

# **Grove RT540E**

# **Product Guide**

ASME B30.5 Imperial 85%



# **Features**

- 35 t (40 USt) capacity
- 9,8 m 31 m (32 ft 102 ft) four-section full power boom
- 7,9 m 13,7 m (26 ft 45 ft) offsettable telescopic swingaway extension
- Full vision cab design with new Crane Control System (CCS)
- Full frame decking
- 122 kW (164 hp) Cummins diesel engine (Tier IV)

# **Features**



# Boom shape

The RT540 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.



# Crane Control System (CCS)

The new Crane Control System offers a user-friendly interface, two full graphic displays mounted vertically for better visibility, and a jog dial for easier data input.

### Cab

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



# CraneST

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 RT540 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).

# **Contents**

Specifications	4
Dimensions and weights	7
Working range	8
Load charts	9
Load handling	14
Symbols glossary	15

# 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°.



## Crane Control System (CCS)

"Graphic Display" load moment and anti-two block system with audio-visual warning and control lever lockout. This system provides 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 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. Adjustable deluxe seat incorporates armrest-mounted electronic single or dual axis controllers and a jog dial for easier data input. 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 35 x 7 class rope Maximum single line speed: 136 m-min (445 fpm) Rope construction:

35 x 7 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 (required in North America, Canada, and E.U. Countries).



# **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. 122 kW (164 bhp) at 2300 rpm. Maximum torque: 731 N-m (539 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, Canada, 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**

Two (2) 12V maintenance free batteries. 24V starting and lighting. Battery disconnect. Full CanBus diagnostic system.



Drive

 $4 \times 4$ 



# 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

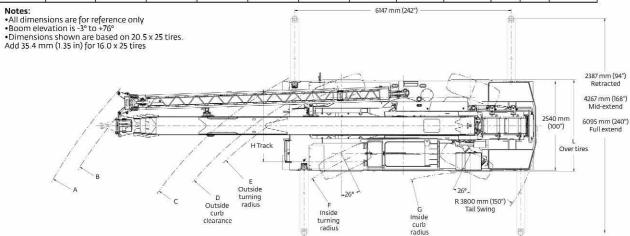
Full width steel fenders, full length steel decking with anti-skid, dual rear view mirrors, hook-block tiedown, electronic back-up alarm, light package, front stowage well, tachometer/hour meter, rear wheel position indicator, 36,000 Btu hot water cab heater, 28,500 Btu air conditioning, hoist mirrors,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

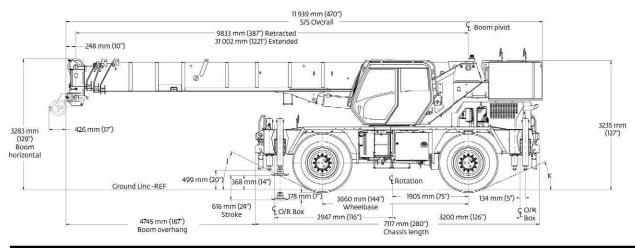
### \*Optional equipment

- 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					· · · · · ·							
	Tire size	Α	В	C	D	E	F	G	Н	J	K	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)

