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Thank you for your interest in our crane rental services. Our fleet is the newest and most advanced in the tri-state area run by the best, most qualified and safest operators in the business

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2000 Rodman Road Wilmington, DE

CRANE RENTALS



Grove RT 770 Cranes

Features

- 70 US Ton capacity
- 36 ft 138 ft five-section full power boom
- 33 ft 56 ft offsettable bi-fold lattice swingaway extension
- 14,365 lbs counterweight pinned to superstructure
- 4X4 with four modes of steering



Contact Us Today for Additional Information and Pricing. Ask About our Total Project Discounts!





Features

- 65 t (70 USt) capacity
- 11 m 42 m (36 ft 138 ft) five-section full power boom
- 10,1 m 17,1 m (33 ft 56 ft) offsettable bi-fold lattice swingaway extension
- 6,1 m (20 ft) extension insert
- 6516 kg (14,365 lb) counterweight pinned to superstructure
- 4X4 with four modes of steering

GROVE RT770E

This 65 t (70USt) capacity rough-terrain crane combines the MEGAFORM[™] boom shape with full-power capability. With four-wheel multi-mode steering, and the Full Vision cab optimize mobility and operator confidence on the job site.

Features

> MEGAFORM[™] boom

The superstructure features a full-power fivesection MEGAFORM[™] boom that can reach to a maximum tip height of 44,6 m (146 ft). The sequence synchronized extension features telescopic boom sections via a pedal or single lever control.



> Smooth operation

The RT770E has a quick-reeve boom nose and swingaway alignment device to help operators set up smoothly.





> Extensions

An optional bi-fold swingaway lattice extension easily stows on the side of the base boom for easy transport while providing on-board extension from 10,1 m - 17,1 m (33 ft - 56 ft) for a maximum tip height of 61,6 m (202 ft). By adding the 6,1 m (20 ft) insert, the maximum tip height can be extended to 67,3 m (221 ft).

CraneST kR

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

Ease of transport

An optional bi-fold swingaway lattice extension easily stows on the side of the base boom for easy transport while providing on-board extension.

By adding the insert of 6,1 m (20 ft) the maximum tip height on the RT770E can be extended even further to 67,3 m (221 ft)

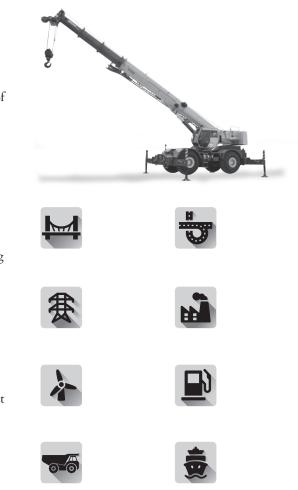
Ease of operation

The full-vision cab, with standard hot water heat and air conditioning, full glass door, tilt / telescoping steering wheel, full gauge and light indicator instrumentation provides the operator with a comfortable working environment and full indication of the crane set-up and working status.

Rugged durability and ease of inspection

Inverted outrigger jacks offers protection of the cylinder rod from sand, dust, oils and various elements on a job site and increases seal life. The outriggers can be spread in three different positions: fully retracted, 50% and 100% open.

The hoist access platform provides safe and easy access to inspect the hoist and wire rope without having to tie off.





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.

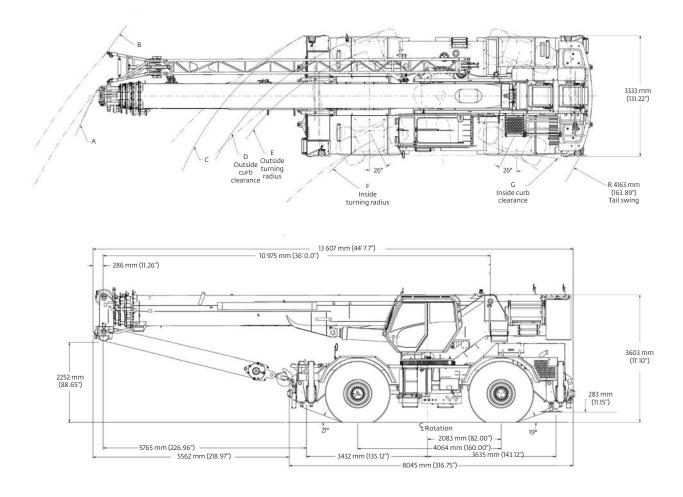
Contents

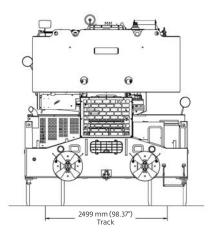
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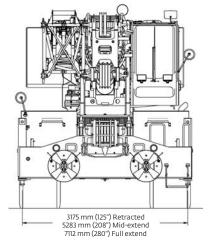
Dimensions and weights

Dimensio	ons													
	А	В	с	D	E	F	G	А	В	с	D	E	F	G
Tire Size 29.5 x 25	14 961 (589)	15 494 (610)	12 460 (491)	11 732 (462)	11 342 (446)	9004 (355)	7662 (302)	10 922 (430)	11 153 (439)	7830 (308)	7099 (280)	6744 (266)	4368 (172)	3496 (138)
	Two-wheel steer							Fou	ir-wheel st	teer				

Dimensions are shown in mm (in).





