



Features

- 80 t (80 Ust) capacity
- 12,6 m 41,1 m (41.2 ft 134.7 ft) four-section full-power boom
- 10,1 m 17,1 m (33 ft 56 ft) manual offsettable bi-fold lattice swingaway extension
- 9979 kg (22,000 lb) standard counterweight hydraulically installed and removed
- Intuitive, user friendly controls with electronic joysticks and operator customizable function speeds
- Full vision cab with 20° tilt feature

GROVE GRT880

The GRT880 was designed after gathering feedback from crane owners and operators to ensure that it is loaded with the features and reliability you demand.

Features

> Cab

The cab is designed with operator comfort and productivity in mind with full-vision design and 20° tilt for improved viewing at high boom angles. The tilt/telescoping steering wheel can be positioned for optimum use.

Control system

> Boom

The new 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. Parts commonality across Grove, Manitowoc and Potain product lines enhances operator familiarization and serviceability.

12,6 m - 41,1 m (41.2 ft - 134.7 ft) four-section, full-power boom with sequenced, synchronized extension capability.

<image>



> Backing up our promise

Lifting performance is enhanced by the

We stand behind our new line of GRT cranes, and we are willing to prove it. With new three-, four- or five-year extended warranty programs as well as a new two-year standard warranty; our GRT line of cranes are built to be GROVE REAL TOUGH.

THE ONLY FIVE-YEAR

WARRANTY PROGRAM AVAILABLE IN THE INDUSTRY

GRT880 benefits

- Higher nominal capacity and stronger load charts ensure higher rental rates.
- Outstanding height and reach provide higher utilization and greater versatility.
- The GRT880 transports to the jobsite quickly and efficiently with a weight under 41 200 kg (90,833 lb) after removal of counterweight and boom extension.
- Counterweight is hydraulically self-removable and installed by the crane.
- ECO mode for intelligent power management and decreased fuel consumption.



Manitowoc Finance

Manitowoc Finance gets you in the field with the right equipment by giving you access to flexible, affordable financing. With Manitowoc Finance, equipment can be acquired with virtually no cash outlay, and unlike traditional lending, our financial products don't affect bank lines of credit. Your capital resources remain intact for times when you need ready access to cash.

Competitive rates with flexible financing options and payment schedules put you in control.

Did you know? Manitowoc Finance can finance **used** Manitowoc cranes. You can also **trade-in** your used fleet for upgrade and get financed by Manitowoc Finance.

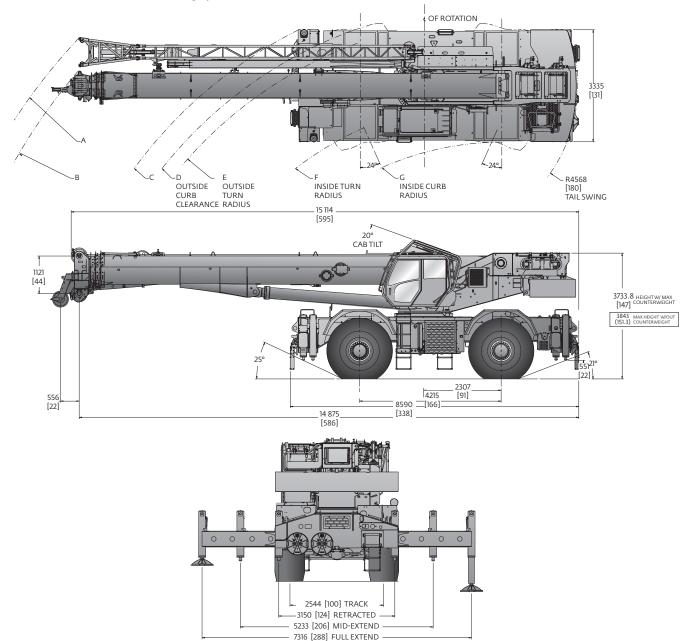
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Dimensions