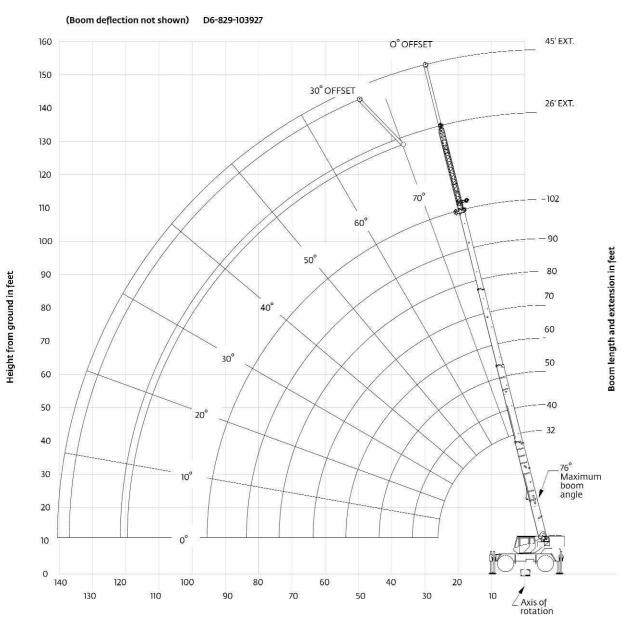




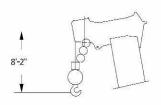
eights						
	GVW		Fr	ont	Rear	
	kg	(lb)	kg	(lb)	kg	(lb)
RT540 basic machine: Including 31 m (102 ft) main boom, main hoist with 137 m (450 ft) of rope, full counterweight + IPO 6,8 t (7.5 USt) headache ball, and 35 t (40 USt) hook block	27 693	(61,052)	13 239	(29,186)	14 454	(31,866)
<b>Add:</b> Auxiliary 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)
<b>Add:</b> 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)

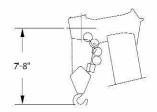
# Working range

### 102 ft main boom + 26 ft - 45 ft 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.

ft - 102 ft	9490 lb	[ <b>—</b> ] 100% 23 ft 4 in spread		) 00°				
				Pou	nds			
Feet	32	40	50	Main boom length in	feet 70	80	90	102
8	80,000 (69)	40	50	00	70	80	90	102
10	72,200 (65)	50,700 (70.5)	48,500 (75)					
12	61,000 (61)	50,700 (67.5)	48,500 (72.5)	*46,400 (76)				
15	47,950 (54)	48,400 (62.5)	48,500 (69)	44,300 (73)	*38,700 (76)			
20	34,550 (41)	35,000 (53.5)	35,400 (62.5)	35,300 (67.5)	31,000 (71.5)	29,700 (74)	*22,000 (76)	
25	26,300 (20.5)	26,800 (43.5)	27,200 (55.5)	27,400 (62.5)	25,800 (67)	24,600 (70.5)	22,000 (73)	*18,500 (76)
30		21,250 (30)	21,650 (47.5)	21,850 (56.5)	21,800 (62.5)	20,800 (66.5)	18,350 (69.5)	17,500 (73)
35	5.		17,650 (38.5)	17,900 (50.5)	18,050 (57.5)	17,800 (62.5)	15,600 (66)	15,200 (70)
40			14,400 (26.5)	14,450 (43.5)	14,650 (52.5)	14,800 (58.5)	13,500 (62.5)	13,200 (66.5)
45				11,650 (35)	11,800 (46.5)	11,900 (54)	11,750 (59)	11,600 (63.5)
50				9480 (24.5)	9680 (40.5)	9770 (49)	9780 (55)	9790 (60.5)
55					7970 (33)	8080 (44)	8110 (51)	8130 (57)
60					6600 (23)	6720 (38)	6770 (46.5)	6800 (53.5)
65						5590 (31)	5670 (42)	5710 (49.5)
70						4640 (21.5)	4740 (36)	4800 (45.5)
75							3940 (29.5)	4040 (41)
80							3250 (21)	3360 (36)
85								2770 (30.5)
90								2250 (23)
95								1800 (9.5)
Aaximum bo	om length (ft) a	indicated length (nat 0° boom angle (na degrees. to LMI manual for o aximum boom angl	o load)	structions.				0 102
		fting capacities at z	ero degree	boom angle				
oom ngle	32	40	50	Main boom length in fee 60	70	80	90	102
0°	24,950 (26)	18,100 (33.8)	12,150 (43.8)	8 180 (53.8)	5740 (63.8)	4030 (73.8)	2800 (83.8)	1760 (95.5)
OTE: ( ) Refe	erence radii in fe	et.						A6-829-104

	Pou	nds
	26 ft LENG	GTH
[ 🔾 ] Feet	#0051 0° OFFSET	#0053 30° OFFSET
35	*8200 (76)	
40	8200 (72.5)	
45	8200 (70)	*5780 (76)
50	8150 (67.5)	5780 (72.5)
55	7500 (65)	5450 (70)
60	6440 (62.5)	4910 (67.5)
65	5460 (60)	4450 (64.5)
70	4620 (57.5)	4050 (62)
75	3900 (54.5)	3670 (59)
80	3260 (51.5)	3350 (56)
85	2710 (48.5)	3100 (53)
90	2210 (45)	2580 (49.5)
95	1770 (41.5)	2080 (46)
100	1380 (38)	1620 (41.5)
105	1020 (33.5)	1200
nin. boom angle or indicated length no load)	32°	36°
1ax. boom length t 0° boom angle no load)	80	) ft

"This capacity based on maximum boom angle.