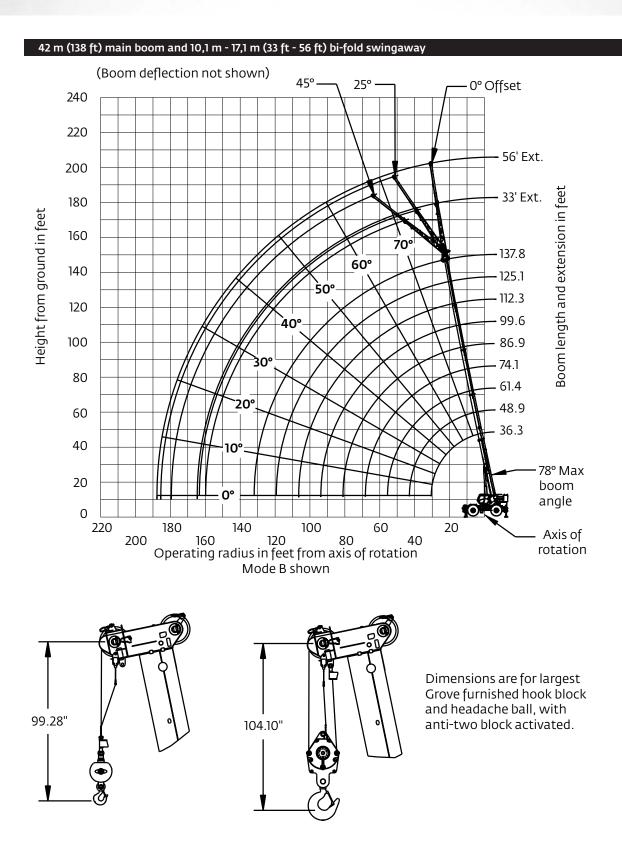


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Weights

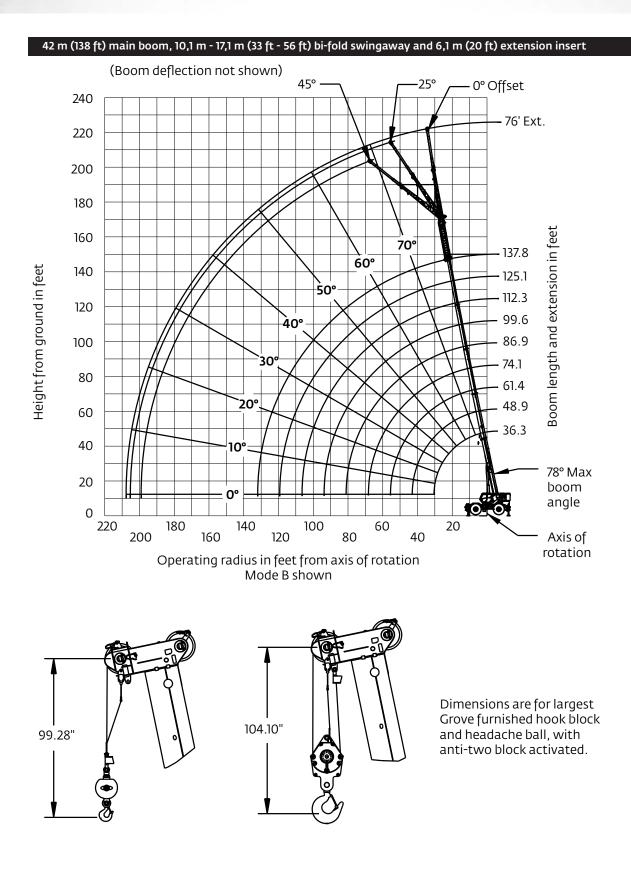
Weights						
	G١	/W	Fro	ont	Re	ar
	kg	lb	kg	lb	kg	lb
Basic Machine: (T4F) including 42,0 m (138 ft) main boom, main hoist with 198 m (650 ft) of wire rope, auxiliary hoist with 198 m (650 ft) of wire rope, full pinned counterweight, full decking, A/C, and hoist access platform.	42 063	92,731	20 126	44,370	21 937	48,361
Add: 10,1 m - 17,1 m (33 ft -56 ft) bi-fold swingaway + extension carrier brackets + aux. boom nose	1295	2854	2175	4796	-880	-1942
crane weight	43 357	95,585	22 302	49,166	21 056	46,419
Add: 60 t (66 USt) 5 sheave hook block stowed in trough	581	1280	581	1280	0	0
crane weight	43 938	96,865	22 882	50,446	21 056	46,419
Add: 7,5 t (8.3 USt) headache ball tied to O/R cable	161	355	262	578	-101	-223
crane weight	44 099	97,220	23 144	51,024	20 955	46,196