Tire Si	Tire Size: 29.5 x 25												
А	В	С	D	E	F	G	А	В	С	D	E	F	G
17,4 m (57' 1")	16,7 m (54' 8")	13,6 m (44' 7")	12,9 m (42' 4")	12,5 m (41' 0")	10,1 m (33' 2")	8,8 m (28'10")	13,2 m (43' 4")	12,5 m (41' 0")	8,4 m (27' 7")	7,7 m (25' 3")	7,3 m (23'11")	4,9 m (16' 1")	4,6 m (15' 1")
	Two-Wheel Steer Four -Wheel Steer												

Dimensions in mm (in) unless otherwise specified.

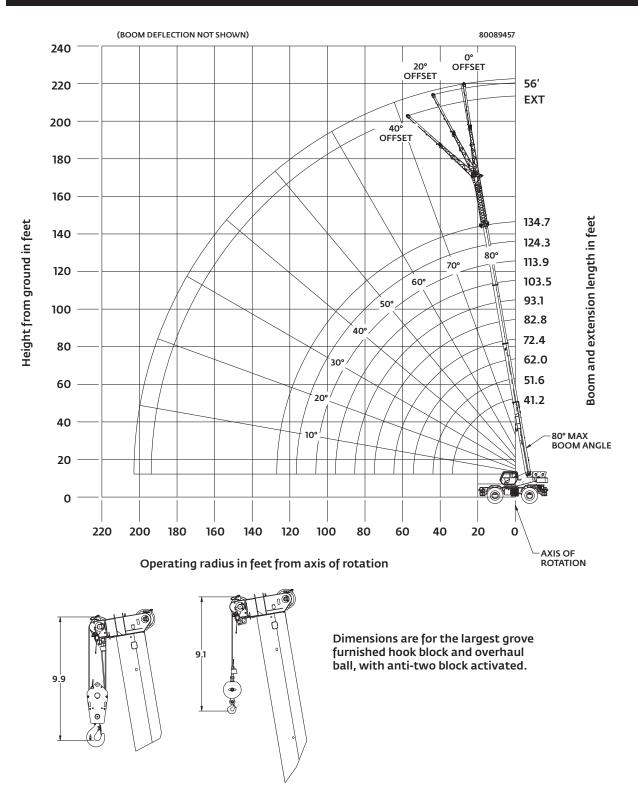


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Weights

Weights						
	Gre	oss	Fro	ont	Rear	
	kg	lb	kg	lb	kg	lb
Basic Machine (T4F): including 41,1 m (134.7 ft) main boom, main hoist with 213,9 m (702 ft) of wire rope, 9979 kg (22,000 lb) full counterweight, 75 t (83 USt) hook block, 11,0 t (12 USt) overhaul weight, auxiliary boom nose, and air conditioning		111,515	24 741	54,546	25 841	56,969
Add: auxiliary hoist	431	950	-151	-333	582	1283
crane weight	51 013	112,465	24 590	54,213	26 423	58,252
Add: manual offsettable bi-fold swingaway and brackets	1511	3332	2821	6219	-1309	-2887
crane weight	52 524	115,797	27 411	60,432	25 114	55,365
Remove: counterweight	-10 000	-22,046	-3735	-8234	13 735	30,280
crane weight	42 524	93,752	31 146	68,667	11 378	25,085
Remove: manual offsettable bi-fold swingaway	-1324	-2919	-2508	-5529	1184	2610
crane weight	41 200	90,833	28 638	63,138	12 562	27,695