32 ft - 102 ft	26 ft	- 45 ft	94	90 lb	100%	<b>Q</b> 360°
		-		Pounds		
	26	ft LENGT	H	45	ft LENGT	Н
Feet	#0021 O° OFFSET	#0022 15° OFFSET	#0023 30° OFFSET	#0041 0° OFFSET	#0042 15° OFFSET	#0043 30° OFFSET
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 angle for indicated length (no load) Max. boom	29°	30.5°	36°	34°	34.5°	35°
length at 0° boom angle (n	o load)	80 ft			80 ft	

NOTE: () Boom angles are in degrees. #LMI operating code. Refer to LMI manual for instructions. \*This capacity based on maximum boom angle. A6-829-104322

#### Boom extension capacity notes:

- 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.

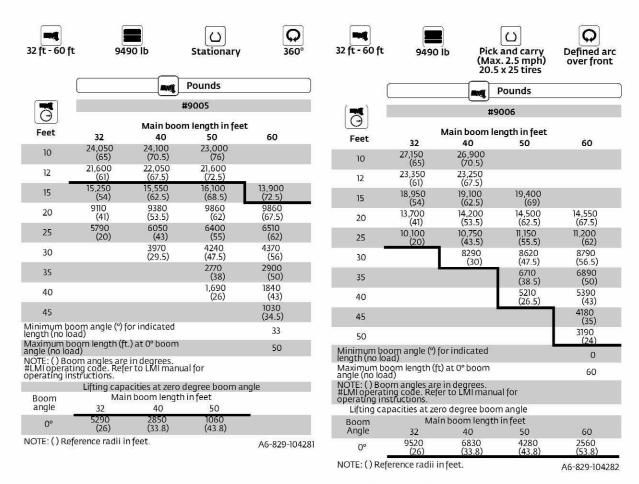
- Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- Capacities listed are with outriggers fully extended and vertical jacks set only.
- When lifting over the main boom nose with 26 ft fixed extension erected, the outriggers must be fully extended or 50% extended (14 ft spread).

#### Boom extension capacity notes:

- 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

**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.

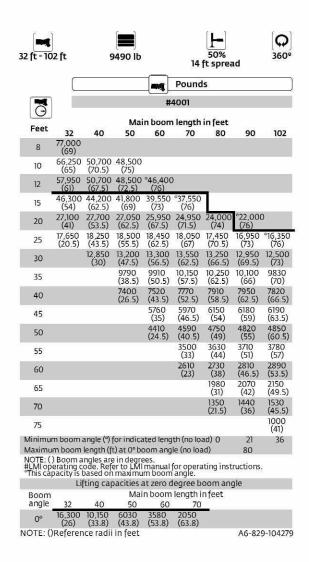
- Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- Capacities listed are with outriggers fully extended and vertical jacks set only.
- When lifting over the main boom nose with 26 ft or 45 ft tele extension erected, the outriggers must be fully extended or 50% extended (14 ft spread).

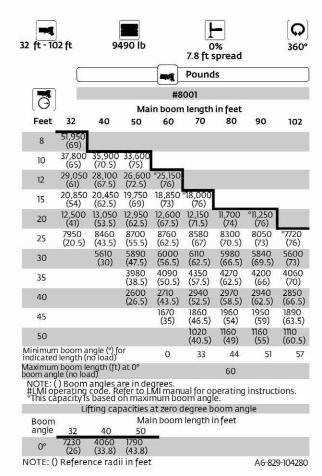


#### Notes to all rubber capacity charts:

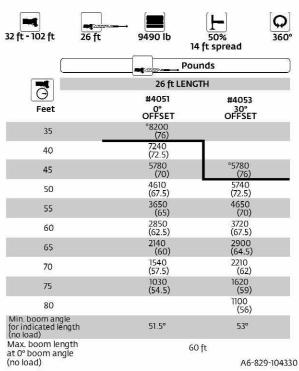
1.Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J765.

- 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.