Working range (Mode B)



Working range

(Mode B)



Load chart

			_					Θ								
l m - 4 5 ft - 13	2 m 38 ft)	6 (14	516 kg ,365 lb)	23 ft 100			360°								
- (Pounds							
Feet	36.3	48.9	49.1	61.4	61.8	74.1	74.5	86.9	87.3	99.6	100.0	112.3	112.7	125.1	125.3	137.
Tele 1 Tele 2 Tele 3 Tele 4	0% 0% 0% 0%	50% 0% 0% 0%	0% 17% 17% 17%	100% 0% 0% 0%	0% 33% 33% 33%	100% 17% 17% 17%	0% 50% 50% 50%	100% 33% 33% 33%	0% 67% 67% 67%	100% 50% 50% 50%	0% 83% 83% 83%	100% 67% 67% 67%	0% 100% 100% 100%	100% 83% 83% 83%	50% 100% 100% 100%	100 100 100 100
Mode	А, В	В	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В	A	A
9	140,000 (71)															
10	130,000 (69.5)	91,650 (75.5)	50,000 (75)		*49,900 (78)											
12	112,500 (66)	91,650 (73)	50,000 (73)	72,350 (78)	49,900 (76.5)											
15	93,250 (60.5)	91,100 (69)	50,000 (69)	72,350 (74)	49,900 (73.5)	*50,000 (78)	41,650 (78)									
20	71,550 (50)	69,500 (62.5)	50,000 (62.5)	66,300 (69)	49,900 (68.5)	50,000 (73)	41,650 (73)	49,850 (78)	29,750 (75.5)	*39,250 (78)	*25,800 (78)					
25	56,650 (37.5)	54,900 (55.5)	50,000 (55.5)	54,350 (63.5)	49,750 (63.5)	50,000 (69)	41,650 (68.5)	44,250 (72.5)	29,750 (72.5)	39,250 (75.5)	25,800 (75)	*29,550 (78)	*21,900 (78)	*22,600 (78)		
30	43,700 (16)	42,650 (47.5)	45,550 (47.5)	41,900 (58)	44,950 (58)	43,300 (64.5)	36,550 (64.5)	38,100 (69)	28,050 (68.5)	34,400 (72.5)	24,850 (72)	29,550 (75)	21,900 (74.5)	22,600 (77)	*21,750 (78)	*18, (7
35	(10)	33,700 (38)	36,600 (38)	32,250 (52)	37,800 (52)	33,700 (60)	32,450 (60)	33,150 (65.5)	24,950 (65)	30,050 (69)	(72) 22,150 (69)	27,600 (72.5)	(74.5) 19,950 (71.5)	22,600 (74.5)	20,900 (74)	18, (7
40		26,050 (25)	28,700 (25.5)	24,950 (45.5)	29,750 (46)	26,250 (55.5)	29,150 (55.5)	27,200 (61.5)	22,450 (61.5)	26,450 (66)	19,900 (65.5)	(72.3) 24,400 (69.5)	(71.5) 17,950 (69)	(74.5) 22,350 (72)	(74) 19,000 (71.5)	18, (7
45		(23)	(2,2)	(45.5) 19,650 (38)	24,050 (38.5)	20,750 (50.5)	24,900 (50.5)	21,850 (58)	20,350 (57.5)	22,800 (63)	(03.5) 18,050 (62.5)	21,700 (66.5)	(03) 16,300 (66)	20,300 (69.5)	(71.3) 17,350 (69)	18, (7
50				15,500 (28.5)	(58.5) 19,800 (29)	(50.5) 16,700 (45)	20,700 (45)	17,900 (53.5)	18,500 (53.5)	18,750 (59.5)	(62.5) 16,350 (59)	(00.3) 19,400 (64)	14,800 (63.5)	(85.5) 18,200 (67)	15,950 (66.5)	16, (6
55				(28.5) 12,200 (12)	16,450 (14)	(45) 13,600 (38.5)	(43) 17,400 (39)	(55.5) 14,850 (49.5)	(55.5) 16,800 (49.5)	(55.5) 15,600 (56)	14,800 (55.5)	(04) 16,300 (61)	(03.5) 13,350 (60.5)	16,350 (64.5)	(00.3) 14,650 (64)	15,
60				(12)	(14)	(38.3)	14,800 (31.5)	(49.3) 12,450 (44.5)	(43.5) 15,350 (45)	13,100 (52)	13,450 (52)	13,750 (57.5)	(00.3) 12,150 (57.5)	(04.3) 14,200 (62)	13,400 (61.5)	14,
65						9070 (21)	12,650 (22)	(10,500 (39)	13,550 (39.5)	(J2) 11,050 (48.5)	12,300 (48.5)	(57.5) 11,650 (54.5)	(57.5) 11,050 (54.5)	(02) 12,150 (59)	12,250 (59)	12, (6.
70						(21)	(22)	8870 (33)	(33.5) (33.5)	9420 (44)	(40.5) 11,300 (44.5)	9950 (51)	10,100 (51)	10,400 (56.5)	(35) 11,250 (56)	10, (6
75								7450 (25.5)	(55.5) 10,250 (26)	8010 (39.5)	10,350 (40)	8500 (47.5)	9270 (48)	(50.5) 8940 (53.5)	10,000 (53.5)	93 (!
80								6190 (13)	8950 (14.5)	6800 (34)	9130 (34.5)	7250 (44)	8530 (44)	(55.5) 7690 (50.5)	8760 (50.5)	81 (5
85								(15)	(14.5)	5720 (28)	8050 (28.5)	6180 (39.5)	7860 (40)	6610 (47)	(50.5) 7690 (47)	70
90										4760 (19.5)	(28.5) 7100 (20.5)	(33.3) 5240 (35)	7250 (35.5)	(47) 5670 (44)	6750 (44)	(J. 61 (!
95										(12.2)	(20.0)	(33) 4400 (30)	6530 (30.5)	(44) 4840 (40)	5930 (40.5)	52 (4
100												3640 (23.5)	5820 (24)	4110 (36)	5200 (36)	45
105												(23.3) 2970 (13)	5160 (14.5)	3440 (31.5)	4530 (31.5)	38
110												(.5)	(2830 (26)	3920 (26.5)	32
115														2280 (19)	(20.3) 3370 (19)	26
120														((.5)	211
125																17(
130																12
					Minimu	m boom a	ngle (°) fo	r indicated	l length (no	load)					1	(13
				M					le (no load		4					13