Working range



Working range diagram with bi-fold extension and insert

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







41.2 ft – 134.7 ft

Θ

22,000 lb

10070



Pounds

Radius				Ма	ain Boom L	ength in Fo	eet			
in Feet	41.2	51.6	62	72.4	82.8	93.1	103.5	113.9	124.3	134.7
10	160,000 (70)	109,000 (74.5)	108,000 (77.5)	*69,350 (80)	_	_	_	_	-	_
12	150,000 (67)	109,000 (72)	108,000 (75.5)	69,350 (78)	*42,250 (80)	_	_	_	_	_
15	137,000 (62)	109,000 (68.5)	108,000 (72.5)	69,350 (75.5)	42,250 (78)	42,250 (80)	*42,150 (80)	_	_	—
20	104,500 (53)	104,000 (62)	89,450 (67.5)	69,350 (71.5)	42,250 (74)	42,250 (76.5)	42,150 (78.5)	*40,550 (80)	*32,950 (80)	—
25	81,300 (43)	80,850 (55)	75,400 (62)	61,050 (67)	42,250 (70.5)	42,250 (73)	42,150 (75.5)	40,550 (77.5)	32,950 (79)	*23,000 (80)
30	60,600 (29.5)	62,850 (47.5)	58,850 (56.5)	52,200 (62.5)	42,250 (66.5)	42,250 (70)	39,750 (72.5)	36,550 (74.5)	31,650 (76.5)	23,000 (78)
35	_	46,600 (39)	46,250 (50.5)	45,300 (58)	42,250 (63)	38,600 (66.5)	35,250 (69.5)	32,600 (72)	28,800 (74)	23,000 (75.5)
40	_	35,950 (27.5)	34,300 (44)	35,400 (52.5)	36,750 (58.5)	34,450 (63)	31,500 (66.5)	29,200 (69.5)	26,300 (71.5)	23,000 (73.5)
45	_	_	27,300 (36)	28,200 (47.5)	29,500 (54.5)	30,750 (59.5)	28,300 (63.5)	26,300 (66.5)	24,100 (69)	21,100 (71)
50	_	_	22,100 (26)	22,800 (41)	24,100 (50)	25,350 (55.5)	25,650 (60)	23,800 (63.5)	22,200 (66.5)	19,400 (69)
55	-	_	_	18,650 (34)	20,000 (45)	21,150 (52)	21,650 (57)	21,650 (60.5)	20,300 (64)	17,900 (66.5)
60	-	-	—	15,300 (25)	16,100 (39.5)	17,800 (47.5)	18,400 (53.5)	18,900 (57.5)	18,550 (61)	16,600 (64)
65	-	_	_	_	13,500 (32.5)	15,100 (43)	15,700 (49.5)	16,250 (54.5)	16,900 (58.5)	15,400 (61.5)
70	-	_	—	_	11,300 (24.5)	12,800 (38)	13,500 (45.5)	14,050 (51)	14,650 (55.5)	14,400 (59)
75	-	_	_	_	9480 (8.5)	10,850 (32)	11,600 (41.5)	12,200 (47.5)	12,800 (52.5)	13,250 (56.5)
80	_	_	—	—	—	9240 (24)	10,000 (36.5)	10,600 (44)	11,150 (49.5)	11,600 (54)
85	-	_	—	—	—	7820 (11)	8270 (31)	9250 (40)	9790 (46)	10,200 (51)
90	_	_	_	—	—	—	7070 (24)	8030 (35.5)	8530 (42.5)	8990 (48)
95	_	_	_	_	_	_	6010 (12)	6920 (30)	7410 (38.5)	7880 (45)
100	_	_	_	_	_	_	_	5930 (23.5)	6430 (34.5)	6890 (41.5)
105	_	_	—	_	_	_	_	5050 (13)	5300 (29.5)	6010 (38)
110	_	_	—	_	_	_	_	_	4550 (23.5)	5220 (33.5)
115	-	—	—	—	—	-	-	-	3860 (14)	4500 (29)
120	_	_	—	_	_	_	_	_	—	3850 (23)
125	-	_	_	_	_	_	-	_	_	3260 (15)

NOTE: () Boom angles are in degrees.

*This capacity is based on maximum boom angle.

