



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

- Intuitive, user friendly controls with electronic joysticks and operator customizable function speeds
- Full frame decking
- 122 kW (164 hp) Cummins diesel engine (Tier 4F)

GROVE RT540E

Grove design and engineering expertise have been developed through years of manufacturing an outstanding line of performance-proven, rough-terrain cranes. The RT540E builds upon this tradition with exceptional mobility and fast set-up on any job-site.

Features

> Boom

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 ksi steel, which eliminates weight and maximizes structural capacities.



> Crane Control System (CCS)

The Crane Control System (CCS) offers a user friendly interface, two full graphic displays mounted vertically for easier viewing and a jog dial for easier navigation and data input. The system allows the electronic controllers to be reprogrammed by the operator for specific speed and reaction.







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





> 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).





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.

Job site benefits

> Exceptional maneuverability

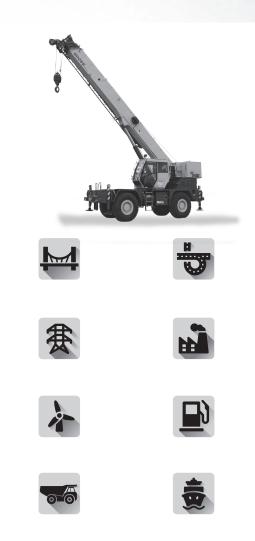
Maneuvering around the job site is easier with Grove roughterrain cranes. Four-wheel drive combined with four modes of steering (front only, rear only, crab and coordinated) allows operators to get closer to the lift regardless of congested areas or adverse ground conditions. All modes are controlled through steering wheel and rocker switches, so there's no need for operators to stop and align the wheels.

Job site flexibility means more lifts for greater profitability

Grove rough-terrain cranes can be reconfigured to fit numerous lifting applications, giving you more lifting versatility. That provides you with the potential to win more jobs for greater profitability and return on investment.

Innovation drives enhanced operation and efficiency

Grove utilizes the latest technology to provide the highest work efficiency and safety — all while meeting today's strict environmental standards. Our innovations ensure reliable crane performance along with operator productivity and comfort.





Manitowoc Crane Care when you need it.

The assurance of the world's most advanced crane service and support to get you back to work fast.



Manitowoc Finance helps you get right to work generating profits for your business. Financial tools that help you capitalize on opportunity with solutions that fit your needs.

