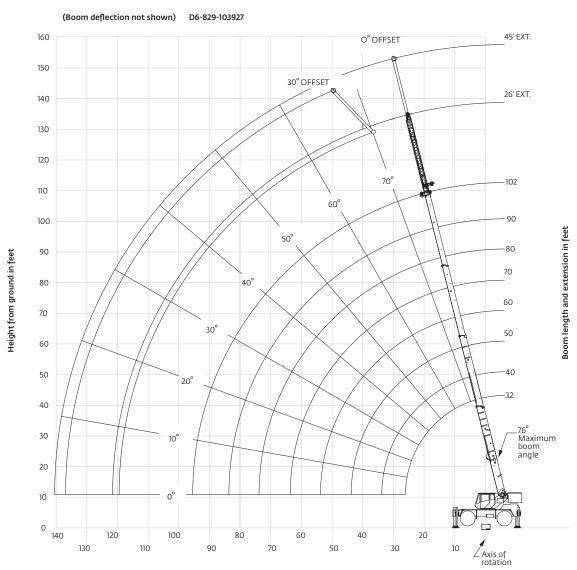
Weights							
	G\	/W	Fre	ont	Re	ear	
	kg	(lb)	kg	(lb)	kg	(lb)	
RT540E basic machine: Including 31 m (102 ft) main boom, main hoist with 137 m (450 ft) of rope, full counterweight + IPO 6,8 t (7.5 USt) headache ball, and 35 t (40 USt) hook block	27 693	(61,052)	13 239	(29,186)	14 454	(31,866)	
Add: Auxiliary hoist + 137 m (450 ft) of 35 x 7 hoist cable and auxiliary boom nose ILO IPO counterweight	27 915	(61,540)	13 320	(29,364)	14 595	(32,176)	
Add: 7,9 m - 13,7 m (26 ft - 45 ft) telescopic boom extension + extension hangers	28 775	(63,438)	14 747	(32,511)	14 028	(30,927)	

Grove RT540E

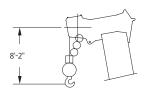


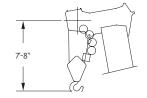
Working range

102 ft main boom + 26 ft - 45 ft extension





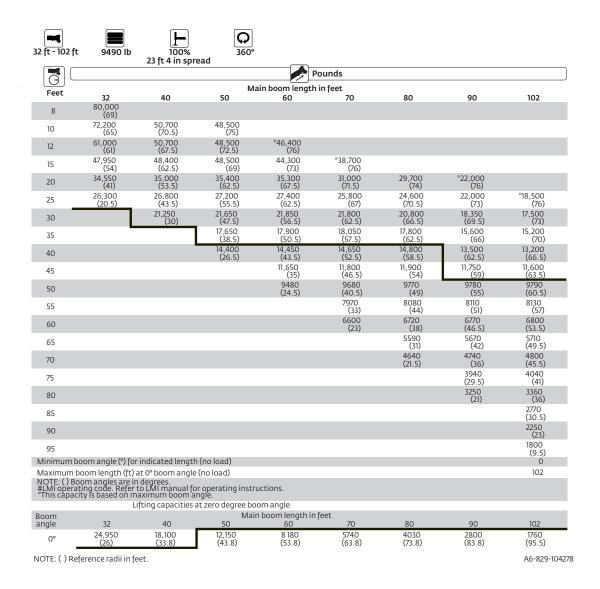




Dimensions are for largest Grove furnished hook block and headache ball, with anti-two block activated.