Boom		Main Boom Length in Feet									
Angle	41.2	51.6	62	72.4	82.8	93.1	103.5	113.9	124.3	134.7	
0°	28,000 (33.6)	19,050 (44)	13,850 (54.4)	9940 (64.8)	8040 (75.2)	7230 (85.6)	5800 (96)	4780 (106.4)	3620 (116.8)	3020 (127.2)	

NOTE: () Reference radii in feet.

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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33 ft - 56 ft









Pounds



33 ft Length 56 ft Length Radius in Feet 40° Offset 0° Offset 20° Offset 0° Offset 20° Offset 40° Offset *14,650 30 _ _ _ (80) 14.650 *8290 35 _ _ _ (79) (80)13,600 *11,400 8290 40 _ _ (77.5) (80) (79) 12,600 10,900 8290 45 _ _ _ (75.5)(79) (78) 10,250 11,450 7730 8290 50 _ (74) (77) (78.5) (76.5)10,700 9660 7550 8290 *6490 55 _ (77) (74.5) (80) (72)(75) 9880 8980 7390 7770 6240 _ 60 (75) (79) (70) (73) (73) 9320 8380 7250 7240 6020 *4810 65 (68.5)(71.5)(73) (71.5)(77) (80)7990 7110 4710 8670 6760 5790 70 (66.5) (69.5) (71) (70) (75.5) (79) 8100 7510 6980 6340 5590 4710 75 (64.5)(67.5) (69) (68.5)(74) (77) 7090 6850 5970 5300 4710 7720 80 (62.5) (65.5)(67) (72) (75.5)(67) 7270 6710 6520 5630 5030 4630 85 (60.5) (63.5)(65) (65.5) (70.5) (73.5)6380 6860 5230 4790 4540 6230 90 (58.5) (61) (63) (63.5)(68.5)(72) 6500 6080 5910 4960 4490 4290 95 (56.5)(60.5)(62) (67) (70)(59)6110 5810 5670 4640 4290 4070 100 (57) (58.5) (60) (54) (65) (68) 5820 5500 5410 4420 4050 3920 105 (54.5) (56) (52) (58.5) (63) (66.5) 5400 5290 5230 4150 3830 3730 110 (49.5) (52) (56.5)(53.5)(61) (64.5) 4740 5050 5020 3920 3680 3560 115 (47) (49.5)(51) (54.5)(59) (62) 4150 4480 4800 3710 3500 3410 120 (44.5) (47) (48) (52.5)(57) (60)3610 3900 4350 3560 3330 3230 125 (42) (44) (45) (51) (55) (57.5) 3110 3370 3850 3340 3180 3110 130 (48.5) (39) (41) (42) (53) (55.5) 2660 2880 3070 3010 3000 135 _ (36)(38) (46.5)(50.5)(53) 2240 2430 2660 2890 2870 140 _ (32.5) (34.5) (44) (48) (50.5) 1850 2010 2280 2750 2760 145 (30.5) (45.5) (28.5) (42) (47.5) 1490 1920 2350 2480 1610 150 (24) (25.5)(43) (44.5) (39) 1150 1590 1980 155 (18)(36.5)(40)1290 1640 160 _ _ _ (33.5)(37) 1310 165 _ _ _ (33.5)

- 1. 33 ft and 56 ft folding boom extension lengths may be used for single line lifting service only.
- 2. For main boom lengths less than 134.7 ft with the boom extension erected, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is set up. For boom angles not shown, use rating of the next lower boom angle.
- 3. 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 6 boom nose with the 33 ft or 56 ft extension erected, the outriggers must be fully extended.

NOTE: () Boom angles are in degrees.

170

*This capacity is based on maximum boom angle.