awiji

Q

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

Boom							Lifting	capaciti	es at 0° b	oom angl	e					
angle	36.3	48.9	49.1	61.4	61.8	74.1	74.5	86.9	87.3	99.6	100.0	112.3	112.7	125.1	125.3	137.8
0°	30,400 (30.5)	18,500 (43.1)	20,600 (43.2)	11,850 (55.6)	15,450 (56)	7890 (68.3)	11,300 (68.7)	5950 (81)	8610 (81.4)	4110 (93.8)	6390 (94.2)	2780 (106.5)	4920 (106.9)	1850 (119.2)	2920 (119.4)	1110 (132)
NOTE:() F	eference	ference radii in feet. 80051692														

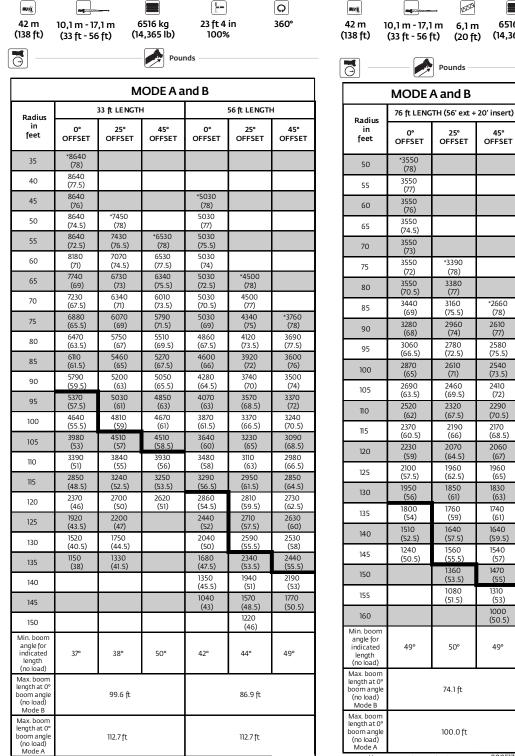
Load charts

	10,1 m - 17, (33 ft - 56		516 kg 365 lb) - 💉 Pour	23 ft 4 in 100%	-	ନ୍ଦି 60°	38.2 m (125.3 ft)	10,1 m - 17 (33 ft - 56	,	5516 kg 4,365 lb)	23 ft 4 100%		ල 360°
			MODE B							MODE A			
Radius		33 ft LENGTH	1		56 ft LENGT	н	Radius		33 ft LENGT	н		56 ft LE NGT	н
in feet	0° OFFSET	25° OFFSET	45° OFFSET	0° OFFSET	25° OFFSET	45° OFFSET	in feet	0° OFFSET	25° OFFSET	45° OFFSET	0° OFFSET	25° OFFSET	45 OFFS
30	*10,850 (78)						35	10,200 (78)					
35	10,850 (77.5)						40	10,200 (76)			*5750 (78)		
40	10,850 (76)			6130 (78)			45	10,200 (74.5)	*8060 (78)		5750 (77)		
45	10,850 (74.5)	*10,500 (78)		6130 (77)			50	9490 (72.5)	8050 (76.5)	*6950 (78)	5750 (75.5)		
50	10,850 (72.5)	9920 (77)	*7290 (78)	6130 (75.5)			55	8770	7520	6950	5750		
55	10,850 (71)	9380 (75)	7090 (77)	6130 (74)			60	(70.5) 8300	(74.5) 7060	(77.5) 6660	(73.5) 5750	*4820	
60	10,850 (69)	8890 (73)	6930 (75)	6130 (72.5)	*5200 (78)		65	(68.5) 7740	(72.5) 6750	(75.5) 6320	(72) 5750	(78) 4820	
65	10,150 (67)	8440 (71)	6780 (73)	6130 (70.5)	5060 (77.5)		70	(66.5) 7250	(70.5) 6370	(73.5) 6020	(70.5) 5480	(77) 4640	
70	9560 (65)	8030 (69)	6650 (71)	6130 (69)	4930 (75.5)	*3810 (78)	75	(64.5) 6820	(68.5) 6040	(71) 5740	(68.5) 5160	(75.5) 4340	37
75	9000 (63)	7660 (67)	6500 (69)	6130 (67.5)	4800 (74)	3720 (77.5)	80	(62.5) 6440	(66.5) 5750	(69) 5500	(67) 4790	(73.5) 4140	36
80	7990 (60.5)	7310 (64.5)	6390 (67)	6020 (66)	4680 (72)	3620 (75.5)	85	(60.5) 6020	(64.5) 5420	(67) 5220	(65.5) 4550	(72) 3890	35
85	6930 (58.5)	7000 (62.5)	6290 (64.5)	5670 (64)	4560 (70)	3520 (74)	90	(58.5) 5710	(62) 5190	(64.5) 5020	(63.5) 4250	(70) 3720	34