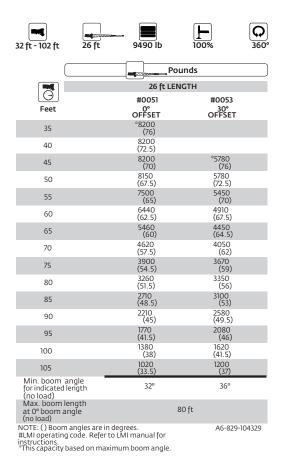


Load chart





Load chart



				Pounds		
		ft LENGT			ft LENGT	
Feet	#0021 0° OFFSET	#0022 15° OFFSET	#0023 30° OFFSET	#0041 0° OFFSET	#0042 15° OFFSET	#0043 30° OFFSE
35	*10,200 (76)					
40	9460 (72.5)	*7770 (76)		*5250 (76)		
45	8760 (70)	7370 (72)	*6030 (76)	5250 (73.5)		
50	8150 (67.5)	6870 (69.5)	5780 (72.5)	5050 (71.5)	3660 (76)	
55	7510 (65)	6050 (67)	5520 (70)	4650 (69.5)	3540 (72.5)	
60	6700 (62.5)	5350 (64.5)	5290 (67.5)	4290 (67)	3430 (70.5)	*3000 (76)
65	5990 (60)	4740 (62)	4810 (64.5)	4000 (65)	3320 (68.5)	2890 (72.5)
70	5240 (57.5)	4210 (59)	4270 (62)	3800 (63)	3220 (66)	2790 (70.5)
75	4400 (54.5)	3750 (56)	3800 (59)	3650 (60.5)	3130 (64)	2700 (68)
80	3670 (51.5)	3330 (53.5)	3380 (56)	3520 (58.5)	3000 (61.5)	2620 (65.5)
85	3050 (48.5)	2960 (50.5)	3010 (53)	3360 (56)	2880 (59)	2550 (63)
90	2500 (45)	2590 (47)	2670 (49.5)	3030 (53.5)	2770 (56.5)	2480 (60.5)
95	2020 (41.5)	2130 (43.5)	2270 (46)	2640 (51)	2680 (54)	2410 (57.5)
100	1590 (38)	1680 (40)	1790 (41.5)	2270 (48)	2570 (51.5)	2380 (55)
105	1200 (33.5)	1280 (35.5)	1360 (37)	1930 (45.5)	2260 (48.5)	2310 (52)
110				1630 (42.5)	1890 (45.5)	2030 (48.5)
115				1330 (39)	1550 (42)	1700 (45)
120				1040 (35.5)	1240 (38.5)	1400 (41)
125						1080 (36.5)
Min. boom ngle for ndicated length no load)	29°	30.5°	36°	34°	34.5°	35°
Max. boom ength at 0° oom angle (n	o lood)	80 ft			80 ft	

Boom extension capacity notes:

- 1. All capacities above the bold line are based on structural strength of boom extension.
- 2. 26 ft fixed 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: Ōperation 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.
- 6. When lifting over the main boom nose with 26 ft fixed extension erected, the outriggers must be fully extended or 50% extended (14 ft spread).

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 tele 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.

- 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 fully extended and vertical jacks set only.
- 6. When lifting over the main boom nose with 26 ft or 45 ft tele extension erected, the outriggers must be fully extended or 50% extended (14 ft spread).

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.



Load chart

32 ft - 60 ft	949	00 lb	Stationary	Q 360°	32 ft - 60 ft	9490 lb	(Max	and carry (. 2.5 mph) (x 25 tires	Defined arc over front
		-Will	Pounds		(ANI	Pounds	
		#	‡900 5				#9	006	
		Main boon	n length in feet		Θ		lain baans la	math in foot	
Feet	32	40	50	60	Feet	32	lain boom le 40	50	60
10	24,050 (65)	24,100 (70.5)	23,000 (76)		10	27,150 (65)	26,900 (70.5)		
12	21,600 (61)	22,050 (67.5)	21,600 (72.5)		12	23,350	23,250 (67.5)		
15	15,250 (54)	15,550 (62.5)	16,100 (68.5)	13,900 (72.5)	15	18,950 (54)	19,100 (62.5)	19,400 (69)	
20	9110 (41)	9380 (53.5)	9860 (62)	9860 (67.5)	20	13,700 (41)	14,200 (53.5)	14,500 (62.5)	14,550 (67.5)
25	5790 (20)	6050 (43)	6400 (55)	6510 (62)	25	10,100	10,750 (43.5)	11,150 (55.5)	11,200 (62)
30		3970 (29.5)	4240 (47.5)	4370 (56)	30	(20)	8290 (30)	8620 (47.5)	8790 (56.5)
35			2770 (38)	2900 (50)	35		(30)	6710 (38.5)	6890 (50)
40			1,690 (26)	1840 (43)	40			5210 (26.5)	5390 (43)
45				1030 (34.5)	45			(20.5)	4180
Minimum boo length (no loa	om angle (°) fo	or indicated		33	50				(35) 3190
Maximum bo	om length (ft.) at 0° boom		50		oṃ angle (°) fo	rindicated		(24)
NOTE: () Boo #LMI operation	m angles are	in degrees.	alfor		length (no loa	ad) oom length (ft)			0
operating ins	tructions. '		'		angle (no loa	d) , , , ,			60
Boom		cities at zero d I boom length	legree boom an in feet	gle	#LMI operati	om angles are i ng code. Refer	to LMI manu	al for	
angle	32	40	50			pacities at zero	degree boor	m angle	
0°	5290 (26)	2850 (33.8)	1060 (43.8)		Boom Angle	Main 32	boom length 40	in feet 50	60
NOTE: () Refe	,			A6-829-104281	0°	9520 (26)	6830 (33.8)	4280 (43.8)	2560 (53.8)
					NOTE: () Ref	erence radii in i	(55.5)	(43.0)	A6-829-104282