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

1010

(29)

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	Pounds
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Radius		76 Ft. Length	
in Feet	0° Offset	20° Offset	40° Offset
45	6580 (80)	—	_
50	6580 (78.5)	_	—
55	6580 (77)	_	_
60	6400 (76)	*4840 (80)	_
65	5870 (74.5)	4670 (79)	_
70	5400	4510	*3400
	(73)	(78)	(80)
75	4980	4360	3340
	(71.5)	(76.5)	(79.5)
80	4740	4230	3270
	(70)	(75)	(78)
85	4390	4070	3220
	(69)	(73.5)	(76.5)
90	4090	3810	3160
	(67.5)	(72)	(75)
95	3810	3570	3110
	(66)	(70.5)	(73.5)
100	3560	3350	3070
	(64.5)	(68.5)	(71.5)
105	3330	3150	3020
	(63)	(67)	(70)
110	3130	2970	2930
	(61)	(65.5)	(68.5)
115	2880	2800	2780
	(59.5)	(64)	(66.5)
120	2710	2650	2590
	(58)	(62)	(64.5)
125	2550	2460	2460
	(56.5)	(60.5)	(63)
130	2370	2,330	2300
	(54.5)	(58.5)	(61)
135	2240	2170	2190
	(53)	(56.5)	(59)
140	2080	2060	2060
	(51)	(55)	(57)
145	1940	1930	1940
	(49)	(53)	(55)
150	1840	1800	1830
	(47)	(50.5)	(52.5)
155	1690	1690	1700
	(45)	(48.5)	(50.5)
160	1420	1590	1610
	(43)	(46.5)	(48)
165	1160	1470	1510
	(40.5)	(44)	(45)
170	_	1200 (41.5)	1170 (42.5)

1. The 56 ft folding boom extension lengths may be used for single line lifting service only.

- 2. For main boom lengths less than 134.7 ft with the boom extension erected, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is set up. For boom angles not shown, use rating of the next lower boom angle.
- 3. 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 the 56 ft extension erected and 20 ft insert, the outriggers must be fully extended.

NOTE: () Boom angles are in degrees.

*This capacity is based on maximum boom angle.

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Stationary





Radius	Main Boom Length in Feet							
in Feet	41.2	51.6	62	72.4				
15	39,500 (62)	37,000 (68.5)	_	_				
20	26,000 (54)	24,900 (62)	23,550 (67.5)	23,900 (71.5)				
25	17,850 (44.5)	16,650 (55.5)	15,800 (62)	16,250 (67)				
30	12,700 (31)	11,350 (48.5)	10,850 (57)	11,250 (62.5)				
35	—	7640 (40.5)	7480 (51.5)	7670 (58)				
40	_	4890 (29)	4980 (45)	4990 (53)				
45	_	_	3070 (37)	2910 (48)				
50	_	_	1560 (27)	1250 (42)				

NOTE: () Boom angles are in degrees.

Boom		Main Boom L	ength in Feet	
Angle	41.2	51.6	62	72.4
0°	10,000 (33.6)	3140 (44)	—	_

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 General/Titan 29.5 x 25 (34 ply) bias ply tires, at 76 psi cold inflation pressure.
- 3. Capacities are applicable only with machine on firm . level surface
- 4. On rubber lifting with boom extension not permitted
- 5. For pick and carry operation, boom must be centered over front of machine, mechanical swing lock engaged and load restrained from swinging.
- 6. Axle lockouts must be functioning when lifting on rubber.
- 7. 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.
- 8. Creep not over 200 ft of movement in any 30 minute period and not exceeding 1 mph.









Pick and carry

up to 1 mph 29.5 in x 25 in

Pounds

Θ

Radius	Main Boom Length in Feet								
in Feet	41.2	51.6	62	72.4					
12	53,750 (67)	45,100 (72)	—	—					
15	44,800 (62)	43,900 (68.5)	—	—					
20	33,900 (54)	33,500 (62)	31,100 (67.5)	24,500 (71.5)					
25	26,300 (44.5)	26,100 (55.5)	26,500 (62)	23,850 (67)					
30	20,700 (31)	20,600 (48.5)	20,850 (57)	20,700 (62.5)					
35	—	16,400 (40.5)	16,500 (51.5)	16,450 (58)					
40	—	12,750 (29)	12,700 (45)	12,750 (53)					
45	—	—	9530 (37)	9610 (48)					
50	—	—	7050 (27)	7180 (42)					
55	_	_	_	5240 (35)					
60	_	_	_	3670 (25.5)					

NOTE: () Boom angles are in degrees.