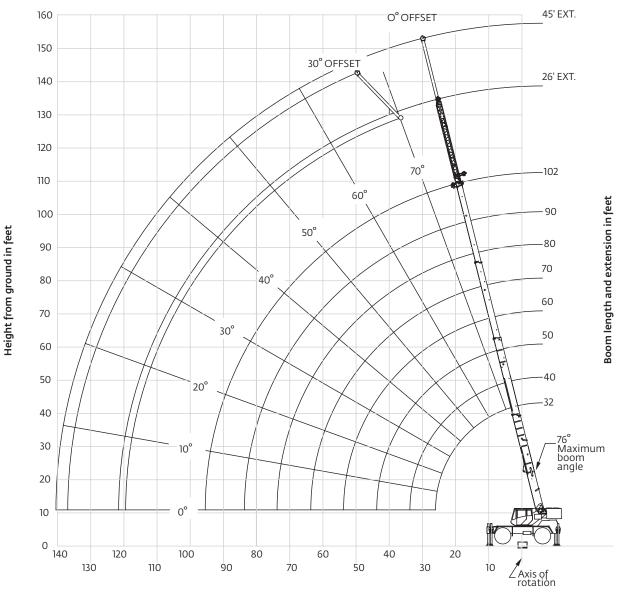
Dimensions and weights

	ions Tire size	А	В	с	D	Е	F	G	н	J	К	L
2-wheel	20.5 x 25					- 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				10 185 mm (401 in)		8138 mm	7021 mm	2093 mm (82 in)			2536 mm (100 in)
4-wheel	20.5 x 25	9797 mm	9490 mm	6732 mm	6061 mm	5832 mm	(320 in) 4000 mm	(276 in) 3498 mm	2055 mm	26.0°	24.0°	2606 mm
steer	16.0 x 25	(386 in) 9797 mm (386 in)	(374 in) 9490 mm (374 in)	(265 in) 6732 mm (265 in)	(239 in) 6010 mm (237 in)	(230 in) 5806 mm (229 in)	(157 in) 4000 mm (157 in)	(137 in) 3498 mm (137 in)	(81 in) 2093 mm (82 in)	25.0° 26.0°	23.0°	(103 in) 2536 mm (100 in)
						turning radius	26°	curt	-26°	(149.61) tail swir		87 (93.98) R(7 (167.99) Mi 5 (239.98) F 2540 (100) 2484 (97.80) width of CWT
248 (9.75)	426 (16.75)		499 (19.66)					50	05 (75)			3235 (127.36) 3) K
Weight	ts	4745 Boom	(186.80) — overhang v	(14)	48) <u></u>			.9) 7117 (280.20 hassis leng	,75) —) — th	C		
Weight	ts	4745 Boom	(186.80) — overhang	(14)	48)	Gros	C	7117 (280.20) ———		Rea	ar

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: Tier 4F engine.	27 950	61,618	13 157	29,005	14 793	32,613
Add: Auxiliary hoist + 137 m (450 ft) of 35 x 7 hoist cable and auxiliary boom nose ILO IPO counterweight	28 177	62,118	13 234	29,176	14 942	32,942
Add: 7.9 - 13.7 m (26 ft - 45 ft) telescopic boom extension + extension hangers	29 038	64,016	14 662	32,324	14 375	31,692

Working range

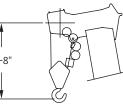
102 ft main boom + 26 ft - 45 ft extension



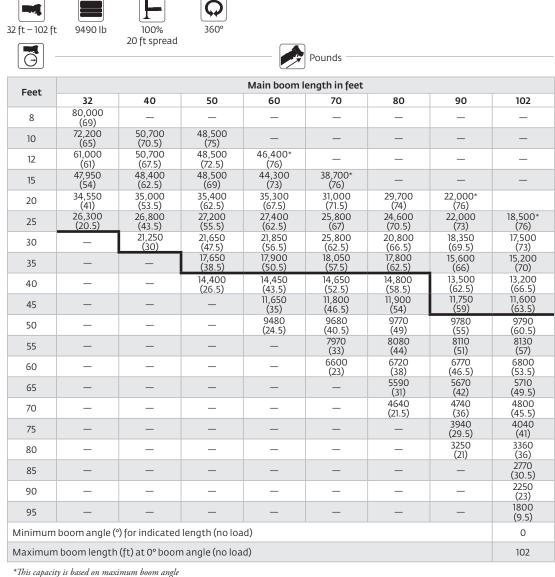
(Boom deflection not shown)

Operating radius in feet from axis of rotation





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



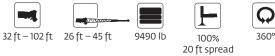
NOTE: () Boom angles are in degrees.

NOIE: () boom angles are in degrees.

Boom angle			Lifti	ng capacities	at 0° boom a	ngle		
Boomangle	32 ft	40 ft	50 ft	60 ft	70 ft	80 ft	90 ft	102 ft
0°	24,950 (26)	18,100 (33.8)	12,150 (43.8)	8180 (53.8)	5740 (63.8)	4030 (73.8)	2800 (83.8)	1760 (95.5)

NOTE: () Reference radii in feet.