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 20.5 x 25 (24 ply) tires at 75 psi cold inflation pressure, and 16.00 x 25 (28 ply) tires at 100 psi cold inflation pressure.

3. Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.

4. Capacities are applicable only with machine on firm level surface.

5.On rubber lifting with boom extensions not permitted.

6. For pick and carry operation, boom must be 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.

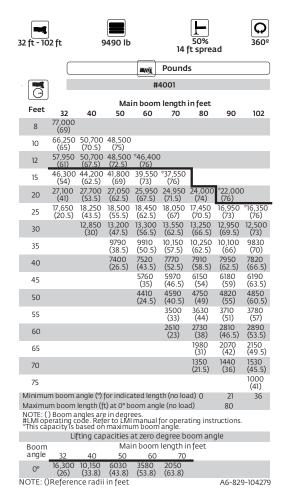
7.Axle lockouts must be functioning when lifting on rubber.

8.All lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. See lifting capacity chart for tire used. Damaged tires are hazardous to safe operation of crane.

9.Creep - Not over 200 ft of movement in any 30 minute period and not exceeding 1 mph.



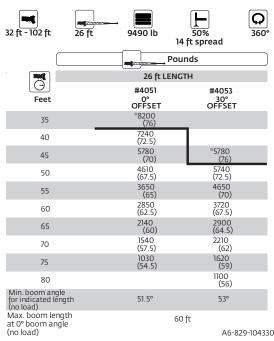
Load chart



32 ft - 10	ft - 102 ft		190 lb		7.8 ft s	% spread		360
				ANK.	Pound	s		
				#8	001			
\bigcirc			Ма	in boom	length	in feet		
Feet	32	40	50	60	70	80	90	102
8	51,950 (69)							
10	37,800 (65)	35,900 (70.5)	33,600 (75)					
12	29,050 (61)	28,100 (67.5)	26,600 (72.5)	*25,150 (76)				
15	20,850 (54)	20,450 (62.5)	19,750 (69)	18,850 (73)	°18,000 (76)			
20	12,500 (41)	13,050 (53.5)	12,950 (62.5)	12,600 (67.5)	12,150 (71.5)	11,700 (74)	*11,250 (76)	
25	7950 (20.5)	8460 (43.5)	8700 (55.5)	8760 (62.5)	8580 (67)	8300 (70.5)	8050 (73)	*7720 (76)
30		5610 (30)	5890 (47.5)	6000 (56.5)	6110 (62.5)	5980 (66.5)	5840 (69.5)	5600 (73)
35			3980 (38.5)	4090 (50.5)	4350 (57.5)	4270 (62.5)	4200 (66)	4060 (70)
40			2600 (26.5)	2710 (43.5)	2940 (52.5)	2970 (58.5)	2940 (62.5)	2850 (66.5
45				1670 (35)	1860 (46.5)	1960 (54)	1950 (59)	1890 (63.5
50					1020 (40.5)	1160 (49)	1160 (55)	1110
Minimum indicated Maximum	l length (r n boom le	no load) ngth (ft)		0	33	44 60	51	57
boom and NOTE: (#LMI or "This ca) Boom	angles a	ire in de efer to L on maxii	grees. MI manu mum boo	ial for or	nerating	instruct	ions.
			acities	at zero d	legree b	oom an	gle	
Boom angle	32	40	Mai 50	in boom 	length i	n feet		
0°	7230 (26)	4060 (33.8)	1790 (43.8)					
NOTE: ()	Refere	nce radi	i in feet				A6-82	9-10428