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

#### 32 ft - 102 ft 26 ft - 45 ft 9490 lb 360 50% 14 ft spread Pounds 26 ft LENGTH 45 ft LENGTH Θ #4021 #4022 #4023 #4041 #4042 #4043 Feet OFFSET 15° 30° 0° 15° 30° OFFSET OFFSET OFFSET OFFSET 9120 40 5780 (70) 6460 (72) 45 4610 (67.5) 5050 (71.5) 5200 (69.5) 5740 (72.5) 50 4280 (69.5) 55 2850 (62.5) 3320 (64.5) 60 2140 (60) 1540 (57.5) 2210 2260 2790 (70.5) 2880 (66) 70 1620 (59) 1740 (60.5) 75 2240 (65.5) 80 1750 (63) 85 1320 (60.5) 90 Min. boom angle for indicated length (no load) Max. boom length at 0° boom angle (no load) 51.59 53.5° 539 569 56.59 57.5° 60 ft 60 ft

NOTE: () Boom angles are in degrees.

A6-829-104323

#LMI operating code. Refer to LMI manual for instructions. \*This capacity based on maximum boom angle.

### 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.

- 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 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.
- Capacities listed are with outriggers properly 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

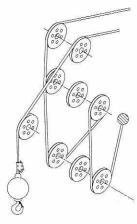
# Load handling

Weight reductions for load handling devices				
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+			

<sup>\*</sup> 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.

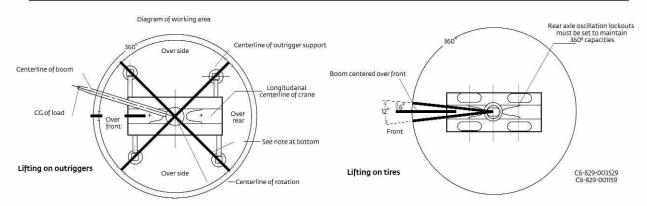


Hoists	Cable specs	Permissible line pulls	Nominal cable length
Main	16 mm (5/8 in) 6 x 37 class EIPS, IWRC Special Flexible Min. Breaking Str. 41,200 lb	11,640 lb	450 ft
Main and auxiliary	16 mm (5/8 in) Flex-X 35 Rotation resistant (non-rotating) Min. breaking Str. 61,200 lb	11,640 lb	450 ft

Wire rope layer	Hoist li two-spe	ne pulls ed 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	

<sup>\*</sup> Max lifting capacity: 6 x 37 class = 11,640 lb 35 x 7 class = 11,640 lb

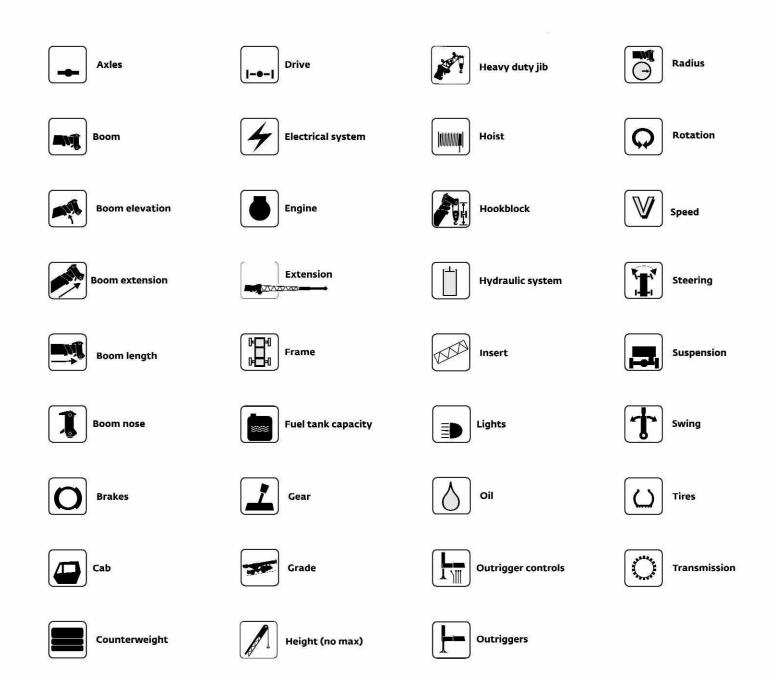
# Working area diagram



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

<sup>+</sup> Refer to rating plate for actual weight

# Symbols glossary





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