90	6000 (56)	6710 (60)	6200 (62)	5360 (62.5)	4460 (68.5)	3440 (71.5)		(56) 5370	(60) 4980	(62) 4800	(62) 3990	(68) 3520	33
95	5180 (53.5)	6020 (57.5)	5980 (60)	5070 (60.5)	4290 (66.5)	3400 (69.5)	95	(54) 5130	(57.5) 4740	(59.5) 4640	(60) 3810	(66) 3330	(7
100	4460 (51)	5180 (55)	5180 (57.5)	4800 (59)	4110 (64.5)	3310 (67.5)	100	(51.5) 4650	(55) 4530	(57) 4460	(58) 3600	(64) 3210	30
105	3810 (48.5)	4430 (52.5)	4480 (54.5)	4460 (57)	3940 (62.5)	3270 (65)	105	(49.5) 4040	(52.5)	(54)	(56.5) 3400	(62)	(6
110	3230 (46)	3760 (50)	3840 (52)	3890 (55)	3780 (60.5)	3230 (63)	110	(46.5)	(50)	(51.5)	(54.5)	(60)	28
115	2700 (43.5)	3150 (47)	3260 (49)	3370 (52.5)	3640 (58.5)	3190 (60.5)	115	(44)	(47)	(48.5)	(52.5)	(58)	(6
120	2230	2600	(49)	2900	3500	3160	120	(41)	(44)		(50.5)	(56)	(5
125	(40.5) 1790	(44) 2100		(50.5) 2470	(56) 3170	(58)	125	2540 (37.5)	2750 (41)		2890 (48.5)	2640 (54)	25 (5
130	(37.5) 1390	(41)		(48) 2070	(53.5) 2690	(55.5) 3020	130	2120 (34)	2250 (37.5)		2620 (46)	2540 (51.5)	24
135	(34) 1030	(37.5) 1210		(45.5) 1710	(51) 2240	(53) 2520 (50)	135	1740 (30.5)	1790 (33.5)		2260 (43)	2430 (49)	23 (<u>5</u>
140	(30)	(33.5)		(43) 1380	(48.5) 1830	(50)	140	1380 (26)	1370 (29)		1920 (40.5)	2320 (46)	
145				(40.5) 1070	(45.5) 1450		145	1060 (21)			1610 (37.5)	2020 (43)	
150				(37.5)	(42.5)		150				1320 (34.5)	1660 (40)	
/in. boom					(39.5)		155				1050 (31)	1330 (36.5)	
angle for indicated length (no load)	29°	32°	48°	36°	38°	49°	160 Min. boom angle for					1020 (32.5)	
lax. boom ength at 0° oom angle (no load) Moda P		99.6 ft			86.9 ft		indicated length (no load) Max. boom	20°	28°	47°	30°	31°	49°
	om angles are y is based on		btainable boo	om angle.		80051695	length at 0° boom angle (no load) Mode A		112.7 ft			112.7 ft	

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

80051696

Load charts



-Mil		TT A		<u>+-</u>)	Q
42 m	10,1 m - 17,1 m	6,1 m	6516 kg	23 ft 4 in	360°
(138 ft)	(33 ft - 56 ft)	(20 ft)	(14,365 lb)	100%	

45° OFFSET

*2660

(78)

2610

(77)

2580 (75.5)

2540

(73.5)

2410 (72)

2290

(70.5)

2170 (68.5)

2060

(67)

1960

(65)

1830

(63)