Boom	Main Boom Length in Feet							
Angle	41.2	51.6	62	72.4				
0°	17,450 (33.6)	10,150 (44)	5280 (54.4)	2410 (64.8)				

NOTE: () Reference radii in feet.

Load handling

Weight reductions for load handling devices				
Auxiliary boom nose	130 lb			
Hook blocks and overhaul weights:				
90 USt, 5-sheave	1369 lb+			
83 USt, 5-sheave	1310 lb+			
66 USt, 5-sheave	1281 lb+			
50 USt, 3-sheave	992 lb+			
29 USt, single sheave	712 lb+			
12 USt, overhaul weight	648 lb+			
12 USt, overhaul ball	575 lb+			

+Refer to rating plate for actual weight.

Tire inflation - PSI (bar)				
Size (front and rear)	TRA Code	Lifting service, general travel and extended travel		
rear)		Static, creep and 2.5 mph (4.0 km/h)		
29.5 x 25 (34)	E-3/L-3	76 (5.2)		

Line pulls and reeving information Permissible Nominal Hoists Cable Specs. Cable Length Line Pulls 19 mm (3/4 in) 35x7 Class Rotation Resistant (non-rotating) Main and 17,160 lb* 702 ft Auxiliary Min. Breaking strength 85,800 lb 22 mm K100™ Hoist Rope Main and Auxiliary

The approximate weight of 3/4 in wire rope is 1.5 lb/ft.

The approximate weight of 22 mm synthetic rope is 0.21 lb/ft.

Min. Breaking strength 84,000 lb

*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.

16,800 lb*

33 ft - 56 ft folding boom extension						
	Without block or overhaul weight	With 648 lb overhaul weight				
*33 ft extension (erected)	3500 lb	6000 lb				
*56 ft extension (erected)	7300 lb	11,500 lb				
Folding ext. with 20 ft insert						
*56 ft extension (erected)	13,000 lb	17,900 lb				

*Reduction of main boom capacities

(no deduct required for stowed boom extension)

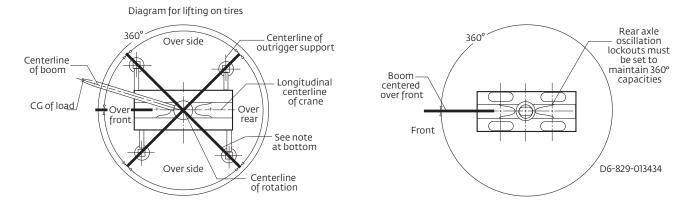
NOTE: All load handling devices and boom attachments are considered part of the load and suitable allowances MUST BE MADE for their combined weights. Weights are for Grove furnished equipment.

NOTE: When operating at temperatures below -40°F, capacities shall be derated 3.6% of rated load for each degree Fahrenheit below -40°F without shock load.

Hoist performance						
Wire	Hoist line pulls		Drum capacity (ft)			
	Two speed hoist					
rope layer	Low	High	Layer	Total		
,	Available lb	Available lb				
1	24,100	15,000	111	111		
2	22,200	13,800	120	231		
3	20,600	12,800	130	361		
4	19,200	11,900	139	500		
5	18,000	11,200	149	649		
6	16,900	10,500	158	807		

*Refer to Line Pulls and Reeving Information table for max. lifting capacity of wire rope.

Synthetic rope layer height may vary and may reduce available line pull per layer.