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Pounds

	2	6 ft lengt	h	4	45 ft lengt	th
Feet	0° offset	15° offset	30° offset	0° offset	15° offset	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 (57.4)	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	29°	30.5°	36°	34°	34.5°	35°

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 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).

length (no load)

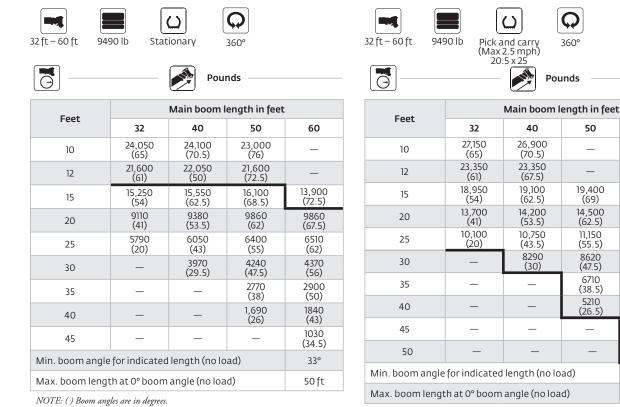
Max. boom length at 0° boom angle (no load)

NOTE: () Boom angles are in degrees. *This capacity is based on maximum obtainable boom angle.

80 ft

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80 ft



NOTE: () Boom angles are in degrees.

Boom angle	Lifting capacities at 0° boom angle				
	32	40	50	60	
0°	9520 (26)	6830 (33.8)	4280 (43.8)	2560 (53.8)	

360°

50

_

19,400

(69)

14,500

(62.5)

11 150

(55.5)

8620

(47.5)

6710

(38.5)

5210 (26.5)

_

_

60

14,550

(67.5)

11,200 (62)

8790

(56.5)

6890

(50)

5390

(43)

4180

(35)

3190

(24)

0°

60 ft

NOTE: () Reference radii in feet.

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Notes to all rubber capacity charts:

32

5290

(26)

Boom angle

0°

NOTE: () Reference radii in feet.

- 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.

Lifting capacities at 0° boom angle

50

1060

(43.8)

60

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40

2850

(33.8)

- 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.



32

77,000

(69) 66,250 (65)

57,950

(61)

46,300 (54)

27,100

(41)

17,650

(20.5)

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_

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_

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_

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40

50,700

(67.5)

44,200 (62.5)

27,700

(53.5)

18.250

(43.5)

12,850

(30)

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_

50,700 48,500 (70.5) (75)

50

(72.5)

41,800 (69)

27,050

(62.5)

18.500

(55.5)

13,200

(47.5)

9790

(38.5)

7400

(26.5)

_

_

_

_

_

48,500 46,400*

θ

Feet

8

10

12

15

20

25

30

35

40

45

50

55

60

65

70

75

50% 14 ft spread

60

(76)

39,550 (73)

25,950

(67.5)

18,450

(62.5)

13,300

(56.5)

9910 (50.5)

7520 (43.5)

> 5760 (35)

> 4410

(24.5)

_

_

_

_



Pounds

70

_

_

_

37,550

(76)

24,950

(71.5)

18,050

(67)

13,550

(62.5)

10,150 (57.5)

7770 (53.5)

5970 (46.5)

4590

(40.5)

3500

(33)

2610 (23)

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80

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24,000 (74)

17,450

(70.5)

13,250

(66.5)

10,250 (62.5)

7910

(58.5)

6150 (54)

4750

(49)

3630 (44)

2730 (38)

1980

(31)

1350

(21.5)

0°

90

_

_

22,000*

(76)

16,950 (73)

12,950

(69.5) 10,100 (66)

7950

(62.5)

6180 (59)

4820

(55)

3710 (51)

2810 (46.5)

2070 (42)

1440

(36)

21°

80

Main boom length in feet

102

_

_

_

16,350*

(76)

12,500 (73)

> 9830 (70)

7820

(66.5)

6190 (63.5)

4850

(60.5)

3780

(57)

2890 (53.5)

2150 (49.5)

1530

(45.5) 1000

(41)

36°



0% 360° 7.8 ft spread

Θ					Pounds			
Feet			Main	boom l	ength ir	feet		
reet	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 (60.5)
	boom an ated leng		oad)	0°	33°	44°	51°	57°

NOTE: () Boom angles are in degrees.