1740 (61)

1640

(59.5)

1540

(57)

1470

(55)

1310

(53)

1000 (50.5)

49°

(78)

3380

(77)

3160

(75.5)

2960

(74)

2610

(71)

2320

(67.5)

2190 (66)

2070

(64.5)

1850

(61)

1760 (59)

1640

(57.5)

1360

(53.5)

50°

NOTE: () Boom angles are in degrees. 8005 *This capacity is based on maximum obtainable 80051701 boom angle

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

80051697

Load charts

mnjį			د	Q						
11 m - 42 m (36 ft - 138 ft	651(;) (14,3)		tationary	360°						
Pounds										
Feet	Feet 36.3 49.1 61.8									
Tele 1 Tele 2 Tele 3 Tele 4	0% 0% 0% 0%	0% 17% 17% 17%	0% 33% 33% 33%	0% 50% 50% 50%						
Mode	А, В	А	Α	A						
10	49,800 (69.5)	36,000 (75)								
12	45,650 (66)	32,550 (72.5)	32,500 (76.5)							
15	31,750 (60.5)	29,050 (68.5)	29,550 (73.5)	*27,850 (78)						
20	18,750 (50)	19,950 (62)	21,050 (68.5)	21,600 (72.5)						
25	12,000 (37.5)	13,350 (55)	14,500 (63.5)	14,900 (68.5)						
30	7840 (16)	9350 (47.5)	10,400 (58)	10,850 (64.5)						
35		6620 (38)	7590 (52)	8010 (60)						
40		4650 (25.5)	5560 (46)	5950 (55.5)						
45			4030 (38.5)	4390 (50.5)						
50			2840 (29.5)	3160 (45)						
55			1870 (14.5)	2180 (39)						
60				1380 (31.5)						
	Minimum boom angle (°) for indicated length (no load) 30									
Maximum boom length (ft) at 0° boom angle (no load) 61.8										
NOTE: () Bo *This capaci				mangle						

*This capacity is based on maximum boom angle

Boom	Lifting c	apacities	at 0° boo	om angle
angle	36.3	49.1	61.8	
0°	7490 (30.5)	3630 (43.2)	1520 (56)	

80051702

NOTE: () Reference radii in feet.

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 29.5 x 25 (28 or 34) bias ply tires at, 65 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.

11 m - 42 m (36 ft - 138 ft)	6516 k (14,365	ĭb) upt	ධ and carr o 2.5 mpl o x 25 tire s	, n over					
Feet	Feet 36.3 49.1 61.8								
Tele 1 Tele 2 Tele 3 Tele 4	0% 0% 0% 0%	0% 17% 17% 17%	0% 33% 33% 33%	0% 50% 50% 50%					
Mode	А, В	Α	Α	Α					
10	54,800 (69.5)	35,400 (75)							
12	49,800 (66)	35,400 (72.5)	23,550 (76.5)						
15	41,300 (60.5)	35,400 (68.5)	23,550 (73.5)	*19,000 (78)					
20	31,200 (50)	32,500 (62)	23,550 (68.5)	19,000 (72.5)					
25	24,100 (37.5)	25,700 (55)	23,550 (63.5)	19,000 (68.5)					
30	17,550 (16)	19,550 (47.5)	20,750 (58)	19,000 (64.5)					
35		14,550 (38)	15,900 (52)	16,300 (60)					
40		10,300 (25.5)	12,450 (46)	12,950 (55.5)					
45			9600 (38.5)	10,050 (50.5)					
50			7920 (29.5)	8430 (45)					
55			6380 (14.5)	6880 (39)					
60				5610 (31.5)					
65				4560 (22)					
	Minimum boom angle (°) for indicated length (no load)								
	Maximum boom length (ft) at 0° boom angle (no load)								

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

Boom	Lifting ca	apacities	at 0° boo	om angle
angle	36.3	49.1	61.8	74.5
0°	16,950 (30.5)	8870 (43.2)	6110 (56)	3890 (68.7)

NOTE: () Reference radii in feet. 80051703

6. For pick and carry operation, boom must be centered over front of machine, mechanical swing lock engaged and load restrained from swinging.

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.

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.

RIGGING CHART

INSTALLATION AND REMOVAL OF HYDRAULIC REMOVABLE CWT

ON O/R'S FULLY EXTENDED - 360°

.	Pounds	;
Feet	*36.3	49.1
Tele 1 Tele 2 Tele 3 Tele 4	0% 0% 0% 0%	0% 17% 17% 17%
Mode	А, В	A
10	20,500 (69.5)	20,500 (75)
12	20,500 (66)	20,500 (73)
15	20,500 (60.5)	20,500 (69)
20	20,500 (50)	20,500 (62.5)
25	20,500 (37.5)	20,500 (55.5)
30	20,500 (16)	20,500 (47.5)
35		20,500 (38)

NOTE: () Boom angles are in degrees.