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

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Working area diagram

722 ft

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Specifications

Superstructure

Boom

 $12,6\ m-41,1\ m$ (41.2 ft $-134.7\ ft)$ four-section full-power boom, sequenced synchronized extension and retraction. Maximum tip height: 44,6 m (146.2 ft)

*Optional manual bi-fold swingaway extension 10,1 m - 17,1 m (33 ft - 56 ft) bi-fold lattice swingaway extension. Offsettable at 0°, 20°, and 40°. Stows alongside base boom section. Electric motor assist for pin alignment and stowing.

Maximum tip height: 61,9 m (203 ft)

*Optional lattice extension insert

(1) x 6,1 m (20 ft) lattice extension insert. Installs between boom nose and either optional extension. Maximum tip height: 68,0 m (223 ft)

Boom nose

Five nylatron sheaves mounted on heavy-duty tapered roller bearings with removable pin-type guards. Quick-reeve type boom nose. Removable single sheave auxiliary boom nose with removable pin type rope guard.

Boom elevation

 $\overline{\text{One}}$ double-acting hydraulic cylinder with integral holding valve provides elevation from -3° to +80°.

Crane Control System (CCS)

"Graphic Display" RCL load moment and anti-two block system with audio-visual warning and control lever lockout. This system provides electronic display of boom angle, boom length, load radius, boom tip height, maximum permissible load, actual load 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. ECO mode system to control engine R.P.M. to lower noise and improve fuel consumption.

Counterweight

Standard 9979 kg (22,000 lb). Hydraulically installed and removed. Controls located on superstructure.



Operator-controlled 20° hydraulic tilt, full vision, all steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe seat with headrest incorporates armrest-mounted electronic programmable single-axis 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 opening rear window, sliding skylight with electric wiper and sunscreen, electric windshield wash/wipe, fire extinguisher, seat belt, air conditioning, and dual cab mounted work lights.

🛨 Swing

Variable speed, planetary swing drive with foot applied multi-disc proportional wet brake. Spring applied, hydraulically released swing brake. Two position mechanical swing lock pin, operated from cab.

Maximum swing speed: 2.0 r.p.m.

Hoist (main and optional auxiliary hoist)

Planetary reduction driven by axial piston motor. Grooved drum with automatic spring applied multi-disk wet brake. Electronic hoist drum rotation indicator. Third wrap indictor with hoist function cut-out standard.

Maximum hoist single line pull:

1st layer: 10 930 kg (24,100 lb) 3rd layer: 9344 kg (20,600 lb) 6th layer: 7666 kg (16,900 lb)

Maximum permissible single line pull: 7784 kg (17,160 lb) with 35 x 7 class rope

Maximum hoist single line speed (no load): 131 m/min (430 ft/min)

Rope construction: 35 x 7 rotation-resistant

Rope diameter: 19 mm (3/4 in.)

Rope length: Main hoist: 214 m (702 ft) Auxiliary hoist: 214 m (702 ft)

Maximum usable rope: 241 m (790 ft) 6 layers

* Denotes optional equipment

Specifications

Carrier

Chassis

Parallel box section fabricated from high-strength, low-alloy steel with integral outrigger boxes, front and rear lift, tie-down, and towing lugs.

<u>}</u>∼= Outrigger system

Four hydraulic telescoping single stage double box beam outriggers with inverted jack cylinders and integral jack holding valves. Three position settings, 0%, 50%, and fully extended. Aluminum fabricated outrigger floats 609,6 mm (24 in) diameter. Outrigger monitoring system with outrigger beam position display on RCL. screen. Maximum outrigger pad load: 57 244 kg (126,200 lb)

LT. Outrigger controls

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

Hydraulic system

Two main pumps [2] variable displacement piston and [1] gear with a combined output capacity of 496 L/min (131 gal/min).

Maximum operating pressure: 276 bar (4000 psi)

Return line in-tank filter with full flow by-pass protection and service indicator. Replaceable cartridge with 4 micron filtration rating per ISO cleanliness level of 17/15/12. Carrier mounted oil cooler with thermostatically controlled hydraulic motor driven fan / air to oil. System pressure test ports.