Max. boom length at 0° boom angle (no load)

*This capacity is based on maximum obtainable boom angle.

Boom	Lifting o	apacities at 0° boo	m angle
angle	32	40	50
0°	7230 (26)	4060 (33.8)	1790 (43.8)

NOTE: () Reference radii in feet.

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60

NOTE: () Boom	angles	are	in d	egrees.

*This capacity is based on maximum obtainable boom angle.

Min. boom angle for indicated length (no load)

Max. boom length at 0° boom angle (no load)

Boom		Lifting capa	cities at 0°	boom angle	
angle	32	40	50	60	70
0°	16,300 (26)	10,150 (33.8)	6030 (43.8)	3580 (53.8)	2050 (63.8)

NOTE: () Reference radii in feet.

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O	Pounds					
Feet	26 ft length			45 ft length		
	0° offset	15° offset	30° offset	0° offset	15° offset	30° offset
35	9120* (76)	—	—	—	—	—
40	7240 (72.5)	7770* (76)	_	*5250 (76)	_	_
45	5780 (70)	6460 (72)	6030* (76)	5250 (73.5)	_	—
50	4610 (67.5)	5200 (69.5)	5740 (72.5)	5050 (71.5)	3660 (76)	—
55	3650 (65)	4180 (67)	4650 (70)	4280 (69.5)	3540 (72.5)	—
60	2850 (62.5)	3320 (64.5)	3720 (67.5)	3480 (67)	3430 (70.5)	3000* (76)
65	2140 (60)	2550 (62)	2900 (64.5)	2820 (65)	3320 (68.5)	2890 (72.5)
70	1540 (57.5)	1900 (59)	2210 (62)	2260 (63)	2880 (66)	2790 (70.5)
75	1030 (54.5)	1350 (56)	1620 (59)	1740 (60.5)	2300 (64)	2700 (68)
80	—	—	1100 (56)	1300 (58.5)	1800 (61.5)	2240 (65.5)
85	_	_	_	_	1360 (59)	1750 (63)
90	_	_	_	_	_	1320 (60.5)
Min. boom angle for indicated length (no load)	51.5°	53.5°	53°	56°	56.5°	57.5°
Max. boom length at 0° boom angle (no load)		60 ft			60 ft	

NOTE: () Boom angles are in degrees.

*This capacity is based on maximum obtainable boom angle.

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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 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.
- 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).

Load handling

Weight reductions for load handling devices			
26 ft - 45 ft telescopic boom extension	lb		
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

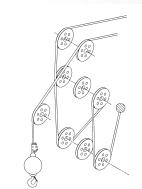
+ Refer to rating plate for actual weight

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.

Capacity reductions for synthetic rope use:				
	Main boom charts	Extension charts		
Outriggers fully extended	100 lb	0 lb		
Outriggers 50% extended	470 lb	140 lb		
Outriggers 0% extended	600 lb	N/A		
On Rubber	200 lb	N/A		

If synthetic rope is installed on either the main or aux hoist, and wire rope is installed on the other hoist, no capacity reductions are required.



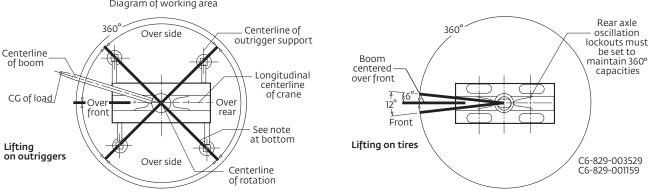
Line pulls and reeving information					
Hoists	Cable specs	Permissible line pulls	Nominal cable length		
Main	16 mm (5/8 in) 6 x 37 class EIPS, IWRC Special Flexible Min. Breaking Str. 41,200 lb	11,640 lb*	450 ft		
Main and auxiliary	16 mm (5/8 in) EEIPS Rotation resistant (non-rotating) Min. breaking Str. 61,200 lb	11,640 lb*	450 ft		
Main and auxiliary	18 mm (11/16 in) K™-100 Synthetic hoist rope (ISO) Min. breaking strength 63,700 lb	12,740 lb*	463 ft		

The approximate weight of 5/8 in wire rope is 1.0 lb/ft. The approximate weight of 18 mm synthetic rope is 0.16 lb/ft. *With certain boom and hoist tackle combinations, the allowable line pull may be limited by hoist performance. Refer to Hoist Performance table for lift planning to ensure adequate hoist performance on drum rope layer required.