Boom angle	Main boom lengt in feet	
angle	*36.3	
0°	20,500 (30.5)	

80051952

NOTE: () Reference radii in feet. *Boom must be fully retracted.

Load handling

Weight reductions for load handling devices				
33 ft - 56 ft: Folding boom extension:				
	Without block or ball	With 355 lb overhaul ball		
*33 ft extension (erected)	4230 lb	5940 lb		
*56 ft extension (erected)	9280 lb	12,100 lb		
Folding extension with 20 ft insert:				
*56 ft extension (erected)	10,170 lb	12,260 lb		
*Reduction of main boom stowed boom extension).	capacities (no dedu	uct required for		
Auxiliary boom nose:				
	130 lb			
Hook blocks and headache balls:				
66 USt, 5-sheave	1280 lb +			
50 USt, 3-sheave	992 +			
40 USt, 3-sheave	1,071 +			
29 USt, single sheave	712 +			
10 USt, overhaul weight	434 +			
8.3 USt, overhaul ball	355 lb +			

+Refer to rating plate for actual weight

When lifting over swingaway and/or jib combinations, deduct total weight of all load handling devices reeved over main boom nose directly from swingaway or jib capacity.

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

Line pulls and reeving information			
Hoists	Cable specs	Permissible line pulls	Nominal cable length
Main	3/4" (19 mm) 35x7 Class Rotation Resistant (non-rotating) Min. breaking strength 85,800 lb	16,800 lb*	653 ft
Main	22 mm Synthetic K™-100 Hoist Rope (ISO) Min. breaking strength 84,000 lb	16,800 lb*	673 ft
Auxiliary	3/4" (19 mm) 35x7 Class Rotation Resistant (non-rotating) Min. breaking strength 85,800 lb	16,800 lb*	502 ft
Auxiliary	22 mm Synthetic K™-100 Hoist Rope (ISO) Min. breaking strength 84,000 lb	16,800 lb*	522 ft

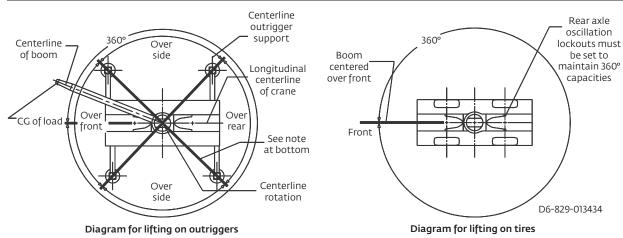
The approximate weight of 3/4" wire rope is 1.5 lb/ft.

The approximate weight of 22 mm synthetic rope is 0.21 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 line pulls two-speed hoist		Drum rope	capacity (ft)
	Low available Ib*	High available Ib*	Layer	Total
1	18,134	9067	101	101
2	16,668	8334	110	211
3	15,420	7710	120	331
4	14,347	7174	129	460
5	13,413	6707	139	599
6	12,594	6297	149	748
*Max lift	*Max lifting capacity: 6x37 and 35x7 class = 16,800 lb			

Tire inflation - PSI (BAR)			
Size (Front and Rear)	TRA Code	Lifting service, general travel and extended travel	
29.5 x 25 (28 or 34) General/Titan, Denman Broadway/Rock Plus	E-3	65 (4.5) See operator's manual for extended roading.	

Working area diagram



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

Specifications

Super Structure

🔳 Boom

11 m - 42 m (36 ft – 138 ft) five-section, sequence synchronized, full-power boom with A&B mode. Maximum tip height: 44,5 m (146 ft)

*Optional bi-fold swingaway extension

10,1 m - 17,1 m (33 ft - 56 ft) bi-fold lattice swingaway extension. Offsettable at 0°, 25° and 45°. Stows alongside base boom section.

Maximum tip height: 61,6 m (202 ft)

🟴 *Optional 6,1 m (20 ft) insert

Installs between boom nose and bi-fold extension, non-stowable.

Maximum tip height: 67,3 m (221 ft)

🔳 Boom nose

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

*Optional removable auxiliary boom nose with removable pin type rope guard.

🜁 Boom elevation

One double-acting hydraulic cylinder with integral holding valve provides elevation from -3° to 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. Dash panel incorporates gauges for all engine functions. Other standard features include: hot water heater, air-conditioning, cab circulating air fan, sliding side and rear windows, sliding skylight with electric wiper and sunscreen, electric windshield wash/wipe, fire extinguisher and seat belt.

1 Swing

Planetary swing with foot-applied multi-disc brake. Spring applied, hydraulically-released swing brake and plunger-type, one position, mechanical house lock operated from cab. *Optional 360° mechanical swing lock. Maximum speed: 2.5 rpm.

Counterweight

6516 kg (14,365 lb) pinned to superstructure.



Three main gear pumps with a combined capacity of 465 LPM (123 GPM).

Maximum operating pressure: 27,6 MPa (4000 psi). Two individual post pressure compensated valve banks.