Load chart



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

Q 32 ft - 102 ft 26 ft - 45 ft 9490 lb 14 ft spread **Pounds** 26 ft LENGTH Θ #4022 #4023 #4041 #4042 #4043 Feet O° 15° 30° 0° 15° 30° OFFSET OFFSET OFFSET OFFSET 35 (76) 40 7240 (72.5) 5780 (70) 6460 (72) 5250 (73.5) 45 5740 (72.5) 50 4280 (69.5) 3650 (65) 4180 (67) 3540 (72.5) 55 °3000 (76) 2850 (62.5) 3320 (64.5) 3480 (67) 3430 (70.5) 60 3720 (67.5) 2820 (65) 2550 (62) 65 2890 (72.5) 1540 (57.5) 1900 (59) 2210 (62) 2260 (63) 2880 (66) 2790 (70.5) 70 75 1800 (61.5) 1100 1300 (58.5) 80 (65.5) 1750 (63) 85 90 (60.5) Min. boom angle for indicated length (no load) Max. boom length at 0° boom angle (no load) 56° 56.5 57.5° 60 ft

NOTE: () Boom angles are in degrees. #LMI operating code. Refer to LMI manual for instructions °This capacity based on maximum boom angle. A6-829-104323

Boom extension capacity notes:

- 1. All capacities above the bold line are based on structural strength of boom extension.
- 2. 26 ft fixed 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.

- 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.
- When lifting over the main boom nose with 26 ft fixed extension erected, the outriggers must be fully extended or 50% extended (14 ft spread).

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 tele 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.
- When lifting over the main boom nose with 26 ft or 45 ft tele extension erected, the outriggers must be fully extended or 50% extended (14 ft spread).



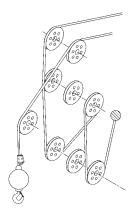
Load handling

Weight reductions for load handling d	evices
26 ft fixed boom extension	lb
* Erected	2750
26 ft - 45 ft telescopic boom extension	
* Erected (retracted) -	3750
* Erected (extended) -	5010
Auxiliary boom nose	lb
	105
Hook blocks and headache balls	lb
35 USt, 3-sheave (14 in sheave)	623 +
35 USt, 3-sheave (12 in sheave)	599 +
35 USt, 4-sheave (CE)	774 +
7.5 USt, overhaul ball	369 +

^{*} Reduction of main boom capacities

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.

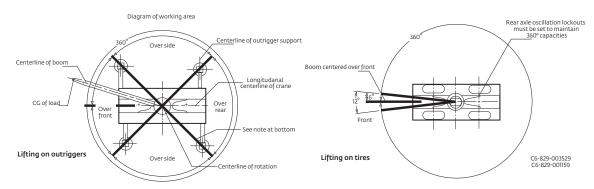


Line pulls and reeving information						
Hoists	Cable specs	Permissable line pulls	Nominal cable length			
Main	16 mm (5/8 in) 6 x 37 class EIPS, IWRC Special Flexible Min. Breaking Str. 41,200 lb	11,640 lb	450 ft			
Main and auxiliary	16 mm (5/8 in) Flex-X 35 Rotation resistant (non-rotating) Min. breaking Str. 61,200 lb	11,640 lb	450 ft			

Hoist performance							
Wire rope layer	Hoist li two-spe	ne pulls eed hoist	Drum rope	capacity (ft)			
	Low available lb [‡]	High available lb*	Layer	Total			
1	11,640	7420	77	77			
2	10,480	6680	85	162			
3	9530	6070	94	256			
4	8730	5570	102	358			
5	8060	5140	111	469			
6	7490	4770	119	588			

^{*} Max lifting capacity: 6 x 37 class = 11,640 lb 35 x 7 class = 11,640 lb

Working area diagram



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

⁺ Refer to rating plate for actual weight



Notes

Grove RT540E 15



Grove Manitowoc National Crane Potain



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