Hoist performance					
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	

* 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.

Diagram of working area

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 -3^0 to $+76^0$.

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.

t Swing

Variable speed, planetary swing drive with foot applied multidisc 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 L/min (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

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

Main hoist: 137 m (450 ft)
Auxiliary hoist: 137 m (450 ft)

Carrier

Chassis

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

Dutrigger 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 with outrigger beam position display on R.C.L. screen (required in North America, Canada, and European Union countries).

Uutrigger controls

Controls and crane level indicator located in cab. Extension and retraction are through the CCS system.

Engine (Tier 4F)

Cummins QSB 6.7 L diesel, six cylinders, turbo-charged with Cummins Compact Catalyst (CCC) & selective catalytic reduction (SCR) combo muffler, using diesel exhaust fluid (DEF) injection. Meets emission per U.S. Tier 4F and E.U. Stage IV. 122 kW (164 bhp) at 2300 rpm. Maximum torque: 732 Nm (540 ft-lb) at 1500 rpm.

Fuel requirement: Maximum of 15 ppm sulfur content (ultralow sulfur diesel fuel) and diesel exhaust fluid (DEF). Note: Tier 4F Engine required in North American, Canada, and European Union countries.

Engine (Tier 3)

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

Maximum torque: 731 Nm (539 ft-lb) at 1500 rpm.

Specifications

Carrier (cont'd)

Fuel tank capacity 220 L (58 gal)

C Transmission

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

🗲 Electrical system

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



🔳 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 18,8 cm (7 in) oscillation only with boom centered over the front.

O Brakes

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

U Tires Standard 20.5 x 25-24 bias ply

🔳 Lights

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

Maximum speed 40 km/h (25 mph) at 2500 rpm



🐖 Gradeability (theoretical) 119% (at engine stall).

(Based on 29 038 kg [64,016 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.

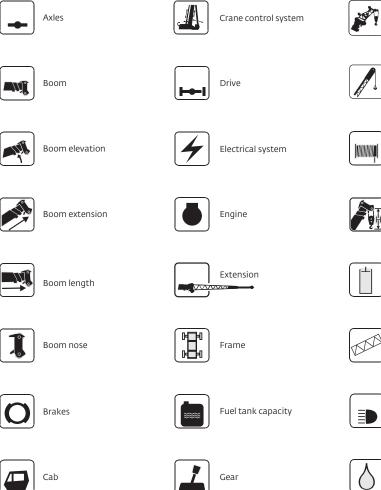
Miscellaneous standard equipment

Full width steel fenders, full length steel decking with anti-skid, dual rear view mirrors, hook block tie-down, electronic back-up alarm, light package, front stowage well, tachometer/hour meter, rear wheel position indicator, hot water cab heater, 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, dual base boom mounted halogen floodlights, LMI light bar (in cab) and rubber mat for stowage trough.
- 360° NYC style mechanical swing lock
- Rear pintle hook
- · Cab-controlled cross axle differential locks (front and rear)
- CCS event recorder download kit
- Vertical LMI light tower (external mounted)
- Synthetic rope for main and/or auxiliary hoist
- Emergency stop buttons on each side of carrier
- Second beacon light
- -29°C / -20°F cold weather package
- -40°C / -40°F arctic weather package

Symbols glossary





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Counterweight

Grade



Heavy duty jib

Hoist

Hook block

Height (no max)









T Steering



Insert

Lights

Hydraulic system







T. Outrigger controls



ر

Transmission

Tires



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Notes



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