Return line type filter with full flow by-pass protection and service indicator. Replaceable cartridge with micron filtration rating of 5/12/16. 640 L (169 gal) reservoir. Integral oil cooler. System pressure test ports.

Main and optional auxiliary hoist

Planetary reduction with automatic spring applied multi-disc brake. Grooved drum. Electronic hoist drum rotation indicator and hoist drum cable followers.

Maximum hoist single line pull: 8226 kg (18,134 lb)

Maximum single line speed: 153 m/min (502 fpm)

Maximum permissible line pull:

7620 kg (16,800 lb) with 35 x 7 class rope

Rope diameter: 19 mm (3/4 in)

Main Hoist Rope length: 198 m (650 ft)

Auxiliary Hoist Rope Length: 152,4 m (500 ft)

Rope type: 35 x 7 class rotation resistant

Maximum usable rope stowage: 210 m (692 ft).

Carrier

🗒 Chassis

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

🕒 Outrigger system

Four hydraulic telescoping single-stage double box beam outriggers with inverted jacks and integral holding valves. Three position settings, 100%, 50% and fully retracted. All steel fabricated, quick-release type round outrigger floats, 610 mm (24 in) diameter. Outrigger Monitoring System required for North America, Canada, and E.U. Countries). Maximum outrigger pad load: 42 550 kg (93,800 lb)

🔄 Outrigger controls

Controls and crane level indicator located in cab.

Fuel tank capacity

280 L (74 gal) - draw volume

O Transmission

Rangeshift with 6 forward and 6 reverse speeds (3 speeds high and 3 speeds low). Front axle disconnect for 4 x 2 travel.

*Denotes optional equipment

Specifications

🗲 Electrical system

Three 12-volt maintenance free batteries. 12-volt starting and lighting, circuit breakers, battery disconnect switch.



4 x 4

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Fully independent power steering: Front: Full hydraulic, steering wheel controlled.

Rear: Full hydraulic, switch controlled.

Provides infinite variations of 4 main steering modes: front only, rear only, crab and coordinated.

Rear steer centered indicating light.

4 wheel turning radius - 7,1 m (23 ft 4 in).

Engine (Tier 4F) Cummins

Cummins QSB6.7L diesel six cylinder, 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. 194kW (260 h.p.) at 2500 rpm. Maximum torque: 987 N-m (729 ft lb).

Fuel requirement: Maximum of 15 ppm sulphur content (Ultra Low Diesel Fuel) and Diesel Exhaust Fluid (DEF).

Note: Tier 4F engine Required in North American and European Union countries.

Engine (Tier 3)

Cummins QSB 6.7 L diesel, six cylinders, turbocharged, 179 kW (240 bhp) (Gross) at 2500 rpm. Maximum torque: 987 N-m (728 ft lb) at 1500 rpm.

Note: Required for sale outside of North American and European Union countries

🛨 Axles

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

Automatic full hydraulic lockouts on rear axle permit 203 mm (8 in) oscillation only with boom centered over the front.

O Brakes

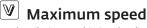
Full hydraulic split circuit brakes operating on all wheels. Spring-applied, hydraulically released axle-mounted parking brake.

U Tires

29.5 x 25 - 28PR bias earthmover type.

🕑 Lights

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



37 km/h (23 mph) (no load).

Gradeability (theoretical)

75% (based on 44 099 kg [97,220 lb] GVW). 29.5 x 25 tires, pumps engaged, 42 m (138 ft) boom, bi-fold extension, aux. hoist and cable, and 66 USt hookblock.

Miscellaneous standard equipment

Full width steel fenders, full length steel decking, dual rear view mirrors, hook block tiedown, electronic back-up alarm, light package, front stowage well, tachometer, rear wheel position indicator, hot water heater, air conditioning package with hydraulic driven air conditioning, hoist mirrors, engine distress A/V warning system. Auxiliary hoist control valve arrangement (less hoist). Cold start aid and immersion type engine block heater, 120V 750 watt. Hoist access platform.

*Optional equipment

- Auxiliary Hoist Package includes auxiliary hoist with electronic hoist drum rotation indicator, hoist drum cable follower, 152,4 m (500 ft) of 19 mm (3/4 in) 35 X 7 class wire rope, auxiliary single sheave boom nose.
- Auxiliary Light and Convenience Package: includes superstructure mounted amber flashing light, in-cab LMI light bar, and dual base boom mounted halogen floodlights, rubber mat for stowage trough
- "CE" Mark Conformance (sound abatement foam kits, 3rd wrap indicator, emergency auxiliary steering, dual axis joystick controllers)
- Cross axle differential locks (front and rear)
- Manual pump disconnect
- Pintle hook rear
- 360° positive swinglock
- Hydraulic removable counterweight
- Vertical LMI light tower (externally mounted)
- Synthetic rope for main and / or auxiliary hoist
- •-29C/-20F Cold weather package
- •-40C/-40F Arctic weather package
- Wireless wind speed indicator
- Spare tire/wheel
- Crane Star asset management system

*Denotes optional equipment

Symbols glossary