Engine (Tier 4F)

Cummins QSB 6.7 L diesel, six cylinder, turbo-charged with Cummins Compact Catalyst (CCC) and Selective Catalytic Reduction (SCR) combo muffler, using diesel exhaust fluid (DEF) injection. Meets emissions per US EPA Tier 4 final and European Union Stage 4.

275 hp (205 kW) at 2500 rpm, Maximum torque: 730 lb/ft (990 Nm) at 1500 rpm. Fuel requirements: Maximum of 15 ppm ultra-low sulfur diesel fuel + diesel exhaust fluid (DEF).

NOTE: Required for sale in areas with maximum 15 ppm sulfur content diesel fuel or country requirement.

Engine (Tier 3)

Cummins QSB 6.7 L diesel, six cylinder, turbo-charged with 275 hp (205 kW) at 2500 rpm, Maximum torque: 728 lb/ft (978 Nm) at 1500 rpm. Fuel requirements: Maximum of 5000 ppm. Sulfur diesel fuel.

NOTE: Required for sale in areas with GREATER than 15 ppm sulfur content disel fuel.



312 L (82 gal)

C Transmission

Rangeshift with six forward and six reverse speeds. (Three speeds high and three speeds low). Front axle disconnect for 4 x 2 drive.



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 permits 254 mm (10 in) of oscillation only with boom centered over the front.

O Brakes

Full hydraulic split (dual) circuit dry disc operating on all wheels with dual calipers. Parking brake is spring applied / hydraulically released on the front axle input shaft.



Steering

Fully independent power steering. Front: Fully hydraulic steering wheel controlled. Rear: Fully hydraulic via separate momentary switch provides 4 steering modes, front only, rear only, coordinated and crab. Rear steer not aligned indicator. Outside 4WS coordinated steer radius: 7,3 m (23.9 ft) Inside 4WS coordinated steer radius: 4,9 m (16 ft)

ပ _{Tires} 29.5 x 25 - 34 bias ply rating



Electrical system

Two 12 V maintenance-free batteries with disconnect. 24 V system / 24 V lighting



Full lighting including turn indicators, head, tail, brake, and hazard warning, and two work lights mounted on cab front.



Maximum Drive Speed

24.1 km/h (15 mph) with counterweight installed

🗺 Gradeability (theoretical)

104% to drive train stall based on 52 524 kg (115,797 lb) GVW with 29.5 x 25 tires, standard counterweight, auxiliary hoist and manual bi-fold extension.

Miscellaneous standard equipment

Full length steel fenders with full aluminum decking, dual rear view mirrors, hook block tie-down, electronic back-up alarm, front stowage tray, hot water cab heater / defroster, cab air conditioner, hoist mirrors, A/V warning system, combination lift/tie-down/towing lugs, coolant sight level indicator, hoist access platform.

*Optional equipment

• Auxiliary hoist package: includes auxiliary hoist with electronic hoist drum rotation indicator, third wrap indicator with hoist function cut-out, 214 m (702 ft) of 19 mm (3/4 in) of 35 x 7 class rotation resistant wire rope. • Auxiliary lighting and convenience package: includes superstructure mounted amber flashing light, dual base boom mounted floodlights, in-cab,

- 360° positive mechanical swing lock
- Rear pintle hitch
- Cab-controlled cross axle differential locks (front and rear)
- Wireless wind speed indicator

RCL, light bar and rubber mat for storage trough.

- Vertical external mounted RCL light tower -29C / -20F cold weather package
- -40C / -40F arctic weather package
- Emergency stop buttons on each side of carrier
- Second beacon light
- Refinery package (certified spark arrestor + engine air shutdown) (T3 engine only)
- C.E. certificate package
- Russian certificate package
- Synthetic rope for main and / or auxiliary hoist
- Boom position indicator light
- Crane STAR asset management system

* Denotes optional equipment



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